

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000001	0.00	5.00	0.899	0.585	1.129	0.736
00000001	5.00	5.48	0.899	0.585	1.129	0.736
00000001	5.48	8.10	1.077	0.662	1.077	0.705
00000001	8.10	11.92	1.077	0.662	1.077	0.705
00000001	11.92	27.72	1.077	0.662	1.077	0.705
00000001	27.72	28.08	1.077	0.662	1.077	0.705
00000001	28.08	45.45	1.016	0.631	0.588	0.402
00000001	45.45	47.00	1.028	0.662	0.901	0.597
00000001	47.00	49.00	1.028	0.662	0.901	0.597
00000001	49.00	54.61	1.028	0.662	0.901	0.597
00000001	54.61	60.70	1.347	0.866	1.910	1.171
00000001	60.70	62.80	1.347	0.866	1.910	1.171
00000001	62.80	62.88	1.347	0.866	1.910	1.171
00000001	62.88	63.88	1.347	0.866	1.910	1.171
00000001	63.88	64.88	1.347	0.866	1.910	1.171
00000001B	0.00	0.25	0.905	0.603	0.876	0.580
00000001B	0.25	0.42	0.905	0.603	0.876	0.580
00000001B	0.42	2.73	0.905	0.603	0.876	0.580
00000001T	0.00	0.40	1.347	0.866	1.910	1.171
00000001T	0.40	2.30	1.347	0.866	1.910	1.171
00000001T	2.30	3.00	1.347	0.866	1.910	1.171
00000001T	3.00	4.35	1.347	0.866	1.910	1.171
00000003	0.00	10.84	1.028	0.662	0.901	0.597
00000004	0.00	2.00	1.347	0.866	1.910	1.171
00000004	2.00	10.59	1.028	0.662	0.901	0.597
00000005	0.00	1.30	1.347	0.866	1.910	1.171
00000005	1.30	1.60	1.347	0.866	1.910	1.171
00000005	1.60	1.80	1.347	0.866	1.910	1.171
00000005	1.80	3.18	1.347	0.866	1.910	1.171
00000007	0.00	0.26	1.347	0.866	1.910	1.171
00000007	0.26	0.56	1.347	0.866	1.910	1.171
00000007	0.56	1.46	1.347	0.866	1.910	1.171
00000007	1.46	5.35	1.347	0.866	1.910	1.171
00000007	6.05	9.25	1.533	0.917	1.838	1.081
00000007	9.25	10.05	1.533	0.917	1.838	1.081
00000007	10.05	10.16	1.533	0.917	1.838	1.081
00000009	0.23	0.69	0.852	0.574	0.771	0.519
00000009	0.69	1.43	0.852	0.574	0.771	0.519
00000009	1.43	3.06	0.852	0.574	0.771	0.519
00000009	3.06	7.30	0.579	0.407	1.143	0.679
00000009	7.30	16.01	0.579	0.407	1.143	0.679
00000009	16.01	16.06	0.579	0.407	1.143	0.679
00000009	16.06	16.80	0.579	0.407	1.143	0.679
00000009	16.80	18.00	0.852	0.574	0.771	0.519
00000009	18.00	18.61	0.949	0.624	1.750	1.125
00000009	18.61	32.20	0.579	0.407	1.143	0.679
00000009	32.20	32.22	0.579	0.407	1.143	0.679
00000009	32.22	42.86	0.663	0.554	0.556	0.444
00000009	42.86	43.32	0.579	0.407	1.143	0.679
00000009	43.32	43.85	0.579	0.407	1.143	0.679
00000009	43.85	46.00	0.579	0.407	1.143	0.679
00000009	46.00	49.38	0.579	0.407	1.143	0.679
00000009	49.38	52.59	0.579	0.407	1.143	0.679
00000009	54.85	59.89	0.579	0.407	1.143	0.679
00000009	59.89	60.00	0.579	0.407	1.143	0.679
00000009	60.00	62.75	0.579	0.407	1.143	0.679

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Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000009	62.75	70.53	0.579	0.407	1.143	0.679
00000009	70.53	77.90	1.114	0.723	1.417	0.833
00000009	77.90	91.05	1.114	0.723	1.417	0.833
00000009	94.50	99.00	0.880	0.583	0.916	0.574
00000009	99.00	101.50	0.880	0.583	0.916	0.574
00000009	101.50	102.00	0.880	0.583	0.916	0.574
00000009	102.00	114.00	1.142	0.715	1.149	0.727
00000009	114.00	121.51	1.142	0.715	1.149	0.727
00000009	121.51	127.94	0.880	0.583	0.916	0.574
00000009	127.94	131.80	1.142	0.715	1.149	0.727
00000009	131.80	132.80	1.016	0.631	0.588	0.402
00000009	132.80	136.38	1.016	0.631	0.588	0.402
00000009W	0.00	0.67	1.347	0.866	1.910	1.171
00000009W	0.67	1.40	1.347	0.866	1.910	1.171
00000009W	1.40	8.00	1.347	0.866	1.910	1.171
00000009W	8.00	8.50	1.347	0.866	1.910	1.171
00000009W	8.50	11.00	1.347	0.866	1.910	1.171
00000009W	11.00	11.17	1.347	0.866	1.910	1.171
00000010	0.00	18.80	1.016	0.631	0.588	0.402
00000010	18.80	23.51	1.016	0.631	0.588	0.402
00000012	0.00	0.21	0.866	0.613	1.647	1.059
00000012	0.21	0.43	0.866	0.613	1.647	1.059
00000012	0.43	1.00	0.866	0.613	1.647	1.059
00000012	1.00	1.01	0.866	0.613	1.647	1.059
00000012	1.01	6.00	0.866	0.613	1.647	1.059
00000012	6.00	9.40	0.866	0.613	1.647	1.059
00000012	9.40	10.82	0.866	0.613	1.647	1.059
00000012	10.82	11.38	0.866	0.613	1.647	1.059
00000012	11.38	11.69	0.866	0.613	1.647	1.059
00000013	0.00	0.13	0.579	0.407	1.143	0.679
00000013	0.13	0.27	0.579	0.407	1.143	0.679
00000013	0.27	0.56	0.579	0.407	1.143	0.679
00000015	0.00	0.07	1.533	0.917	1.838	1.081
00000015	0.07	0.35	1.533	0.917	1.838	1.081
00000015	0.37	1.30	1.533	0.917	1.838	1.081
00000015	1.30	2.05	1.533	0.917	1.838	1.081
00000015	2.05	5.95	0.868	0.577	1.328	0.809
00000015	5.95	8.92	1.032	0.617	0.995	0.650
00000015	8.92	14.41	0.868	0.577	1.328	0.809
00000015	14.41	19.53	0.685	0.436	0.853	0.559
00000017	0.00	3.00	1.347	0.866	1.910	1.171
00000017	3.00	4.00	1.347	0.866	1.910	1.171
00000017	4.00	5.20	1.347	0.866	1.910	1.171
00000017	5.20	9.13	1.347	0.866	1.910	1.171
00000017	9.13	26.81	0.693	0.482	1.172	0.772
00000018	5.14	29.92	1.062	0.640	1.128	0.728
00000018	29.92	31.08	1.062	0.640	1.128	0.728
00000018	31.08	34.78	0.880	0.583	0.916	0.574
00000018	34.78	39.45	1.077	0.662	1.077	0.705
00000018	39.45	39.64	1.077	0.662	1.077	0.705
00000018	39.64	40.90	1.077	0.662	1.077	0.705
00000018	40.90	41.40	0.786	0.562	0.997	0.676
00000018	41.40	42.20	0.786	0.562	0.997	0.676
00000018	42.20	45.30	0.786	0.562	0.997	0.676
00000019	0.00	2.46	1.028	0.662	0.901	0.597
00000019	2.46	3.04	1.347	0.866	1.910	1.171

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Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
0000020	0.00	1.00	1.347	0.866	1.910	1.171
0000020	1.00	4.00	1.347	0.866	1.910	1.171
0000020	4.00	4.15	1.347	0.866	1.910	1.171
0000021	0.00	4.08	1.347	0.866	1.910	1.171
0000021	4.08	14.35	1.028	0.662	0.901	0.597
0000022	0.00	0.63	1.032	0.617	0.995	0.650
0000022	0.63	5.07	0.958	0.630	1.368	0.888
0000022	19.25	41.00	0.958	0.630	1.368	0.888
0000022	41.00	53.00	1.016	0.631	0.588	0.402
0000022	53.00	60.53	1.016	0.631	0.588	0.402
0000023	0.00	3.95	1.016	0.631	0.588	0.402
0000023	3.95	4.86	1.016	0.631	0.588	0.402
0000023	4.86	6.82	1.016	0.631	0.588	0.402
0000023	8.94	26.60	1.016	0.631	0.588	0.402
0000023	26.60	31.37	0.685	0.436	0.853	0.559
0000023	31.37	34.50	0.685	0.436	0.853	0.559
0000023	34.50	36.00	0.685	0.436	0.853	0.559
0000023	36.00	39.50	0.685	0.436	0.853	0.559
0000023	39.50	39.98	0.685	0.436	0.853	0.559
0000023	39.98	40.40	0.685	0.436	0.853	0.559
0000023	40.40	40.61	0.685	0.436	0.853	0.559
0000023	40.61	42.60	0.685	0.436	0.853	0.559
0000023	42.60	52.63	0.685	0.436	0.853	0.559
0000024	0.00	1.00	1.028	0.662	0.901	0.597
0000024	1.00	4.50	1.028	0.662	0.901	0.597
0000024	4.50	5.00	1.028	0.662	0.901	0.597
0000024	5.00	10.42	1.028	0.662	0.901	0.597
0000026	0.00	2.54	0.978	0.647	1.261	0.815
0000027	0.00	1.74	1.222	0.775	1.307	0.821
0000027	1.74	3.00	1.222	0.775	1.307	0.821
0000027	3.00	13.50	1.077	0.662	1.077	0.705
0000027	13.50	15.17	1.077	0.662	1.077	0.705
0000027	15.17	16.22	1.077	0.662	1.077	0.705
0000027	16.22	16.72	1.077	0.662	1.077	0.705
0000027	16.72	18.04	1.077	0.662	1.077	0.705
0000027	18.04	20.82	1.016	0.631	0.588	0.402
0000027	20.82	21.59	1.016	0.631	0.588	0.402
0000027	21.59	21.86	1.016	0.631	0.588	0.402
0000027	21.86	23.26	1.016	0.631	0.588	0.402
0000027	23.26	26.30	1.016	0.631	0.588	0.402
0000027	26.30	27.20	1.016	0.631	0.588	0.402
0000027	27.20	32.79	1.016	0.631	0.588	0.402
0000027	32.79	33.62	1.016	0.631	0.588	0.402
0000027	33.62	34.05	1.016	0.631	0.588	0.402
0000027	34.05	34.34	1.016	0.631	0.588	0.402
0000027	34.34	34.78	1.016	0.631	0.588	0.402
0000027	34.78	35.80	1.016	0.631	0.588	0.402
0000027	35.80	38.16	1.347	0.866	1.910	1.171
0000027	38.16	38.53	1.347	0.866	1.910	1.171
0000027Z	33.39	33.89	1.016	0.631	0.588	0.402
0000027Z	33.89	34.06	1.016	0.631	0.588	0.402
0000028	0.00	2.25	0.978	0.647	1.261	0.815
0000028	2.25	2.50	0.620	0.420	0.981	0.634
0000028	2.50	2.95	0.620	0.420	0.981	0.634
0000028	2.95	3.80	0.620	0.420	0.981	0.634
0000028	3.80	4.30	0.620	0.420	0.981	0.634

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Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000028	4.30	9.75	1.077	0.662	1.077	0.705
00000028	9.75	11.78	1.016	0.631	0.588	0.402
00000028	11.78	12.49	1.016	0.631	0.588	0.402
00000028	12.49	14.32	1.016	0.631	0.588	0.402
00000028	14.32	14.66	1.016	0.631	0.588	0.402
00000028	14.66	15.70	1.016	0.631	0.588	0.402
00000028	15.70	19.50	1.016	0.631	0.588	0.402
00000028	19.50	23.00	1.016	0.631	0.588	0.402
00000028	23.00	26.44	1.016	0.631	0.588	0.402
00000029	0.00	2.50	0.899	0.585	1.129	0.736
00000029	2.50	4.00	0.899	0.585	1.129	0.736
00000029	4.00	4.17	0.899	0.585	1.129	0.736
00000029	4.17	4.44	0.899	0.585	1.129	0.736
00000029	4.44	6.99	0.899	0.585	1.129	0.736
00000029	6.99	9.39	0.899	0.585	1.129	0.736
00000029	9.39	9.40	0.905	0.603	0.876	0.580
00000029	9.40	13.93	0.905	0.603	0.876	0.580
00000029	13.93	15.34	0.905	0.603	0.876	0.580
00000029	15.34	18.87	1.142	0.684	1.159	0.738
00000029	18.87	18.96	1.142	0.684	1.159	0.738
00000029	18.96	20.06	1.142	0.684	1.159	0.738
00000029	20.06	23.03	0.866	0.613	1.647	1.059
00000029	23.03	26.24	0.866	0.613	1.647	1.059
00000029	26.24	34.00	0.866	0.613	1.647	1.059
00000029	34.00	34.71	0.866	0.613	1.647	1.059
00000030	0.92	3.00	1.314	0.776	1.128	0.674
00000030	3.00	4.40	1.314	0.776	1.128	0.674
00000030	4.40	26.58	1.314	0.776	1.128	0.674
00000030	26.58	27.95	1.314	0.776	1.128	0.674
00000030	27.95	36.32	0.684	0.460	1.480	0.860
00000030	36.32	54.44	0.684	0.460	1.480	0.860
00000030	54.44	56.77	0.684	0.460	1.480	0.860
00000030	56.77	58.26	0.684	0.460	1.480	0.860
00000031	0.00	4.60	0.905	0.603	0.876	0.580
00000031	4.60	8.59	1.222	0.775	1.307	0.821
00000031	8.59	16.07	1.473	0.844	1.465	0.941
00000031	16.07	16.36	1.473	0.844	1.465	0.941
00000031	22.02	35.73	1.033	0.657	0.923	0.609
00000031	35.73	47.90	1.106	0.664	1.340	0.855
00000031	47.90	48.93	1.106	0.664	1.340	0.855
00000032	0.00	1.18	0.780	0.493	0.735	0.486
00000033	0.00	3.00	1.142	0.715	1.149	0.727
00000033	3.00	4.00	1.142	0.715	1.149	0.727
00000033	4.00	7.84	1.142	0.715	1.149	0.727
00000033	12.42	13.50	1.142	0.715	1.149	0.727
00000033	13.50	14.10	1.142	0.715	1.149	0.727
00000033	14.10	14.33	1.142	0.715	1.149	0.727
00000033	14.33	15.00	1.142	0.715	1.149	0.727
00000033	15.00	17.54	1.142	0.715	1.149	0.727
00000033	17.54	18.94	1.142	0.715	1.149	0.727
00000033	18.94	24.32	1.142	0.715	1.149	0.727
00000033	24.32	24.40	1.142	0.715	1.149	0.727
00000033	24.40	31.00	0.786	0.562	0.997	0.676
00000033	31.00	31.49	0.880	0.583	0.916	0.574
00000033	31.49	37.67	0.880	0.583	0.916	0.574
00000033	37.67	41.38	0.880	0.583	0.916	0.574

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Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000033	41.38	42.03	0.579	0.407	1.143	0.679
00000033B	0.00	2.41	1.142	0.715	1.149	0.727
00000033B	2.41	6.89	1.142	0.715	1.149	0.727
00000034	0.00	7.72	0.880	0.583	0.916	0.574
00000034	8.76	12.27	0.579	0.407	1.143	0.679
00000034	12.27	22.30	1.142	0.715	1.149	0.727
00000034	22.30	23.40	0.880	0.583	0.916	0.574
00000034	23.40	26.79	0.880	0.583	0.916	0.574
00000035	0.00	2.62	0.579	0.407	1.143	0.679
00000035	2.62	2.70	0.579	0.407	1.143	0.679
00000035	2.70	4.35	0.880	0.583	0.916	0.574
00000035	4.35	5.72	0.880	0.583	0.916	0.574
00000035	5.72	7.30	0.880	0.583	0.916	0.574
00000035	7.30	11.30	0.880	0.583	0.916	0.574
00000035	11.30	12.48	0.880	0.583	0.916	0.574
00000035	12.48	12.86	0.880	0.583	0.916	0.574
00000035	12.86	13.66	0.880	0.583	0.916	0.574
00000035	13.66	14.29	0.880	0.583	0.916	0.574
00000035	14.29	22.70	0.880	0.583	0.916	0.574
00000035	22.70	23.10	0.880	0.583	0.916	0.574
00000035	23.10	25.40	0.880	0.583	0.916	0.574
00000035	25.40	27.00	0.880	0.583	0.916	0.574
00000035	27.00	29.60	0.880	0.583	0.916	0.574
00000035	29.60	33.00	0.880	0.583	0.916	0.574
00000035	33.00	33.84	0.880	0.583	0.916	0.574
00000035	33.84	45.00	0.880	0.583	0.916	0.574
00000035	45.00	46.70	0.880	0.583	0.916	0.574
00000035	46.70	49.38	0.880	0.583	0.916	0.574
00000035	50.63	50.76	0.880	0.583	0.916	0.574
00000035	50.76	51.46	0.880	0.583	0.916	0.574
00000035	51.46	52.05	1.016	0.631	0.588	0.402
00000035	52.05	52.18	1.016	0.631	0.588	0.402
00000035	52.18	54.06	1.016	0.631	0.588	0.402
00000035	54.06	56.06	1.016	0.631	0.588	0.402
00000035	56.06	58.07	1.016	0.631	0.588	0.402
00000035Z	3.49	4.30	0.880	0.583	0.916	0.574
00000035Z	4.30	5.53	0.880	0.583	0.916	0.574
00000035Z	5.53	9.03	0.880	0.583	0.916	0.574
00000035Z	12.85	14.28	0.880	0.583	0.916	0.574
00000036	0.00	2.78	0.880	0.583	0.916	0.574
00000036	2.78	3.87	0.880	0.583	0.916	0.574
00000036	3.87	5.72	0.880	0.583	0.916	0.574
00000036	5.72	6.37	0.880	0.583	0.916	0.574
00000036	6.37	11.80	0.880	0.583	0.916	0.574
00000036	11.80	13.30	0.880	0.583	0.916	0.574
00000036	13.30	18.40	0.880	0.583	0.916	0.574
00000036	18.40	24.40	0.880	0.583	0.916	0.574
00000037	0.00	2.49	1.142	0.715	1.149	0.727
00000037	2.49	11.45	0.880	0.583	0.916	0.574
00000037	11.45	12.36	0.880	0.583	0.916	0.574
00000037	12.36	12.79	0.880	0.583	0.916	0.574
00000037	12.79	13.43	0.880	0.583	0.916	0.574
00000038	0.00	5.00	0.956	0.612	1.246	0.769
00000038	5.00	19.19	0.956	0.612	1.246	0.769
00000040	1.70	2.60	0.903	0.541	0.972	0.641
00000040	2.60	8.14	0.903	0.541	0.972	0.641

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000040	8.14	10.02	0.903	0.541	0.972	0.641
00000040	10.02	10.67	0.903	0.541	0.972	0.641
00000040	10.67	11.31	0.903	0.541	0.972	0.641
00000040	11.31	12.37	0.903	0.541	0.972	0.641
00000040	12.37	19.55	0.903	0.541	0.972	0.641
00000040	19.55	32.72	0.779	0.535	1.135	0.719
00000040	32.72	35.50	0.779	0.535	1.135	0.719
00000040	35.50	44.40	0.779	0.535	1.135	0.719
00000040	44.40	47.01	0.663	0.554	0.556	0.444
00000040	47.01	47.34	0.663	0.554	0.556	0.444
00000040	47.34	53.16	0.663	0.554	0.556	0.444
00000040	53.16	63.49	0.663	0.554	0.556	0.444
00000040	63.49	64.32	0.663	0.554	0.556	0.444
00000041	0.00	3.86	0.393	0.286	0.706	0.471
00000041	3.86	4.00	1.314	0.776	1.128	0.674
00000041	4.00	4.95	1.314	0.776	1.128	0.674
00000041	4.95	7.23	0.393	0.286	0.706	0.471
00000041	7.23	7.90	0.978	0.647	1.261	0.815
00000041	7.90	8.60	0.978	0.647	1.261	0.815
00000041	8.60	10.57	0.978	0.647	1.261	0.815
00000041	10.57	10.68	0.978	0.647	1.261	0.815
00000041	10.68	10.83	0.557	0.389	0.947	0.624
00000041	10.83	14.08	0.978	0.647	1.261	0.815
00000042	0.00	6.35	1.314	0.776	1.128	0.674
00000042	6.35	14.28	1.654	0.920	1.394	0.869
00000044	0.00	0.86	0.393	0.286	0.706	0.471
00000044	0.86	2.14	0.393	0.286	0.706	0.471
00000044	2.14	6.30	0.393	0.286	0.706	0.471
00000044	6.30	10.28	0.393	0.286	0.706	0.471
00000045	0.00	0.50	0.393	0.286	0.706	0.471
00000045	0.50	3.35	0.393	0.286	0.706	0.471
00000045	3.35	7.05	0.393	0.286	0.706	0.471
00000045	7.05	8.80	0.393	0.286	0.706	0.471
00000045	9.44	10.44	0.393	0.286	0.706	0.471
00000045	10.44	12.49	0.393	0.286	0.706	0.471
00000045	12.49	13.53	0.393	0.286	0.706	0.471
00000045	13.53	15.48	0.393	0.286	0.706	0.471
00000045	15.48	17.40	0.393	0.286	0.706	0.471
00000045	17.40	17.64	0.393	0.286	0.706	0.471
00000045	18.16	19.50	1.314	0.776	1.128	0.674
00000045	19.50	22.60	1.314	0.776	1.128	0.674
00000045	22.60	25.49	1.314	0.776	1.128	0.674
00000045	25.49	27.00	1.314	0.776	1.128	0.674
00000045	27.00	28.51	1.314	0.776	1.128	0.674
00000046	0.00	1.57	0.792	0.462	0.864	0.558
00000046	1.57	6.93	0.792	0.462	0.864	0.558
00000046	6.93	9.13	0.792	0.462	0.864	0.558
00000046	9.13	10.03	0.792	0.462	0.864	0.558
00000046	10.03	15.79	0.866	0.613	1.647	1.059
00000046	15.79	17.21	0.866	0.613	1.647	1.059
00000046	17.21	20.63	0.866	0.613	1.647	1.059
00000046	20.63	21.70	0.866	0.613	1.647	1.059
00000046	21.70	21.83	0.868	0.577	1.328	0.809
00000046	21.83	37.19	0.868	0.577	1.328	0.809
00000046	37.19	37.91	1.016	0.631	0.588	0.402
00000046	37.91	38.17	1.016	0.631	0.588	0.402

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000046	38.17	38.85	1.016	0.631	0.588	0.402
00000046	38.85	69.52	1.016	0.631	0.588	0.402
00000046	69.52	70.25	1.347	0.866	1.910	1.171
00000046	70.25	72.09	1.347	0.866	1.910	1.171
00000047	0.00	3.15	0.852	0.574	0.771	0.519
00000047	3.15	3.40	0.840	0.529	1.375	0.812
00000047	3.40	3.80	0.840	0.529	1.375	0.812
00000047	3.80	7.06	0.840	0.529	1.375	0.812
00000047	7.06	15.98	0.840	0.529	1.375	0.812
00000047	15.98	17.54	0.840	0.529	1.375	0.812
00000047	17.54	19.35	0.852	0.574	0.771	0.519
00000047	19.35	20.91	0.852	0.574	0.771	0.519
00000047	20.91	25.29	0.840	0.529	1.375	0.812
00000047	25.29	30.85	0.840	0.529	1.375	0.812
00000047	30.85	31.95	0.840	0.529	1.375	0.812
00000047	31.95	35.08	0.852	0.574	0.771	0.519
00000047	35.08	36.10	0.840	0.529	1.375	0.812
00000047	36.10	36.25	0.840	0.529	1.375	0.812
00000047	36.25	40.20	0.840	0.529	1.375	0.812
00000047	40.20	42.47	0.840	0.529	1.375	0.812
00000047	42.47	46.55	0.840	0.529	1.375	0.812
00000047	46.55	47.68	0.840	0.529	1.375	0.812
00000047	47.68	51.95	0.840	0.529	1.375	0.812
00000047	51.95	52.52	0.840	0.529	1.375	0.812
00000047	53.03	62.46	0.840	0.529	1.375	0.812
00000047	62.87	64.12	1.314	0.776	1.128	0.674
00000047	64.12	75.20	0.393	0.286	0.706	0.471
00000047Z	0.00	0.22	0.840	0.529	1.375	0.812
00000048	0.00	1.50	0.393	0.286	0.706	0.471
00000048	1.50	2.13	0.393	0.286	0.706	0.471
00000048	2.13	4.26	2.653	1.463	1.292	0.843
00000049	0.00	2.50	0.903	0.541	0.972	0.641
00000049	2.50	6.19	0.903	0.541	0.972	0.641
00000049	6.19	8.00	0.903	0.541	0.972	0.641
00000049	8.00	8.20	0.903	0.541	0.972	0.641
00000049	8.20	8.29	0.903	0.541	0.972	0.641
00000049	8.29	8.30	0.903	0.541	0.972	0.641
00000049	8.30	8.47	0.903	0.541	0.972	0.641
00000049	8.47	10.10	0.903	0.541	0.972	0.641
00000049	10.10	18.77	0.903	0.541	0.972	0.641
00000049	18.77	20.91	0.903	0.541	0.972	0.641
00000049	20.91	24.70	0.903	0.541	0.972	0.641
00000049	24.70	26.40	0.903	0.541	0.972	0.641
00000049	26.40	30.79	0.852	0.574	0.771	0.519
00000049	30.79	30.80	0.852	0.574	0.771	0.519
00000049	30.80	35.09	0.852	0.574	0.771	0.519
00000049	35.09	36.42	0.852	0.574	0.771	0.519
00000049	36.42	37.84	0.852	0.574	0.771	0.519
00000049	37.84	40.80	0.840	0.529	1.375	0.812
00000049	40.80	53.80	0.840	0.529	1.375	0.812
00000050	0.00	4.91	0.840	0.529	1.375	0.812
00000050	4.91	9.34	0.840	0.529	1.375	0.812
00000050	9.34	17.29	0.840	0.529	1.375	0.812
00000050	17.29	18.24	0.840	0.529	1.375	0.812
00000050	18.24	18.50	0.840	0.529	1.375	0.812
00000050	19.12	23.34	0.840	0.529	1.375	0.812

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
0000050	23.34	24.93	0.840	0.529	1.375	0.812
0000050	24.93	24.94	0.840	0.529	1.375	0.812
0000050	24.94	26.02	0.840	0.529	1.375	0.812
0000052	0.00	2.12	0.663	0.554	0.556	0.444
0000052	2.12	2.74	0.949	0.624	1.750	1.125
0000053	0.00	3.40	1.016	0.631	0.588	0.402
0000053	3.40	4.63	1.016	0.631	0.588	0.402
0000053	4.63	4.66	1.016	0.631	0.588	0.402
0000054	0.00	1.07	0.840	0.529	1.375	0.812
0000054	1.07	1.10	0.840	0.529	1.375	0.812
0000054	1.10	5.65	0.840	0.529	1.375	0.812
0000054	5.65	6.67	0.840	0.529	1.375	0.812
0000054	6.67	8.71	0.684	0.460	1.480	0.860
0000054	8.71	10.60	0.840	0.529	1.375	0.812
0000054	10.60	11.86	0.840	0.529	1.375	0.812
0000055	20.00	21.75	1.706	0.945	1.355	0.852
0000054	6.47	8.05	1.533	0.917	1.838	1.081
0000054	8.05	8.96	1.533	0.917	1.838	1.081
0000054	8.96	11.65	1.016	0.631	0.588	0.402
0000054	11.65	12.77	1.347	0.866	1.910	1.171
0000054	12.77	13.99	1.347	0.866	1.910	1.171
0000054	13.99	14.05	1.347	0.866	1.910	1.171
0000054	14.05	14.51	1.347	0.866	1.910	1.171
0000054	14.51	14.76	1.347	0.866	1.910	1.171
0000054	14.76	15.76	1.347	0.866	1.910	1.171
0000054	15.76	15.83	1.347	0.866	1.910	1.171
0000054	15.83	15.94	1.533	0.917	1.838	1.081
00000505	0.00	0.48	0.926	0.582	0.783	0.500
00000505	0.48	0.53	1.533	0.917	1.838	1.081
00000505	0.53	0.66	0.926	0.582	0.783	0.500
00000505	0.66	1.93	0.926	0.582	0.783	0.500
00000505	1.93	2.50	1.347	0.866	1.910	1.171
00000505	2.50	7.48	1.347	0.866	1.910	1.171
00000505	7.48	9.50	1.347	0.866	1.910	1.171
00000505	9.50	10.70	1.347	0.866	1.910	1.171
00000505	10.70	11.48	1.347	0.866	1.910	1.171
00000505	11.48	11.71	1.347	0.866	1.910	1.171
00000505	11.71	17.61	1.347	0.866	1.910	1.171
00000505	17.61	20.64	1.347	0.866	1.910	1.171
00000505Z	0.00	0.48	0.926	0.582	0.783	0.500
00000506	0.00	7.28	1.016	0.631	0.588	0.402
00000506	7.28	7.34	1.533	0.917	1.838	1.081
00000506	7.34	10.43	1.533	0.917	1.838	1.081
00000506	10.52	10.78	1.533	0.917	1.838	1.081
00000506S	0.00	3.93	1.347	0.866	1.910	1.171
00000506S	3.93	4.16	1.347	0.866	1.910	1.171
00000506S	4.16	4.30	1.347	0.866	1.910	1.171
00000506SZ	0.00	0.22	1.347	0.866	1.910	1.171
00000506SZ	0.22	0.29	1.347	0.866	1.910	1.171
00000507	0.00	2.21	1.533	0.917	1.838	1.081
00000507	3.22	4.53	1.347	0.866	1.910	1.171
00000507	4.53	7.04	1.347	0.866	1.910	1.171
00000507	7.04	7.73	1.347	0.866	1.910	1.171
00000507	7.73	8.26	1.347	0.866	1.910	1.171
00000507	8.26	8.82	1.347	0.866	1.910	1.171
00000507	8.82	9.24	1.347	0.866	1.910	1.171



**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000507	9.24	9.56	1.347	0.866	1.910	1.171
00000507	9.56	14.35	1.347	0.866	1.910	1.171
00000507	14.35	15.94	1.347	0.866	1.910	1.171
00000507	15.94	18.62	1.347	0.866	1.910	1.171
00000507	18.62	19.04	1.347	0.866	1.910	1.171
00000507	19.04	20.37	1.347	0.866	1.910	1.171
00000507	20.37	20.76	1.347	0.866	1.910	1.171
00000507	21.35	24.19	1.347	0.866	1.910	1.171
00000507	24.19	24.99	1.347	0.866	1.910	1.171
00000507	24.99	26.39	1.016	0.631	0.588	0.402
00000507	26.39	28.34	1.016	0.631	0.588	0.402
00000508	0.00	1.73	1.016	0.631	0.588	0.402
00000508	1.73	3.11	1.016	0.631	0.588	0.402
00000508	3.11	6.22	1.016	0.631	0.588	0.402
00000508	6.22	6.39	1.533	0.917	1.838	1.081
00000508	6.39	6.58	1.533	0.917	1.838	1.081
00000508	6.58	6.70	1.016	0.631	0.588	0.402
00000508	6.70	11.28	1.347	0.866	1.910	1.171
00000508	11.28	11.41	1.347	0.866	1.910	1.171
00000508	11.41	11.53	1.347	0.866	1.910	1.171
00000508	12.20	12.36	1.533	0.917	1.838	1.081
00000508	12.36	14.47	1.533	0.917	1.838	1.081
00000508	14.47	16.14	1.533	0.917	1.838	1.081
00000508S	0.00	0.31	1.016	0.631	0.588	0.402
00000509	0.00	1.96	1.533	0.917	1.838	1.081
00000509	1.96	2.37	1.533	0.917	1.838	1.081
00000509	2.37	2.99	1.533	0.917	1.838	1.081
00000509	2.99	4.84	1.533	0.917	1.838	1.081
00000509	4.84	5.38	1.533	0.917	1.838	1.081
00000509	5.38	7.27	1.533	0.917	1.838	1.081
00000509	7.27	8.19	1.533	0.917	1.838	1.081
00000509	8.19	8.48	1.533	0.917	1.838	1.081
00000509	8.48	8.90	1.533	0.917	1.838	1.081
00000509	8.90	9.42	1.533	0.917	1.838	1.081
00000509	9.42	11.55	1.533	0.917	1.838	1.081
00000509	11.55	11.56	1.347	0.866	1.910	1.171
00000509	11.56	12.43	1.533	0.917	1.838	1.081
00000509	12.43	12.80	1.533	0.917	1.838	1.081
00000509	12.80	14.01	1.533	0.917	1.838	1.081
00000509	14.01	14.53	1.533	0.917	1.838	1.081
00000509	14.53	14.78	1.533	0.917	1.838	1.081
00000509	14.78	15.88	1.533	0.917	1.838	1.081
00000509	15.88	21.89	1.533	0.917	1.838	1.081
00000509	22.35	23.43	1.347	0.866	1.910	1.171
00000509	23.43	24.19	1.347	0.866	1.910	1.171
00000509	24.19	24.23	1.347	0.866	1.910	1.171
00000509	24.23	25.40	1.347	0.866	1.910	1.171
00000509	25.40	25.58	1.347	0.866	1.910	1.171
00000509	25.58	25.78	1.347	0.866	1.910	1.171
00000509S	0.00	0.93	1.533	0.917	1.838	1.081
00000509S	0.93	0.98	1.016	0.631	0.588	0.402
00000509S	0.98	1.79	1.016	0.631	0.588	0.402
00000509S	1.79	2.98	1.016	0.631	0.588	0.402
00000509Z	0.00	0.16	1.347	0.866	1.910	1.171
00000509Z	0.16	0.38	1.347	0.866	1.910	1.171
00000509Z	2.61	2.87	1.347	0.866	1.910	1.171

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000510	0.00	0.30	1.533	0.917	1.838	1.081
00000510	0.30	2.82	1.533	0.917	1.838	1.081
00000510	2.82	3.45	1.533	0.917	1.838	1.081
00000510	3.45	3.90	1.533	0.917	1.838	1.081
00000510	3.90	4.83	1.533	0.917	1.838	1.081
00000510	4.83	8.11	1.533	0.917	1.838	1.081
00000510	8.11	10.94	1.533	0.917	1.838	1.081
00000510	10.94	11.65	1.533	0.917	1.838	1.081
00000510	11.80	12.91	1.016	0.631	0.588	0.402
00000510	12.91	14.33	1.016	0.631	0.588	0.402
00000510	14.33	17.85	1.016	0.631	0.588	0.402
00000510	17.85	27.10	1.016	0.631	0.588	0.402
00000555	21.75	38.30	1.706	0.945	1.355	0.852
00000555	38.30	60.54	1.654	0.920	1.394	0.869
0000056	0.00	1.25	0.393	0.286	0.706	0.471
0000056	1.25	2.20	0.393	0.286	0.706	0.471
0000056	2.20	9.19	0.393	0.286	0.706	0.471
0000057	0.00	3.58	0.679	0.495	0.932	0.598
0000057	3.58	6.53	0.679	0.495	0.932	0.598
0000057	6.53	9.79	0.679	0.495	0.932	0.598
0000057	9.79	11.60	0.679	0.495	0.932	0.598
0000057	11.60	12.67	0.679	0.495	0.932	0.598
0000057	12.67	14.68	0.679	0.495	0.932	0.598
0000057	14.68	15.82	0.679	0.495	0.932	0.598
0000057	15.82	20.53	0.679	0.495	0.932	0.598
0000057	20.53	21.10	0.679	0.495	0.932	0.598
0000059	0.00	0.15	0.926	0.582	0.783	0.500
0000062	0.00	0.47	1.347	0.866	1.910	1.171
0000063	0.00	0.90	1.347	0.866	1.910	1.171
0000063	0.90	3.09	1.347	0.866	1.910	1.171
0000064	0.00	0.32	0.780	0.493	0.735	0.486
0000066	0.00	3.62	0.880	0.583	0.916	0.574
0000067	0.00	0.80	1.533	0.917	1.838	1.081
0000067	0.80	1.29	1.533	0.917	1.838	1.081
0000067	1.29	1.86	1.347	0.866	1.910	1.171
0000068	0.00	1.00	1.166	0.682	1.179	0.768
0000068	1.00	2.85	1.166	0.682	1.179	0.768
0000068	2.85	7.80	0.978	0.647	1.261	0.815
0000070	0.00	18.53	0.557	0.389	0.947	0.624
0000070	18.61	23.03	0.557	0.389	0.947	0.624
0000070	23.03	26.05	0.557	0.389	0.947	0.624
0000070	26.05	33.31	0.557	0.389	0.947	0.624
0000070	33.31	37.52	0.557	0.389	0.947	0.624
0000070	37.52	40.30	0.557	0.389	0.947	0.624
0000070	40.30	43.27	0.557	0.389	0.947	0.624
0000070	43.27	58.26	0.880	0.583	0.916	0.574
0000070	58.26	58.44	0.880	0.583	0.916	0.574
0000070	58.44	59.84	0.880	0.583	0.916	0.574
0000071	0.00	1.72	0.880	0.583	0.916	0.574
0000071	1.72	4.89	0.880	0.583	0.916	0.574
0000071	4.89	5.10	0.880	0.583	0.916	0.574
0000071	5.42	5.57	0.579	0.407	1.143	0.679
0000071	5.57	9.00	0.579	0.407	1.143	0.679
0000071	9.00	9.37	0.579	0.407	1.143	0.679
0000071	9.37	9.47	0.579	0.407	1.143	0.679
0000071	9.47	12.96	0.579	0.407	1.143	0.679

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000071	12.96	13.78	0.579	0.407	1.143	0.679
00000071	13.78	15.58	0.579	0.407	1.143	0.679
00000071	15.58	16.78	0.579	0.407	1.143	0.679
00000072	0.00	1.66	1.829	0.980	1.331	0.844
00000072	1.66	16.20	1.829	0.980	1.331	0.844
00000072	16.20	16.22	1.114	0.723	1.417	0.833
00000072	16.22	22.80	1.114	0.723	1.417	0.833
00000072	22.80	23.00	1.114	0.723	1.417	0.833
00000072	23.00	26.75	1.114	0.723	1.417	0.833
00000072	26.75	27.08	1.492	0.881	1.387	0.869
00000072	27.08	28.46	1.114	0.723	1.417	0.833
00000072	28.46	28.74	1.114	0.723	1.417	0.833
00000073	0.00	2.40	0.840	0.529	1.375	0.812
00000073	2.40	4.00	0.840	0.529	1.375	0.812
00000073	4.00	4.14	0.840	0.529	1.375	0.812
00000073	4.14	6.06	1.166	0.682	1.179	0.768
00000073	6.06	8.90	1.314	0.776	1.128	0.674
00000073	8.90	11.50	1.314	0.776	1.128	0.674
00000073	11.50	13.20	1.314	0.776	1.128	0.674
00000073	13.20	34.64	1.314	0.776	1.128	0.674
00000076	0.00	3.08	0.974	0.588	1.007	0.676
00000076C	0.00	1.22	1.314	0.776	1.128	0.674
00000077	0.00	2.10	0.393	0.286	0.706	0.471
00000077	2.10	6.14	0.393	0.286	0.706	0.471
00000077	6.14	10.00	0.393	0.286	0.706	0.471
00000077	10.00	14.10	0.393	0.286	0.706	0.471
00000077	14.10	14.60	0.393	0.286	0.706	0.471
00000077	14.60	18.29	0.393	0.286	0.706	0.471
00000077	18.29	22.16	0.393	0.286	0.706	0.471
00000077	22.16	22.55	0.393	0.286	0.706	0.471
00000078	0.00	7.68	0.433	0.334	1.044	0.706
00000078	7.68	14.52	1.135	0.674	1.185	0.796
00000078	14.52	25.53	1.135	0.674	1.185	0.796
00000078	25.53	30.14	1.255	0.714	0.972	0.653
00000078	30.14	30.80	1.255	0.714	0.972	0.653
00000078	30.80	31.32	1.255	0.714	0.972	0.653
00000078	31.32	42.70	1.672	0.913	1.311	0.851
00000078	42.70	52.20	1.672	0.913	1.311	0.851
00000078	52.20	58.50	1.672	0.913	1.311	0.851
00000078	58.50	59.00	1.672	0.913	1.311	0.851
00000078	59.00	62.00	0.987	0.597	0.911	0.612
00000078	62.00	67.03	1.672	0.913	1.311	0.851
00000078	67.03	67.83	1.672	0.913	1.311	0.851
00000079	0.00	1.43	1.142	0.715	1.149	0.727
00000079	1.43	1.59	1.142	0.715	1.149	0.727
00000079	1.59	3.40	1.142	0.715	1.149	0.727
00000079	3.40	5.47	0.880	0.583	0.916	0.574
00000079	5.47	6.17	0.880	0.583	0.916	0.574
00000079	6.17	10.90	0.880	0.583	0.916	0.574
00000079	10.90	12.13	0.880	0.583	0.916	0.574
00000080	0.00	4.70	0.347	0.276	0.905	0.603
00000080	4.70	18.26	0.424	0.333	1.175	0.780
00000080	18.26	19.88	0.424	0.333	1.175	0.780
00000080	19.88	23.23	0.424	0.333	1.175	0.780
00000080	23.23	68.54	0.787	0.546	0.908	0.606
00000081	0.00	1.18	1.028	0.662	0.901	0.597

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
0000082	0.00	3.83	1.016	0.631	0.588	0.402
0000082	3.83	4.92	1.016	0.631	0.588	0.402
0000083	0.00	3.81	0.852	0.574	0.771	0.519
0000087	0.00	0.60	0.663	0.554	0.556	0.444
0000087	0.60	1.70	1.492	0.881	1.387	0.869
0000088	0.00	0.60	0.880	0.583	0.916	0.574
0000088	0.60	5.20	0.880	0.583	0.916	0.574
0000088	5.20	5.45	0.880	0.583	0.916	0.574
0000088	5.45	5.62	0.880	0.583	0.916	0.574
0000088	5.62	7.70	0.880	0.583	0.916	0.574
0000088	7.70	10.02	0.880	0.583	0.916	0.574
0000088Z	0.00	0.19	0.880	0.583	0.916	0.574
0000090	0.00	3.22	1.654	0.920	1.394	0.869
0000091	0.00	2.26	0.978	0.647	1.261	0.815
0000093	0.00	3.50	1.347	0.866	1.910	1.171
0000094	0.00	0.63	1.533	0.917	1.838	1.081
0000094	0.63	17.08	1.533	0.917	1.838	1.081
0000094	17.08	22.00	1.533	0.917	1.838	1.081
0000094	22.00	22.47	1.533	0.917	1.838	1.081
0000094	24.91	25.64	1.533	0.917	1.838	1.081
0000094	25.64	27.70	1.533	0.917	1.838	1.081
0000094	28.00	32.38	1.533	0.917	1.838	1.081
0000094	32.38	35.31	1.533	0.917	1.838	1.081
0000094	35.31	36.14	1.533	0.917	1.838	1.081
0000094	36.14	41.76	1.533	0.917	1.838	1.081
0000094	41.76	43.30	1.533	0.917	1.838	1.081
0000094	43.30	45.94	1.533	0.917	1.838	1.081
0000095	0.00	7.50	1.580	0.889	1.348	0.860
0000095	7.50	16.55	1.580	0.889	1.348	0.860
0000095	16.55	19.45	0.987	0.597	0.911	0.612
0000095	19.45	23.40	0.987	0.597	0.911	0.612
0000095	23.40	24.47	0.987	0.597	0.911	0.612
0000095	24.47	77.40	0.655	0.424	0.849	0.556
0000095	77.40	77.96	0.987	0.597	0.911	0.612
0000095M	0.00	8.77	1.580	0.889	1.348	0.860
0000095W	0.00	11.26	0.787	0.546	0.908	0.606
00000109	0.00	1.11	0.840	0.529	1.375	0.812
00000109	1.11	1.16	0.840	0.529	1.375	0.812
00000109	1.16	1.32	0.840	0.529	1.375	0.812
00000109	1.32	2.31	0.393	0.286	0.706	0.471
00000109	2.31	3.06	0.852	0.574	0.771	0.519
00000120	0.00	1.34	1.028	0.662	0.901	0.597
00000120	1.34	2.65	1.347	0.866	1.910	1.171
00000122	0.00	1.15	1.106	0.664	1.340	0.855
00000122	1.15	2.42	1.106	0.664	1.340	0.855
00000124	0.00	0.78	1.016	0.631	0.588	0.402
00000124	0.78	1.50	1.016	0.631	0.588	0.402
00000124	1.50	4.37	1.533	0.917	1.838	1.081
00000124	4.37	4.47	1.533	0.917	1.838	1.081
00000124	4.47	7.34	1.016	0.631	0.588	0.402
00000124	7.34	8.96	1.016	0.631	0.588	0.402
00000124	8.96	9.83	1.016	0.631	0.588	0.402
00000124	9.83	11.30	1.016	0.631	0.588	0.402
00000124	11.30	11.36	1.016	0.631	0.588	0.402
00000124	11.36	11.54	1.016	0.631	0.588	0.402
00000124	11.54	14.74	1.016	0.631	0.588	0.402

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000129	0.00	2.41	0.905	0.603	0.876	0.580
00000130	0.00	3.00	0.393	0.286	0.706	0.471
00000130	3.00	5.17	0.393	0.286	0.706	0.471
00000130	5.17	5.20	0.393	0.286	0.706	0.471
00000130	5.20	8.80	0.393	0.286	0.706	0.471
00000130	8.80	8.84	0.393	0.286	0.706	0.471
00000130	8.84	12.21	0.393	0.286	0.706	0.471
00000130	12.21	14.29	0.905	0.603	0.876	0.580
00000130	23.61	23.90	0.905	0.603	0.876	0.580
00000130	23.90	25.30	0.905	0.603	0.876	0.580
00000130	25.30	28.20	0.905	0.603	0.876	0.580
00000130	28.20	29.48	0.905	0.603	0.876	0.580
00000130	30.48	53.57	0.905	0.603	0.876	0.580
00000130	53.57	65.44	0.905	0.603	0.876	0.580
00000130	65.44	68.20	0.780	0.493	0.735	0.486
00000130	68.20	68.26	0.780	0.493	0.735	0.486
00000130	68.26	70.00	0.780	0.493	0.735	0.486
00000130	70.00	71.37	0.780	0.493	0.735	0.486
00000130	71.37	72.90	0.780	0.493	0.735	0.486
00000130	72.90	83.46	0.780	0.493	0.735	0.486
00000133	0.00	4.06	0.786	0.562	0.997	0.676
00000138	0.00	3.52	0.818	0.530	1.716	0.963
00000139	0.00	1.45	1.347	0.866	1.910	1.171
00000140	0.00	0.88	0.866	0.613	1.647	1.059
00000140	0.88	0.96	2.653	1.463	1.292	0.843
00000143	0.00	2.35	0.926	0.582	0.783	0.500
00000147	0.00	0.33	0.840	0.529	1.375	0.812
00000147	0.33	0.65	0.852	0.574	0.771	0.519
00000147	0.65	3.24	0.852	0.574	0.771	0.519
00000147	3.24	3.30	0.816	0.517	2.314	1.257
00000147	3.30	4.20	0.852	0.574	0.771	0.519
00000152	0.00	0.17	0.663	0.554	0.556	0.444
00000152	0.17	1.35	0.663	0.554	0.556	0.444
00000152	1.35	1.90	1.492	0.881	1.387	0.869
00000152	1.90	2.17	0.663	0.554	0.556	0.444
00000152	2.17	3.16	0.663	0.554	0.556	0.444
00000154	0.00	1.58	1.314	0.776	1.128	0.674
00000156	0.00	1.28	0.926	0.582	0.783	0.500
00000157	0.00	0.91	0.579	0.407	1.143	0.679
00000159	0.00	0.45	1.016	0.631	0.588	0.402
00000159	0.45	0.80	1.533	0.917	1.838	1.081
00000159	0.80	1.36	1.533	0.917	1.838	1.081
00000161	0.00	1.10	1.533	0.917	1.838	1.081
00000162	0.00	0.70	0.840	0.529	1.375	0.812
00000163	0.00	0.30	0.792	0.462	0.864	0.558
00000165	0.00	0.26	0.866	0.613	1.647	1.059
00000166	0.00	0.47	0.579	0.407	1.143	0.679
00000166	0.47	1.97	0.579	0.407	1.143	0.679
00000166	1.97	2.22	0.880	0.583	0.916	0.574
00000166	2.22	3.86	0.880	0.583	0.916	0.574
00000166Z	0.00	0.11	0.579	0.407	1.143	0.679
00000166Z	0.11	0.19	0.579	0.407	1.143	0.679
00000166Z	0.19	0.44	0.579	0.407	1.143	0.679
00000167	0.00	0.62	0.579	0.407	1.143	0.679
00000167	2.61	2.76	0.579	0.407	1.143	0.679
00000168	0.00	9.72	1.314	0.776	1.128	0.674

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000168	9.72	10.75	1.314	0.776	1.128	0.674
00000171	0.00	1.79	0.978	0.647	1.261	0.815
00000171	1.79	2.09	0.978	0.647	1.261	0.815
00000171	2.09	2.54	0.978	0.647	1.261	0.815
00000171	2.54	2.89	0.978	0.647	1.261	0.815
00000171	2.89	3.10	0.978	0.647	1.261	0.815
00000172	0.00	0.45	0.978	0.647	1.261	0.815
00000172	0.45	0.69	0.978	0.647	1.261	0.815
00000173	0.00	4.00	0.866	0.613	1.647	1.059
00000173	4.00	4.05	0.866	0.613	1.647	1.059
00000173	4.05	8.00	0.866	0.613	1.647	1.059
00000173	8.00	11.00	0.866	0.613	1.647	1.059
00000173	11.00	11.70	0.866	0.613	1.647	1.059
00000173	12.81	14.62	0.866	0.613	1.647	1.059
00000173Z	0.00	0.68	0.926	0.582	0.783	0.500
00000173Z	1.12	1.67	0.866	0.613	1.647	1.059
00000175	0.00	0.27	0.926	0.582	0.783	0.500
00000175	0.27	1.79	0.926	0.582	0.783	0.500
00000175	1.79	1.80	0.978	0.647	1.261	0.815
00000175	1.80	2.15	0.978	0.647	1.261	0.815
00000175	2.15	2.95	0.978	0.647	1.261	0.815
00000179	0.00	0.32	0.866	0.613	1.647	1.059
00000179	0.37	2.15	0.866	0.613	1.647	1.059
00000179	2.15	5.78	0.866	0.613	1.647	1.059
00000179	5.78	6.48	0.866	0.613	1.647	1.059
00000179	6.48	7.46	0.866	0.613	1.647	1.059
00000181	0.00	1.65	0.926	0.582	0.783	0.500
00000181	1.65	5.02	0.926	0.582	0.783	0.500
00000181	5.02	5.43	1.533	0.917	1.838	1.081
00000181	5.43	5.82	1.533	0.917	1.838	1.081
00000181	5.82	7.47	0.926	0.582	0.783	0.500
00000181Z	0.00	0.12	1.533	0.917	1.838	1.081
00000182	0.00	0.96	0.679	0.495	0.932	0.598
00000183	0.00	0.60	0.868	0.577	1.328	0.809
00000183	0.60	2.12	0.868	0.577	1.328	0.809
00000184	0.00	0.35	1.016	0.631	0.588	0.402
00000184	0.35	0.75	1.016	0.631	0.588	0.402
00000184	0.75	1.25	1.016	0.631	0.588	0.402
00000184	1.25	1.37	1.016	0.631	0.588	0.402
00000185	0.00	0.65	1.347	0.866	1.910	1.171
00000187	0.00	0.40	0.663	0.554	0.556	0.444
00000195	0.00	8.38	1.580	0.889	1.348	0.860
00000195	8.38	16.76	0.987	0.597	0.911	0.612
00000195	16.76	34.17	0.987	0.597	0.911	0.612
00000202	0.00	0.63	1.032	0.617	0.995	0.650
00000202	0.63	5.18	1.142	0.684	1.159	0.738
00000202	5.18	24.39	0.620	0.420	0.981	0.634
00000202	24.39	24.48	0.620	0.420	0.981	0.634
00000202	24.48	31.51	0.620	0.420	0.981	0.634
00000202	31.51	32.20	0.866	0.613	1.647	1.059
00000202	32.20	32.54	0.866	0.613	1.647	1.059
00000202	32.54	33.90	1.533	0.917	1.838	1.081
00000202	33.90	37.10	1.533	0.917	1.838	1.081
00000202	37.10	39.10	1.533	0.917	1.838	1.081
00000202	39.10	44.30	1.533	0.917	1.838	1.081
00000202	44.30	44.53	1.533	0.917	1.838	1.081

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000202	44.53	44.60	1.016	0.631	0.588	0.402
00000202	44.60	47.00	1.016	0.631	0.588	0.402
00000202	47.00	51.20	1.016	0.631	0.588	0.402
00000202	51.20	51.53	1.016	0.631	0.588	0.402
00000202	51.53	53.16	1.533	0.917	1.838	1.081
00000202	53.16	53.60	1.533	0.917	1.838	1.081
00000202	53.60	54.20	1.533	0.917	1.838	1.081
00000202	54.20	55.20	1.533	0.917	1.838	1.081
00000202	55.20	56.09	1.533	0.917	1.838	1.081
00000202	56.09	60.40	1.533	0.917	1.838	1.081
00000202	60.40	62.50	1.533	0.917	1.838	1.081
00000202	62.50	62.65	1.533	0.917	1.838	1.081
00000202	62.65	62.95	1.016	0.631	0.588	0.402
00000202	62.95	65.32	1.016	0.631	0.588	0.402
00000202	65.32	67.95	1.016	0.631	0.588	0.402
00000202	67.95	68.80	1.016	0.631	0.588	0.402
00000202	68.80	70.50	1.016	0.631	0.588	0.402
00000202	70.50	80.31	1.016	0.631	0.588	0.402
00000206	0.00	6.28	0.684	0.460	1.480	0.860
00000206	6.28	11.05	1.492	0.881	1.387	0.869
00000206	11.05	26.21	0.765	0.476	1.147	0.742
00000206	26.21	29.54	0.765	0.476	1.147	0.742
00000206	29.54	35.61	0.765	0.476	1.147	0.742
00000206	35.61	38.89	0.765	0.476	1.147	0.742
00000206	38.89	43.22	1.222	0.775	1.307	0.821
00000206	43.22	45.00	1.222	0.775	1.307	0.821
00000206	45.00	48.30	1.222	0.775	1.307	0.821
00000206	48.30	50.21	1.222	0.775	1.307	0.821
00000206	50.21	52.90	1.222	0.775	1.307	0.821
00000206	52.90	53.95	1.222	0.775	1.307	0.821
00000206	53.95	54.82	1.222	0.775	1.307	0.821
00000206	54.82	57.23	1.222	0.775	1.307	0.821
00000206	57.23	63.06	1.222	0.775	1.307	0.821
00000206	63.06	71.64	1.222	0.775	1.307	0.821
00000206	71.64	78.32	1.016	0.631	0.588	0.402
00000206	78.32	82.30	1.016	0.631	0.588	0.402
00000206	82.30	86.24	1.016	0.631	0.588	0.402
00000206	86.24	95.61	0.685	0.436	0.853	0.559
00000206	95.61	102.09	0.685	0.436	0.853	0.559
00000206	102.09	109.25	0.685	0.436	0.853	0.559
00000206	109.25	110.67	0.685	0.436	0.853	0.559
00000206	110.67	111.57	0.685	0.436	0.853	0.559
00000206	111.57	114.14	0.685	0.436	0.853	0.559
00000206	114.14	129.77	0.685	0.436	0.853	0.559
00000206B	0.00	1.66	1.222	0.775	1.307	0.821
00000206Z	42.57	45.36	0.905	0.603	0.876	0.580
00000208	0.00	10.07	1.032	0.617	0.995	0.650
00000278	0.00	2.00	0.702	0.470	1.058	0.698
00000280	0.00	17.85	0.702	0.470	1.058	0.698
00000284	0.00	0.55	1.533	0.917	1.838	1.081
00000284	0.55	2.34	1.533	0.917	1.838	1.081
00000284	2.34	7.03	1.533	0.917	1.838	1.081
00000287	0.00	5.68	0.655	0.424	0.849	0.556
00000287	5.68	6.08	0.655	0.424	0.849	0.556
00000287	6.08	10.24	0.655	0.424	0.849	0.556
00000287	10.24	20.50	1.580	0.889	1.348	0.860
00000287	20.50	21.45	1.255	0.714	0.972	0.653

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000287	21.45	30.17	0.552	0.392	1.121	0.744
00000287	30.17	53.89	0.552	0.392	1.121	0.744
00000287	53.89	57.15	0.552	0.392	1.121	0.744
00000287	57.15	67.54	0.552	0.392	1.121	0.744
00000295	0.00	5.35	0.432	0.320	1.001	0.669
00000295	5.35	8.93	0.432	0.320	1.001	0.669
00000295	8.93	56.10	0.975	0.605	1.053	0.692
00000295	56.10	67.79	0.975	0.605	1.053	0.692
00000322	0.00	2.15	0.816	0.517	2.314	1.257
00000322	2.15	4.75	0.816	0.517	2.314	1.257
00000322	4.75	8.46	0.816	0.517	2.314	1.257
00000322	8.46	10.82	0.816	0.517	2.314	1.257
00000322	10.82	12.12	0.816	0.517	2.314	1.257
00000322	12.12	15.93	0.816	0.517	2.314	1.257
00000322	15.93	17.67	0.816	0.517	2.314	1.257
00000322	17.67	18.08	0.816	0.517	2.314	1.257
00000322	18.08	19.19	0.816	0.517	2.314	1.257
00000322	19.19	22.89	0.816	0.517	2.314	1.257
00000322	22.89	24.19	0.816	0.517	2.314	1.257
00000322	24.19	32.86	0.816	0.517	2.314	1.257
00000322	32.86	34.55	0.684	0.460	1.480	0.860
00000322	34.55	37.08	0.840	0.529	1.375	0.812
00000322	37.08	43.34	0.840	0.529	1.375	0.812
00000322	43.34	50.09	0.840	0.529	1.375	0.812
00000322B	0.00	0.39	0.393	0.286	0.706	0.471
00000322B	0.39	1.53	0.393	0.286	0.706	0.471
00000324	0.00	1.51	0.393	0.286	0.706	0.471
00000347	0.00	4.67	0.852	0.574	0.771	0.519
00000347	4.67	5.33	0.852	0.574	0.771	0.519
00000347	5.33	8.33	0.852	0.574	0.771	0.519
00000413	0.00	0.76	0.956	0.612	1.246	0.769
00000439	0.00	0.68	1.016	0.631	0.588	0.402
00000439	0.68	2.44	1.016	0.631	0.588	0.402
00000439	2.44	3.95	1.016	0.631	0.588	0.402
00000440	0.00	2.77	1.028	0.662	0.901	0.597
00000440	2.77	5.15	1.028	0.662	0.901	0.597
00000440	18.00	21.91	1.347	0.866	1.910	1.171
00000440	21.91	26.18	1.347	0.866	1.910	1.171
00000444	0.00	12.09	1.706	0.945	1.355	0.852
00000444	12.09	17.22	1.706	0.945	1.355	0.852
00000444	17.22	45.94	1.706	0.945	1.355	0.852
00000444	45.94	55.71	1.706	0.945	1.355	0.852
00000444	55.71	126.98	0.818	0.530	1.716	0.963
00000444	126.98	127.85	1.028	0.662	0.901	0.597
00000444	127.85	131.80	1.028	0.662	0.901	0.597
00000444	131.80	132.80	1.028	0.662	0.901	0.597
00000444	132.80	172.40	1.028	0.662	0.901	0.597
00000444S	0.00	0.50	0.818	0.530	1.716	0.963
00000445	0.00	11.06	1.028	0.662	0.901	0.597
00000445S	0.00	0.42	1.028	0.662	0.901	0.597
00000446	0.00	14.02	1.706	0.945	1.355	0.852
00000446	14.02	25.30	1.706	0.945	1.355	0.852
00000446	25.30	29.50	1.706	0.945	1.355	0.852
00000446	29.50	30.90	1.654	0.920	1.394	0.869
00000446	30.90	44.19	1.654	0.920	1.394	0.869
00000446X	0.00	1.98	1.706	0.945	1.355	0.852



**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000495	0.00	2.20	1.028	0.662	0.901	0.597
00000495	2.20	3.45	1.028	0.662	0.901	0.597
00000501	0.00	3.09	1.016	0.631	0.588	0.402
00000501	3.09	3.36	1.016	0.631	0.588	0.402
00000501	3.61	6.23	1.016	0.631	0.588	0.402
00000501	6.23	6.99	1.016	0.631	0.588	0.402
00000501	23.73	27.12	1.533	0.917	1.838	1.081
00000501	27.12	37.21	1.347	0.866	1.910	1.171
00000501	39.62	40.27	1.533	0.917	1.838	1.081
00000501	40.27	40.52	1.533	0.917	1.838	1.081
00000501	42.86	43.86	1.347	0.866	1.910	1.171
00000501	43.86	45.65	1.347	0.866	1.910	1.171
00000501	45.65	45.89	1.347	0.866	1.910	1.171
00000501	45.89	46.06	1.347	0.866	1.910	1.171
00000501	46.06	46.14	1.347	0.866	1.910	1.171
00000501	46.14	46.19	1.347	0.866	1.910	1.171
00000501	46.19	48.95	1.347	0.866	1.910	1.171
00000501	48.95	53.07	1.347	0.866	1.910	1.171
00000502	0.00	2.50	1.533	0.917	1.838	1.081
00000502	2.50	3.42	1.533	0.917	1.838	1.081
00000502	3.42	3.64	1.533	0.917	1.838	1.081
00000502	3.64	6.00	1.533	0.917	1.838	1.081
00000502	6.00	7.23	1.533	0.917	1.838	1.081
00000502	7.23	7.24	1.016	0.631	0.588	0.402
00000502	7.24	9.65	1.347	0.866	1.910	1.171
00000502	9.65	11.29	1.347	0.866	1.910	1.171
00000502	11.29	11.88	1.347	0.866	1.910	1.171
00000502	11.88	13.00	1.347	0.866	1.910	1.171
00000502	13.00	13.71	1.347	0.866	1.910	1.171
00000502	13.71	14.35	1.347	0.866	1.910	1.171
00000502	14.35	16.94	1.347	0.866	1.910	1.171
00000502	16.94	17.44	1.347	0.866	1.910	1.171
00000502	17.44	20.13	1.347	0.866	1.910	1.171
00000502	20.13	21.24	1.347	0.866	1.910	1.171
00000502	21.24	23.79	1.347	0.866	1.910	1.171
00000503	0.00	1.59	1.347	0.866	1.910	1.171
00000503	1.59	2.45	1.347	0.866	1.910	1.171
00000503	2.45	3.60	1.347	0.866	1.910	1.171
00000503	3.60	3.87	1.347	0.866	1.910	1.171
00000503	3.87	3.97	1.347	0.866	1.910	1.171
00000503	3.97	5.40	1.347	0.866	1.910	1.171
00000503	5.40	6.31	1.347	0.866	1.910	1.171
00000503	6.31	7.56	1.347	0.866	1.910	1.171
00000503	7.56	7.71	1.347	0.866	1.910	1.171
00000503	7.71	17.95	1.347	0.866	1.910	1.171
00000504	0.00	4.23	1.533	0.917	1.838	1.081
00000504	4.23	5.33	1.533	0.917	1.838	1.081
00000504	5.33	5.68	1.533	0.917	1.838	1.081
00000510	27.12	28.80	1.347	0.866	1.910	1.171
00000510	28.80	28.99	1.347	0.866	1.910	1.171
00000510	28.99	29.58	1.347	0.866	1.910	1.171
00000510Z	0.00	0.10	1.016	0.631	0.588	0.402
00000510Z	0.10	0.30	1.016	0.631	0.588	0.402
00000510Z	0.30	1.21	1.016	0.631	0.588	0.402
00000511	0.10	2.92	1.533	0.917	1.838	1.081
00000511	2.92	6.30	1.533	0.917	1.838	1.081

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000511	9.39	9.70	1.533	0.917	1.838	1.081
00000511	9.70	10.19	1.533	0.917	1.838	1.081
00000511	10.19	17.11	0.926	0.582	0.783	0.500
00000511	17.11	17.87	1.533	0.917	1.838	1.081
00000511	17.87	17.94	1.533	0.917	1.838	1.081
00000511	17.94	17.99	1.533	0.917	1.838	1.081
00000511	17.99	18.03	1.533	0.917	1.838	1.081
00000511	18.03	18.12	1.533	0.917	1.838	1.081
00000511	18.12	18.84	1.533	0.917	1.838	1.081
00000511	18.84	21.13	1.533	0.917	1.838	1.081
00000511	21.13	25.52	1.016	0.631	0.588	0.402
00000511	25.52	28.26	1.016	0.631	0.588	0.402
00000511	28.26	34.90	1.533	0.917	1.838	1.081
00000511	34.90	37.44	1.533	0.917	1.838	1.081
00000511A	2.38	3.60	1.533	0.917	1.838	1.081
00000511A	3.60	3.96	1.533	0.917	1.838	1.081
00000511A	3.96	4.03	1.533	0.917	1.838	1.081
00000511A	4.03	6.77	1.533	0.917	1.838	1.081
00000511A	6.96	7.93	1.533	0.917	1.838	1.081
00000511A	7.93	8.47	1.016	0.631	0.588	0.402
00000511A	8.47	9.77	1.016	0.631	0.588	0.402
00000512	0.00	0.58	0.926	0.582	0.783	0.500
00000512	0.58	3.42	0.926	0.582	0.783	0.500
00000512	3.42	5.75	0.926	0.582	0.783	0.500
00000512	5.75	7.64	0.926	0.582	0.783	0.500
00000512	7.64	10.13	0.926	0.582	0.783	0.500
00000512	10.13	10.74	0.926	0.582	0.783	0.500
00000512	10.74	13.17	0.926	0.582	0.783	0.500
00000512	13.17	13.99	0.926	0.582	0.783	0.500
00000512	14.25	17.46	0.926	0.582	0.783	0.500
00000512	17.46	18.08	0.926	0.582	0.783	0.500
00000512	18.08	18.56	0.926	0.582	0.783	0.500
00000512	18.56	25.70	1.533	0.917	1.838	1.081
00000512	25.70	31.08	1.533	0.917	1.838	1.081
00000512	31.08	31.16	1.533	0.917	1.838	1.081
00000512	31.16	32.96	1.533	0.917	1.838	1.081
00000513	0.00	0.05	0.866	0.613	1.647	1.059
00000513	0.05	0.70	0.866	0.613	1.647	1.059
00000513	0.70	7.43	0.866	0.613	1.647	1.059
00000513	7.43	10.37	0.866	0.613	1.647	1.059
00000513	10.37	11.45	0.866	0.613	1.647	1.059
00000513	12.13	12.23	0.926	0.582	0.783	0.500
00000513	12.23	12.98	0.926	0.582	0.783	0.500
00000513	13.64	14.79	0.926	0.582	0.783	0.500
00000513	14.79	14.86	0.926	0.582	0.783	0.500
00000513	14.86	15.05	0.926	0.582	0.783	0.500
00000513	15.05	15.09	0.926	0.582	0.783	0.500
00000513	15.09	15.97	0.926	0.582	0.783	0.500
00000513	15.97	20.07	0.926	0.582	0.783	0.500
00000513	20.07	21.94	0.926	0.582	0.783	0.500
00000513	21.94	25.85	0.926	0.582	0.783	0.500
00000513	25.85	25.86	0.926	0.582	0.783	0.500
00000513	25.86	26.87	0.926	0.582	0.783	0.500
00000513	26.87	28.16	0.926	0.582	0.783	0.500
00000513	28.16	28.40	0.926	0.582	0.783	0.500
00000513	28.40	29.84	0.926	0.582	0.783	0.500

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000513	29.84	30.32	0.926	0.582	0.783	0.500
00000513	30.32	31.32	1.533	0.917	1.838	1.081
00000513	31.32	35.15	1.533	0.917	1.838	1.081
00000513	35.15	39.17	1.533	0.917	1.838	1.081
00000513	39.17	39.53	1.533	0.917	1.838	1.081
00000513	39.53	40.47	1.533	0.917	1.838	1.081
00000513	40.47	41.13	1.533	0.917	1.838	1.081
00000513	41.13	41.29	1.533	0.917	1.838	1.081
00000513	41.29	42.72	1.533	0.917	1.838	1.081
00000513	42.72	43.13	1.533	0.917	1.838	1.081
00000513	43.13	44.52	1.533	0.917	1.838	1.081
00000513	44.52	44.58	1.533	0.917	1.838	1.081
00000513	44.58	44.90	1.533	0.917	1.838	1.081
00000513	44.90	45.00	1.533	0.917	1.838	1.081
00000513	45.00	45.37	1.533	0.917	1.838	1.081
00000513	45.37	57.14	1.533	0.917	1.838	1.081
00000513	57.56	66.83	1.533	0.917	1.838	1.081
00000514	0.00	3.43	0.926	0.582	0.783	0.500
00000514	3.43	5.65	0.926	0.582	0.783	0.500
00000514	5.65	8.94	0.926	0.582	0.783	0.500
00000514	8.94	10.38	0.926	0.582	0.783	0.500
00000514	10.38	21.07	0.978	0.647	1.261	0.815
00000514	21.07	24.35	0.978	0.647	1.261	0.815
00000514	24.35	24.59	1.077	0.662	1.077	0.705
00000514	25.84	32.19	1.016	0.631	0.588	0.402
00000514	32.19	34.58	1.016	0.631	0.588	0.402
00000514	34.58	35.12	0.978	0.647	1.261	0.815
00000514	35.12	38.42	0.978	0.647	1.261	0.815
00000514	38.42	38.79	1.533	0.917	1.838	1.081
00000514	38.79	38.99	1.533	0.917	1.838	1.081
00000514	38.99	42.74	1.533	0.917	1.838	1.081
00000514	42.74	42.86	1.533	0.917	1.838	1.081
00000515	0.00	6.00	1.533	0.917	1.838	1.081
00000515	6.00	8.55	1.533	0.917	1.838	1.081
00000515	10.76	13.06	0.926	0.582	0.783	0.500
00000516	0.00	6.90	0.579	0.407	1.143	0.679
00000516	6.90	8.13	0.579	0.407	1.143	0.679
00000516	8.13	8.78	0.579	0.407	1.143	0.679
00000516	8.78	9.42	0.579	0.407	1.143	0.679
00000516	9.42	10.27	0.579	0.407	1.143	0.679
00000516	10.27	10.65	0.579	0.407	1.143	0.679
00000516	10.65	13.15	0.579	0.407	1.143	0.679
00000516	13.15	13.89	0.579	0.407	1.143	0.679
00000516	14.32	16.04	0.579	0.407	1.143	0.679
00000516	16.04	16.52	0.579	0.407	1.143	0.679
00000516	16.52	19.27	0.579	0.407	1.143	0.679
00000516Z	0.00	0.90	0.579	0.407	1.143	0.679
00000517	0.00	0.45	0.926	0.582	0.783	0.500
00000517	0.45	6.16	0.926	0.582	0.783	0.500
00000517	6.16	10.14	0.926	0.582	0.783	0.500
00000517	10.14	14.45	0.926	0.582	0.783	0.500
00000517	15.85	16.88	0.866	0.613	1.647	1.059
00000517	16.88	20.48	1.533	0.917	1.838	1.081
00000517	20.48	22.36	1.533	0.917	1.838	1.081
00000517	22.36	25.90	1.533	0.917	1.838	1.081
00000517	25.90	26.00	1.533	0.917	1.838	1.081

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000517	26.00	26.85	1.533	0.917	1.838	1.081
00000517	26.85	27.04	1.533	0.917	1.838	1.081
00000517	27.12	27.75	1.533	0.917	1.838	1.081
00000517	27.75	32.71	1.533	0.917	1.838	1.081
00000517	32.71	33.00	1.533	0.917	1.838	1.081
00000517	33.00	35.55	1.533	0.917	1.838	1.081
00000517	35.55	36.91	1.533	0.917	1.838	1.081
00000517	36.91	38.60	1.533	0.917	1.838	1.081
00000517	38.60	39.84	1.533	0.917	1.838	1.081
00000517	42.54	43.13	0.926	0.582	0.783	0.500
00000517	43.13	46.45	0.926	0.582	0.783	0.500
00000517	46.84	50.66	0.926	0.582	0.783	0.500
00000517	50.66	53.43	0.926	0.582	0.783	0.500
00000517	53.43	53.86	0.926	0.582	0.783	0.500
00000518	0.00	0.70	0.926	0.582	0.783	0.500
00000518	0.70	0.92	0.926	0.582	0.783	0.500
00000518	0.92	4.53	0.926	0.582	0.783	0.500
00000518	4.53	7.21	0.926	0.582	0.783	0.500
00000518	7.21	9.09	0.978	0.647	1.261	0.815
00000518	9.09	9.52	0.978	0.647	1.261	0.815
00000518	9.52	10.04	0.978	0.647	1.261	0.815
00000518	10.04	10.48	0.978	0.647	1.261	0.815
00000518	10.48	13.74	0.978	0.647	1.261	0.815
00000518	13.74	16.78	0.978	0.647	1.261	0.815
00000518	16.78	20.58	0.978	0.647	1.261	0.815
00000519	0.00	0.15	0.926	0.582	0.783	0.500
00000519	0.15	8.81	0.926	0.582	0.783	0.500
00000519	8.81	11.78	0.926	0.582	0.783	0.500
00000519	11.78	14.86	0.926	0.582	0.783	0.500
00000519	14.86	16.57	0.926	0.582	0.783	0.500
00000519	16.57	17.43	0.926	0.582	0.783	0.500
00000519	17.43	17.52	0.866	0.613	1.647	1.059
00000519	17.52	18.29	0.866	0.613	1.647	1.059
00000519	18.29	25.35	0.866	0.613	1.647	1.059
00000519	25.35	26.22	0.866	0.613	1.647	1.059
00000519	26.22	27.29	0.866	0.613	1.647	1.059
00000519	27.29	27.36	0.866	0.613	1.647	1.059
00000519	27.59	28.42	0.866	0.613	1.647	1.059
00000519	28.42	32.27	0.866	0.613	1.647	1.059
00000519	32.27	37.90	0.866	0.613	1.647	1.059
00000519	37.90	38.62	0.866	0.613	1.647	1.059
00000519	38.62	42.05	0.866	0.613	1.647	1.059
00000519	42.05	42.11	0.866	0.613	1.647	1.059
00000519	42.11	45.38	0.866	0.613	1.647	1.059
00000519	45.38	48.41	0.866	0.613	1.647	1.059
00000519	48.41	48.52	0.926	0.582	0.783	0.500
00000519	48.52	54.93	0.926	0.582	0.783	0.500
00000519	54.93	56.33	0.926	0.582	0.783	0.500
00000519	56.33	57.00	0.926	0.582	0.783	0.500
00000519	57.00	59.24	0.926	0.582	0.783	0.500
00000519	59.24	63.62	0.926	0.582	0.783	0.500
00000519	63.62	64.42	0.926	0.582	0.783	0.500
00000519	64.94	65.78	0.926	0.582	0.783	0.500
00000519	65.78	65.90	0.926	0.582	0.783	0.500
00000519	65.90	69.30	0.926	0.582	0.783	0.500
00000519	69.30	69.96	0.926	0.582	0.783	0.500

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000519	69.96	71.65	0.926	0.582	0.783	0.500
00000519	71.65	72.00	0.926	0.582	0.783	0.500
00000519	72.00	77.66	0.926	0.582	0.783	0.500
00000519	77.66	83.70	0.926	0.582	0.783	0.500
00000519	85.91	88.54	0.926	0.582	0.783	0.500
00000520	0.00	2.06	0.579	0.407	1.143	0.679
00000520	2.06	10.25	0.579	0.407	1.143	0.679
00000520	10.25	10.99	0.579	0.407	1.143	0.679
00000520	10.99	14.86	0.579	0.407	1.143	0.679
00000520	14.86	16.81	0.880	0.583	0.916	0.574
00000520	16.84	16.94	0.579	0.407	1.143	0.679
00000520	16.94	17.51	0.579	0.407	1.143	0.679
00000520	17.51	17.84	0.579	0.407	1.143	0.679
00000520	17.84	22.39	0.579	0.407	1.143	0.679
00000521	0.00	1.14	0.866	0.613	1.647	1.059
00000521	1.14	6.09	0.926	0.582	0.783	0.500
00000521	6.35	11.26	0.926	0.582	0.783	0.500
00000521	11.26	12.19	0.926	0.582	0.783	0.500
00000521	12.19	16.09	0.926	0.582	0.783	0.500
00000521	16.09	20.67	0.926	0.582	0.783	0.500
00000521	20.67	23.85	0.926	0.582	0.783	0.500
00000521	23.85	24.98	0.926	0.582	0.783	0.500
00000521	24.98	27.06	0.926	0.582	0.783	0.500
00000521	36.71	43.71	0.926	0.582	0.783	0.500
00000522	0.00	2.36	0.978	0.647	1.261	0.815
00000522	2.36	4.00	0.978	0.647	1.261	0.815
00000522	4.39	6.71	0.978	0.647	1.261	0.815
00000522	6.71	8.26	0.978	0.647	1.261	0.815
00000522	8.26	8.91	0.978	0.647	1.261	0.815
00000522	8.91	13.71	0.978	0.647	1.261	0.815
00000522	13.71	14.19	1.166	0.682	1.179	0.768
00000522	14.19	14.37	1.166	0.682	1.179	0.768
00000522	14.37	14.48	1.166	0.682	1.179	0.768
00000522	14.48	18.05	1.166	0.682	1.179	0.768
00000522	18.05	19.06	1.166	0.682	1.179	0.768
00000522	19.06	19.64	1.166	0.682	1.179	0.768
00000523	0.00	0.28	0.926	0.582	0.783	0.500
00000523	0.28	6.39	0.926	0.582	0.783	0.500
00000523	6.39	9.13	0.926	0.582	0.783	0.500
00000523	9.13	9.33	0.866	0.613	1.647	1.059
00000523	9.33	9.75	0.866	0.613	1.647	1.059
00000523	9.75	10.23	0.866	0.613	1.647	1.059
00000523	10.23	10.35	0.866	0.613	1.647	1.059
00000523	10.35	11.72	0.866	0.613	1.647	1.059
00000523	11.72	12.66	0.866	0.613	1.647	1.059
00000523	12.66	13.97	0.866	0.613	1.647	1.059
00000523	13.97	15.67	0.866	0.613	1.647	1.059
00000523	15.67	19.48	0.866	0.613	1.647	1.059
00000523	19.48	20.36	0.866	0.613	1.647	1.059
00000523	20.55	22.42	0.866	0.613	1.647	1.059
00000523	22.42	22.84	0.926	0.582	0.783	0.500
00000523	22.84	23.68	0.926	0.582	0.783	0.500
00000523	23.68	29.16	0.926	0.582	0.783	0.500
00000523	29.16	29.55	0.926	0.582	0.783	0.500
00000524	0.00	1.91	0.905	0.603	0.876	0.580
00000524	1.91	6.21	0.978	0.647	1.261	0.815

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000524	6.21	6.81	0.978	0.647	1.261	0.815
00000524	6.81	7.04	0.926	0.582	0.783	0.500
00000524	7.04	7.26	0.926	0.582	0.783	0.500
00000524	7.26	7.91	0.926	0.582	0.783	0.500
00000524	7.91	14.74	0.926	0.582	0.783	0.500
00000524	14.74	14.81	0.926	0.582	0.783	0.500
00000524	14.81	15.84	0.926	0.582	0.783	0.500
00000524	15.84	18.10	0.926	0.582	0.783	0.500
00000524	18.10	20.00	0.926	0.582	0.783	0.500
00000524	20.00	20.41	1.166	0.682	1.179	0.768
00000524	20.41	21.23	1.166	0.682	1.179	0.768
00000524	21.23	25.52	1.166	0.682	1.179	0.768
00000524	25.52	29.79	0.926	0.582	0.783	0.500
00000524	29.79	30.53	0.926	0.582	0.783	0.500
00000524	30.53	32.04	0.926	0.582	0.783	0.500
00000524	32.04	33.05	0.926	0.582	0.783	0.500
00000524	33.05	35.03	0.926	0.582	0.783	0.500
00000524	35.03	35.90	0.926	0.582	0.783	0.500
00000524	35.90	36.08	0.579	0.407	1.143	0.679
00000524	36.08	36.29	0.926	0.582	0.783	0.500
00000524	36.29	36.63	0.926	0.582	0.783	0.500
00000524	36.63	39.90	0.579	0.407	1.143	0.679
00000524A	0.00	3.74	0.926	0.582	0.783	0.500
00000524S	0.00	3.39	0.579	0.407	1.143	0.679
00000525	0.00	1.03	0.926	0.582	0.783	0.500
00000525	1.03	2.72	0.926	0.582	0.783	0.500
00000525	2.72	2.99	0.978	0.647	1.261	0.815
00000525	2.99	3.81	0.978	0.647	1.261	0.815
00000525	3.81	4.15	1.533	0.917	1.838	1.081
00000525	4.15	4.98	1.533	0.917	1.838	1.081
00000525	4.98	7.22	1.533	0.917	1.838	1.081
00000525	7.22	11.56	1.533	0.917	1.838	1.081
00000525	11.56	12.41	1.533	0.917	1.838	1.081
00000525	12.41	15.15	1.533	0.917	1.838	1.081
00000525	15.15	15.61	1.533	0.917	1.838	1.081
00000525	15.61	16.88	1.533	0.917	1.838	1.081
00000526	0.00	0.68	0.978	0.647	1.261	0.815
00000526	0.68	1.03	0.978	0.647	1.261	0.815
00000526	1.03	3.04	0.978	0.647	1.261	0.815
00000526	3.04	3.42	0.978	0.647	1.261	0.815
00000526	3.42	3.64	0.978	0.647	1.261	0.815
00000526	3.64	6.58	0.978	0.647	1.261	0.815
00000526	6.58	6.88	0.978	0.647	1.261	0.815
00000526	7.02	7.37	0.978	0.647	1.261	0.815
00000526	7.37	10.19	0.978	0.647	1.261	0.815
00000526	10.19	10.50	0.978	0.647	1.261	0.815
00000526	10.52	11.40	0.926	0.582	0.783	0.500
00000526	11.40	17.47	0.926	0.582	0.783	0.500
00000526	17.47	18.62	0.926	0.582	0.783	0.500
00000526	18.62	19.61	0.926	0.582	0.783	0.500
00000526	19.61	20.07	0.926	0.582	0.783	0.500
00000526	20.07	20.08	0.926	0.582	0.783	0.500
00000526	20.08	20.42	1.166	0.682	1.179	0.768
00000526	20.42	24.94	1.166	0.682	1.179	0.768
00000526	24.94	25.27	1.166	0.682	1.179	0.768
00000526	25.27	25.37	1.166	0.682	1.179	0.768

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000526	25.37	26.96	1.166	0.682	1.179	0.768
00000526	26.96	27.74	1.166	0.682	1.179	0.768
00000526	27.74	31.73	0.579	0.407	1.143	0.679
00000526	31.73	34.56	0.880	0.583	0.916	0.574
00000526	34.56	35.56	0.880	0.583	0.916	0.574
00000526A	0.00	0.44	0.926	0.582	0.783	0.500
00000527	0.11	0.85	0.579	0.407	1.143	0.679
00000527	0.85	1.97	0.579	0.407	1.143	0.679
00000527	1.97	3.76	0.926	0.582	0.783	0.500
00000527	3.76	4.10	0.926	0.582	0.783	0.500
00000527	4.10	11.71	0.579	0.407	1.143	0.679
00000527	11.71	15.49	1.166	0.682	1.179	0.768
00000527	15.49	18.47	1.166	0.682	1.179	0.768
00000527	18.47	19.59	0.926	0.582	0.783	0.500
00000527	19.59	21.59	0.926	0.582	0.783	0.500
00000527	21.59	22.43	0.926	0.582	0.783	0.500
00000527	22.43	23.03	0.926	0.582	0.783	0.500
00000527	23.03	24.38	0.926	0.582	0.783	0.500
00000527	24.38	26.61	0.926	0.582	0.783	0.500
00000527	26.61	27.02	1.166	0.682	1.179	0.768
00000527	27.02	28.09	1.166	0.682	1.179	0.768
00000527	28.09	29.28	1.166	0.682	1.179	0.768
00000527	29.28	29.40	1.166	0.682	1.179	0.768
00000527	29.40	29.61	1.166	0.682	1.179	0.768
00000527	29.61	29.84	1.166	0.682	1.179	0.768
00000527	29.84	29.97	1.166	0.682	1.179	0.768
00000527	30.08	30.57	1.166	0.682	1.179	0.768
00000527	30.57	33.61	1.166	0.682	1.179	0.768
00000527	33.61	35.90	0.579	0.407	1.143	0.679
00000527	35.90	37.86	0.579	0.407	1.143	0.679
00000527	38.68	42.92	0.978	0.647	1.261	0.815
00000527	46.04	46.53	0.978	0.647	1.261	0.815
00000527	47.08	51.58	1.077	0.662	1.077	0.705
00000527	51.58	52.49	0.978	0.647	1.261	0.815
00000527	52.49	53.36	0.978	0.647	1.261	0.815
00000527	53.36	53.59	0.978	0.647	1.261	0.815
00000527	53.59	55.91	0.978	0.647	1.261	0.815
00000527	55.91	57.10	0.978	0.647	1.261	0.815
00000527	57.10	57.72	0.978	0.647	1.261	0.815
00000527	57.72	58.20	1.533	0.917	1.838	1.081
00000527	58.20	61.05	1.533	0.917	1.838	1.081
00000527	61.05	64.46	1.533	0.917	1.838	1.081
00000527	64.46	68.64	1.533	0.917	1.838	1.081
00000527	68.64	69.30	1.533	0.917	1.838	1.081
00000527	69.30	70.08	1.533	0.917	1.838	1.081
00000527	70.10	71.19	1.016	0.631	0.588	0.402
00000527	71.19	71.33	1.533	0.917	1.838	1.081
00000527	71.33	74.38	1.533	0.917	1.838	1.081
00000527	74.38	75.54	1.533	0.917	1.838	1.081
00000527	75.54	76.48	0.926	0.582	0.783	0.500
00000527	76.48	76.90	1.016	0.631	0.588	0.402
00000527	76.90	78.17	1.016	0.631	0.588	0.402
00000527	78.17	79.02	1.533	0.917	1.838	1.081
00000527	79.02	79.05	1.533	0.917	1.838	1.081
00000527	79.05	79.18	1.533	0.917	1.838	1.081
00000527	79.18	80.79	1.533	0.917	1.838	1.081

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000527__	81.41	84.80	1.533	0.917	1.838	1.081
00000527__	84.80	84.86	1.533	0.917	1.838	1.081
00000527_S	23.92	24.13	1.533	0.917	1.838	1.081
00000527_S	33.05	33.90	0.978	0.647	1.261	0.815
00000527A__	0.00	2.87	0.926	0.582	0.783	0.500
00000527A__	2.87	2.89	0.926	0.582	0.783	0.500
00000527A__	2.89	5.88	0.926	0.582	0.783	0.500
00000527Z__	0.00	0.26	1.016	0.631	0.588	0.402
00000527Z__	0.26	0.30	1.016	0.631	0.588	0.402
00000528__	0.00	2.95	0.926	0.582	0.783	0.500
00000528__	2.95	5.74	0.926	0.582	0.783	0.500
00000528__	5.74	8.87	0.926	0.582	0.783	0.500
00000528__	8.87	9.30	0.926	0.582	0.783	0.500
00000528__	9.30	11.59	0.926	0.582	0.783	0.500
00000528__	11.59	12.02	0.926	0.582	0.783	0.500
00000528__	12.02	16.06	0.926	0.582	0.783	0.500
00000528__	16.06	17.29	0.926	0.582	0.783	0.500
00000528__	17.29	18.18	0.926	0.582	0.783	0.500
00000528__	18.18	19.92	0.926	0.582	0.783	0.500
00000528__	19.92	22.46	1.166	0.682	1.179	0.768
00000528__	26.20	27.96	1.166	0.682	1.179	0.768
00000528__	27.96	29.09	0.579	0.407	1.143	0.679
00000528__	29.09	30.25	0.579	0.407	1.143	0.679
00000528__	30.25	30.39	0.880	0.583	0.916	0.574
00000528__	30.39	34.94	0.880	0.583	0.916	0.574
00000528__	34.94	35.78	0.579	0.407	1.143	0.679
00000528__	35.78	39.64	0.579	0.407	1.143	0.679
00000528__	39.64	39.89	1.166	0.682	1.179	0.768
00000529__	0.00	0.25	0.978	0.647	1.261	0.815
00000529__	0.25	3.59	1.016	0.631	0.588	0.402
00000529__	3.59	5.31	1.016	0.631	0.588	0.402
00000529__	5.31	7.16	1.016	0.631	0.588	0.402
00000529__	7.16	7.53	1.016	0.631	0.588	0.402
00000529__	7.53	7.54	0.978	0.647	1.261	0.815
00000529__	7.54	8.41	0.978	0.647	1.261	0.815
00000529__	8.41	8.58	0.978	0.647	1.261	0.815
00000529__	8.58	9.44	0.926	0.582	0.783	0.500
00000529__	9.44	10.07	0.926	0.582	0.783	0.500
00000529__	10.07	10.57	0.926	0.582	0.783	0.500
00000530__	0.00	1.31	0.956	0.612	1.246	0.769
00000530__	1.31	2.68	0.956	0.612	1.246	0.769
00000530__	2.68	4.85	0.956	0.612	1.246	0.769
00000530__	4.85	8.48	0.956	0.612	1.246	0.769
00000530__	8.48	8.78	0.956	0.612	1.246	0.769
00000530__	8.78	14.28	0.956	0.612	1.246	0.769
00000530__	19.41	19.90	1.166	0.682	1.179	0.768
00000530__	19.90	27.29	0.579	0.407	1.143	0.679
00000530__	27.29	30.67	0.579	0.407	1.143	0.679
00000530__	30.67	31.21	0.579	0.407	1.143	0.679
00000531__	0.00	2.49	0.978	0.647	1.261	0.815
00000531__	2.49	3.43	0.978	0.647	1.261	0.815
00000531__	3.43	8.65	0.978	0.647	1.261	0.815
00000531__	8.65	8.82	1.533	0.917	1.838	1.081
00000531__	8.82	8.91	1.533	0.917	1.838	1.081
00000531__	8.91	10.82	1.533	0.917	1.838	1.081
00000531__	10.90	13.59	1.533	0.917	1.838	1.081



**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000531	13.59	13.61	1.533	0.917	1.838	1.081
00000531Z	0.00	1.19	1.533	0.917	1.838	1.081
00000532	0.00	2.83	1.166	0.682	1.179	0.768
00000532	2.83	4.05	1.166	0.682	1.179	0.768
00000532	4.05	5.35	0.926	0.582	0.783	0.500
00000532	5.35	7.20	0.926	0.582	0.783	0.500
00000532	7.20	19.43	0.926	0.582	0.783	0.500
00000532	27.09	32.97	0.926	0.582	0.783	0.500
00000532	32.97	33.04	0.926	0.582	0.783	0.500
00000532	33.04	33.91	0.579	0.407	1.143	0.679
00000532	33.91	35.19	0.579	0.407	1.143	0.679
00000533	0.00	1.41	0.978	0.647	1.261	0.815
00000533	1.41	3.51	0.978	0.647	1.261	0.815
00000533	3.51	8.41	0.978	0.647	1.261	0.815
00000533	8.41	8.65	0.926	0.582	0.783	0.500
00000533	8.65	10.42	0.926	0.582	0.783	0.500
00000533	10.42	10.88	0.926	0.582	0.783	0.500
00000533	17.33	17.47	0.926	0.582	0.783	0.500
00000533	17.47	22.61	0.926	0.582	0.783	0.500
00000533	22.61	25.14	0.926	0.582	0.783	0.500
00000533	25.14	25.52	0.926	0.582	0.783	0.500
00000533	25.52	26.41	0.978	0.647	1.261	0.815
00000533	26.41	27.39	0.978	0.647	1.261	0.815
00000533	27.39	28.72	0.978	0.647	1.261	0.815
00000533	28.72	29.69	0.978	0.647	1.261	0.815
00000533	29.69	29.89	0.978	0.647	1.261	0.815
00000533	29.89	31.49	0.978	0.647	1.261	0.815
00000533	31.49	32.06	0.978	0.647	1.261	0.815
00000533	32.06	32.14	0.978	0.647	1.261	0.815
00000533	32.14	32.36	0.978	0.647	1.261	0.815
00000533S	0.00	0.45	0.978	0.647	1.261	0.815
00000533Z	0.00	0.14	0.926	0.582	0.783	0.500
00000534	0.00	0.40	1.314	0.776	1.128	0.674
00000534	0.40	0.58	0.393	0.286	0.706	0.471
00000534	0.58	3.29	2.653	1.463	1.292	0.843
00000534	3.29	3.41	0.393	0.286	0.706	0.471
00000534	3.41	3.83	0.393	0.286	0.706	0.471
00000534	3.83	4.54	1.314	0.776	1.128	0.674
00000534	4.54	7.42	1.314	0.776	1.128	0.674
00000534	7.42	7.92	1.314	0.776	1.128	0.674
00000534	7.92	10.86	1.166	0.682	1.179	0.768
00000534	11.64	16.57	1.166	0.682	1.179	0.768
00000534	16.57	18.67	0.926	0.582	0.783	0.500
00000534	18.67	20.29	0.926	0.582	0.783	0.500
00000534	20.29	22.21	0.926	0.582	0.783	0.500
00000535	0.00	2.02	0.978	0.647	1.261	0.815
00000535	2.02	3.33	0.978	0.647	1.261	0.815
00000535	3.33	3.46	0.978	0.647	1.261	0.815
00000535	3.46	6.43	0.978	0.647	1.261	0.815
00000535	6.43	7.43	0.978	0.647	1.261	0.815
00000535	7.62	13.57	0.978	0.647	1.261	0.815
00000535	13.57	13.76	0.926	0.582	0.783	0.500
00000535	13.76	13.83	0.926	0.582	0.783	0.500
00000535	13.83	14.17	0.926	0.582	0.783	0.500
00000535	14.17	14.56	0.926	0.582	0.783	0.500
00000535	14.56	14.75	0.978	0.647	1.261	0.815

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000535	14.75	14.80	0.978	0.647	1.261	0.815
00000535	14.80	14.87	0.978	0.647	1.261	0.815
00000535	14.96	15.79	0.780	0.493	0.735	0.486
00000535	15.79	17.43	0.780	0.493	0.735	0.486
00000535	17.43	20.53	0.780	0.493	0.735	0.486
00000535	20.53	25.84	1.077	0.662	1.077	0.705
00000535	25.84	26.49	0.978	0.647	1.261	0.815
00000535	26.49	27.90	0.978	0.647	1.261	0.815
00000535	27.90	31.75	0.579	0.407	1.143	0.679
00000536	24.24	24.38	0.393	0.286	0.706	0.471
00000536	24.38	24.77	0.393	0.286	0.706	0.471
00000536	24.77	27.73	1.166	0.682	1.179	0.768
00000536	27.73	30.18	1.166	0.682	1.179	0.768
00000536	30.18	32.47	0.926	0.582	0.783	0.500
00000536	32.55	33.08	1.166	0.682	1.179	0.768
00000536	33.08	34.38	0.926	0.582	0.783	0.500
00000536	34.38	37.66	0.926	0.582	0.783	0.500
00000536	37.66	38.52	0.926	0.582	0.783	0.500
00000536S	0.00	1.54	0.816	0.517	2.314	1.257
00000536S	1.54	1.67	1.166	0.682	1.179	0.768
00000536S	1.67	5.96	1.166	0.682	1.179	0.768
00000536S	5.96	7.31	1.166	0.682	1.179	0.768
00000536S	7.31	7.57	1.166	0.682	1.179	0.768
00000537	0.00	0.17	2.653	1.463	1.292	0.843
00000537	0.17	0.52	0.393	0.286	0.706	0.471
00000537	0.52	0.64	1.314	0.776	1.128	0.674
00000537	0.64	3.66	0.978	0.647	1.261	0.815
00000537	3.66	4.10	0.978	0.647	1.261	0.815
00000537	4.10	4.53	0.978	0.647	1.261	0.815
00000537	4.53	5.11	0.978	0.647	1.261	0.815
00000537	5.11	6.64	0.978	0.647	1.261	0.815
00000537	6.64	7.04	0.978	0.647	1.261	0.815
00000537	7.04	7.87	0.978	0.647	1.261	0.815
00000537	7.87	9.39	0.978	0.647	1.261	0.815
00000537	9.39	10.90	0.978	0.647	1.261	0.815
00000537	10.90	11.37	0.978	0.647	1.261	0.815
00000537	11.37	12.15	0.978	0.647	1.261	0.815
00000537	12.15	12.36	0.978	0.647	1.261	0.815
00000537	12.36	18.11	0.978	0.647	1.261	0.815
00000537	18.11	18.81	0.978	0.647	1.261	0.815
00000537	18.81	19.50	0.978	0.647	1.261	0.815
00000537	19.50	19.94	0.978	0.647	1.261	0.815
00000537	19.94	21.61	0.978	0.647	1.261	0.815
00000537	21.61	27.34	1.166	0.682	1.179	0.768
00000537	27.34	28.52	1.166	0.682	1.179	0.768
00000537	28.52	29.44	1.166	0.682	1.179	0.768
00000537	29.44	31.31	1.166	0.682	1.179	0.768
00000537	31.31	38.44	1.166	0.682	1.179	0.768
00000537	38.44	41.67	1.166	0.682	1.179	0.768
00000537	41.67	44.26	1.166	0.682	1.179	0.768
00000537	44.26	46.31	1.166	0.682	1.179	0.768
00000537	47.54	48.16	1.166	0.682	1.179	0.768
00000537	48.16	50.81	1.166	0.682	1.179	0.768
00000537	50.81	52.20	1.142	0.715	1.149	0.727
00000537	52.38	52.87	1.142	0.715	1.149	0.727
00000537	52.87	55.24	1.142	0.715	1.149	0.727

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5                      D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5                      SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000537	55.24	61.78	1.166	0.682	1.179	0.768
00000537	61.78	64.50	0.579	0.407	1.143	0.679
00000537	66.06	67.11	0.579	0.407	1.143	0.679
00000537	67.11	67.91	0.579	0.407	1.143	0.679
00000537S	0.00	0.35	0.393	0.286	0.706	0.471
00000537S	0.35	1.08	0.393	0.286	0.706	0.471
00000538	0.00	1.04	2.653	1.463	1.292	0.843
00000538	1.04	3.61	2.653	1.463	1.292	0.843
00000538	3.61	7.27	2.653	1.463	1.292	0.843
00000538	7.27	8.05	2.653	1.463	1.292	0.843
00000538	8.05	12.41	2.653	1.463	1.292	0.843
00000538	12.41	13.39	2.653	1.463	1.292	0.843
00000538	13.39	15.49	2.653	1.463	1.292	0.843
00000538	15.49	15.52	0.840	0.529	1.375	0.812
00000538	15.52	16.27	0.840	0.529	1.375	0.812
00000538	16.27	24.10	2.653	1.463	1.292	0.843
00000539	0.00	3.57	0.926	0.582	0.783	0.500
00000539	3.57	13.78	0.926	0.582	0.783	0.500
00000539	13.78	20.85	0.926	0.582	0.783	0.500
00000539	20.85	25.10	0.926	0.582	0.783	0.500
00000539	25.36	33.71	0.926	0.582	0.783	0.500
00000539	33.71	35.16	0.926	0.582	0.783	0.500
00000539	35.16	37.17	0.926	0.582	0.783	0.500
00000539	37.17	37.71	0.926	0.582	0.783	0.500
00000539	37.71	43.83	0.926	0.582	0.783	0.500
00000539	43.83	44.10	0.926	0.582	0.783	0.500
00000539	45.50	49.42	0.926	0.582	0.783	0.500
00000539	49.42	51.55	0.926	0.582	0.783	0.500
00000539	51.55	51.92	0.978	0.647	1.261	0.815
00000539	52.08	52.16	0.926	0.582	0.783	0.500
00000539	52.16	53.19	0.926	0.582	0.783	0.500
00000539	53.19	53.53	0.926	0.582	0.783	0.500
00000540	0.92	1.53	2.653	1.463	1.292	0.843
00000540	1.53	5.63	2.653	1.463	1.292	0.843
00000540	5.63	6.90	2.653	1.463	1.292	0.843
00000540	6.90	7.41	2.653	1.463	1.292	0.843
00000540	7.41	7.54	2.653	1.463	1.292	0.843
00000540	8.70	8.79	2.653	1.463	1.292	0.843
00000540	8.79	12.47	2.653	1.463	1.292	0.843
00000540	12.47	13.07	2.653	1.463	1.292	0.843
00000540	13.07	13.39	2.653	1.463	1.292	0.843
00000540	13.39	17.17	2.653	1.463	1.292	0.843
00000540	17.17	24.83	2.653	1.463	1.292	0.843
00000540	24.83	25.12	2.653	1.463	1.292	0.843
00000540	25.12	25.89	2.653	1.463	1.292	0.843
00000540	25.89	26.56	2.653	1.463	1.292	0.843
00000540	26.56	29.53	2.653	1.463	1.292	0.843
00000540	29.53	30.29	2.653	1.463	1.292	0.843
00000540	30.29	33.09	2.653	1.463	1.292	0.843
00000540	33.09	33.19	2.653	1.463	1.292	0.843
00000540	33.19	33.74	2.653	1.463	1.292	0.843
00000540	33.74	35.72	2.653	1.463	1.292	0.843
00000540	35.72	36.10	0.840	0.529	1.375	0.812
00000540	36.10	39.38	0.840	0.529	1.375	0.812
00000540	39.38	40.30	0.840	0.529	1.375	0.812
00000540	40.30	42.44	2.653	1.463	1.292	0.843

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000540	42.44	43.16	2.653	1.463	1.292	0.843
00000541	0.00	1.79	1.166	0.682	1.179	0.768
00000541	1.79	9.67	1.166	0.682	1.179	0.768
00000541	9.67	10.27	1.166	0.682	1.179	0.768
00000541	10.27	10.62	1.166	0.682	1.179	0.768
00000541	10.62	15.58	1.166	0.682	1.179	0.768
00000541	15.58	16.34	0.978	0.647	1.261	0.815
00000541	16.34	18.35	0.956	0.612	1.246	0.769
00000541	18.35	20.72	0.956	0.612	1.246	0.769
00000541	20.72	23.11	0.956	0.612	1.246	0.769
00000541	23.11	23.84	0.956	0.612	1.246	0.769
00000541T	0.00	1.49	0.978	0.647	1.261	0.815
00000542	0.00	0.16	0.840	0.529	1.375	0.812
00000542	0.16	1.68	0.840	0.529	1.375	0.812
00000542	1.76	4.08	0.926	0.582	0.783	0.500
00000542	4.08	20.57	0.926	0.582	0.783	0.500
00000543	0.00	5.41	0.978	0.647	1.261	0.815
00000543	5.41	5.58	0.557	0.389	0.947	0.624
00000543	5.58	5.77	0.557	0.389	0.947	0.624
00000543	5.77	7.29	0.557	0.389	0.947	0.624
00000543	7.29	10.27	0.557	0.389	0.947	0.624
00000543	10.27	10.46	0.557	0.389	0.947	0.624
00000543	10.46	10.83	0.557	0.389	0.947	0.624
00000543	10.83	12.83	0.557	0.389	0.947	0.624
00000543	12.83	14.72	0.557	0.389	0.947	0.624
00000543	14.72	16.03	0.557	0.389	0.947	0.624
00000543	17.95	19.11	0.978	0.647	1.261	0.815
00000543	19.11	22.74	0.926	0.582	0.783	0.500
00000543	22.74	24.39	0.926	0.582	0.783	0.500
00000543	24.39	24.48	0.926	0.582	0.783	0.500
00000543	24.48	24.87	0.926	0.582	0.783	0.500
00000543	24.87	27.60	0.926	0.582	0.783	0.500
00000543	27.60	28.19	0.926	0.582	0.783	0.500
00000543	28.19	28.77	0.926	0.582	0.783	0.500
00000544	0.00	1.84	1.314	0.776	1.128	0.674
00000544	2.16	4.46	1.314	0.776	1.128	0.674
00000544	4.46	4.83	1.314	0.776	1.128	0.674
00000544	4.83	11.12	0.557	0.389	0.947	0.624
00000544	11.12	11.31	0.978	0.647	1.261	0.815
00000544	11.31	13.75	1.166	0.682	1.179	0.768
00000544	13.75	14.94	1.166	0.682	1.179	0.768
00000545	0.00	1.53	1.166	0.682	1.179	0.768
00000545	1.53	4.46	1.166	0.682	1.179	0.768
00000545	4.46	4.83	1.166	0.682	1.179	0.768
00000545	4.83	5.39	1.166	0.682	1.179	0.768
00000545	5.39	6.94	1.166	0.682	1.179	0.768
00000545	6.94	8.89	0.926	0.582	0.783	0.500
00000545	8.89	9.15	0.926	0.582	0.783	0.500
00000545	9.15	12.54	0.926	0.582	0.783	0.500
00000545	12.54	13.73	0.926	0.582	0.783	0.500
00000545	13.73	14.76	0.926	0.582	0.783	0.500
00000546	0.00	5.26	0.978	0.647	1.261	0.815
00000546	5.26	8.38	0.978	0.647	1.261	0.815
00000546	8.38	9.98	0.978	0.647	1.261	0.815
00000547	0.00	1.90	1.166	0.682	1.179	0.768
00000547	1.90	5.54	1.166	0.682	1.179	0.768

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000547	9.28	9.61	0.579	0.407	1.143	0.679
00000547	9.61	9.63	0.579	0.407	1.143	0.679
00000547	9.63	10.18	0.579	0.407	1.143	0.679
00000547	10.18	14.67	0.926	0.582	0.783	0.500
00000547	14.67	15.05	0.579	0.407	1.143	0.679
00000547	15.05	15.33	0.926	0.582	0.783	0.500
00000547	17.60	20.44	0.926	0.582	0.783	0.500
00000547	20.79	25.98	0.579	0.407	1.143	0.679
00000547	25.98	28.29	0.579	0.407	1.143	0.679
00000548	0.00	9.18	2.653	1.463	1.292	0.843
00000549	0.00	0.25	0.579	0.407	1.143	0.679
00000549	0.25	1.19	0.579	0.407	1.143	0.679
00000549	1.19	5.96	0.880	0.583	0.916	0.574
00000549	5.96	8.69	0.880	0.583	0.916	0.574
00000549	8.69	11.45	0.880	0.583	0.916	0.574
00000549	11.45	12.09	0.880	0.583	0.916	0.574
00000549	12.09	12.35	0.880	0.583	0.916	0.574
00000549	12.35	13.01	0.579	0.407	1.143	0.679
00000549	13.01	14.37	0.579	0.407	1.143	0.679
00000549	14.37	17.82	0.579	0.407	1.143	0.679
00000549S1	0.00	3.97	0.579	0.407	1.143	0.679
00000549S1B100140	0.00	0.03	0.579	0.407	1.143	0.679
00000549S2	1.45	4.09	0.880	0.583	0.916	0.574
00000550	0.00	2.14	2.653	1.463	1.292	0.843
00000550	2.14	4.37	2.653	1.463	1.292	0.843
00000550	4.37	5.37	2.653	1.463	1.292	0.843
00000550	5.37	6.23	2.653	1.463	1.292	0.843
00000550	6.23	8.87	2.653	1.463	1.292	0.843
00000550	8.87	9.03	2.653	1.463	1.292	0.843
00000550	9.03	9.31	2.653	1.463	1.292	0.843
00000550	9.31	10.95	2.653	1.463	1.292	0.843
00000550	10.95	13.63	2.653	1.463	1.292	0.843
00000550	13.63	14.44	2.653	1.463	1.292	0.843
00000550	14.44	15.92	2.653	1.463	1.292	0.843
00000550S	0.00	1.43	2.653	1.463	1.292	0.843
00000550S	1.43	2.48	2.653	1.463	1.292	0.843
00000550S	2.60	4.84	2.653	1.463	1.292	0.843
00000551	0.00	4.66	0.393	0.286	0.706	0.471
00000551	5.12	7.83	0.393	0.286	0.706	0.471
00000551	7.83	11.52	2.653	1.463	1.292	0.843
00000551	11.52	11.76	2.653	1.463	1.292	0.843
00000551	11.76	12.42	2.653	1.463	1.292	0.843
00000551	12.42	15.70	2.653	1.463	1.292	0.843
00000551	15.70	17.01	2.653	1.463	1.292	0.843
00000551	17.01	23.84	0.393	0.286	0.706	0.471
00000551	23.84	24.11	0.393	0.286	0.706	0.471
00000551	24.11	25.50	0.393	0.286	0.706	0.471
00000551	25.50	25.90	0.393	0.286	0.706	0.471
00000551	27.34	27.36	0.393	0.286	0.706	0.471
00000551	27.36	29.08	0.393	0.286	0.706	0.471
00000551	29.46	30.56	0.393	0.286	0.706	0.471
00000551	30.56	32.18	0.393	0.286	0.706	0.471
00000551	32.18	34.57	1.314	0.776	1.128	0.674
00000551S	0.00	1.34	0.393	0.286	0.706	0.471
00000551S	1.34	1.88	0.393	0.286	0.706	0.471
00000551S	1.88	3.35	0.393	0.286	0.706	0.471

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)

P = 2.5

D = 228mm (9.0")

Flexible Pavement (f)

P = 2.5

SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000551S	3.35	4.27	0.978	0.647	1.261	0.815
00000552	0.00	3.54	0.393	0.286	0.706	0.471
00000552	3.54	10.71	0.393	0.286	0.706	0.471
00000552	10.71	15.28	0.840	0.529	1.375	0.812
00000552	15.28	18.14	0.840	0.529	1.375	0.812
00000552	18.14	18.84	2.653	1.463	1.292	0.843
00000552	18.84	22.05	2.653	1.463	1.292	0.843
00000552	22.05	27.27	2.653	1.463	1.292	0.843
00000552	27.27	27.48	0.926	0.582	0.783	0.500
00000552S	0.00	1.41	0.840	0.529	1.375	0.812
00000552S	1.41	2.26	0.840	0.529	1.375	0.812
00000552S	2.26	3.41	0.840	0.529	1.375	0.812
00000553	0.00	0.14	0.840	0.529	1.375	0.812
00000553	0.14	12.54	0.840	0.529	1.375	0.812
00000553	12.54	14.16	0.840	0.529	1.375	0.812
00000553	14.16	18.73	0.840	0.529	1.375	0.812
00000553	18.73	22.97	0.393	0.286	0.706	0.471
00000553	22.97	23.78	0.393	0.286	0.706	0.471
00000553	23.78	25.97	0.393	0.286	0.706	0.471
00000553	25.97	26.96	2.653	1.463	1.292	0.843
00000553	26.96	27.44	2.653	1.463	1.292	0.843
00000553	27.56	29.29	2.653	1.463	1.292	0.843
00000553	29.29	31.06	2.653	1.463	1.292	0.843
00000553	31.06	31.96	2.653	1.463	1.292	0.843
00000553	31.96	33.63	2.653	1.463	1.292	0.843
00000553	33.63	36.16	2.653	1.463	1.292	0.843
00000553	36.16	36.64	2.653	1.463	1.292	0.843
00000553	36.64	39.81	0.393	0.286	0.706	0.471
00000553	39.81	40.23	0.393	0.286	0.706	0.471
00000553	40.23	41.41	0.393	0.286	0.706	0.471
00000553	41.41	41.59	0.393	0.286	0.706	0.471
00000553	41.89	42.19	1.314	0.776	1.128	0.674
00000553	42.19	42.82	1.314	0.776	1.128	0.674
00000553	42.82	43.09	1.314	0.776	1.128	0.674
00000553	43.09	44.25	1.314	0.776	1.128	0.674
00000553	44.25	45.01	0.393	0.286	0.706	0.471
00000553	45.01	48.09	0.393	0.286	0.706	0.471
00000553	48.09	49.32	0.393	0.286	0.706	0.471
00000553	49.32	49.87	0.393	0.286	0.706	0.471
00000553	49.87	50.87	0.393	0.286	0.706	0.471
00000553	50.87	51.22	0.393	0.286	0.706	0.471
00000553A	0.00	0.58	0.393	0.286	0.706	0.471
00000553A	0.58	1.28	0.393	0.286	0.706	0.471
00000553A	1.28	5.37	0.393	0.286	0.706	0.471
00000553A	5.37	6.19	0.393	0.286	0.706	0.471
00000554	0.00	2.29	0.579	0.407	1.143	0.679
00000554	2.29	6.07	0.579	0.407	1.143	0.679
00000555	0.00	3.80	2.653	1.463	1.292	0.843
00000555	3.80	6.44	2.653	1.463	1.292	0.843
00000555	6.44	7.29	2.653	1.463	1.292	0.843
00000555	7.29	7.79	2.653	1.463	1.292	0.843
00000555	7.79	8.30	2.653	1.463	1.292	0.843
00000555	8.30	9.36	0.840	0.529	1.375	0.812
00000555	9.36	9.48	0.840	0.529	1.375	0.812
00000555	9.48	9.70	0.840	0.529	1.375	0.812
00000555	10.05	10.50	0.840	0.529	1.375	0.812

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000555	10.50	10.55	0.840	0.529	1.375	0.812
00000555	10.55	12.32	0.840	0.529	1.375	0.812
00000555	12.32	12.61	0.840	0.529	1.375	0.812
00000555	12.61	16.56	0.840	0.529	1.375	0.812
00000555	16.93	18.60	0.840	0.529	1.375	0.812
00000555	18.60	18.90	2.653	1.463	1.292	0.843
00000555	18.90	21.50	2.653	1.463	1.292	0.843
00000555	21.50	25.49	2.653	1.463	1.292	0.843
00000555	25.49	25.84	2.653	1.463	1.292	0.843
00000555	25.84	34.20	0.393	0.286	0.706	0.471
00000557	0.00	2.84	2.653	1.463	1.292	0.843
00000557	2.84	3.10	2.653	1.463	1.292	0.843
00000557	3.51	3.77	2.653	1.463	1.292	0.843
00000557	3.77	6.89	2.653	1.463	1.292	0.843
00000557	6.89	7.67	2.653	1.463	1.292	0.843
00000557	7.67	8.76	2.653	1.463	1.292	0.843
00000557	8.76	9.42	2.653	1.463	1.292	0.843
00000557	12.75	27.57	2.653	1.463	1.292	0.843
00000557	27.57	27.73	2.653	1.463	1.292	0.843
00000557	30.87	31.85	0.840	0.529	1.375	0.812
00000557	31.85	35.81	0.840	0.529	1.375	0.812
00000557	35.81	36.15	0.840	0.529	1.375	0.812
00000559	0.00	5.23	0.840	0.529	1.375	0.812
00000559	5.23	6.81	0.926	0.582	0.783	0.500
00000559	6.81	9.68	0.926	0.582	0.783	0.500
00000559	9.68	12.05	0.926	0.582	0.783	0.500
00000559	12.05	14.07	0.840	0.529	1.375	0.812
00000559	14.41	15.06	0.926	0.582	0.783	0.500
00000559	15.06	17.74	0.926	0.582	0.783	0.500
00000559	17.74	18.11	0.926	0.582	0.783	0.500
00000559	18.11	26.31	0.926	0.582	0.783	0.500
00000559	26.31	28.02	0.926	0.582	0.783	0.500
00000559	28.02	29.15	0.926	0.582	0.783	0.500
00000559	29.15	29.64	0.840	0.529	1.375	0.812
00000559	29.64	30.84	0.926	0.582	0.783	0.500
00000559A	0.00	0.68	0.926	0.582	0.783	0.500
00000559A	0.68	9.49	0.840	0.529	1.375	0.812
00000560	0.00	2.36	0.926	0.582	0.783	0.500
00000560	2.36	5.05	0.926	0.582	0.783	0.500
00000561	0.00	1.54	0.926	0.582	0.783	0.500
00000561	1.54	4.79	0.579	0.407	1.143	0.679
00000561	4.79	6.05	0.579	0.407	1.143	0.679
00000561	6.05	15.95	0.840	0.529	1.375	0.812
00000561	15.95	20.53	0.840	0.529	1.375	0.812
00000561	20.53	20.98	0.840	0.529	1.375	0.812
00000561	20.98	22.27	0.840	0.529	1.375	0.812
00000561	22.27	22.71	0.840	0.529	1.375	0.812
00000561	22.71	24.42	0.926	0.582	0.783	0.500
00000561	24.42	24.86	0.926	0.582	0.783	0.500
00000561	24.86	25.79	0.926	0.582	0.783	0.500
00000561	25.79	27.82	0.926	0.582	0.783	0.500
00000561	32.48	33.24	1.166	0.682	1.179	0.768
00000561	33.24	35.96	1.166	0.682	1.179	0.768
00000561	36.43	36.86	1.314	0.776	1.128	0.674
00000561	36.86	39.04	0.557	0.389	0.947	0.624
00000561	39.04	39.62	0.557	0.389	0.947	0.624

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000561	39.62	41.29	0.557	0.389	0.947	0.624
00000561	41.29	44.04	1.314	0.776	1.128	0.674
00000561	44.04	45.00	1.314	0.776	1.128	0.674
00000561	45.00	45.06	0.978	0.647	1.261	0.815
00000561	45.06	45.64	0.978	0.647	1.261	0.815
00000561	45.64	45.76	0.978	0.647	1.261	0.815
00000561	45.76	50.52	0.978	0.647	1.261	0.815
00000561	50.52	51.05	1.314	0.776	1.128	0.674
000005611	0.00	0.69	2.653	1.463	1.292	0.843
000005612	0.00	0.17	0.978	0.647	1.261	0.815
000005613	0.00	0.55	1.314	0.776	1.128	0.674
000005614	0.00	0.06	0.978	0.647	1.261	0.815
000005614	0.06	0.56	0.557	0.389	0.947	0.624
00000561A	0.00	1.38	0.579	0.407	1.143	0.679
00000561A	1.38	2.68	0.579	0.407	1.143	0.679
00000561A	2.68	6.04	0.579	0.407	1.143	0.679
00000561A	6.04	6.58	0.579	0.407	1.143	0.679
00000561A	6.58	12.18	0.926	0.582	0.783	0.500
00000561A	12.18	15.79	0.926	0.582	0.783	0.500
00000563	0.00	0.84	0.579	0.407	1.143	0.679
00000563	0.84	0.90	1.166	0.682	1.179	0.768
00000563	0.90	0.96	1.166	0.682	1.179	0.768
00000563	0.96	3.12	0.579	0.407	1.143	0.679
00000563	3.12	3.36	0.579	0.407	1.143	0.679
00000563	3.36	3.73	0.579	0.407	1.143	0.679
00000563	3.73	4.47	0.579	0.407	1.143	0.679
00000563	4.47	6.27	0.949	0.624	1.750	1.125
00000563	7.14	13.74	0.949	0.624	1.750	1.125
00000563	16.70	19.61	0.926	0.582	0.783	0.500
00000563	19.61	19.87	0.926	0.582	0.783	0.500
00000563	19.87	24.23	0.926	0.582	0.783	0.500
00000563	24.23	24.73	0.926	0.582	0.783	0.500
00000563	24.86	39.98	0.926	0.582	0.783	0.500
00000563	40.07	43.87	0.926	0.582	0.783	0.500
00000565	0.00	4.77	1.533	0.917	1.838	1.081
00000565	4.77	7.20	1.533	0.917	1.838	1.081
00000565	7.20	8.02	0.926	0.582	0.783	0.500
00000565	8.02	9.40	0.926	0.582	0.783	0.500
00000565	10.07	17.86	0.926	0.582	0.783	0.500
00000567	0.00	1.21	0.926	0.582	0.783	0.500
00000567	1.21	1.65	0.926	0.582	0.783	0.500
00000567	1.65	1.86	0.926	0.582	0.783	0.500
00000567	1.86	4.71	0.926	0.582	0.783	0.500
00000567	4.71	5.56	0.978	0.647	1.261	0.815
00000567	5.56	8.88	0.978	0.647	1.261	0.815
00000567	8.88	8.96	0.978	0.647	1.261	0.815
00000567	8.96	10.02	0.978	0.647	1.261	0.815
00000569	0.00	0.91	0.978	0.647	1.261	0.815
00000569	0.91	0.92	0.978	0.647	1.261	0.815
00000569	0.92	1.24	0.978	0.647	1.261	0.815
00000569	1.24	2.06	0.978	0.647	1.261	0.815
00000569	2.10	5.52	0.978	0.647	1.261	0.815
00000569	5.52	6.97	0.978	0.647	1.261	0.815
00000569	6.97	8.19	0.978	0.647	1.261	0.815
00000569	8.19	8.45	0.978	0.647	1.261	0.815
00000569	8.45	8.53	0.978	0.647	1.261	0.815



**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section**

**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000571	0.00	1.45	0.880	0.583	0.916	0.574
00000571	1.45	5.46	0.579	0.407	1.143	0.679
00000571	5.46	5.73	0.579	0.407	1.143	0.679
00000571	5.73	6.64	0.579	0.407	1.143	0.679
00000571	7.40	14.09	1.166	0.682	1.179	0.768
00000571	14.09	19.55	1.166	0.682	1.179	0.768
00000571	19.55	22.87	1.166	0.682	1.179	0.768
00000571	24.35	25.63	0.926	0.582	0.783	0.500
00000571	26.73	27.01	0.926	0.582	0.783	0.500
00000571	27.01	28.97	0.926	0.582	0.783	0.500
00000571	28.97	30.44	0.926	0.582	0.783	0.500
00000571	30.44	30.68	0.926	0.582	0.783	0.500
00000571	30.68	32.46	0.926	0.582	0.783	0.500
00000571	32.46	32.65	0.926	0.582	0.783	0.500
00000571	32.65	33.99	0.978	0.647	1.261	0.815
00000571	34.42	35.27	0.978	0.647	1.261	0.815
00000571	35.27	36.61	0.978	0.647	1.261	0.815
00000571	36.61	40.87	0.780	0.493	0.735	0.486
00000571	41.21	43.96	1.222	0.775	1.307	0.821
00000575	0.00	3.36	0.840	0.529	1.375	0.812
00000575	3.36	4.62	0.840	0.529	1.375	0.812
00000575	4.62	6.75	0.840	0.529	1.375	0.812
00000575	8.67	11.78	0.840	0.529	1.375	0.812
00000575	11.78	16.01	0.579	0.407	1.143	0.679
00000575	16.55	17.50	0.926	0.582	0.783	0.500
00000575	17.50	19.50	0.926	0.582	0.783	0.500
00000575	19.50	20.96	0.926	0.582	0.783	0.500
00000577	0.00	0.92	1.016	0.631	0.588	0.402
00000577	0.92	1.43	1.016	0.631	0.588	0.402
00000577	1.43	3.40	1.533	0.917	1.838	1.081
00000577	3.40	3.53	1.533	0.917	1.838	1.081
00000577	3.64	4.91	1.533	0.917	1.838	1.081
00000577	4.91	6.36	1.533	0.917	1.838	1.081
00000577	6.36	6.97	1.016	0.631	0.588	0.402
00000577	6.97	9.71	1.016	0.631	0.588	0.402
00000577	9.71	9.96	1.347	0.866	1.910	1.171
00000577Z	0.00	0.37	1.016	0.631	0.588	0.402
00000579	0.00	2.21	0.926	0.582	0.783	0.500
00000579	2.21	3.29	0.978	0.647	1.261	0.815
00000579	3.29	6.49	0.978	0.647	1.261	0.815
00000579	6.49	7.66	0.978	0.647	1.261	0.815
00000579	7.66	8.90	0.978	0.647	1.261	0.815
00000579	8.90	12.05	0.978	0.647	1.261	0.815
00000579	14.36	14.64	0.866	0.613	1.647	1.059
00000579	14.72	19.22	0.926	0.582	0.783	0.500
00000579	19.33	20.65	0.926	0.582	0.783	0.500
00000579	20.65	27.78	0.926	0.582	0.783	0.500
00000579	27.85	36.71	0.926	0.582	0.783	0.500
00000579	36.71	37.24	0.926	0.582	0.783	0.500
00000581	0.00	3.69	2.653	1.463	1.292	0.843
00000581	3.69	14.14	2.653	1.463	1.292	0.843
00000581	14.14	17.57	2.653	1.463	1.292	0.843
00000583	1.06	5.55	0.978	0.647	1.261	0.815
00000583	5.91	6.52	0.978	0.647	1.261	0.815
00000583	6.52	9.11	0.978	0.647	1.261	0.815
00000585	0.00	0.85	0.663	0.554	0.556	0.444

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**Average Equivalency Factors per Vehicle - 2020**

**Equivalent Single Axle Load (ESAL) Design Factors**

Rigid Pavement (r)                      P = 2.5              D = 228mm (9.0")  
Flexible Pavement (f)                    P = 2.5              SN = 127mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle - Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP end	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000585	0.85	5.86	0.579	0.407	1.143	0.679
00000585	5.86	6.91	0.579	0.407	1.143	0.679
00000585	6.91	8.91	0.579	0.407	1.143	0.679
00000585	8.91	9.57	0.579	0.407	1.143	0.679
00000676	0.00	3.79	0.974	0.588	1.007	0.676
00000676	3.79	4.75	0.974	0.588	1.007	0.676
00000700	0.00	1.88	1.654	0.920	1.394	0.869
00000700	1.88	7.20	1.654	0.920	1.394	0.869
00000700	7.20	7.31	1.654	0.920	1.394	0.869
00000700	7.31	8.11	1.654	0.920	1.394	0.869
00000700	8.11	48.41	1.654	0.920	1.394	0.869
00000700	48.41	49.37	0.899	0.585	1.129	0.736
00000700	49.37	51.99	0.899	0.585	1.129	0.736