

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	1.292	0.763	1.250	0.811
00000001	5.00	5.48	1.292	0.763	1.250	0.811
00000001	5.48	8.10	0.924	0.585	1.086	0.700
00000001	8.10	11.92	0.924	0.585	1.086	0.700
00000001	11.92	27.72	0.758	0.487	0.681	0.457
00000001	27.72	28.08	0.758	0.487	0.681	0.457
00000001	28.08	45.45	0.821	0.528	0.825	0.516
00000001	45.45	47.00	1.006	0.653	1.182	0.775
00000001	47.00	49.00	1.006	0.653	1.182	0.775
00000001	49.00	54.61	1.006	0.653	1.182	0.775
00000001	54.61	60.70	1.695	1.020	2.000	1.112
00000001	60.70	62.80	1.695	1.020	2.000	1.112
00000001	62.80	62.88	1.695	1.020	2.000	1.112
00000001	62.88	63.88	1.695	1.020	2.000	1.112
00000001	63.88	64.88	1.695	1.020	2.000	1.112
00000001B	0.00	0.25	0.924	0.585	1.086	0.700
00000001B	0.25	0.42	0.924	0.585	1.086	0.700
00000001B	0.42	2.73	0.924	0.585	1.086	0.700
00000001T	0.00	0.40	1.695	1.020	2.000	1.112
00000001T	0.40	2.30	1.695	1.020	2.000	1.112
00000001T	2.30	3.00	1.695	1.020	2.000	1.112
00000001T	3.00	4.35	1.695	1.020	2.000	1.112
00000003	0.00	10.84	1.006	0.653	1.182	0.775
00000004	0.00	2.00	1.695	1.020	2.000	1.112
00000004	2.00	10.59	1.006	0.653	1.182	0.775
00000005	0.00	1.30	1.695	1.020	2.000	1.112
00000005	1.30	1.60	1.695	1.020	2.000	1.112
00000005	1.60	1.80	1.695	1.020	2.000	1.112
00000005	1.80	3.18	1.695	1.020	2.000	1.112
00000007	0.00	1.40	1.695	1.020	2.000	1.112
00000007	1.40	5.29	1.695	1.020	2.000	1.112
00000007	5.99	9.19	1.321	0.835	1.259	0.788
00000007	9.19	9.99	1.321	0.835	1.259	0.788
00000007	9.99	10.10	1.321	0.835	1.259	0.788
00000009	0.23	0.69	1.343	0.809	1.402	0.879
00000009	0.69	1.43	1.343	0.809	1.402	0.879
00000009	1.43	3.06	1.343	0.809	1.402	0.879
00000009	3.06	7.30	0.670	0.463	1.842	0.947
00000009	7.30	16.01	0.670	0.463	1.842	0.947
00000009	16.01	16.06	0.670	0.463	1.842	0.947
00000009	16.06	16.80	0.670	0.463	1.842	0.947
00000009	16.80	18.00	1.343	0.809	1.402	0.879
00000009	18.00	18.61	1.343	0.809	1.402	0.879
00000009	18.61	30.65	0.670	0.463	1.842	0.947
00000009	32.16	32.20	0.670	0.463	1.842	0.947
00000009	32.20	32.22	0.670	0.463	1.842	0.947
00000009	32.22	42.86	0.614	0.427	1.552	0.931
00000009	42.86	43.32	0.670	0.463	1.842	0.947

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Flexible Pavement (f) P=2.5 SN=127 mm (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	43.32	43.85	0.670	0.463	1.842	0.947
00000009	43.85	46.00	0.670	0.463	1.842	0.947
00000009	46.00	49.38	0.670	0.463	1.842	0.947
00000009	49.38	52.59	0.670	0.463	1.842	0.947
00000009	54.85	59.89	0.670	0.463	1.842	0.947
00000009	59.89	60.00	0.670	0.463	1.842	0.947
00000009	60.00	62.75	0.670	0.463	1.842	0.947
00000009	62.75	67.70	0.670	0.463	1.842	0.947
00000009	67.70	70.53	0.670	0.463	1.842	0.947
00000009	70.53	77.90	0.974	0.686	1.612	1.015
00000009	77.90	91.05	0.974	0.686	1.612	1.015
00000009	94.50	99.00	1.245	0.732	1.202	0.680
00000009	99.00	101.50	1.245	0.732	1.202	0.680
00000009	101.50	102.00	1.245	0.732	1.202	0.680
00000009	102.00	114.00	1.073	0.679	1.050	0.663
00000009	114.00	121.51	0.851	0.553	0.828	0.536
00000009	121.51	127.94	0.851	0.553	0.828	0.536
00000009	127.94	131.80	0.851	0.553	0.828	0.536
00000009	131.80	132.80	0.821	0.528	0.825	0.516
00000009	132.80	136.38	0.821	0.528	0.825	0.516
00000009W	0.00	0.67	1.695	1.020	2.000	1.112
00000009W	0.67	1.40	1.695	1.020	2.000	1.112
00000009W	1.40	8.00	1.695	1.020	2.000	1.112
00000009W	8.00	8.50	1.695	1.020	2.000	1.112
00000009W	8.50	11.00	1.695	1.020	2.000	1.112
00000009W	11.00	11.17	1.695	1.020	2.000	1.112
00000010	0.00	18.80	0.821	0.528	0.825	0.516
00000010	18.80	23.51	0.821	0.528	0.825	0.516
00000012	0.00	0.21	1.321	0.835	1.259	0.788
00000012	0.21	0.43	1.321	0.835	1.259	0.788
00000012	0.43	1.00	1.321	0.835	1.259	0.788
00000012	1.00	6.00	1.321	0.835	1.259	0.788
00000012	6.00	9.40	1.321	0.835	1.259	0.788
00000012	9.40	10.82	1.321	0.835	1.259	0.788
00000012	10.82	11.38	1.321	0.835	1.259	0.788
00000012	11.38	11.69	1.321	0.835	1.259	0.788
00000013	0.00	0.13	0.670	0.463	1.842	0.947
00000013	0.13	0.27	0.670	0.463	1.842	0.947
00000013	0.27	0.56	0.670	0.463	1.842	0.947
00000015	0.00	0.07	1.321	0.835	1.259	0.788
00000015	0.07	0.35	1.321	0.835	1.259	0.788
00000015	0.37	1.30	1.321	0.835	1.259	0.788
00000015	1.30	2.05	1.321	0.835	1.259	0.788
00000015	2.05	5.95	0.772	0.519	1.467	0.913
00000015	5.95	8.92	0.802	0.506	0.785	0.506
00000015	8.92	14.41	0.772	0.519	1.467	0.913
00000015	14.41	19.53	0.679	0.465	1.224	0.765

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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)
00000017	0.00	3.00	1.695	1.020	2.000	1.112
00000017	3.00	4.00	1.695	1.020	2.000	1.112
00000017	4.00	5.20	1.695	1.020	2.000	1.112
00000017	5.20	9.13	1.695	1.020	2.000	1.112
00000017	9.13	26.81	0.832	0.553	1.013	0.673
00000018	5.14	29.92	1.292	0.763	1.250	0.811
00000018	29.92	31.08	1.292	0.763	1.250	0.811
00000018	31.08	34.78	0.851	0.553	0.828	0.536
00000018	34.78	39.45	0.851	0.553	0.828	0.536
00000018	39.45	39.64	0.758	0.487	0.681	0.457
00000018	39.64	40.90	0.758	0.487	0.681	0.457
00000018	40.90	41.40	1.292	0.763	1.250	0.811
00000018	41.40	42.20	1.292	0.763	1.250	0.811
00000018	42.20	45.30	0.850	0.623	1.071	0.718
00000018	45.30	47.37	0.821	0.528	0.825	0.516
00000018	47.37	47.92	0.821	0.528	0.825	0.516
00000018S	0.00	0.29	0.821	0.528	0.825	0.516
00000019	0.00	2.46	0.802	0.506	0.785	0.506
00000019	2.46	3.04	1.695	1.020	2.000	1.112
00000020	0.00	1.00	1.695	1.020	2.000	1.112
00000020	1.00	4.00	1.695	1.020	2.000	1.112
00000020	4.00	4.15	1.695	1.020	2.000	1.112
00000021	0.00	4.08	1.695	1.020	2.000	1.112
00000021	4.08	14.35	1.006	0.653	1.182	0.775
00000022	0.00	0.63	0.850	0.623	1.071	0.718
00000022	0.63	5.07	1.324	0.790	1.361	0.877
00000022	19.25	41.00	0.997	0.642	1.099	0.746
00000022	41.00	53.00	0.821	0.528	0.825	0.516
00000022	53.00	60.53	0.821	0.528	0.825	0.516
00000023	0.00	3.95	1.695	1.020	2.000	1.112
00000023	3.95	4.86	1.695	1.020	2.000	1.112
00000023	4.86	6.82	1.695	1.020	2.000	1.112
00000023	8.94	21.04	0.821	0.528	0.825	0.516
00000023	21.04	26.60	0.821	0.528	0.825	0.516
00000023	26.60	31.37	0.772	0.519	1.467	0.913
00000023	31.37	34.50	0.679	0.465	1.224	0.765
00000023	34.50	36.00	0.679	0.465	1.224	0.765
00000023	36.00	39.50	0.679	0.465	1.224	0.765
00000023	39.50	39.98	0.679	0.465	1.224	0.765
00000023	39.98	40.40	0.679	0.465	1.224	0.765
00000023	40.40	40.61	0.679	0.465	1.224	0.765
00000023	40.61	42.60	0.679	0.465	1.224	0.765
00000023	42.60	52.63	0.679	0.465	1.224	0.765
00000024	0.00	1.00	0.850	0.623	1.071	0.718
00000024	1.00	4.50	0.850	0.623	1.071	0.718
00000024	4.50	5.00	0.850	0.623	1.071	0.718
00000024	5.00	10.42	0.850	0.623	1.071	0.718

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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)
00000026	0.00	2.57	1.139	0.709	1.227	0.818
00000027	0.00	1.74	0.924	0.585	1.086	0.700
00000027	1.74	3.00	0.924	0.585	1.086	0.700
00000027	3.00	13.50	0.924	0.585	1.086	0.700
00000027	13.50	15.17	0.924	0.585	1.086	0.700
00000027	15.17	16.22	0.758	0.487	0.681	0.457
00000027	16.22	16.72	0.758	0.487	0.681	0.457
00000027	16.72	18.04	0.758	0.487	0.681	0.457
00000027	18.04	20.82	0.821	0.528	0.825	0.516
00000027	20.82	21.59	1.073	0.679	1.050	0.663
00000027	21.59	21.86	1.073	0.679	1.050	0.663
00000027	21.86	23.26	1.073	0.679	1.050	0.663
00000027	23.26	26.30	0.821	0.528	0.825	0.516
00000027	26.30	27.20	0.821	0.528	0.825	0.516
00000027	27.20	32.79	0.821	0.528	0.825	0.516
00000027	32.79	33.62	0.821	0.528	0.825	0.516
00000027	33.62	34.05	1.695	1.020	2.000	1.112
00000027	34.05	34.34	1.695	1.020	2.000	1.112
00000027	34.34	34.78	1.695	1.020	2.000	1.112
00000027	34.78	35.80	1.695	1.020	2.000	1.112
00000027	35.80	38.16	1.695	1.020	2.000	1.112
00000027	38.16	38.53	1.695	1.020	2.000	1.112
00000027Z	33.39	33.89	1.695	1.020	2.000	1.112
00000027Z	33.89	34.06	1.695	1.020	2.000	1.112
00000028	0.00	2.25	1.139	0.709	1.227	0.818
00000028	2.25	2.50	0.997	0.642	1.099	0.746
00000028	2.50	2.95	0.997	0.642	1.099	0.746
00000028	2.95	3.80	0.997	0.642	1.099	0.746
00000028	3.80	4.18	0.997	0.642	1.099	0.746
00000028	4.18	9.75	0.997	0.642	1.099	0.746
00000028	9.75	11.78	0.821	0.528	0.825	0.516
00000028	11.78	12.49	0.821	0.528	0.825	0.516
00000028	12.49	14.32	0.821	0.528	0.825	0.516
00000028	14.32	14.66	0.821	0.528	0.825	0.516
00000028	14.66	15.70	0.821	0.528	0.825	0.516
00000028	15.70	19.50	0.821	0.528	0.825	0.516
00000028	19.50	23.00	0.821	0.528	0.825	0.516
00000028	23.00	26.44	0.821	0.528	0.825	0.516
00000029	0.00	2.50	1.292	0.763	1.250	0.811
00000029	2.50	4.00	1.292	0.763	1.250	0.811
00000029	4.00	4.17	1.292	0.763	1.250	0.811
00000029	4.17	4.44	1.292	0.763	1.250	0.811
00000029	4.44	6.99	1.292	0.763	1.250	0.811
00000029	6.99	9.39	1.292	0.763	1.250	0.811
00000029	9.39	9.40	0.924	0.585	1.086	0.700
00000029	9.40	13.93	0.924	0.585	1.086	0.700
00000029	13.93	15.34	0.924	0.585	1.086	0.700

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	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000029	15.34	18.87	0.506	0.378	0.809	0.545
00000029	18.87	18.96	0.506	0.378	0.809	0.545
00000029	18.96	20.06	0.506	0.378	0.809	0.545
00000029	20.06	23.03	1.321	0.835	1.259	0.788
00000029	23.03	26.24	1.321	0.835	1.259	0.788
00000029	26.24	34.00	1.321	0.835	1.259	0.788
00000029	34.00	34.71	1.321	0.835	1.259	0.788
00000030	0.92	3.00	0.934	0.742	1.043	0.739
00000030	3.00	4.40	0.934	0.742	1.043	0.739
00000030	4.40	26.58	0.645	0.467	1.350	0.795
00000030	26.58	27.95	0.645	0.467	1.350	0.795
00000030	27.95	36.32	0.614	0.427	1.552	0.931
00000030	36.32	54.44	0.614	0.427	1.552	0.931
00000030	54.44	56.77	0.614	0.427	1.552	0.931
00000030	56.77	58.26	0.614	0.427	1.552	0.931
00000031	0.00	4.60	0.924	0.585	1.086	0.700
00000031	4.60	8.59	0.924	0.585	1.086	0.700
00000031	8.59	16.07	0.868	0.563	1.075	0.691
00000031	16.07	16.36	0.868	0.563	1.075	0.691
00000031	22.02	35.73	0.868	0.563	1.075	0.691
00000031	35.73	47.90	1.324	0.790	1.361	0.877
00000031	47.90	48.93	1.324	0.790	1.361	0.877
00000032	0.00	1.18	0.758	0.487	0.681	0.457
00000033	0.00	3.00	0.851	0.553	0.828	0.536
00000033	3.00	4.00	0.851	0.553	0.828	0.536
00000033	4.00	7.84	0.851	0.553	0.828	0.536
00000033	12.42	13.50	0.851	0.553	0.828	0.536
00000033	13.50	14.10	0.851	0.553	0.828	0.536
00000033	14.10	14.33	0.851	0.553	0.828	0.536
00000033	14.33	15.00	0.851	0.553	0.828	0.536
00000033	15.00	17.54	0.851	0.553	0.828	0.536
00000033	17.54	18.94	0.851	0.553	0.828	0.536
00000033	18.94	24.32	0.851	0.553	0.828	0.536
00000033	24.32	24.40	0.851	0.553	0.828	0.536
00000033	24.40	31.00	1.292	0.763	1.250	0.811
00000033	31.00	31.49	1.073	0.679	1.050	0.663
00000033	31.49	37.67	1.073	0.679	1.050	0.663
00000033	37.67	41.38	1.073	0.679	1.050	0.663
00000033	41.38	42.03	0.670	0.463	1.842	0.947
00000033B	0.00	2.41	0.851	0.553	0.828	0.536
00000033B	2.41	6.89	0.851	0.553	0.828	0.536
00000034	0.00	7.72	1.245	0.732	1.202	0.680
00000034	8.76	12.27	0.670	0.463	1.842	0.947
00000034	12.27	22.30	0.851	0.553	0.828	0.536
00000034	22.30	23.40	1.245	0.732	1.202	0.680
00000034	23.40	26.79	0.851	0.553	0.828	0.536
00000035	0.00	2.62	0.670	0.463	1.842	0.947

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00000035	2.62	2.70	0.670	0.463	1.842	0.947
00000035	2.70	4.35	1.245	0.732	1.202	0.680
00000035	4.35	5.72	1.245	0.732	1.202	0.680
00000035	5.72	7.30	1.245	0.732	1.202	0.680
00000035	7.30	11.30	1.245	0.732	1.202	0.680
00000035	11.30	12.48	1.245	0.732	1.202	0.680
00000035	12.48	12.86	1.245	0.732	1.202	0.680
00000035	12.86	13.66	1.245	0.732	1.202	0.680
00000035	13.66	14.29	1.245	0.732	1.202	0.680
00000035	14.29	22.70	1.245	0.732	1.202	0.680
00000035	22.70	23.10	1.245	0.732	1.202	0.680
00000035	23.10	25.40	1.245	0.732	1.202	0.680
00000035	25.40	27.00	1.245	0.732	1.202	0.680
00000035	27.00	29.60	1.073	0.679	1.050	0.663
00000035	29.60	33.00	1.073	0.679	1.050	0.663
00000035	33.00	33.84	1.073	0.679	1.050	0.663
00000035	33.84	45.00	1.073	0.679	1.050	0.663
00000035	45.00	46.70	0.851	0.553	0.828	0.536
00000035	46.70	49.38	1.073	0.679	1.050	0.663
00000035	50.63	50.76	1.073	0.679	1.050	0.663
00000035	50.76	51.46	1.073	0.679	1.050	0.663
00000035	51.46	52.05	0.821	0.528	0.825	0.516
00000035	52.05	52.18	0.821	0.528	0.825	0.516
00000035	52.18	54.06	0.821	0.528	0.825	0.516
00000035	54.06	56.06	0.821	0.528	0.825	0.516
00000035	56.06	58.07	0.821	0.528	0.825	0.516
00000035Z	3.49	4.30	1.245	0.732	1.202	0.680
00000035Z	4.30	5.53	1.245	0.732	1.202	0.680
00000035Z	5.53	9.03	1.245	0.732	1.202	0.680
00000035Z	12.85	14.28	1.245	0.732	1.202	0.680
00000036	0.00	2.78	1.073	0.679	1.050	0.663
00000036	2.78	3.87	1.073	0.679	1.050	0.663
00000036	3.87	5.72	1.073	0.679	1.050	0.663
00000036	5.72	6.37	1.073	0.679	1.050	0.663
00000036	6.37	11.80	1.073	0.679	1.050	0.663
00000036	11.80	13.30	1.073	0.679	1.050	0.663
00000036	13.30	18.40	1.073	0.679	1.050	0.663
00000036	18.40	24.40	1.073	0.679	1.050	0.663
00000037	0.00	2.49	0.851	0.553	0.828	0.536
00000037	2.49	11.45	1.245	0.732	1.202	0.680
00000037	11.45	12.36	1.245	0.732	1.202	0.680
00000037	12.36	12.79	1.245	0.732	1.202	0.680
00000037	12.79	13.43	1.245	0.732	1.202	0.680
00000038	0.00	5.00	1.225	0.716	1.311	0.825
00000038	5.00	19.19	1.225	0.716	1.311	0.825
00000040	1.70	2.60	0.934	0.742	1.043	0.739
00000040	2.60	6.30	0.934	0.742	1.043	0.739

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	6.30	8.14	0.934	0.742	1.043	0.739
00000040	8.14	10.02	0.934	0.742	1.043	0.739
00000040	10.02	10.67	0.934	0.742	1.043	0.739
00000040	10.67	11.31	0.934	0.742	1.043	0.739
00000040	11.31	12.37	0.934	0.742	1.043	0.739
00000040	12.37	19.55	0.934	0.742	1.043	0.739
00000040	19.55	20.24	0.934	0.742	1.043	0.739
00000040	20.24	35.50	1.343	0.809	1.402	0.879
00000040	35.50	44.40	1.343	0.809	1.402	0.879
00000040	44.40	47.01	0.614	0.427	1.552	0.931
00000040	47.01	47.34	0.614	0.427	1.552	0.931
00000040	47.34	53.16	0.614	0.427	1.552	0.931
00000040	53.16	63.49	0.614	0.427	1.552	0.931
00000040	63.49	64.32	0.614	0.427	1.552	0.931
00000041	0.00	3.86	0.654	0.493	1.222	0.784
00000041	3.86	4.00	0.934	0.742	1.043	0.739
00000041	4.00	4.95	0.934	0.742	1.043	0.739
00000041	4.95	7.23	0.654	0.493	1.222	0.784
00000041	7.23	7.90	1.139	0.709	1.227	0.818
00000041	7.90	8.60	1.139	0.709	1.227	0.818
00000041	8.60	10.57	1.139	0.709	1.227	0.818
00000041	10.57	10.68	1.139	0.709	1.227	0.818
00000041	10.68	10.83	0.934	0.742	1.043	0.739
00000041	10.83	14.08	1.139	0.709	1.227	0.818
00000042	0.00	6.35	0.934	0.742	1.043	0.739
00000042	6.35	14.28	1.292	0.763	1.250	0.811
00000044	0.00	0.86	0.869	0.539	1.321	0.929
00000044	0.86	2.14	0.654	0.493	1.222	0.784
00000044	2.14	6.30	0.654	0.493	1.222	0.784
00000044	6.30	10.28	0.654	0.493	1.222	0.784
00000045	0.00	0.50	0.654	0.493	1.222	0.784
00000045	0.50	3.35	0.654	0.493	1.222	0.784
00000045	3.35	8.80	0.654	0.493	1.222	0.784
00000045	9.44	10.44	0.654	0.493	1.222	0.784
00000045	10.44	12.49	0.654	0.493	1.222	0.784
00000045	12.49	13.53	0.654	0.493	1.222	0.784
00000045	13.53	15.48	0.654	0.493	1.222	0.784
00000045	15.48	17.40	0.654	0.493	1.222	0.784
00000045	17.40	17.64	0.654	0.493	1.222	0.784
00000045	18.16	19.50	0.934	0.742	1.043	0.739
00000045	19.50	22.60	0.934	0.742	1.043	0.739
00000045	22.60	25.49	0.934	0.742	1.043	0.739
00000045	25.49	27.00	0.934	0.742	1.043	0.739
00000045	27.00	28.51	0.934	0.742	1.043	0.739
00000046	0.00	1.57	0.772	0.519	1.467	0.913
00000046	1.57	10.03	0.772	0.519	1.467	0.913
00000046	10.03	15.79	1.321	0.835	1.259	0.788

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	15.79	17.21	1.321	0.835	1.259	0.788
00000046	17.21	20.63	1.321	0.835	1.259	0.788
00000046	20.63	21.70	1.321	0.835	1.259	0.788
00000046	21.70	21.83	0.772	0.519	1.467	0.913
00000046	21.83	37.19	0.772	0.519	1.467	0.913
00000046	37.19	37.91	0.821	0.528	0.825	0.516
00000046	37.91	38.17	0.821	0.528	0.825	0.516
00000046	38.17	38.85	0.821	0.528	0.825	0.516
00000046	38.85	61.51	0.821	0.528	0.825	0.516
00000046	61.51	62.36	1.695	1.020	2.000	1.112
00000046	62.36	69.52	1.695	1.020	2.000	1.112
00000046	69.52	70.25	1.695	1.020	2.000	1.112
00000046	70.25	72.09	1.695	1.020	2.000	1.112
00000047	0.00	3.15	1.343	0.809	1.402	0.879
00000047	3.15	3.40	0.670	0.463	1.842	0.947
00000047	3.40	3.80	0.670	0.463	1.842	0.947
00000047	3.80	7.06	0.670	0.463	1.842	0.947
00000047	7.06	15.98	0.670	0.463	1.842	0.947
00000047	15.98	17.54	0.670	0.463	1.842	0.947
00000047	17.54	19.35	1.343	0.809	1.402	0.879
00000047	19.35	20.91	1.343	0.809	1.402	0.879
00000047	20.91	31.95	0.670	0.463	1.842	0.947
00000047	31.95	35.08	1.343	0.809	1.402	0.879
00000047	35.08	36.10	0.670	0.463	1.842	0.947
00000047	36.10	36.25	0.670	0.463	1.842	0.947
00000047	36.25	40.20	0.670	0.463	1.842	0.947
00000047	40.20	42.47	0.670	0.463	1.842	0.947
00000047	42.47	46.55	0.670	0.463	1.842	0.947
00000047	46.55	47.68	0.670	0.463	1.842	0.947
00000047	47.68	52.52	0.670	0.463	1.842	0.947
00000047	53.03	57.94	0.670	0.463	1.842	0.947
00000047	57.94	62.46	0.654	0.493	1.222	0.784
00000047	62.87	64.12	0.934	0.742	1.043	0.739
00000047	64.12	75.20	0.654	0.493	1.222	0.784
00000047Z	0.00	0.22	0.670	0.463	1.842	0.947
00000048	0.00	1.50	0.654	0.493	1.222	0.784
00000048	1.50	2.13	0.654	0.493	1.222	0.784
00000048	2.13	4.26	0.869	0.539	1.321	0.929
00000049	0.00	2.50	0.934	0.742	1.043	0.739
00000049	2.50	6.19	0.934	0.742	1.043	0.739
00000049	6.19	8.00	0.934	0.742	1.043	0.739
00000049	8.00	8.20	0.934	0.742	1.043	0.739
00000049	8.20	8.29	0.934	0.742	1.043	0.739
00000049	8.29	8.30	0.934	0.742	1.043	0.739
00000049	8.30	8.47	0.934	0.742	1.043	0.739
00000049	8.47	10.10	0.934	0.742	1.043	0.739
00000049	10.10	18.77	0.934	0.742	1.043	0.739

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000049	18.77	20.91	0.934	0.742	1.043	0.739
00000049	20.91	24.70	0.934	0.742	1.043	0.739
00000049	24.70	26.40	0.934	0.742	1.043	0.739
00000049	26.40	30.79	1.343	0.809	1.402	0.879
00000049	30.79	30.80	1.343	0.809	1.402	0.879
00000049	30.80	35.09	1.343	0.809	1.402	0.879
00000049	35.09	36.42	1.343	0.809	1.402	0.879
00000049	36.42	37.84	1.343	0.809	1.402	0.879
00000049	37.84	40.80	0.670	0.463	1.842	0.947
00000049	40.80	53.80	0.670	0.463	1.842	0.947
00000050	0.00	4.91	0.670	0.463	1.842	0.947
00000050	4.91	9.34	0.670	0.463	1.842	0.947
00000050	9.34	17.29	0.670	0.463	1.842	0.947
00000050	17.29	18.24	0.670	0.463	1.842	0.947
00000050	18.24	18.50	0.670	0.463	1.842	0.947
00000050	19.12	23.34	0.670	0.463	1.842	0.947
00000050	23.34	24.93	0.670	0.463	1.842	0.947
00000050	24.93	24.94	0.670	0.463	1.842	0.947
00000050	24.94	26.02	0.670	0.463	1.842	0.947
00000052	0.00	2.12	0.614	0.427	1.552	0.931
00000052	2.12	2.74	0.614	0.427	1.552	0.931
00000053	0.00	3.40	0.821	0.528	0.825	0.516
00000053	3.40	4.63	0.821	0.528	0.825	0.516
00000053	4.63	4.66	0.821	0.528	0.825	0.516
00000054	0.00	1.07	0.670	0.463	1.842	0.947
00000054	1.07	4.56	0.670	0.463	1.842	0.947
00000054	4.56	5.65	0.670	0.463	1.842	0.947
00000054	5.65	6.67	0.670	0.463	1.842	0.947
00000054	6.67	8.13	1.343	0.809	1.402	0.879
00000054	8.13	8.71	0.614	0.427	1.552	0.931
00000054	8.71	10.60	0.670	0.463	1.842	0.947
00000054	10.60	11.86	0.670	0.463	1.842	0.947
00000055	20.00	21.75	1.292	0.763	1.250	0.811
00000055	21.75	42.28	0.850	0.623	1.071	0.718
00000055	42.28	60.54	1.292	0.763	1.250	0.811
00000056	0.00	1.25	0.654	0.493	1.222	0.784
00000056	1.25	2.20	0.654	0.493	1.222	0.784
00000056	2.20	9.19	0.654	0.493	1.222	0.784
00000057	0.00	3.58	1.238	0.790	0.944	0.592
00000057	3.58	6.53	1.238	0.790	0.944	0.592
00000057	6.53	9.79	1.238	0.790	0.944	0.592
00000057	9.79	11.60	1.238	0.790	0.944	0.592
00000057	11.60	12.67	1.238	0.790	0.944	0.592
00000057	12.67	14.68	1.238	0.790	0.944	0.592
00000057	14.68	15.82	1.238	0.790	0.944	0.592
00000057	15.82	20.53	1.238	0.790	0.944	0.592
00000057	20.53	21.10	1.238	0.790	0.944	0.592

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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
0000059	0.00	0.15	0.869	0.539	1.321	0.929
0000062	0.00	0.47	1.695	1.020	2.000	1.112
0000063	0.00	0.90	1.695	1.020	2.000	1.112
0000063	0.90	3.09	1.695	1.020	2.000	1.112
0000064	0.00	0.32	0.758	0.487	0.681	0.457
0000066	0.00	3.62	1.245	0.732	1.202	0.680
0000067	0.00	0.80	1.321	0.835	1.259	0.788
0000067	0.80	1.29	1.321	0.835	1.259	0.788
0000067	1.29	1.86	1.695	1.020	2.000	1.112
0000068	0.00	1.00	1.139	0.709	1.227	0.818
0000068	1.00	2.85	1.139	0.709	1.227	0.818
0000068	2.85	7.80	1.139	0.709	1.227	0.818
0000070	0.00	18.53	0.602	0.411	1.053	0.679
0000070	18.61	23.03	0.602	0.411	1.053	0.679
0000070	23.03	26.05	0.602	0.411	1.053	0.679
0000070	26.05	33.31	0.602	0.411	1.053	0.679
0000070	33.31	37.52	0.602	0.411	1.053	0.679
0000070	37.52	40.30	0.602	0.411	1.053	0.679
0000070	40.30	43.27	0.602	0.411	1.053	0.679
0000070	43.27	58.26	1.245	0.732	1.202	0.680
0000070	58.26	58.44	1.245	0.732	1.202	0.680
0000070	58.44	59.84	1.245	0.732	1.202	0.680
0000071	0.00	1.72	1.245	0.732	1.202	0.680
0000071	1.72	4.89	1.245	0.732	1.202	0.680
0000071	4.89	5.10	1.245	0.732	1.202	0.680
0000071	5.42	5.57	0.670	0.463	1.842	0.947
0000071	5.57	9.00	0.670	0.463	1.842	0.947
0000071	9.00	9.37	0.670	0.463	1.842	0.947
0000071	9.37	9.47	0.670	0.463	1.842	0.947
0000071	9.47	12.96	0.670	0.463	1.842	0.947
0000071	12.96	13.78	0.670	0.463	1.842	0.947
0000071	13.78	15.58	0.670	0.463	1.842	0.947
0000071	15.58	16.78	0.670	0.463	1.842	0.947
0000072	0.00	1.66	1.539	0.848	1.341	0.847
0000072	1.66	16.20	1.539	0.848	1.341	0.847
0000072	16.20	16.22	1.539	0.848	1.341	0.847
0000072	16.22	22.80	0.974	0.686	1.612	1.015
0000072	22.80	23.00	0.974	0.686	1.612	1.015
0000072	23.00	26.75	0.974	0.686	1.612	1.015
0000072	26.75	27.08	0.974	0.686	1.612	1.015
0000072	27.08	28.48	0.974	0.686	1.612	1.015
0000072	28.48	28.76	0.974	0.686	1.612	1.015
0000073	0.00	2.40	0.670	0.463	1.842	0.947
0000073	2.40	4.00	0.670	0.463	1.842	0.947
0000073	4.00	4.14	0.670	0.463	1.842	0.947
0000073	4.14	6.06	1.139	0.709	1.227	0.818
0000073	6.06	8.90	0.645	0.467	1.350	0.795

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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000073	8.90	11.50	0.645	0.467	1.350	0.795
00000073	11.50	13.20	0.645	0.467	1.350	0.795
00000073	13.20	34.64	0.645	0.467	1.350	0.795
00000076	0.00	3.08	0.921	0.602	1.419	0.928
00000076C	0.00	1.22	0.934	0.742	1.043	0.739
00000077	0.00	2.10	0.654	0.493	1.222	0.784
00000077	2.10	6.14	0.654	0.493	1.222	0.784
00000077	6.14	10.00	0.654	0.493	1.222	0.784
00000077	10.00	14.10	0.654	0.493	1.222	0.784
00000077	14.10	14.60	0.654	0.493	1.222	0.784
00000077	14.60	18.29	0.654	0.493	1.222	0.784
00000077	18.29	22.16	0.654	0.493	1.222	0.784
00000077	22.16	22.55	0.654	0.493	1.222	0.784
00000078	0.00	7.75	1.232	0.706	0.862	0.587
00000078	7.75	14.52	1.232	0.706	0.862	0.587
00000078	14.52	25.53	1.232	0.706	0.862	0.587
00000078	25.53	30.14	1.232	0.706	0.862	0.587
00000078	30.14	30.80	1.232	0.706	0.862	0.587
00000078	30.80	31.32	1.232	0.706	0.862	0.587
00000078	31.32	42.70	0.708	0.486	1.208	0.791
00000078	42.70	52.20	0.708	0.486	1.208	0.791
00000078	52.20	58.50	0.708	0.486	1.208	0.791
00000078	58.50	59.00	0.708	0.486	1.208	0.791
00000078	59.00	62.00	0.708	0.486	1.208	0.791
00000078	62.00	67.03	0.708	0.486	1.208	0.791
00000078	67.03	67.83	0.708	0.486	1.208	0.791
00000079	0.00	1.43	0.851	0.553	0.828	0.536
00000079	1.43	1.59	0.851	0.553	0.828	0.536
00000079	1.59	3.40	0.851	0.553	0.828	0.536
00000079	3.40	5.47	1.073	0.679	1.050	0.663
00000079	5.47	6.17	1.073	0.679	1.050	0.663
00000079	6.17	10.90	1.073	0.679	1.050	0.663
00000079	10.90	12.13	1.073	0.679	1.050	0.663
00000080	0.00	4.70	0.323	0.256	0.864	0.579
00000080	4.70	18.26	0.444	0.336	1.050	0.707
00000080	18.26	19.88	0.444	0.336	1.050	0.707
00000080	19.88	23.23	0.444	0.336	1.050	0.707
00000080	23.23	68.54	0.783	0.539	0.843	0.565
00000081	0.00	1.18	1.006	0.653	1.182	0.775
00000082	0.00	3.83	0.821	0.528	0.825	0.516
00000082	3.83	4.92	0.821	0.528	0.825	0.516
00000083	0.00	3.81	1.343	0.809	1.402	0.879
00000087	0.00	0.60	0.614	0.427	1.552	0.931
00000087	0.60	1.70	0.614	0.427	1.552	0.931
00000088	0.00	0.60	1.245	0.732	1.202	0.680
00000088	0.60	5.20	1.245	0.732	1.202	0.680
00000088	5.20	5.45	1.245	0.732	1.202	0.680

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
0000088	5.45	5.62	1.245	0.732	1.202	0.680
0000088	5.62	7.70	1.245	0.732	1.202	0.680
0000088	7.70	10.02	1.245	0.732	1.202	0.680
0000088Z	0.00	0.19	1.245	0.732	1.202	0.680
0000090	0.00	3.22	1.292	0.763	1.250	0.811
0000091	0.00	2.26	1.139	0.709	1.227	0.818
0000093	0.00	3.50	1.695	1.020	2.000	1.112
0000094	0.00	0.63	1.321	0.835	1.259	0.788
0000094	0.63	17.08	1.321	0.835	1.259	0.788
0000094	17.08	22.00	1.321	0.835	1.259	0.788
0000094	22.00	22.47	1.321	0.835	1.259	0.788
0000094	24.91	25.78	1.321	0.835	1.259	0.788
0000094	25.78	27.70	1.321	0.835	1.259	0.788
0000094	28.00	32.38	1.321	0.835	1.259	0.788
0000094	32.38	35.31	1.321	0.835	1.259	0.788
0000094	35.31	36.14	1.321	0.835	1.259	0.788
0000094	36.14	41.76	1.321	0.835	1.259	0.788
0000094	41.76	43.30	1.321	0.835	1.259	0.788
0000094	43.30	45.94	1.321	0.835	1.259	0.788
0000095	0.00	7.50	2.003	1.102	1.593	1.008
0000095	7.50	16.55	2.003	1.102	1.593	1.008
0000095	16.55	19.45	2.003	1.102	1.593	1.008
0000095	19.45	23.40	2.003	1.102	1.593	1.008
0000095	23.40	24.47	2.003	1.102	1.593	1.008
0000095	24.47	77.40	0.485	0.361	1.303	0.836
0000095W	0.00	11.26	0.853	0.545	1.221	0.803
0000109	0.00	1.11	0.670	0.463	1.842	0.947
0000109	1.11	1.16	0.670	0.463	1.842	0.947
0000109	1.16	1.32	0.670	0.463	1.842	0.947
0000109	1.32	2.31	0.670	0.463	1.842	0.947
0000109	2.31	3.06	1.343	0.809	1.402	0.879
0000120	0.00	1.34	1.006	0.653	1.182	0.775
0000120	1.34	2.65	1.695	1.020	2.000	1.112
0000122	0.00	1.15	1.324	0.790	1.361	0.877
0000122	1.15	2.42	1.324	0.790	1.361	0.877
0000124	0.00	0.78	0.821	0.528	0.825	0.516
0000124	0.78	1.50	0.821	0.528	0.825	0.516
0000124	1.50	4.37	1.321	0.835	1.259	0.788
0000124	4.37	4.47	1.321	0.835	1.259	0.788
0000124	4.47	7.34	0.821	0.528	0.825	0.516
0000124	7.34	8.96	0.821	0.528	0.825	0.516
0000124	8.96	9.83	0.821	0.528	0.825	0.516
0000124	9.83	11.30	0.821	0.528	0.825	0.516
0000124	11.30	11.36	0.821	0.528	0.825	0.516
0000124	11.36	11.54	0.821	0.528	0.825	0.516
0000124	11.54	14.74	0.821	0.528	0.825	0.516
0000129	0.00	2.41	0.924	0.585	1.086	0.700

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000130	0.00	3.00	0.654	0.493	1.222	0.784
00000130	3.00	5.17	0.654	0.493	1.222	0.784
00000130	5.17	5.20	0.654	0.493	1.222	0.784
00000130	5.20	8.80	0.654	0.493	1.222	0.784
00000130	8.80	8.84	0.654	0.493	1.222	0.784
00000130	8.84	12.21	0.654	0.493	1.222	0.784
00000130	12.21	14.29	0.758	0.487	0.681	0.457
00000130	23.61	23.90	0.758	0.487	0.681	0.457
00000130	23.90	25.30	0.758	0.487	0.681	0.457
00000130	25.30	28.20	0.758	0.487	0.681	0.457
00000130	28.20	29.48	0.758	0.487	0.681	0.457
00000130	30.48	53.57	0.758	0.487	0.681	0.457
00000130	53.57	66.21	0.758	0.487	0.681	0.457
00000130	66.21	68.20	0.758	0.487	0.681	0.457
00000130	68.20	68.26	0.758	0.487	0.681	0.457
00000130	68.26	70.00	0.758	0.487	0.681	0.457
00000130	70.00	71.37	0.758	0.487	0.681	0.457
00000130	71.37	72.90	0.758	0.487	0.681	0.457
00000130	72.90	83.46	0.758	0.487	0.681	0.457
00000133	0.00	4.06	1.292	0.763	1.250	0.811
00000138	0.00	3.52	1.292	0.763	1.250	0.811
00000139	0.00	1.45	1.695	1.020	2.000	1.112
00000139U	0.00	0.83	1.695	1.020	2.000	1.112
00000140	0.00	0.88	0.654	0.493	1.222	0.784
00000140	0.88	0.96	0.869	0.539	1.321	0.929
00000143	0.00	2.35	0.869	0.539	1.321	0.929
00000147	0.00	0.33	0.670	0.463	1.842	0.947
00000147	0.33	0.65	1.343	0.809	1.402	0.879
00000147	0.65	3.24	1.343	0.809	1.402	0.879
00000147	3.24	3.30	1.343	0.809	1.402	0.879
00000147	3.30	4.20	1.343	0.809	1.402	0.879
00000152	0.00	0.17	0.614	0.427	1.552	0.931
00000152	0.17	1.35	0.614	0.427	1.552	0.931
00000152	1.35	1.90	0.614	0.427	1.552	0.931
00000152	1.90	2.17	0.614	0.427	1.552	0.931
00000152	2.17	3.16	0.614	0.427	1.552	0.931
00000154	0.00	1.58	0.934	0.742	1.043	0.739
00000156	0.00	1.28	0.869	0.539	1.321	0.929
00000157	0.00	0.91	0.670	0.463	1.842	0.947
00000159	0.00	0.45	0.821	0.528	0.825	0.516
00000159	0.45	0.80	1.321	0.835	1.259	0.788
00000159	0.80	1.36	1.321	0.835	1.259	0.788
00000161	0.00	1.10	1.321	0.835	1.259	0.788
00000162	0.00	0.70	0.670	0.463	1.842	0.947
00000163	0.00	0.30	1.321	0.835	1.259	0.788
00000165	0.00	0.26	1.321	0.835	1.259	0.788
00000166	0.00	0.47	0.670	0.463	1.842	0.947

**New Jersey Department of Transportation
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Traffic & Technology Section
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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000166	0.47	1.97	0.670	0.463	1.842	0.947
00000166	1.97	2.22	1.245	0.732	1.202	0.680
00000166	2.22	3.75	1.245	0.732	1.202	0.680
00000166Z	0.00	0.11	0.670	0.463	1.842	0.947
00000166Z	0.11	0.19	0.670	0.463	1.842	0.947
00000166Z	0.19	0.44	0.670	0.463	1.842	0.947
00000167	0.00	0.62	0.670	0.463	1.842	0.947
00000167	2.61	2.76	0.670	0.463	1.842	0.947
00000168	0.00	9.72	0.934	0.742	1.043	0.739
00000168	9.72	10.75	0.934	0.742	1.043	0.739
00000171	0.00	0.98	1.139	0.709	1.227	0.818
00000172	0.00	0.45	1.139	0.709	1.227	0.818
00000172	0.45	0.69	1.139	0.709	1.227	0.818
00000173	0.00	4.00	1.321	0.835	1.259	0.788
00000173	4.00	4.30	1.321	0.835	1.259	0.788
00000173	4.30	8.00	1.321	0.835	1.259	0.788
00000173	8.00	11.00	1.321	0.835	1.259	0.788
00000173	11.00	11.70	1.321	0.835	1.259	0.788
00000173	12.81	14.62	1.321	0.835	1.259	0.788
00000173Z	0.00	0.68	0.869	0.539	1.321	0.929
00000173Z	1.12	1.67	1.321	0.835	1.259	0.788
00000175	0.00	0.27	0.869	0.539	1.321	0.929
00000175	0.27	1.79	0.869	0.539	1.321	0.929
00000175	1.79	1.80	1.139	0.709	1.227	0.818
00000175	1.80	2.15	1.139	0.709	1.227	0.818
00000175	2.15	2.95	1.139	0.709	1.227	0.818
00000179	0.00	0.32	1.321	0.835	1.259	0.788
00000179	0.37	2.15	1.321	0.835	1.259	0.788
00000179	2.15	5.78	1.321	0.835	1.259	0.788
00000179	5.78	6.48	1.321	0.835	1.259	0.788
00000179	6.48	7.46	1.321	0.835	1.259	0.788
00000181	0.00	1.65	0.869	0.539	1.321	0.929
00000181	1.65	5.02	0.869	0.539	1.321	0.929
00000181	5.02	5.43	1.321	0.835	1.259	0.788
00000181	5.43	5.82	1.321	0.835	1.259	0.788
00000181	5.82	7.47	0.869	0.539	1.321	0.929
00000181Z	0.00	0.12	1.321	0.835	1.259	0.788
00000182	0.00	0.96	1.238	0.790	0.944	0.592
00000183	0.00	0.60	0.772	0.519	1.467	0.913
00000183	0.60	2.12	0.772	0.519	1.467	0.913
00000184	0.00	0.35	0.821	0.528	0.825	0.516
00000184	0.35	0.75	0.821	0.528	0.825	0.516
00000184	0.75	1.25	0.821	0.528	0.825	0.516
00000184	1.25	1.37	0.821	0.528	0.825	0.516
00000185	0.00	0.65	1.695	1.020	2.000	1.112
00000187	0.00	0.40	0.614	0.427	1.552	0.931
00000195	0.00	8.38	2.003	1.102	1.593	1.008

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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000195	8.38	16.76	2.003	1.102	1.593	1.008
00000195	16.76	34.17	2.003	1.102	1.593	1.008
00000202	0.00	0.63	0.850	0.623	1.071	0.718
00000202	0.63	5.18	0.506	0.378	0.809	0.545
00000202	5.18	24.39	0.506	0.378	0.809	0.545
00000202	24.39	24.48	0.997	0.642	1.099	0.746
00000202	24.48	31.51	0.997	0.642	1.099	0.746
00000202	31.51	32.20	1.321	0.835	1.259	0.788
00000202	32.20	32.54	1.321	0.835	1.259	0.788
00000202	32.54	33.90	1.321	0.835	1.259	0.788
00000202	33.90	37.10	1.321	0.835	1.259	0.788
00000202	37.10	39.10	1.321	0.835	1.259	0.788
00000202	39.10	44.30	1.321	0.835	1.259	0.788
00000202	44.30	44.53	1.321	0.835	1.259	0.788
00000202	44.53	44.60	0.821	0.528	0.825	0.516
00000202	44.60	47.00	0.821	0.528	0.825	0.516
00000202	47.00	51.20	0.821	0.528	0.825	0.516
00000202	51.20	51.53	0.821	0.528	0.825	0.516
00000202	51.53	53.16	1.321	0.835	1.259	0.788
00000202	53.16	53.60	1.321	0.835	1.259	0.788
00000202	53.60	54.20	1.321	0.835	1.259	0.788
00000202	54.20	55.20	1.321	0.835	1.259	0.788
00000202	55.20	56.09	1.321	0.835	1.259	0.788
00000202	56.09	60.40	1.321	0.835	1.259	0.788
00000202	60.40	62.50	1.321	0.835	1.259	0.788
00000202	62.50	62.65	1.321	0.835	1.259	0.788
00000202	62.65	62.95	1.695	1.020	2.000	1.112
00000202	62.95	65.32	1.695	1.020	2.000	1.112
00000202	65.32	67.95	1.695	1.020	2.000	1.112
00000202	67.95	68.80	1.695	1.020	2.000	1.112
00000202	68.80	70.50	1.695	1.020	2.000	1.112
00000202	70.50	80.31	1.695	1.020	2.000	1.112
00000206	0.00	6.28	0.614	0.427	1.552	0.931
00000206	6.28	11.05	1.397	0.832	1.237	0.766
00000206	11.05	26.21	1.056	0.651	0.836	0.565
00000206	26.21	29.54	1.056	0.651	0.836	0.565
00000206	29.54	35.61	1.056	0.651	0.836	0.565
00000206	36.27	38.89	0.924	0.585	1.086	0.700
00000206	38.89	43.22	0.924	0.585	1.086	0.700
00000206	43.22	45.00	0.924	0.585	1.086	0.700
00000206	45.00	48.30	0.924	0.585	1.086	0.700
00000206	48.30	50.21	0.924	0.585	1.086	0.700
00000206	50.21	52.90	0.924	0.585	1.086	0.700
00000206	52.90	53.95	0.924	0.585	1.086	0.700
00000206	53.95	54.82	0.924	0.585	1.086	0.700
00000206	54.82	57.23	0.924	0.585	1.086	0.700
00000206	57.23	63.06	0.924	0.585	1.086	0.700

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Equivalent Single Axle Load (ESAL) Design Factors

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Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000206	63.06	71.64	0.924	0.585	1.086	0.700
00000206	78.32	82.30	0.821	0.528	0.825	0.516
00000206	82.30	85.63	0.821	0.528	0.825	0.516
00000206	85.63	95.61	0.679	0.465	1.224	0.765
00000206	97.12	102.09	0.679	0.465	1.224	0.765
00000206	102.09	104.50	0.679	0.465	1.224	0.765
00000206	104.50	109.25	0.679	0.465	1.224	0.765
00000206	109.25	110.67	0.679	0.465	1.224	0.765
00000206	110.67	111.57	0.679	0.465	1.224	0.765
00000206	111.57	114.14	0.679	0.465	1.224	0.765
00000206	114.14	129.77	0.679	0.465	1.224	0.765
00000206B	0.00	2.73	0.869	0.539	1.321	0.929
00000206Z	42.57	43.34	0.924	0.585	1.086	0.700
00000206Z	43.34	45.36	0.924	0.585	1.086	0.700
00000208	0.00	10.07	0.802	0.506	0.785	0.506
00000278	0.00	2.00	0.485	0.361	1.303	0.836
00000280	0.00	17.85	0.783	0.539	0.843	0.565
00000284	0.00	0.55	1.321	0.835	1.259	0.788
00000284	0.55	2.34	1.321	0.835	1.259	0.788
00000284	2.34	7.03	1.321	0.835	1.259	0.788
00000287	0.00	5.68	0.485	0.361	1.303	0.836
00000287	5.68	6.08	0.485	0.361	1.303	0.836
00000287	6.08	10.24	0.485	0.361	1.303	0.836
00000287	10.24	20.50	2.003	1.102	1.593	1.008
00000287	20.50	21.45	1.232	0.706	0.862	0.587
00000287	21.45	30.17	0.593	0.421	1.189	0.788
00000287	30.17	53.89	0.593	0.421	1.189	0.788
00000287	53.89	57.15	0.853	0.545	1.221	0.803
00000287	57.15	67.54	0.853	0.545	1.221	0.803
00000295	0.00	5.35	0.406	0.299	1.134	0.754
00000295	5.35	8.93	1.033	0.649	1.260	0.823
00000295	8.93	51.97	1.033	0.649	1.260	0.823
00000295	51.97	52.33	1.033	0.649	1.260	0.823
00000295	52.33	56.10	1.033	0.649	1.260	0.823
00000295	56.10	76.56	1.033	0.649	1.260	0.823
00000322	0.00	2.15	0.934	0.742	1.043	0.739
00000322	2.15	4.75	0.934	0.742	1.043	0.739
00000322	4.75	8.46	0.934	0.742	1.043	0.739
00000322	8.46	10.82	0.934	0.742	1.043	0.739
00000322	10.82	12.12	0.934	0.742	1.043	0.739
00000322	12.12	15.93	0.934	0.742	1.043	0.739
00000322	15.93	17.00	0.934	0.742	1.043	0.739
00000322	17.00	17.67	0.934	0.742	1.043	0.739
00000322	17.67	18.08	0.934	0.742	1.043	0.739
00000322	18.08	19.19	0.934	0.742	1.043	0.739
00000322	19.19	22.89	0.934	0.742	1.043	0.739
00000322	22.89	24.19	0.645	0.467	1.350	0.795

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000322	24.19	34.55	0.645	0.467	1.350	0.795
00000322	34.55	37.08	0.670	0.463	1.842	0.947
00000322	37.08	43.34	0.670	0.463	1.842	0.947
00000322	43.34	50.09	0.670	0.463	1.842	0.947
00000322B	0.00	0.54	0.654	0.493	1.222	0.784
00000322B	0.54	1.53	0.654	0.493	1.222	0.784
00000324	0.00	1.51	0.869	0.539	1.321	0.929
00000347	0.00	8.33	1.343	0.809	1.402	0.879
00000413	0.00	0.76	1.225	0.716	1.311	0.825
00000439	0.00	0.68	1.695	1.020	2.000	1.112
00000439	0.68	2.44	0.821	0.528	0.825	0.516
00000439	2.44	3.95	1.695	1.020	2.000	1.112
00000440	0.00	2.77	0.850	0.623	1.071	0.718
00000440	2.77	5.15	0.850	0.623	1.071	0.718
00000440	18.00	21.91	1.695	1.020	2.000	1.112
00000440	21.91	26.18	1.695	1.020	2.000	1.112
00000444	0.00	12.09	1.292	0.763	1.250	0.811
00000444	12.09	17.22	1.292	0.763	1.250	0.811
00000444	17.22	45.94	1.292	0.763	1.250	0.811
00000444	45.94	55.71	1.292	0.763	1.250	0.811
00000444	55.71	60.76	1.292	0.763	1.250	0.811
00000444	60.76	126.98	1.292	0.763	1.250	0.811
00000444	126.98	127.85	0.850	0.623	1.071	0.718
00000444	127.85	131.80	0.850	0.623	1.071	0.718
00000444	131.80	132.80	0.850	0.623	1.071	0.718
00000444	132.80	172.40	1.006	0.653	1.182	0.775
00000444S	0.00	0.50	1.292	0.763	1.250	0.811
00000445	0.00	11.06	0.832	0.553	1.013	0.673
00000445S	0.00	0.42	1.006	0.653	1.182	0.775
00000446	0.00	14.02	1.292	0.763	1.250	0.811
00000446	14.02	25.30	1.292	0.763	1.250	0.811
00000446	25.30	29.50	1.292	0.763	1.250	0.811
00000446	29.50	30.90	1.292	0.763	1.250	0.811
00000446	30.90	44.19	1.292	0.763	1.250	0.811
00000446X	0.00	1.98	1.292	0.763	1.250	0.811
00000495	0.00	2.20	1.006	0.653	1.182	0.775
00000495	2.20	3.45	1.006	0.653	1.182	0.775
00000501	0.00	3.09	0.821	0.528	0.825	0.516
00000501	3.09	3.36	1.073	0.679	1.050	0.663
00000501	3.61	6.23	0.821	0.528	0.825	0.516
00000501	6.23	6.99	0.821	0.528	0.825	0.516
00000501	23.81	27.12	1.321	0.835	1.259	0.788
00000501	27.12	37.21	1.695	1.020	2.000	1.112
00000501	39.62	40.27	1.321	0.835	1.259	0.788
00000501	40.27	40.52	1.321	0.835	1.259	0.788
00000501	42.86	43.86	1.695	1.020	2.000	1.112
00000501	43.86	45.65	1.695	1.020	2.000	1.112

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000501	45.65	45.89	1.695	1.020	2.000	1.112
00000501	45.89	46.06	1.695	1.020	2.000	1.112
00000501	46.06	46.14	1.695	1.020	2.000	1.112
00000501	46.14	46.19	1.695	1.020	2.000	1.112
00000501	46.19	48.95	1.695	1.020	2.000	1.112
00000501	48.95	53.07	1.695	1.020	2.000	1.112
00000502	0.00	2.50	1.321	0.835	1.259	0.788
00000502	2.50	3.42	1.321	0.835	1.259	0.788
00000502	3.42	3.64	1.321	0.835	1.259	0.788
00000502	3.64	6.00	1.321	0.835	1.259	0.788
00000502	6.00	7.23	1.321	0.835	1.259	0.788
00000502	7.23	7.24	1.695	1.020	2.000	1.112
00000502	7.24	9.65	1.695	1.020	2.000	1.112
00000502	9.65	11.29	1.695	1.020	2.000	1.112
00000502	11.29	11.88	1.695	1.020	2.000	1.112
00000502	11.88	13.00	1.695	1.020	2.000	1.112
00000502	13.00	13.71	1.695	1.020	2.000	1.112
00000502	13.71	14.35	1.695	1.020	2.000	1.112
00000502	14.35	16.94	1.695	1.020	2.000	1.112
00000502	16.94	17.44	1.695	1.020	2.000	1.112
00000502	17.44	20.13	1.695	1.020	2.000	1.112
00000502	20.13	21.24	1.695	1.020	2.000	1.112
00000502	21.24	23.79	1.695	1.020	2.000	1.112
00000503	0.00	1.59	1.695	1.020	2.000	1.112
00000503	1.59	2.45	1.695	1.020	2.000	1.112
00000503	2.45	3.60	1.695	1.020	2.000	1.112
00000503	3.60	3.87	1.695	1.020	2.000	1.112
00000503	3.87	3.97	1.695	1.020	2.000	1.112
00000503	3.97	5.40	1.695	1.020	2.000	1.112
00000503	5.40	6.31	1.695	1.020	2.000	1.112
00000503	6.31	7.56	1.695	1.020	2.000	1.112
00000503	7.56	7.71	1.695	1.020	2.000	1.112
00000503	7.71	17.95	1.695	1.020	2.000	1.112
00000504	0.00	4.23	1.321	0.835	1.259	0.788
00000504	4.23	5.33	1.321	0.835	1.259	0.788
00000504	5.33	5.68	1.321	0.835	1.259	0.788
00000504	6.47	8.05	1.321	0.835	1.259	0.788
00000504	8.05	8.96	1.321	0.835	1.259	0.788
00000504	8.96	11.65	1.695	1.020	2.000	1.112
00000504	11.65	12.77	1.695	1.020	2.000	1.112
00000504	12.77	13.99	1.695	1.020	2.000	1.112
00000504	13.99	14.05	1.695	1.020	2.000	1.112
00000504	14.05	14.51	1.695	1.020	2.000	1.112
00000504	14.51	14.76	1.695	1.020	2.000	1.112
00000504	14.76	15.76	1.695	1.020	2.000	1.112
00000504	15.76	15.83	1.695	1.020	2.000	1.112
00000504	15.83	15.94	1.321	0.835	1.259	0.788

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000505	0.00	0.48	0.869	0.539	1.321	0.929
00000505	0.48	0.53	1.321	0.835	1.259	0.788
00000505	0.53	0.66	0.869	0.539	1.321	0.929
00000505	0.66	1.93	0.869	0.539	1.321	0.929
00000505	1.93	2.50	1.695	1.020	2.000	1.112
00000505	2.50	7.48	1.695	1.020	2.000	1.112
00000505	7.48	9.50	1.695	1.020	2.000	1.112
00000505	9.50	10.70	1.695	1.020	2.000	1.112
00000505	10.70	11.48	1.695	1.020	2.000	1.112
00000505	11.48	11.71	1.695	1.020	2.000	1.112
00000505	11.71	17.61	1.695	1.020	2.000	1.112
00000505	17.61	20.64	1.695	1.020	2.000	1.112
00000505Z	0.00	0.48	0.869	0.539	1.321	0.929
00000506	0.00	7.28	1.695	1.020	2.000	1.112
00000506	7.28	7.34	1.321	0.835	1.259	0.788
00000506	7.34	10.43	1.321	0.835	1.259	0.788
00000506	10.52	10.78	1.321	0.835	1.259	0.788
00000506S	0.00	3.93	1.695	1.020	2.000	1.112
00000506S	3.93	4.16	1.695	1.020	2.000	1.112
00000506S	4.16	4.30	1.695	1.020	2.000	1.112
00000506SZ	0.00	0.22	1.695	1.020	2.000	1.112
00000506SZ	0.22	0.29	1.695	1.020	2.000	1.112
00000507	0.00	2.21	1.321	0.835	1.259	0.788
00000507	3.22	4.53	1.695	1.020	2.000	1.112
00000507	4.53	7.04	1.695	1.020	2.000	1.112
00000507	7.04	7.73	1.695	1.020	2.000	1.112
00000507	7.73	8.26	1.695	1.020	2.000	1.112
00000507	8.26	8.82	1.695	1.020	2.000	1.112
00000507	8.82	9.24	1.695	1.020	2.000	1.112
00000507	9.24	9.56	1.695	1.020	2.000	1.112
00000507	9.56	14.35	1.695	1.020	2.000	1.112
00000507	14.35	15.94	1.695	1.020	2.000	1.112
00000507	15.94	18.62	1.695	1.020	2.000	1.112
00000507	18.62	19.04	1.695	1.020	2.000	1.112
00000507	19.04	20.37	1.695	1.020	2.000	1.112
00000507	20.37	20.76	1.695	1.020	2.000	1.112
00000507	21.35	24.19	1.695	1.020	2.000	1.112
00000507	24.19	24.99	1.695	1.020	2.000	1.112
00000507	24.99	26.39	1.695	1.020	2.000	1.112
00000507	26.39	28.34	1.695	1.020	2.000	1.112
00000508	0.00	1.73	0.821	0.528	0.825	0.516
00000508	1.73	3.11	0.821	0.528	0.825	0.516
00000508	3.11	6.22	0.821	0.528	0.825	0.516
00000508	6.22	6.39	1.321	0.835	1.259	0.788
00000508	6.39	6.58	1.321	0.835	1.259	0.788
00000508	6.58	6.70	1.695	1.020	2.000	1.112
00000508	6.70	11.28	1.695	1.020	2.000	1.112

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000508	11.28	11.41	1.695	1.020	2.000	1.112
00000508	11.41	11.53	1.695	1.020	2.000	1.112
00000508	12.20	12.36	1.321	0.835	1.259	0.788
00000508	12.36	14.47	1.321	0.835	1.259	0.788
00000508	14.47	16.14	1.321	0.835	1.259	0.788
00000508A	0.00	0.41	1.695	1.020	2.000	1.112
00000508S	0.00	0.31	1.695	1.020	2.000	1.112
00000509	0.00	0.61	1.321	0.835	1.259	0.788
00000509	0.61	0.95	1.321	0.835	1.259	0.788
00000509	7.03	8.99	1.321	0.835	1.259	0.788
00000509	8.99	9.40	1.321	0.835	1.259	0.788
00000509	9.40	10.02	1.321	0.835	1.259	0.788
00000509	10.02	11.87	1.321	0.835	1.259	0.788
00000509	11.87	12.41	1.321	0.835	1.259	0.788
00000509	12.41	14.30	1.321	0.835	1.259	0.788
00000509	14.30	15.22	1.321	0.835	1.259	0.788
00000509	15.22	15.51	1.321	0.835	1.259	0.788
00000509	15.51	15.93	1.321	0.835	1.259	0.788
00000509	15.93	16.45	1.321	0.835	1.259	0.788
00000509	16.45	18.58	1.321	0.835	1.259	0.788
00000509	18.58	18.59	1.695	1.020	2.000	1.112
00000509	18.59	19.46	1.321	0.835	1.259	0.788
00000509	19.46	19.83	1.321	0.835	1.259	0.788
00000509	19.83	21.04	1.321	0.835	1.259	0.788
00000509	21.04	21.56	1.321	0.835	1.259	0.788
00000509	21.56	21.81	1.321	0.835	1.259	0.788
00000509	21.81	22.91	1.321	0.835	1.259	0.788
00000509	22.91	28.92	1.321	0.835	1.259	0.788
00000509	29.38	30.46	1.695	1.020	2.000	1.112
00000509	30.46	31.22	1.695	1.020	2.000	1.112
00000509	31.22	31.26	1.695	1.020	2.000	1.112
00000509	31.26	32.43	1.695	1.020	2.000	1.112
00000509	32.43	32.61	1.695	1.020	2.000	1.112
00000509	32.61	32.81	1.695	1.020	2.000	1.112
00000509Z	0.00	0.16	1.695	1.020	2.000	1.112
00000509Z	0.16	0.38	1.695	1.020	2.000	1.112
00000509Z	2.61	2.87	1.695	1.020	2.000	1.112
00000510	0.00	0.30	1.321	0.835	1.259	0.788
00000510	0.30	2.82	1.321	0.835	1.259	0.788
00000510	2.82	3.45	1.321	0.835	1.259	0.788
00000510	3.45	3.90	1.321	0.835	1.259	0.788
00000510	3.90	4.83	1.321	0.835	1.259	0.788
00000510	4.83	8.11	1.321	0.835	1.259	0.788
00000510	8.11	10.94	1.321	0.835	1.259	0.788
00000510	10.94	11.65	1.321	0.835	1.259	0.788
00000510	11.80	12.91	0.821	0.528	0.825	0.516
00000510	12.91	14.33	0.821	0.528	0.825	0.516

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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	14.33	17.85	0.821	0.528	0.825	0.516
00000510	17.85	28.80	0.821	0.528	0.825	0.516
00000510	28.80	28.99	1.695	1.020	2.000	1.112
00000510	28.99	29.58	1.695	1.020	2.000	1.112
00000510Z	0.00	0.10	0.821	0.528	0.825	0.516
00000510Z	0.10	0.30	0.821	0.528	0.825	0.516
00000510Z	0.30	1.21	0.821	0.528	0.825	0.516
00000511	0.10	2.92	1.321	0.835	1.259	0.788
00000511	2.92	6.30	1.321	0.835	1.259	0.788
00000511	9.39	9.70	1.321	0.835	1.259	0.788
00000511	9.70	10.19	1.321	0.835	1.259	0.788
00000511	10.19	17.11	0.869	0.539	1.321	0.929
00000511	17.11	17.87	1.321	0.835	1.259	0.788
00000511	17.87	17.94	1.321	0.835	1.259	0.788
00000511	17.94	17.99	1.321	0.835	1.259	0.788
00000511	17.99	18.03	1.321	0.835	1.259	0.788
00000511	18.03	18.12	1.321	0.835	1.259	0.788
00000511	18.12	18.84	1.321	0.835	1.259	0.788
00000511	18.84	21.13	1.321	0.835	1.259	0.788
00000511	21.13	25.52	1.695	1.020	2.000	1.112
00000511	25.52	28.26	1.695	1.020	2.000	1.112
00000511	28.26	32.72	1.321	0.835	1.259	0.788
00000511	32.72	34.90	1.321	0.835	1.259	0.788
00000511	34.90	37.44	1.321	0.835	1.259	0.788
00000511A	2.38	3.60	1.321	0.835	1.259	0.788
00000511A	3.60	3.96	1.321	0.835	1.259	0.788
00000511A	3.96	4.03	1.321	0.835	1.259	0.788
00000511A	4.03	6.77	1.321	0.835	1.259	0.788
00000511A	6.96	7.93	1.321	0.835	1.259	0.788
00000511A	7.93	8.47	1.695	1.020	2.000	1.112
00000511A	8.47	9.77	1.695	1.020	2.000	1.112
00000512	0.00	0.58	0.869	0.539	1.321	0.929
00000512	0.58	3.42	0.869	0.539	1.321	0.929
00000512	3.42	5.75	0.869	0.539	1.321	0.929
00000512	5.75	7.64	0.869	0.539	1.321	0.929
00000512	7.64	10.13	0.869	0.539	1.321	0.929
00000512	10.13	10.74	0.869	0.539	1.321	0.929
00000512	10.74	13.17	0.869	0.539	1.321	0.929
00000512	13.17	13.99	0.869	0.539	1.321	0.929
00000512	14.25	17.46	0.869	0.539	1.321	0.929
00000512	17.46	18.08	0.869	0.539	1.321	0.929
00000512	18.08	18.56	0.869	0.539	1.321	0.929
00000512	18.56	25.70	1.321	0.835	1.259	0.788
00000512	25.70	31.08	1.321	0.835	1.259	0.788
00000512	31.08	31.16	1.321	0.835	1.259	0.788
00000512	31.16	32.96	1.321	0.835	1.259	0.788
00000513	0.00	0.05	1.321	0.835	1.259	0.788

**New Jersey Department of Transportation
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Traffic & Technology Section
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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	0.05	7.43	1.321	0.835	1.259	0.788
00000513	7.43	10.37	1.321	0.835	1.259	0.788
00000513	10.37	11.45	1.321	0.835	1.259	0.788
00000513	12.13	12.23	0.869	0.539	1.321	0.929
00000513	12.23	12.98	0.869	0.539	1.321	0.929
00000513	13.64	14.79	0.869	0.539	1.321	0.929
00000513	14.79	14.86	0.869	0.539	1.321	0.929
00000513	14.86	15.05	0.869	0.539	1.321	0.929
00000513	15.05	15.09	0.869	0.539	1.321	0.929
00000513	15.09	15.97	0.869	0.539	1.321	0.929
00000513	15.97	20.07	0.869	0.539	1.321	0.929
00000513	20.07	21.94	0.869	0.539	1.321	0.929
00000513	21.94	25.85	0.869	0.539	1.321	0.929
00000513	25.85	25.86	0.869	0.539	1.321	0.929
00000513	25.86	26.87	0.869	0.539	1.321	0.929
00000513	26.87	28.16	0.869	0.539	1.321	0.929
00000513	28.16	28.40	0.869	0.539	1.321	0.929
00000513	28.40	29.84	0.869	0.539	1.321	0.929
00000513	29.84	30.32	0.869	0.539	1.321	0.929
00000513	30.32	31.32	1.321	0.835	1.259	0.788
00000513	31.32	35.15	1.321	0.835	1.259	0.788
00000513	35.15	39.17	1.321	0.835	1.259	0.788
00000513	39.17	39.53	1.321	0.835	1.259	0.788
00000513	39.53	40.47	1.321	0.835	1.259	0.788
00000513	40.47	41.13	1.321	0.835	1.259	0.788
00000513	41.13	41.29	1.321	0.835	1.259	0.788
00000513	41.29	42.72	1.321	0.835	1.259	0.788
00000513	42.72	43.13	1.321	0.835	1.259	0.788
00000513	43.13	44.52	1.321	0.835	1.259	0.788
00000513	44.52	44.58	1.321	0.835	1.259	0.788
00000513	44.58	44.90	1.321	0.835	1.259	0.788
00000513	44.90	45.00	1.321	0.835	1.259	0.788
00000513	45.00	45.37	1.321	0.835	1.259	0.788
00000513	45.37	53.56	1.321	0.835	1.259	0.788
00000513	53.56	57.14	1.321	0.835	1.259	0.788
00000513	57.56	57.97	1.321	0.835	1.259	0.788
00000513	57.97	66.83	1.321	0.835	1.259	0.788
00000514	0.00	3.43	0.869	0.539	1.321	0.929
00000514	3.43	5.65	0.869	0.539	1.321	0.929
00000514	5.65	8.94	0.869	0.539	1.321	0.929
00000514	8.94	10.38	0.869	0.539	1.321	0.929
00000514	10.38	21.07	1.139	0.709	1.227	0.818
00000514	21.07	24.62	1.139	0.709	1.227	0.818
00000514	24.62	25.01	1.139	0.709	1.227	0.818
00000514	25.97	32.32	0.821	0.528	0.825	0.516
00000514	32.32	34.71	0.821	0.528	0.825	0.516
00000514	34.71	35.25	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000514	35.25	38.55	1.321	0.835	1.259	0.788
00000514	38.55	38.92	1.321	0.835	1.259	0.788
00000514	38.92	39.12	1.321	0.835	1.259	0.788
00000514	39.12	42.53	1.321	0.835	1.259	0.788
00000514	42.53	42.71	1.321	0.835	1.259	0.788
00000514	42.71	43.01	0.869	0.539	1.321	0.929
00000514	43.01	43.42	0.869	0.539	1.321	0.929
00000514C	0.00	0.03	1.139	0.709	1.227	0.818
00000514C	0.03	0.05	0.869	0.539	1.321	0.929
00000514S	0.00	0.25	0.869	0.539	1.321	0.929
00000514S	0.27	0.52	0.869	0.539	1.321	0.929
00000515	0.00	6.00	1.321	0.835	1.259	0.788
00000515	6.00	8.55	1.321	0.835	1.259	0.788
00000515	10.76	13.06	0.869	0.539	1.321	0.929
00000516	0.00	6.90	1.139	0.709	1.227	0.818
00000516	6.90	8.13	0.670	0.463	1.842	0.947
00000516	8.13	8.78	0.670	0.463	1.842	0.947
00000516	8.78	9.42	0.670	0.463	1.842	0.947
00000516	9.42	10.27	0.670	0.463	1.842	0.947
00000516	10.27	10.65	0.670	0.463	1.842	0.947
00000516	10.65	13.15	0.670	0.463	1.842	0.947
00000516	13.15	13.89	0.670	0.463	1.842	0.947
00000516	14.32	16.04	0.670	0.463	1.842	0.947
00000516	16.04	16.52	0.670	0.463	1.842	0.947
00000516	16.52	19.27	0.670	0.463	1.842	0.947
00000516S	0.00	0.30	0.670	0.463	1.842	0.947
00000516Z	0.00	0.90	0.670	0.463	1.842	0.947
00000517	0.00	0.45	0.869	0.539	1.321	0.929
00000517	0.45	6.16	0.869	0.539	1.321	0.929
00000517	6.16	10.14	0.869	0.539	1.321	0.929
00000517	10.14	14.45	0.869	0.539	1.321	0.929
00000517	15.85	16.88	1.321	0.835	1.259	0.788
00000517	16.88	20.48	1.321	0.835	1.259	0.788
00000517	20.48	22.36	1.321	0.835	1.259	0.788
00000517	22.36	25.90	1.321	0.835	1.259	0.788
00000517	25.90	26.00	1.321	0.835	1.259	0.788
00000517	26.00	26.85	1.321	0.835	1.259	0.788
00000517	26.85	27.04	1.321	0.835	1.259	0.788
00000517	27.12	27.75	1.321	0.835	1.259	0.788
00000517	27.75	32.71	1.321	0.835	1.259	0.788
00000517	32.71	33.00	1.321	0.835	1.259	0.788
00000517	33.00	35.55	1.321	0.835	1.259	0.788
00000517	35.55	36.91	1.321	0.835	1.259	0.788
00000517	36.91	38.60	1.321	0.835	1.259	0.788
00000517	38.60	39.84	1.321	0.835	1.259	0.788
00000517	42.54	43.13	0.869	0.539	1.321	0.929
00000517	43.13	46.45	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	46.84	50.66	0.869	0.539	1.321	0.929
00000517	50.66	53.43	0.869	0.539	1.321	0.929
00000517	53.43	53.86	0.869	0.539	1.321	0.929
00000518	0.00	0.80	0.869	0.539	1.321	0.929
00000518	0.80	0.92	0.869	0.539	1.321	0.929
00000518	0.92	4.53	0.869	0.539	1.321	0.929
00000518	4.53	7.21	0.869	0.539	1.321	0.929
00000518	7.21	9.09	1.139	0.709	1.227	0.818
00000518	9.09	9.52	1.139	0.709	1.227	0.818
00000518	9.52	10.04	1.139	0.709	1.227	0.818
00000518	10.04	10.48	1.139	0.709	1.227	0.818
00000518	10.48	13.74	1.139	0.709	1.227	0.818
00000518	13.74	16.78	1.139	0.709	1.227	0.818
00000518	16.78	20.58	1.139	0.709	1.227	0.818
00000519	0.00	0.15	0.869	0.539	1.321	0.929
00000519	0.15	8.81	0.869	0.539	1.321	0.929
00000519	8.81	11.78	0.869	0.539	1.321	0.929
00000519	11.78	14.86	0.869	0.539	1.321	0.929
00000519	14.86	17.43	0.869	0.539	1.321	0.929
00000519	17.43	17.52	1.321	0.835	1.259	0.788
00000519	17.52	25.35	1.321	0.835	1.259	0.788
00000519	25.35	26.22	1.321	0.835	1.259	0.788
00000519	26.22	27.29	1.321	0.835	1.259	0.788
00000519	27.29	27.36	1.321	0.835	1.259	0.788
00000519	27.59	28.42	1.321	0.835	1.259	0.788
00000519	28.42	32.27	1.321	0.835	1.259	0.788
00000519	32.27	38.62	1.321	0.835	1.259	0.788
00000519	38.62	42.05	1.321	0.835	1.259	0.788
00000519	42.05	45.38	1.321	0.835	1.259	0.788
00000519	45.38	48.41	1.321	0.835	1.259	0.788
00000519	48.41	48.52	0.869	0.539	1.321	0.929
00000519	48.52	54.93	0.869	0.539	1.321	0.929
00000519	54.93	56.33	0.869	0.539	1.321	0.929
00000519	56.33	57.00	0.869	0.539	1.321	0.929
00000519	57.00	59.24	0.869	0.539	1.321	0.929
00000519	59.24	63.62	0.869	0.539	1.321	0.929
00000519	63.62	64.42	0.869	0.539	1.321	0.929
00000519	64.94	65.78	0.869	0.539	1.321	0.929
00000519	65.78	65.90	0.869	0.539	1.321	0.929
00000519	65.90	69.30	0.869	0.539	1.321	0.929
00000519	69.30	69.96	0.869	0.539	1.321	0.929
00000519	69.96	71.65	0.869	0.539	1.321	0.929
00000519	71.65	72.00	0.869	0.539	1.321	0.929
00000519	72.00	77.66	0.869	0.539	1.321	0.929
00000519	77.66	83.70	0.869	0.539	1.321	0.929
00000519	85.91	88.54	0.869	0.539	1.321	0.929
00000520	0.00	2.06	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000520	2.06	10.25	0.670	0.463	1.842	0.947
00000520	10.25	10.99	0.670	0.463	1.842	0.947
00000520	10.99	14.86	0.670	0.463	1.842	0.947
00000520	14.86	16.81	1.073	0.679	1.050	0.663
00000520	16.84	16.94	0.670	0.463	1.842	0.947
00000520	16.94	17.51	0.670	0.463	1.842	0.947
00000520	17.51	17.84	0.670	0.463	1.842	0.947
00000520	17.84	22.39	0.670	0.463	1.842	0.947
00000521	0.00	1.14	1.321	0.835	1.259	0.788
00000521	1.14	6.09	0.869	0.539	1.321	0.929
00000521	6.35	11.26	0.869	0.539	1.321	0.929
00000521	11.26	12.19	0.869	0.539	1.321	0.929
00000521	12.19	16.09	0.869	0.539	1.321	0.929
00000521	16.09	20.67	0.869	0.539	1.321	0.929
00000521	20.67	23.85	0.869	0.539	1.321	0.929
00000521	23.85	24.98	0.869	0.539	1.321	0.929
00000521	24.98	27.06	0.869	0.539	1.321	0.929
00000521	36.71	43.71	0.869	0.539	1.321	0.929
00000522	0.00	3.71	1.139	0.709	1.227	0.818
00000522	3.71	5.35	1.139	0.709	1.227	0.818
00000522	5.74	8.06	1.139	0.709	1.227	0.818
00000522	8.06	9.61	1.139	0.709	1.227	0.818
00000522	9.61	10.26	1.139	0.709	1.227	0.818
00000522	10.26	15.06	1.139	0.709	1.227	0.818
00000522	15.06	15.54	1.139	0.709	1.227	0.818
00000522	15.54	15.72	1.139	0.709	1.227	0.818
00000522	15.72	15.83	1.139	0.709	1.227	0.818
00000522	15.83	19.40	1.139	0.709	1.227	0.818
00000522	19.40	20.41	1.139	0.709	1.227	0.818
00000522	20.41	20.99	1.139	0.709	1.227	0.818
00000523	0.00	0.28	0.869	0.539	1.321	0.929
00000523	0.28	6.39	0.869	0.539	1.321	0.929
00000523	6.39	9.13	0.869	0.539	1.321	0.929
00000523	9.13	9.33	1.321	0.835	1.259	0.788
00000523	9.33	9.75	1.321	0.835	1.259	0.788
00000523	9.75	10.23	1.321	0.835	1.259	0.788
00000523	10.23	10.35	1.321	0.835	1.259	0.788
00000523	10.35	11.72	1.321	0.835	1.259	0.788
00000523	11.72	12.66	1.321	0.835	1.259	0.788
00000523	12.66	14.11	1.321	0.835	1.259	0.788
00000523	14.11	15.67	1.321	0.835	1.259	0.788
00000523	15.67	19.48	1.321	0.835	1.259	0.788
00000523	19.48	20.36	1.321	0.835	1.259	0.788
00000523	20.55	22.42	1.321	0.835	1.259	0.788
00000523	22.42	22.84	0.869	0.539	1.321	0.929
00000523	22.84	23.68	0.869	0.539	1.321	0.929
00000523	23.68	29.16	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000523	29.16	29.55	0.869	0.539	1.321	0.929
00000524	0.00	1.91	0.758	0.487	0.681	0.457
00000524	1.91	6.21	1.139	0.709	1.227	0.818
00000524	6.21	6.81	1.139	0.709	1.227	0.818
00000524	6.81	7.04	0.869	0.539	1.321	0.929
00000524	7.04	7.26	0.869	0.539	1.321	0.929
00000524	7.26	7.91	0.869	0.539	1.321	0.929
00000524	7.91	14.74	0.869	0.539	1.321	0.929
00000524	14.74	14.81	0.869	0.539	1.321	0.929
00000524	14.81	15.84	0.869	0.539	1.321	0.929
00000524	15.84	18.10	0.869	0.539	1.321	0.929
00000524	18.10	20.00	0.869	0.539	1.321	0.929
00000524	20.00	20.41	1.139	0.709	1.227	0.818
00000524	20.41	21.23	1.139	0.709	1.227	0.818
00000524	21.23	25.52	1.139	0.709	1.227	0.818
00000524	25.52	29.79	0.869	0.539	1.321	0.929
00000524	29.79	30.53	0.869	0.539	1.321	0.929
00000524	30.53	32.04	0.869	0.539	1.321	0.929
00000524	32.04	33.05	0.869	0.539	1.321	0.929
00000524	33.05	35.03	0.869	0.539	1.321	0.929
00000524	35.03	35.90	0.869	0.539	1.321	0.929
00000524	35.90	36.08	0.670	0.463	1.842	0.947
00000524	36.08	36.29	0.869	0.539	1.321	0.929
00000524	36.29	36.63	0.869	0.539	1.321	0.929
00000524	36.63	39.90	0.670	0.463	1.842	0.947
00000524A	0.00	3.74	0.869	0.539	1.321	0.929
00000524S	0.00	3.39	0.670	0.463	1.842	0.947
00000525	0.00	1.03	0.869	0.539	1.321	0.929
00000525	1.03	2.72	0.869	0.539	1.321	0.929
00000525	2.72	2.99	1.139	0.709	1.227	0.818
00000525	2.99	3.81	1.139	0.709	1.227	0.818
00000525	3.81	4.15	1.321	0.835	1.259	0.788
00000525	4.15	4.98	1.321	0.835	1.259	0.788
00000525	4.98	7.22	1.321	0.835	1.259	0.788
00000525	7.22	11.56	1.321	0.835	1.259	0.788
00000525	11.56	12.41	1.321	0.835	1.259	0.788
00000525	12.41	15.15	1.321	0.835	1.259	0.788
00000525	15.15	15.61	1.321	0.835	1.259	0.788
00000525	15.61	16.88	1.321	0.835	1.259	0.788
00000526	0.00	0.68	1.139	0.709	1.227	0.818
00000526	0.68	1.03	1.139	0.709	1.227	0.818
00000526	1.03	3.04	1.139	0.709	1.227	0.818
00000526	3.04	3.42	1.139	0.709	1.227	0.818
00000526	3.42	3.64	1.139	0.709	1.227	0.818
00000526	3.64	6.58	1.139	0.709	1.227	0.818
00000526	6.58	7.02	1.139	0.709	1.227	0.818
00000526	7.02	7.37	1.139	0.709	1.227	0.818
00000526	7.37	10.19	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	10.19	10.50	1.139	0.709	1.227	0.818
00000526	10.52	11.40	0.869	0.539	1.321	0.929
00000526	11.40	17.47	0.869	0.539	1.321	0.929
00000526	17.47	18.62	0.869	0.539	1.321	0.929
00000526	18.62	19.61	0.869	0.539	1.321	0.929
00000526	19.61	20.07	0.869	0.539	1.321	0.929
00000526	20.07	20.08	0.869	0.539	1.321	0.929
00000526	20.08	20.42	1.139	0.709	1.227	0.818
00000526	20.42	24.94	1.139	0.709	1.227	0.818
00000526	24.94	25.27	1.139	0.709	1.227	0.818
00000526	25.27	25.37	1.139	0.709	1.227	0.818
00000526	25.37	26.96	1.139	0.709	1.227	0.818
00000526	26.96	27.74	1.139	0.709	1.227	0.818
00000526	27.74	31.73	0.670	0.463	1.842	0.947
00000526	31.73	34.56	1.245	0.732	1.202	0.680
00000526	34.56	35.56	1.245	0.732	1.202	0.680
00000526A	0.00	0.44	0.869	0.539	1.321	0.929
00000527	0.11	0.85	0.670	0.463	1.842	0.947
00000527	0.85	1.97	0.670	0.463	1.842	0.947
00000527	1.97	3.76	0.869	0.539	1.321	0.929
00000527	3.76	4.10	0.869	0.539	1.321	0.929
00000527	4.10	11.71	0.670	0.463	1.842	0.947
00000527	11.71	15.49	1.139	0.709	1.227	0.818
00000527	15.49	18.47	1.139	0.709	1.227	0.818
00000527	18.47	19.59	0.869	0.539	1.321	0.929
00000527	19.59	21.59	0.869	0.539	1.321	0.929
00000527	21.59	22.43	0.869	0.539	1.321	0.929
00000527	22.43	23.03	0.869	0.539	1.321	0.929
00000527	23.03	24.38	0.869	0.539	1.321	0.929
00000527	24.38	26.61	0.869	0.539	1.321	0.929
00000527	26.61	27.02	1.139	0.709	1.227	0.818
00000527	27.02	28.09	1.139	0.709	1.227	0.818
00000527	28.09	29.28	1.139	0.709	1.227	0.818
00000527	29.28	29.40	1.139	0.709	1.227	0.818
00000527	29.40	29.61	1.139	0.709	1.227	0.818
00000527	29.61	29.84	1.139	0.709	1.227	0.818
00000527	29.84	29.97	1.139	0.709	1.227	0.818
00000527	30.08	30.57	1.139	0.709	1.227	0.818
00000527	30.57	33.61	1.139	0.709	1.227	0.818
00000527	33.61	35.90	1.139	0.709	1.227	0.818
00000527	35.90	37.86	1.139	0.709	1.227	0.818
00000527	38.04	38.50	0.869	0.539	1.321	0.929
00000527	38.50	38.68	0.869	0.539	1.321	0.929
00000527	38.68	42.92	1.139	0.709	1.227	0.818
00000527	46.04	46.73	1.139	0.709	1.227	0.818
00000527	46.84	51.58	0.924	0.585	1.086	0.700
00000527	51.58	52.49	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	52.49	53.36	1.139	0.709	1.227	0.818
00000527	53.36	53.59	1.139	0.709	1.227	0.818
00000527	53.59	55.91	1.139	0.709	1.227	0.818
00000527	55.91	57.10	1.321	0.835	1.259	0.788
00000527	57.10	57.72	1.321	0.835	1.259	0.788
00000527	57.72	58.20	1.321	0.835	1.259	0.788
00000527	58.20	61.05	1.321	0.835	1.259	0.788
00000527	61.05	64.46	1.321	0.835	1.259	0.788
00000527	64.46	68.64	1.321	0.835	1.259	0.788
00000527	68.64	69.30	1.321	0.835	1.259	0.788
00000527	69.30	70.08	1.321	0.835	1.259	0.788
00000527	70.10	71.19	0.821	0.528	0.825	0.516
00000527	71.19	71.33	1.321	0.835	1.259	0.788
00000527	71.33	74.38	1.321	0.835	1.259	0.788
00000527	74.38	75.54	1.321	0.835	1.259	0.788
00000527	75.54	76.48	0.869	0.539	1.321	0.929
00000527	76.48	76.90	0.821	0.528	0.825	0.516
00000527	76.90	78.17	0.821	0.528	0.825	0.516
00000527	78.17	79.02	1.321	0.835	1.259	0.788
00000527	79.02	79.05	1.321	0.835	1.259	0.788
00000527	79.05	79.18	1.321	0.835	1.259	0.788
00000527	79.18	80.79	1.321	0.835	1.259	0.788
00000527	81.41	84.80	1.321	0.835	1.259	0.788
00000527	84.80	84.86	1.321	0.835	1.259	0.788
00000527A	0.00	2.87	0.869	0.539	1.321	0.929
00000527A	2.87	2.89	0.869	0.539	1.321	0.929
00000527A	2.89	5.35	0.869	0.539	1.321	0.929
00000527A	5.35	5.74	0.869	0.539	1.321	0.929
00000527A	5.74	5.92	0.869	0.539	1.321	0.929
00000527Z	0.00	0.26	0.821	0.528	0.825	0.516
00000527Z	0.26	0.30	0.821	0.528	0.825	0.516
00000528	0.00	2.95	0.869	0.539	1.321	0.929
00000528	2.95	5.74	0.869	0.539	1.321	0.929
00000528	5.74	8.85	0.869	0.539	1.321	0.929
00000528	8.85	9.30	0.869	0.539	1.321	0.929
00000528	9.30	11.59	0.869	0.539	1.321	0.929
00000528	11.59	12.02	0.869	0.539	1.321	0.929
00000528	12.02	16.06	0.869	0.539	1.321	0.929
00000528	16.06	17.29	0.869	0.539	1.321	0.929
00000528	17.29	18.18	0.869	0.539	1.321	0.929
00000528	18.18	19.92	0.869	0.539	1.321	0.929
00000528	19.92	22.46	1.139	0.709	1.227	0.818
00000528	26.20	27.96	1.139	0.709	1.227	0.818
00000528	27.96	29.09	0.670	0.463	1.842	0.947
00000528	29.09	30.25	0.670	0.463	1.842	0.947
00000528	30.25	30.39	1.245	0.732	1.202	0.680
00000528	30.39	34.94	1.245	0.732	1.202	0.680

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000528	34.94	35.78	0.670	0.463	1.842	0.947
00000528	35.78	39.64	0.670	0.463	1.842	0.947
00000528	39.64	39.89	0.670	0.463	1.842	0.947
00000529	0.00	0.25	1.139	0.709	1.227	0.818
00000529	0.25	3.59	0.821	0.528	0.825	0.516
00000529	3.59	5.31	0.821	0.528	0.825	0.516
00000529	5.31	7.16	0.821	0.528	0.825	0.516
00000529	7.16	7.53	0.821	0.528	0.825	0.516
00000529	7.53	7.54	1.321	0.835	1.259	0.788
00000529	7.54	8.41	1.321	0.835	1.259	0.788
00000529	8.41	8.58	1.321	0.835	1.259	0.788
00000529	8.58	9.44	0.869	0.539	1.321	0.929
00000529	9.44	10.07	0.869	0.539	1.321	0.929
00000529	10.07	10.57	0.869	0.539	1.321	0.929
00000530	0.00	2.68	1.056	0.651	0.836	0.565
00000530	2.68	4.85	1.056	0.651	0.836	0.565
00000530	4.85	6.12	1.056	0.651	0.836	0.565
00000530	6.12	8.48	1.056	0.651	0.836	0.565
00000530	8.48	8.78	1.056	0.651	0.836	0.565
00000530	8.78	14.28	1.056	0.651	0.836	0.565
00000530	19.41	19.90	1.139	0.709	1.227	0.818
00000530	19.90	27.29	0.670	0.463	1.842	0.947
00000530	27.29	30.67	0.670	0.463	1.842	0.947
00000530	30.67	31.21	0.670	0.463	1.842	0.947
00000531	0.00	2.49	0.670	0.463	1.842	0.947
00000531	2.49	3.43	1.139	0.709	1.227	0.818
00000531	3.43	8.65	1.321	0.835	1.259	0.788
00000531	8.65	8.82	1.321	0.835	1.259	0.788
00000531	8.82	8.91	1.321	0.835	1.259	0.788
00000531	8.91	10.82	1.321	0.835	1.259	0.788
00000531	10.90	13.59	1.321	0.835	1.259	0.788
00000531	13.59	13.61	1.321	0.835	1.259	0.788
00000531Z	0.00	1.19	1.321	0.835	1.259	0.788
00000532	0.00	2.83	1.139	0.709	1.227	0.818
00000532	2.83	4.05	1.139	0.709	1.227	0.818
00000532	4.05	5.35	0.869	0.539	1.321	0.929
00000532	5.35	7.20	0.869	0.539	1.321	0.929
00000532	7.20	19.43	0.869	0.539	1.321	0.929
00000532	27.09	32.97	0.869	0.539	1.321	0.929
00000532	32.97	33.04	0.869	0.539	1.321	0.929
00000532	33.04	33.91	0.670	0.463	1.842	0.947
00000532	33.91	35.19	0.670	0.463	1.842	0.947
00000533	0.00	1.41	1.139	0.709	1.227	0.818
00000533	1.41	3.51	1.139	0.709	1.227	0.818
00000533	3.51	8.41	1.139	0.709	1.227	0.818
00000533	8.41	8.65	0.869	0.539	1.321	0.929
00000533	8.65	10.42	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000533	10.42	10.88	0.869	0.539	1.321	0.929
00000533	17.33	17.47	0.869	0.539	1.321	0.929
00000533	17.47	22.61	0.869	0.539	1.321	0.929
00000533	22.61	25.14	0.869	0.539	1.321	0.929
00000533	25.14	25.52	0.869	0.539	1.321	0.929
00000533	25.52	26.41	1.139	0.709	1.227	0.818
00000533	26.41	27.39	1.139	0.709	1.227	0.818
00000533	27.39	28.72	1.139	0.709	1.227	0.818
00000533	28.72	29.69	1.139	0.709	1.227	0.818
00000533	29.69	29.89	1.139	0.709	1.227	0.818
00000533	29.89	31.49	1.139	0.709	1.227	0.818
00000533	31.49	32.06	1.139	0.709	1.227	0.818
00000533	32.06	32.14	1.139	0.709	1.227	0.818
00000533	32.14	32.36	1.139	0.709	1.227	0.818
00000533	32.60	32.78	1.139	0.709	1.227	0.818
00000533S	0.00	0.45	1.139	0.709	1.227	0.818
00000533Z	0.00	0.14	0.869	0.539	1.321	0.929
00000534	0.00	0.99	0.934	0.742	1.043	0.739
00000534	0.99	1.17	0.654	0.493	1.222	0.784
00000534	1.17	3.88	0.869	0.539	1.321	0.929
00000534	3.88	4.00	0.654	0.493	1.222	0.784
00000534	4.00	4.42	0.654	0.493	1.222	0.784
00000534	4.42	5.13	0.934	0.742	1.043	0.739
00000534	5.13	8.01	0.934	0.742	1.043	0.739
00000534	8.01	8.51	0.934	0.742	1.043	0.739
00000534	8.51	11.45	1.139	0.709	1.227	0.818
00000534	12.23	17.16	1.139	0.709	1.227	0.818
00000534	17.16	19.26	0.869	0.539	1.321	0.929
00000534	19.26	20.88	0.869	0.539	1.321	0.929
00000534	20.88	22.80	0.869	0.539	1.321	0.929
00000535	0.00	2.00	1.139	0.709	1.227	0.818
00000535	2.00	3.31	1.139	0.709	1.227	0.818
00000535	3.31	3.44	1.139	0.709	1.227	0.818
00000535	3.44	6.41	1.139	0.709	1.227	0.818
00000535	6.41	7.41	1.139	0.709	1.227	0.818
00000535	7.60	13.55	1.139	0.709	1.227	0.818
00000535	13.55	13.74	0.869	0.539	1.321	0.929
00000535	13.74	14.15	0.869	0.539	1.321	0.929
00000535	14.15	14.54	0.869	0.539	1.321	0.929
00000535	14.54	14.73	1.139	0.709	1.227	0.818
00000535	14.73	14.78	1.139	0.709	1.227	0.818
00000535	14.78	14.85	1.139	0.709	1.227	0.818
00000535	14.94	15.77	0.758	0.487	0.681	0.457
00000535	15.77	17.41	0.758	0.487	0.681	0.457
00000535	17.41	20.51	0.758	0.487	0.681	0.457
00000535	20.51	25.82	0.758	0.487	0.681	0.457
00000535	25.82	26.47	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	26.47	27.88	1.139	0.709	1.227	0.818
00000535	27.88	31.73	0.670	0.463	1.842	0.947
00000535	31.73	32.27	0.670	0.463	1.842	0.947
00000535	32.27	32.31	0.869	0.539	1.321	0.929
00000535Z	0.00	0.05	0.869	0.539	1.321	0.929
00000535Z	0.17	0.27	1.139	0.709	1.227	0.818
00000536	24.24	24.38	0.654	0.493	1.222	0.784
00000536	24.38	24.77	0.654	0.493	1.222	0.784
00000536	24.77	27.73	1.139	0.709	1.227	0.818
00000536	27.73	30.18	1.139	0.709	1.227	0.818
00000536	30.18	32.47	0.869	0.539	1.321	0.929
00000536	32.55	33.08	1.139	0.709	1.227	0.818
00000536	33.08	34.38	0.869	0.539	1.321	0.929
00000536	34.38	37.66	0.869	0.539	1.321	0.929
00000536	37.66	38.52	0.869	0.539	1.321	0.929
000005361	0.00	0.08	0.869	0.539	1.321	0.929
00000536S	0.00	1.54	0.645	0.467	1.350	0.795
00000536S	1.54	1.67	1.139	0.709	1.227	0.818
00000536S	1.67	5.96	1.139	0.709	1.227	0.818
00000536S	5.96	7.31	1.139	0.709	1.227	0.818
00000536S	7.31	7.57	1.139	0.709	1.227	0.818
00000536S	8.25	8.63	1.139	0.709	1.227	0.818
00000537	0.00	0.17	0.869	0.539	1.321	0.929
00000537	0.17	0.52	0.654	0.493	1.222	0.784
00000537	0.52	0.64	0.934	0.742	1.043	0.739
00000537	0.64	3.66	0.654	0.493	1.222	0.784
00000537	3.66	4.10	1.139	0.709	1.227	0.818
00000537	4.10	4.53	1.139	0.709	1.227	0.818
00000537	4.53	5.11	1.139	0.709	1.227	0.818
00000537	5.11	6.64	1.139	0.709	1.227	0.818
00000537	6.64	7.04	1.139	0.709	1.227	0.818
00000537	7.04	7.87	1.139	0.709	1.227	0.818
00000537	7.87	9.39	1.139	0.709	1.227	0.818
00000537	9.39	10.90	1.139	0.709	1.227	0.818
00000537	10.90	11.37	1.139	0.709	1.227	0.818
00000537	11.37	12.15	1.139	0.709	1.227	0.818
00000537	12.15	12.36	1.139	0.709	1.227	0.818
00000537	12.36	18.11	1.139	0.709	1.227	0.818
00000537	18.11	18.81	1.139	0.709	1.227	0.818
00000537	18.81	19.50	1.139	0.709	1.227	0.818
00000537	19.50	19.94	1.139	0.709	1.227	0.818
00000537	19.94	21.61	1.139	0.709	1.227	0.818
00000537	21.61	27.34	1.139	0.709	1.227	0.818
00000537	27.34	28.52	1.139	0.709	1.227	0.818
00000537	28.52	29.44	1.139	0.709	1.227	0.818
00000537	29.44	31.31	1.139	0.709	1.227	0.818
00000537	31.31	38.44	1.139	0.709	1.227	0.818

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	38.44	41.67	1.139	0.709	1.227	0.818
00000537	41.67	44.26	1.139	0.709	1.227	0.818
00000537	44.26	46.31	1.139	0.709	1.227	0.818
00000537	47.54	48.16	1.139	0.709	1.227	0.818
00000537	48.16	50.81	1.139	0.709	1.227	0.818
00000537	50.81	52.20	0.851	0.553	0.828	0.536
00000537	52.38	52.87	0.851	0.553	0.828	0.536
00000537	52.87	55.24	0.851	0.553	0.828	0.536
00000537	55.24	61.78	1.139	0.709	1.227	0.818
00000537	61.78	64.50	0.670	0.463	1.842	0.947
000005371	0.00	0.18	0.869	0.539	1.321	0.929
00000537S	0.00	0.35	0.654	0.493	1.222	0.784
00000537S	0.35	1.08	0.654	0.493	1.222	0.784
00000538	0.00	1.04	0.869	0.539	1.321	0.929
00000538	1.04	3.61	0.869	0.539	1.321	0.929
00000538	3.61	7.27	0.869	0.539	1.321	0.929
00000538	7.27	8.05	0.869	0.539	1.321	0.929
00000538	8.05	12.41	0.869	0.539	1.321	0.929
00000538	12.41	13.39	0.869	0.539	1.321	0.929
00000538	13.39	15.07	0.869	0.539	1.321	0.929
00000538	15.07	15.49	0.869	0.539	1.321	0.929
00000538	15.49	15.52	0.670	0.463	1.842	0.947
00000538	15.52	16.27	0.670	0.463	1.842	0.947
00000538	16.27	24.10	0.869	0.539	1.321	0.929
00000539	0.00	3.57	0.869	0.539	1.321	0.929
00000539	3.57	13.78	0.869	0.539	1.321	0.929
00000539	13.78	20.85	0.869	0.539	1.321	0.929
00000539	20.85	25.10	0.869	0.539	1.321	0.929
00000539	25.36	33.71	0.869	0.539	1.321	0.929
00000539	33.71	35.16	0.869	0.539	1.321	0.929
00000539	35.16	37.17	0.869	0.539	1.321	0.929
00000539	37.17	37.71	0.869	0.539	1.321	0.929
00000539	37.71	43.83	0.869	0.539	1.321	0.929
00000539	43.83	44.10	0.869	0.539	1.321	0.929
00000539	45.50	49.42	0.869	0.539	1.321	0.929
00000539	49.42	51.55	0.869	0.539	1.321	0.929
00000539	51.55	51.92	1.139	0.709	1.227	0.818
00000539	52.08	52.16	0.869	0.539	1.321	0.929
00000539	52.16	53.19	0.869	0.539	1.321	0.929
00000539	53.19	53.53	0.869	0.539	1.321	0.929
00000539	53.59	54.32	0.869	0.539	1.321	0.929
00000539A	0.00	1.47	0.869	0.539	1.321	0.929
00000540	0.92	1.53	0.869	0.539	1.321	0.929
00000540	1.53	5.63	0.869	0.539	1.321	0.929
00000540	5.63	6.90	0.869	0.539	1.321	0.929
00000540	6.90	7.41	0.869	0.539	1.321	0.929
00000540	7.41	7.54	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	8.70	8.79	0.869	0.539	1.321	0.929
00000540	8.79	12.47	0.869	0.539	1.321	0.929
00000540	12.47	13.07	0.869	0.539	1.321	0.929
00000540	13.07	13.39	0.869	0.539	1.321	0.929
00000540	13.39	17.17	0.869	0.539	1.321	0.929
00000540	17.17	24.83	0.869	0.539	1.321	0.929
00000540	24.83	25.89	0.869	0.539	1.321	0.929
00000540	25.89	26.56	0.869	0.539	1.321	0.929
00000540	26.56	29.53	0.869	0.539	1.321	0.929
00000540	29.53	30.29	0.869	0.539	1.321	0.929
00000540	30.29	33.09	0.869	0.539	1.321	0.929
00000540	33.09	33.19	0.869	0.539	1.321	0.929
00000540	33.19	33.74	0.869	0.539	1.321	0.929
00000540	33.74	35.72	0.869	0.539	1.321	0.929
00000540	35.72	36.10	0.670	0.463	1.842	0.947
00000540	36.10	39.38	0.670	0.463	1.842	0.947
00000540	39.38	40.30	0.670	0.463	1.842	0.947
00000540	40.30	42.44	0.869	0.539	1.321	0.929
00000540	42.44	43.16	0.869	0.539	1.321	0.929
00000541	0.00	1.79	1.139	0.709	1.227	0.818
00000541	1.79	9.67	1.139	0.709	1.227	0.818
00000541	9.67	10.27	1.139	0.709	1.227	0.818
00000541	10.27	10.62	1.139	0.709	1.227	0.818
00000541	10.62	15.58	1.139	0.709	1.227	0.818
00000541	15.58	16.34	1.139	0.709	1.227	0.818
00000541	16.34	18.35	1.225	0.716	1.311	0.825
00000541	18.35	20.72	1.225	0.716	1.311	0.825
00000541	20.72	23.11	1.225	0.716	1.311	0.825
00000541	23.11	23.84	1.225	0.716	1.311	0.825
00000541T	0.00	1.49	1.139	0.709	1.227	0.818
00000542	0.00	0.16	0.670	0.463	1.842	0.947
00000542	0.16	1.68	0.670	0.463	1.842	0.947
00000542	1.76	4.08	0.869	0.539	1.321	0.929
00000542	4.08	20.57	0.869	0.539	1.321	0.929
00000543	0.00	5.41	1.139	0.709	1.227	0.818
00000543	5.41	5.58	0.602	0.411	1.053	0.679
00000543	5.58	5.77	0.602	0.411	1.053	0.679
00000543	5.77	7.29	0.602	0.411	1.053	0.679
00000543	7.29	10.27	1.225	0.716	1.311	0.825
00000543	10.27	10.46	1.225	0.716	1.311	0.825
00000543	10.46	10.83	1.225	0.716	1.311	0.825
00000543	10.83	12.83	1.225	0.716	1.311	0.825
00000543	12.83	14.72	1.225	0.716	1.311	0.825
00000543	14.72	16.03	1.225	0.716	1.311	0.825
00000543	17.95	19.11	1.139	0.709	1.227	0.818
00000543	19.11	21.93	0.869	0.539	1.321	0.929
00000543	21.93	22.50	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000543	22.50	22.74	0.869	0.539	1.321	0.929
00000543	22.74	24.39	0.869	0.539	1.321	0.929
00000543	24.39	24.48	0.869	0.539	1.321	0.929
00000543	24.48	24.87	0.869	0.539	1.321	0.929
00000543	24.87	27.60	0.869	0.539	1.321	0.929
00000543	27.60	28.19	0.869	0.539	1.321	0.929
00000543	28.19	28.77	0.869	0.539	1.321	0.929
00000544	0.00	1.84	0.934	0.742	1.043	0.739
00000544	2.16	4.46	0.934	0.742	1.043	0.739
00000544	4.46	4.83	0.934	0.742	1.043	0.739
00000544	4.83	11.12	0.602	0.411	1.053	0.679
00000544	11.12	11.31	1.139	0.709	1.227	0.818
00000544	11.31	13.75	1.139	0.709	1.227	0.818
00000544	13.75	14.94	1.139	0.709	1.227	0.818
00000545	0.00	1.53	1.139	0.709	1.227	0.818
00000545	1.53	4.46	1.139	0.709	1.227	0.818
00000545	4.46	4.83	1.139	0.709	1.227	0.818
00000545	4.83	5.39	1.139	0.709	1.227	0.818
00000545	5.39	6.94	1.139	0.709	1.227	0.818
00000545	6.94	8.89	0.869	0.539	1.321	0.929
00000545	8.89	9.15	0.869	0.539	1.321	0.929
00000545	9.15	12.54	0.869	0.539	1.321	0.929
00000545	12.54	13.73	0.869	0.539	1.321	0.929
00000545	13.73	14.76	0.869	0.539	1.321	0.929
00000546	0.00	5.26	1.139	0.709	1.227	0.818
00000546	5.26	8.38	1.139	0.709	1.227	0.818
00000546	8.38	9.98	1.139	0.709	1.227	0.818
00000547	0.00	1.90	1.139	0.709	1.227	0.818
00000547	1.90	5.54	1.139	0.709	1.227	0.818
00000547	9.28	9.61	0.670	0.463	1.842	0.947
00000547	9.61	9.63	0.670	0.463	1.842	0.947
00000547	9.63	10.18	0.670	0.463	1.842	0.947
00000547	10.18	14.67	0.869	0.539	1.321	0.929
00000547	14.67	15.05	0.670	0.463	1.842	0.947
00000547	15.05	15.33	0.869	0.539	1.321	0.929
00000547	17.60	20.44	0.869	0.539	1.321	0.929
00000547	20.87	25.98	0.670	0.463	1.842	0.947
00000547	25.98	28.29	0.670	0.463	1.842	0.947
00000547	28.51	29.56	0.670	0.463	1.842	0.947
00000547	29.56	30.36	0.670	0.463	1.842	0.947
00000547S	0.00	0.45	0.670	0.463	1.842	0.947
00000548	0.00	9.18	0.869	0.539	1.321	0.929
00000549	0.00	0.25	0.670	0.463	1.842	0.947
00000549	0.25	1.19	0.670	0.463	1.842	0.947
00000549	1.19	5.96	1.245	0.732	1.202	0.680
00000549	5.96	8.69	1.245	0.732	1.202	0.680
00000549	8.69	11.45	1.245	0.732	1.202	0.680

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000549	11.45	12.09	1.245	0.732	1.202	0.680
00000549	12.09	12.35	1.245	0.732	1.202	0.680
00000549	12.35	13.01	0.670	0.463	1.842	0.947
00000549	13.01	14.37	0.670	0.463	1.842	0.947
00000549	14.37	17.82	0.670	0.463	1.842	0.947
00000549S1	0.00	3.97	0.670	0.463	1.842	0.947
00000549S1B1001	0.00	0.03	0.670	0.463	1.842	0.947
00000549S2	1.45	4.09	1.245	0.732	1.202	0.680
00000550	0.00	4.37	0.869	0.539	1.321	0.929
00000550	4.37	5.37	0.869	0.539	1.321	0.929
00000550	5.37	6.23	0.869	0.539	1.321	0.929
00000550	6.23	8.87	0.869	0.539	1.321	0.929
00000550	8.87	9.03	0.869	0.539	1.321	0.929
00000550	9.03	9.31	0.869	0.539	1.321	0.929
00000550	9.31	10.95	0.869	0.539	1.321	0.929
00000550	10.95	13.63	0.869	0.539	1.321	0.929
00000550	13.63	14.44	0.869	0.539	1.321	0.929
00000550	14.44	15.92	0.869	0.539	1.321	0.929
00000550S	0.00	1.43	0.670	0.463	1.842	0.947
00000550S	1.43	2.48	0.670	0.463	1.842	0.947
00000550S	2.60	4.84	0.670	0.463	1.842	0.947
00000551	0.00	4.66	0.654	0.493	1.222	0.784
00000551	5.12	7.83	0.654	0.493	1.222	0.784
00000551	7.83	11.52	0.869	0.539	1.321	0.929
00000551	11.52	11.76	0.869	0.539	1.321	0.929
00000551	11.76	12.42	0.869	0.539	1.321	0.929
00000551	12.42	15.70	0.869	0.539	1.321	0.929
00000551	15.70	17.01	0.869	0.539	1.321	0.929
00000551	17.01	23.84	0.654	0.493	1.222	0.784
00000551	23.84	24.11	0.654	0.493	1.222	0.784
00000551	24.11	25.50	0.654	0.493	1.222	0.784
00000551	25.50	25.90	0.654	0.493	1.222	0.784
00000551	27.34	27.36	0.654	0.493	1.222	0.784
00000551	27.36	29.08	0.654	0.493	1.222	0.784
00000551	29.46	30.56	0.654	0.493	1.222	0.784
00000551	30.56	32.18	0.654	0.493	1.222	0.784
00000551	32.18	34.57	0.934	0.742	1.043	0.739
00000551S	0.00	1.34	0.654	0.493	1.222	0.784
00000551S	1.34	1.88	0.654	0.493	1.222	0.784
00000551S	1.88	3.35	0.654	0.493	1.222	0.784
00000551S	3.35	4.27	1.139	0.709	1.227	0.818
00000552	0.00	3.54	0.654	0.493	1.222	0.784
00000552	3.54	10.71	0.654	0.493	1.222	0.784
00000552	10.71	15.28	0.670	0.463	1.842	0.947
00000552	15.28	18.14	0.670	0.463	1.842	0.947
00000552	18.14	18.84	0.869	0.539	1.321	0.929
00000552	18.84	22.05	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000552	22.05	27.27	0.869	0.539	1.321	0.929
00000552	27.27	27.48	0.869	0.539	1.321	0.929
00000552S	0.00	1.41	0.670	0.463	1.842	0.947
00000552S	1.41	2.26	0.670	0.463	1.842	0.947
00000552S	2.26	3.41	0.670	0.463	1.842	0.947
00000553	0.00	0.14	0.670	0.463	1.842	0.947
00000553	0.14	12.54	0.670	0.463	1.842	0.947
00000553	12.54	14.16	0.670	0.463	1.842	0.947
00000553	14.16	18.73	0.670	0.463	1.842	0.947
00000553	18.73	22.97	0.654	0.493	1.222	0.784
00000553	22.97	23.78	0.654	0.493	1.222	0.784
00000553	23.78	25.97	0.654	0.493	1.222	0.784
00000553	25.97	27.44	0.869	0.539	1.321	0.929
00000553	27.56	29.29	0.869	0.539	1.321	0.929
00000553	29.29	31.06	0.869	0.539	1.321	0.929
00000553	31.06	31.96	0.869	0.539	1.321	0.929
00000553	31.96	33.63	0.869	0.539	1.321	0.929
00000553	33.63	36.16	0.869	0.539	1.321	0.929
00000553	36.16	36.64	0.869	0.539	1.321	0.929
00000553	36.64	39.81	0.654	0.493	1.222	0.784
00000553	39.81	40.23	0.654	0.493	1.222	0.784
00000553	40.23	41.41	0.654	0.493	1.222	0.784
00000553	41.41	41.59	0.654	0.493	1.222	0.784
00000553	41.89	42.19	0.934	0.742	1.043	0.739
00000553	42.19	42.82	0.934	0.742	1.043	0.739
00000553	42.82	43.09	0.934	0.742	1.043	0.739
00000553	43.09	44.25	0.934	0.742	1.043	0.739
00000553	44.25	45.01	0.654	0.493	1.222	0.784
00000553	45.01	48.09	0.654	0.493	1.222	0.784
00000553	48.09	49.32	0.654	0.493	1.222	0.784
00000553	49.32	49.87	0.654	0.493	1.222	0.784
00000553	49.87	50.87	0.654	0.493	1.222	0.784
00000553	50.87	51.22	0.654	0.493	1.222	0.784
00000553A	0.00	0.58	0.654	0.493	1.222	0.784
00000553A	0.58	1.28	0.654	0.493	1.222	0.784
00000553A	1.28	5.37	0.654	0.493	1.222	0.784
00000553A	5.37	6.19	0.654	0.493	1.222	0.784
00000554	0.00	2.29	0.670	0.463	1.842	0.947
00000554	2.29	6.07	0.670	0.463	1.842	0.947
00000555	0.00	3.80	0.869	0.539	1.321	0.929
00000555	3.80	6.44	0.869	0.539	1.321	0.929
00000555	6.44	7.29	0.869	0.539	1.321	0.929
00000555	7.29	7.79	0.869	0.539	1.321	0.929
00000555	7.79	8.30	0.869	0.539	1.321	0.929
00000555	8.30	9.36	0.670	0.463	1.842	0.947
00000555	9.36	9.48	0.670	0.463	1.842	0.947
00000555	9.48	9.70	0.670	0.463	1.842	0.947

**New Jersey Department of Transportation
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Traffic & Technology Section
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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	10.05	10.50	0.670	0.463	1.842	0.947
00000555	10.50	10.55	0.670	0.463	1.842	0.947
00000555	10.55	12.32	0.670	0.463	1.842	0.947
00000555	12.32	12.61	0.670	0.463	1.842	0.947
00000555	12.61	16.56	0.670	0.463	1.842	0.947
00000555	16.93	18.60	0.670	0.463	1.842	0.947
00000555	18.60	21.50	0.869	0.539	1.321	0.929
00000555	21.50	25.49	0.869	0.539	1.321	0.929
00000555	25.49	25.84	0.869	0.539	1.321	0.929
00000555	25.84	34.20	0.654	0.493	1.222	0.784
00000557	0.00	2.84	0.869	0.539	1.321	0.929
00000557	2.84	3.10	0.869	0.539	1.321	0.929
00000557	3.51	3.77	0.869	0.539	1.321	0.929
00000557	3.77	6.89	0.869	0.539	1.321	0.929
00000557	6.89	7.67	0.869	0.539	1.321	0.929
00000557	7.67	8.76	0.670	0.463	1.842	0.947
00000557	8.76	9.42	0.670	0.463	1.842	0.947
00000557	12.75	27.57	0.869	0.539	1.321	0.929
00000557	27.57	27.73	0.869	0.539	1.321	0.929
00000557	30.87	31.85	0.670	0.463	1.842	0.947
00000557	31.85	35.81	0.670	0.463	1.842	0.947
00000557	35.81	36.15	0.670	0.463	1.842	0.947
00000559	0.00	5.23	0.670	0.463	1.842	0.947
00000559	5.23	6.81	0.869	0.539	1.321	0.929
00000559	6.81	9.68	0.869	0.539	1.321	0.929
00000559	9.68	12.05	0.869	0.539	1.321	0.929
00000559	12.05	14.07	0.670	0.463	1.842	0.947
00000559	14.41	15.06	0.869	0.539	1.321	0.929
00000559	15.06	17.74	0.869	0.539	1.321	0.929
00000559	17.74	18.11	0.869	0.539	1.321	0.929
00000559	18.11	26.31	0.869	0.539	1.321	0.929
00000559	26.31	28.02	0.869	0.539	1.321	0.929
00000559	28.02	29.15	0.869	0.539	1.321	0.929
00000559	29.15	29.64	0.670	0.463	1.842	0.947
00000559	29.64	30.84	0.869	0.539	1.321	0.929
00000559A	0.00	0.68	0.869	0.539	1.321	0.929
00000559A	0.68	9.49	0.670	0.463	1.842	0.947
00000560	0.00	2.36	0.869	0.539	1.321	0.929
00000560	2.36	5.05	0.869	0.539	1.321	0.929
00000561	0.00	1.54	0.869	0.539	1.321	0.929
00000561	1.54	4.79	0.670	0.463	1.842	0.947
00000561	4.79	6.05	0.670	0.463	1.842	0.947
00000561	6.05	15.95	0.670	0.463	1.842	0.947
00000561	15.95	20.53	0.670	0.463	1.842	0.947
00000561	20.53	20.98	0.670	0.463	1.842	0.947
00000561	20.98	22.27	0.670	0.463	1.842	0.947
00000561	22.27	22.71	0.670	0.463	1.842	0.947

**New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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	22.71	24.42	0.869	0.539	1.321	0.929
00000561	24.42	24.86	0.869	0.539	1.321	0.929
00000561	24.86	25.79	0.869	0.539	1.321	0.929
00000561	25.79	27.82	0.869	0.539	1.321	0.929
00000561	32.48	33.24	1.139	0.709	1.227	0.818
00000561	33.24	35.78	1.139	0.709	1.227	0.818
00000561	36.33	36.76	0.645	0.467	1.350	0.795
00000561	36.76	38.94	0.602	0.411	1.053	0.679
00000561	38.94	39.52	0.602	0.411	1.053	0.679
00000561	39.52	41.19	0.602	0.411	1.053	0.679
00000561	41.19	43.94	0.934	0.742	1.043	0.739
00000561	43.94	44.90	0.934	0.742	1.043	0.739
00000561	44.90	44.96	1.139	0.709	1.227	0.818
00000561	44.96	45.54	1.139	0.709	1.227	0.818
00000561	45.54	45.66	1.139	0.709	1.227	0.818
00000561	45.66	50.52	0.654	0.493	1.222	0.784
00000561	50.52	50.95	0.934	0.742	1.043	0.739
000005611	0.00	0.69	0.869	0.539	1.321	0.929
000005612	0.00	0.17	0.869	0.539	1.321	0.929
000005613	0.00	0.55	0.869	0.539	1.321	0.929
000005614	0.00	0.06	0.869	0.539	1.321	0.929
000005614	0.06	0.56	0.869	0.539	1.321	0.929
00000561A	0.00	1.38	0.670	0.463	1.842	0.947
00000561A	1.38	2.68	0.670	0.463	1.842	0.947
00000561A	2.68	6.04	0.670	0.463	1.842	0.947
00000561A	6.04	6.58	0.670	0.463	1.842	0.947
00000561A	6.58	12.18	0.869	0.539	1.321	0.929
00000561A	12.18	15.79	0.869	0.539	1.321	0.929
00000563	0.00	0.84	0.670	0.463	1.842	0.947
00000563	0.84	0.90	0.670	0.463	1.842	0.947
00000563	0.90	0.96	0.670	0.463	1.842	0.947
00000563	0.96	3.12	0.670	0.463	1.842	0.947
00000563	3.12	3.36	0.670	0.463	1.842	0.947
00000563	3.36	3.73	0.670	0.463	1.842	0.947
00000563	3.73	4.47	0.670	0.463	1.842	0.947
00000563	4.47	6.27	0.614	0.427	1.552	0.931
00000563	7.14	13.74	0.614	0.427	1.552	0.931
00000563	16.70	19.61	0.869	0.539	1.321	0.929
00000563	19.61	19.87	0.869	0.539	1.321	0.929
00000563	19.87	24.23	0.869	0.539	1.321	0.929
00000563	24.23	24.73	0.869	0.539	1.321	0.929
00000563	24.86	39.98	0.869	0.539	1.321	0.929
00000563	40.07	43.87	0.869	0.539	1.321	0.929
00000565	0.00	4.77	1.321	0.835	1.259	0.788
00000565	4.77	7.20	1.321	0.835	1.259	0.788
00000565	7.20	8.02	0.869	0.539	1.321	0.929
00000565	8.02	9.40	0.869	0.539	1.321	0.929

**New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2022**

Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000565	10.07	17.86	0.869	0.539	1.321	0.929
00000567	0.00	1.21	0.869	0.539	1.321	0.929
00000567	1.21	1.65	0.869	0.539	1.321	0.929
00000567	1.65	1.86	0.869	0.539	1.321	0.929
00000567	1.86	4.71	0.869	0.539	1.321	0.929
00000567	4.71	5.56	1.139	0.709	1.227	0.818
00000567	5.56	8.88	1.139	0.709	1.227	0.818
00000567	8.88	8.96	1.139	0.709	1.227	0.818
00000567	8.96	10.02	1.139	0.709	1.227	0.818
00000569	0.00	0.91	1.139	0.709	1.227	0.818
00000569	0.91	0.92	1.139	0.709	1.227	0.818
00000569	0.92	1.24	1.139	0.709	1.227	0.818
00000569	1.24	2.06	1.139	0.709	1.227	0.818
00000569	2.10	5.52	1.139	0.709	1.227	0.818
00000569	5.52	6.97	1.139	0.709	1.227	0.818
00000569	6.97	8.19	1.139	0.709	1.227	0.818
00000569	8.19	8.45	1.139	0.709	1.227	0.818
00000569	8.45	8.53	1.139	0.709	1.227	0.818
00000571	0.00	1.45	1.245	0.732	1.202	0.680
00000571	1.45	5.46	0.670	0.463	1.842	0.947
00000571	5.46	5.73	0.670	0.463	1.842	0.947
00000571	5.73	6.64	0.670	0.463	1.842	0.947
00000571	7.40	14.09	1.139	0.709	1.227	0.818
00000571	14.09	19.55	1.139	0.709	1.227	0.818
00000571	19.55	22.87	1.139	0.709	1.227	0.818
00000571	24.35	25.63	0.869	0.539	1.321	0.929
00000571	26.73	27.01	0.869	0.539	1.321	0.929
00000571	27.01	28.97	0.869	0.539	1.321	0.929
00000571	28.97	30.44	0.869	0.539	1.321	0.929
00000571	30.44	30.68	0.869	0.539	1.321	0.929
00000571	30.68	32.36	0.869	0.539	1.321	0.929
00000571	32.36	32.65	0.869	0.539	1.321	0.929
00000571	32.65	33.99	1.139	0.709	1.227	0.818
00000571	34.42	35.27	1.139	0.709	1.227	0.818
00000571	35.27	36.61	1.139	0.709	1.227	0.818
00000571	36.61	40.87	0.758	0.487	0.681	0.457
00000571	41.21	43.09	0.924	0.585	1.086	0.700
00000571	43.09	43.96	0.924	0.585	1.086	0.700
00000575	0.00	3.36	0.670	0.463	1.842	0.947
00000575	3.36	4.62	0.670	0.463	1.842	0.947
00000575	4.62	6.75	0.670	0.463	1.842	0.947
00000575	8.67	11.78	0.670	0.463	1.842	0.947
00000575	11.78	16.01	0.670	0.463	1.842	0.947
00000575	16.55	17.50	0.869	0.539	1.321	0.929
00000575	17.50	19.50	0.869	0.539	1.321	0.929
00000575	19.50	20.96	0.869	0.539	1.321	0.929
00000577	0.00	0.93	1.321	0.835	1.259	0.788

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Equivalent Single Axle Load (ESAL) Design Factors

Rigid Pavement (r) P=2.5 D=228 mm (9.0")
Flexible Pavement (f) P=2.5 SN=127 mm (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)
00000577	0.93	0.98	0.821	0.528	0.825	0.516
00000577	0.98	1.79	0.821	0.528	0.825	0.516
00000577	1.79	3.03	0.821	0.528	0.825	0.516
00000577	3.14	4.06	0.821	0.528	0.825	0.516
00000577	4.06	4.57	0.821	0.528	0.825	0.516
00000577	4.57	6.54	1.321	0.835	1.259	0.788
00000577	6.54	6.67	1.321	0.835	1.259	0.788
00000577	6.78	8.05	1.321	0.835	1.259	0.788
00000577	8.05	9.50	1.321	0.835	1.259	0.788
00000577	9.50	10.11	1.695	1.020	2.000	1.112
00000577	10.11	12.85	1.695	1.020	2.000	1.112
00000577	12.85	13.10	1.695	1.020	2.000	1.112
00000577Z	0.00	0.37	0.821	0.528	0.825	0.516
00000579	0.00	2.21	0.869	0.539	1.321	0.929
00000579	2.21	3.29	1.139	0.709	1.227	0.818
00000579	3.29	6.49	1.139	0.709	1.227	0.818
00000579	6.49	7.66	1.139	0.709	1.227	0.818
00000579	7.66	8.90	1.139	0.709	1.227	0.818
00000579	8.90	12.05	1.139	0.709	1.227	0.818
00000579	14.36	14.64	1.321	0.835	1.259	0.788
00000579	14.72	19.22	0.869	0.539	1.321	0.929
00000579	19.33	20.65	0.869	0.539	1.321	0.929
00000579	20.65	27.78	0.869	0.539	1.321	0.929
00000579	27.85	36.71	0.869	0.539	1.321	0.929
00000579	36.71	37.24	0.869	0.539	1.321	0.929
00000581	0.00	3.69	0.869	0.539	1.321	0.929
00000581	3.69	14.14	0.869	0.539	1.321	0.929
00000581	14.14	17.57	0.869	0.539	1.321	0.929
00000583	1.06	5.55	1.139	0.709	1.227	0.818
00000583	5.91	6.52	1.139	0.709	1.227	0.818
00000583	6.52	9.11	1.139	0.709	1.227	0.818
00000585	0.00	0.85	0.614	0.427	1.552	0.931
00000585	0.85	5.86	0.670	0.463	1.842	0.947
00000585	5.86	6.91	0.670	0.463	1.842	0.947
00000585	6.91	8.91	0.670	0.463	1.842	0.947
00000585	8.91	9.57	0.670	0.463	1.842	0.947
00000676	0.00	3.79	0.921	0.602	1.419	0.928
00000676	3.79	4.75	0.921	0.602	1.419	0.928
00000700	0.00	1.88	1.292	0.763	1.250	0.811
00000700	1.88	7.20	1.292	0.763	1.250	0.811
00000700	7.20	7.31	1.292	0.763	1.250	0.811
00000700	7.31	8.11	1.292	0.763	1.250	0.811
00000700	8.11	48.41	1.292	0.763	1.250	0.811
00000700	48.41	49.37	1.292	0.763	1.250	0.811
00000700	49.37	51.99	1.292	0.763	1.250	0.811