

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	5.03	1.360	0.802	1.343	0.864
00000001	5.03	5.51	1.360	0.802	1.343	0.864
00000001	5.51	8.13	0.656	0.476	0.778	0.518
00000001	8.13	11.95	0.710	0.482	1.045	0.675
00000001	11.95	27.75	0.888	0.559	0.772	0.513
00000001	28.11	45.48	0.498	0.363	0.504	0.333
00000001	45.48	47.03	1.325	0.820	1.720	1.081
00000001	47.03	49.03	1.325	0.820	1.720	1.081
00000001	54.64	60.73	1.262	0.834	1.673	1.029
00000001	60.73	62.83	1.262	0.834	1.673	1.029
00000001	62.83	62.91	1.262	0.834	1.673	1.029
00000001	62.91	63.91	1.262	0.834	1.673	1.029
00000001	63.91	64.91	1.262	0.834	1.673	1.029
00000001B	0.00	0.25	0.656	0.476	0.778	0.518
00000001B	0.25	0.42	0.656	0.476	0.778	0.518
00000001B	0.42	2.73	0.656	0.476	0.778	0.518
00000001T	0.00	0.40	1.262	0.834	1.673	1.029
00000001T	0.40	2.30	1.262	0.834	1.673	1.029
00000001T	2.30	3.00	1.262	0.834	1.673	1.029
00000001T	3.00	4.35	1.262	0.834	1.673	1.029
00000003	0.00	10.84	1.325	0.820	1.720	1.081
00000004	0.00	2.00	1.262	0.834	1.673	1.029
00000004	2.00	10.59	1.325	0.820	1.720	1.081
00000005	0.00	1.30	1.262	0.834	1.673	1.029
00000005	1.30	1.60	1.262	0.834	1.673	1.029
00000005	1.60	1.80	1.262	0.834	1.673	1.029
00000005	1.80	3.18	1.262	0.834	1.673	1.029
00000007	0.00	1.40	1.262	0.834	1.673	1.029
00000007	1.40	5.29	1.262	0.834	1.673	1.029
00000007	5.99	9.19	1.867	1.078	1.750	1.056
00000007	9.19	9.99	1.867	1.078	1.750	1.056
00000007	9.99	10.10	1.867	1.078	1.750	1.056
00000009	0.23	0.69	1.121	0.683	1.151	0.738
00000009	0.69	1.43	1.121	0.683	1.151	0.738
00000009	1.43	3.06	1.121	0.683	1.151	0.738
00000009	3.06	7.30	0.676	0.454	1.421	0.763
00000009	7.30	16.01	0.676	0.454	1.421	0.763
00000009	16.01	16.06	0.676	0.454	1.421	0.763
00000009	16.06	16.80	0.676	0.454	1.421	0.763
00000009	16.80	18.00	1.121	0.683	1.151	0.738
00000009	18.00	18.61	1.121	0.683	1.151	0.738
00000009	18.61	30.65	0.676	0.454	1.421	0.763
00000009	32.16	32.20	0.676	0.454	1.421	0.763
00000009	32.20	32.22	0.676	0.454	1.421	0.763
00000009	32.22	42.86	0.510	0.375	2.271	1.188
00000009	42.86	43.32	0.676	0.454	1.421	0.763
00000009	43.32	43.85	0.676	0.454	1.421	0.763
00000009	43.85	46.00	0.676	0.454	1.421	0.763
00000009	46.00	49.38	0.676	0.454	1.421	0.763

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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)
00000009	49.38	52.59	0.676	0.454	1.421	0.763
00000009	54.85	59.89	0.676	0.454	1.421	0.763
00000009	59.89	60.00	0.676	0.454	1.421	0.763
00000009	60.00	62.75	0.676	0.454	1.421	0.763
00000009	62.75	67.70	0.676	0.454	1.421	0.763
00000009	67.70	70.53	0.676	0.454	1.421	0.763
00000009	70.53	77.90	0.986	0.687	1.790	1.145
00000009	77.90	91.05	0.986	0.687	1.790	1.145
00000009	94.50	99.00	0.800	0.543	0.916	0.591
00000009	99.00	101.50	0.800	0.543	0.916	0.591
00000009	101.50	102.00	0.800	0.543	0.916	0.591
00000009	102.00	114.00	0.942	0.598	0.845	0.549
00000009	114.00	121.51	1.702	0.981	1.508	0.934
00000009	121.51	127.94	0.942	0.598	0.845	0.549
00000009	127.94	131.80	1.702	0.981	1.508	0.934
00000009	132.80	136.38	0.498	0.363	0.504	0.333
00000009W	0.00	0.67	1.262	0.834	1.673	1.029
00000009W	0.67	1.40	1.262	0.834	1.673	1.029
00000009W	1.40	8.00	1.262	0.834	1.673	1.029
00000009W	8.00	8.50	1.262	0.834	1.673	1.029
00000009W	8.50	11.00	1.262	0.834	1.673	1.029
00000009W	11.00	11.17	1.262	0.834	1.673	1.029
00000010	0.00	18.80	0.498	0.363	0.504	0.333
00000010	18.80	23.51	0.498	0.363	0.504	0.333
00000012	0.00	0.21	1.867	1.078	1.750	1.056
00000012	0.21	0.43	1.867	1.078	1.750	1.056
00000012	0.43	1.00	1.867	1.078	1.750	1.056
00000012	1.00	6.00	1.867	1.078	1.750	1.056
00000012	6.00	9.40	1.867	1.078	1.750	1.056
00000012	9.40	10.82	1.867	1.078	1.750	1.056
00000012	10.82	11.38	1.867	1.078	1.750	1.056
00000012	11.38	11.69	1.867	1.078	1.750	1.056
00000013	0.00	0.13	0.676	0.454	1.421	0.763
00000013	0.13	0.27	0.676	0.454	1.421	0.763
00000013	0.27	0.56	0.676	0.454	1.421	0.763
00000015	0.00	0.07	1.867	1.078	1.750	1.056
00000015	0.07	0.35	1.867	1.078	1.750	1.056
00000015	0.37	1.30	1.867	1.078	1.750	1.056
00000015	1.30	2.05	1.867	1.078	1.750	1.056
00000015	2.05	5.95	0.826	0.543	1.449	0.865
00000015	5.95	8.92	0.710	0.449	0.665	0.439
00000015	8.92	14.41	0.826	0.543	1.449	0.865
00000015	14.41	19.53	0.722	0.494	1.274	0.779
00000017	0.00	3.00	1.262	0.834	1.673	1.029
00000017	3.00	4.00	1.262	0.834	1.673	1.029
00000017	4.00	5.20	1.262	0.834	1.673	1.029
00000017	5.20	9.13	1.262	0.834	1.673	1.029
00000017	9.13	26.81	0.729	0.508	1.110	0.727
00000018	5.14	29.92	1.360	0.802	1.343	0.864

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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)
00000018	29.92	31.08	1.109	0.659	1.279	0.843
00000018	31.08	34.78	0.942	0.598	0.845	0.549
00000018	34.78	39.45	1.702	0.981	1.508	0.934
00000018	39.45	39.64	0.888	0.559	0.772	0.513
00000018	39.64	40.90	0.888	0.559	0.772	0.513
00000018	40.90	41.40	1.360	0.802	1.343	0.864
00000018	41.40	42.20	1.360	0.802	1.343	0.864
00000018	42.20	45.30	0.983	0.742	0.985	0.664
00000018	45.30	47.37	0.498	0.363	0.504	0.333
00000018	47.37	47.92	0.498	0.363	0.504	0.333
00000018S	0.00	0.29	0.498	0.363	0.504	0.333
00000019	0.00	2.46	0.710	0.449	0.665	0.439
00000019	2.46	3.04	1.262	0.834	1.673	1.029
00000020	0.00	1.00	1.262	0.834	1.673	1.029
00000020	1.00	4.00	1.262	0.834	1.673	1.029
00000020	4.00	4.15	1.262	0.834	1.673	1.029
00000021	0.00	4.08	1.262	0.834	1.673	1.029
00000021	4.08	14.35	1.325	0.820	1.720	1.081
00000022	0.00	0.64	0.710	0.449	0.665	0.439
00000022	0.64	5.08	1.385	0.843	1.698	1.091
00000022	19.26	41.01	1.137	0.724	1.212	0.804
00000022	41.01	53.01	0.498	0.363	0.504	0.333
00000022	53.01	60.54	0.498	0.363	0.504	0.333
00000023	0.00	3.95	1.262	0.834	1.673	1.029
00000023	3.95	4.86	1.262	0.834	1.673	1.029
00000023	4.86	6.82	1.262	0.834	1.673	1.029
00000023	8.94	21.04	0.498	0.363	0.504	0.333
00000023	21.04	26.60	0.498	0.363	0.504	0.333
00000023	26.60	31.37	0.826	0.543	1.449	0.865
00000023	31.37	34.50	0.722	0.494	1.274	0.779
00000023	34.50	36.00	0.722	0.494	1.274	0.779
00000023	36.00	39.50	0.722	0.494	1.274	0.779
00000023	39.50	39.98	0.722	0.494	1.274	0.779
00000023	39.98	40.40	0.722	0.494	1.274	0.779
00000023	40.40	40.61	0.722	0.494	1.274	0.779
00000023	40.61	42.60	0.722	0.494	1.274	0.779
00000023	42.60	52.63	0.722	0.494	1.274	0.779
00000024	0.00	1.00	0.983	0.742	0.985	0.664
00000024	1.00	4.50	0.983	0.742	0.985	0.664
00000024	4.50	5.00	0.983	0.742	0.985	0.664
00000024	5.00	10.42	0.983	0.742	0.985	0.664
00000026	0.00	2.57	0.534	0.362	0.578	0.385
00000027	0.00	1.74	0.710	0.482	1.045	0.675
00000027	1.74	3.00	0.710	0.482	1.045	0.675
00000027	3.00	13.50	0.710	0.482	1.045	0.675
00000027	13.50	15.17	0.710	0.482	1.045	0.675
00000027	15.17	16.22	0.888	0.559	0.772	0.513
00000027	16.22	16.72	0.888	0.559	0.772	0.513
00000027	16.72	18.04	0.888	0.559	0.772	0.513

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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)
00000027	18.04	20.82	0.498	0.363	0.504	0.333
00000027	20.82	21.59	0.498	0.363	0.504	0.333
00000027	21.59	21.86	0.498	0.363	0.504	0.333
00000027	21.86	23.26	0.498	0.363	0.504	0.333
00000027	23.26	26.30	0.498	0.363	0.504	0.333
00000027	26.30	27.20	0.498	0.363	0.504	0.333
00000027	27.20	32.79	0.498	0.363	0.504	0.333
00000027	32.79	33.62	0.498	0.363	0.504	0.333
00000027	33.62	34.05	1.262	0.834	1.673	1.029
00000027	34.05	34.34	1.262	0.834	1.673	1.029
00000027	34.34	34.78	1.262	0.834	1.673	1.029
00000027	34.78	35.80	1.262	0.834	1.673	1.029
00000027	35.80	38.16	1.262	0.834	1.673	1.029
00000027	38.16	38.53	1.262	0.834	1.673	1.029
00000027Z	33.39	33.89	1.262	0.834	1.673	1.029
00000027Z	33.89	34.06	1.262	0.834	1.673	1.029
00000028	0.00	2.25	0.534	0.362	0.578	0.385
00000028	2.25	2.50	1.137	0.724	1.212	0.804
00000028	2.50	2.95	1.137	0.724	1.212	0.804
00000028	2.95	3.80	1.137	0.724	1.212	0.804
00000028	3.80	4.18	1.137	0.724	1.212	0.804
00000028	4.18	9.75	1.137	0.724	1.212	0.804
00000028	9.75	11.78	0.498	0.363	0.504	0.333
00000028	11.78	12.49	0.498	0.363	0.504	0.333
00000028	12.49	14.32	0.498	0.363	0.504	0.333
00000028	14.32	14.66	0.498	0.363	0.504	0.333
00000028	14.66	15.70	0.498	0.363	0.504	0.333
00000028	15.70	19.50	0.498	0.363	0.504	0.333
00000028	19.50	23.00	0.498	0.363	0.504	0.333
00000028	23.00	26.44	0.498	0.363	0.504	0.333
00000029	0.00	2.50	1.360	0.802	1.343	0.864
00000029	2.50	4.00	1.109	0.659	1.279	0.843
00000029	4.00	4.17	1.109	0.659	1.279	0.843
00000029	4.17	4.44	1.109	0.659	1.279	0.843
00000029	4.44	6.99	1.109	0.659	1.279	0.843
00000029	6.99	9.39	1.109	0.659	1.279	0.843
00000029	9.39	9.40	0.656	0.476	0.778	0.518
00000029	9.40	13.93	0.656	0.476	0.778	0.518
00000029	13.93	15.34	0.710	0.482	1.045	0.675
00000029	15.34	18.87	0.520	0.380	0.923	0.610
00000029	18.87	18.96	0.520	0.380	0.923	0.610
00000029	18.96	20.06	0.520	0.380	0.923	0.610
00000029	20.06	23.03	1.867	1.078	1.750	1.056
00000029	23.03	26.24	1.867	1.078	1.750	1.056
00000029	26.24	34.00	1.867	1.078	1.750	1.056
00000029	34.00	34.71	1.867	1.078	1.750	1.056
00000030	0.92	3.00	0.731	0.527	1.350	0.858
00000030	3.00	4.40	0.731	0.527	1.350	0.858
00000030	4.40	26.58	0.912	0.594	1.305	0.786

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	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000030	26.58	27.95	0.912	0.594	1.305	0.786
00000030	27.95	36.32	1.125	0.689	1.473	0.835
00000030	36.32	54.44	0.510	0.375	2.271	1.188
00000030	54.44	56.77	0.510	0.375	2.271	1.188
00000030	56.77	58.26	0.510	0.375	2.271	1.188
00000031	0.00	4.60	0.656	0.476	0.778	0.518
00000031	4.60	8.59	0.710	0.482	1.045	0.675
00000031	8.59	16.07	1.018	0.623	1.300	0.841
00000031	16.07	16.36	1.018	0.623	1.300	0.841
00000031	22.02	35.73	0.828	0.553	0.930	0.611
00000031	35.73	47.90	1.385	0.843	1.698	1.091
00000031	47.90	48.93	1.385	0.843	1.698	1.091
00000032	0.00	1.18	0.888	0.559	0.772	0.513
00000033	0.00	3.00	1.702	0.981	1.508	0.934
00000033	3.00	4.00	1.702	0.981	1.508	0.934
00000033	4.00	7.84	1.702	0.981	1.508	0.934
00000033	12.42	13.50	1.702	0.981	1.508	0.934
00000033	13.50	14.10	1.702	0.981	1.508	0.934
00000033	14.10	14.33	1.702	0.981	1.508	0.934
00000033	14.33	15.00	1.702	0.981	1.508	0.934
00000033	15.00	17.54	1.702	0.981	1.508	0.934
00000033	17.54	18.94	1.702	0.981	1.508	0.934
00000033	18.94	24.32	1.702	0.981	1.508	0.934
00000033	24.32	24.40	1.702	0.981	1.508	0.934
00000033	24.40	31.00	1.360	0.802	1.343	0.864
00000033	31.00	31.49	0.942	0.598	0.845	0.549
00000033	31.49	37.67	0.942	0.598	0.845	0.549
00000033	37.67	41.38	0.942	0.598	0.845	0.549
00000033	41.38	42.03	0.676	0.454	1.421	0.763
00000033B	0.00	2.41	1.702	0.981	1.508	0.934
00000033B	2.41	6.89	1.702	0.981	1.508	0.934
00000034	0.00	7.72	0.800	0.543	0.916	0.591
00000034	8.76	12.27	0.676	0.454	1.421	0.763
00000034	12.27	22.30	1.702	0.981	1.508	0.934
00000034	22.30	23.40	0.800	0.543	0.916	0.591
00000034	23.40	26.79	0.800	0.543	0.916	0.591
00000035	0.00	2.62	0.676	0.454	1.421	0.763
00000035	2.62	2.70	0.676	0.454	1.421	0.763
00000035	2.70	4.35	0.800	0.543	0.916	0.591
00000035	4.35	5.72	0.800	0.543	0.916	0.591
00000035	5.72	7.30	0.800	0.543	0.916	0.591
00000035	7.30	11.30	0.800	0.543	0.916	0.591
00000035	11.30	12.48	0.800	0.543	0.916	0.591
00000035	12.48	12.86	0.800	0.543	0.916	0.591
00000035	12.86	13.66	0.800	0.543	0.916	0.591
00000035	13.66	14.29	0.800	0.543	0.916	0.591
00000035	14.29	22.70	0.800	0.543	0.916	0.591
00000035	22.70	23.10	0.800	0.543	0.916	0.591
00000035	23.10	25.40	0.800	0.543	0.916	0.591

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	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000035	25.40	27.00	0.800	0.543	0.916	0.591
00000035	27.00	29.60	0.942	0.598	0.845	0.549
00000035	29.60	33.00	0.942	0.598	0.845	0.549
00000035	33.00	33.84	0.942	0.598	0.845	0.549
00000035	33.84	45.00	0.942	0.598	0.845	0.549
00000035	45.00	46.70	0.942	0.598	0.845	0.549
00000035	46.70	49.38	0.942	0.598	0.845	0.549
00000035	50.63	50.76	0.942	0.598	0.845	0.549
00000035	50.76	51.46	0.942	0.598	0.845	0.549
00000035	52.05	52.18	0.498	0.363	0.504	0.333
00000035	52.18	54.06	0.498	0.363	0.504	0.333
00000035	54.06	56.06	0.498	0.363	0.504	0.333
00000035	56.06	58.07	0.498	0.363	0.504	0.333
00000035Z	3.49	4.30	0.800	0.543	0.916	0.591
00000035Z	4.30	5.53	0.800	0.543	0.916	0.591
00000035Z	5.53	9.03	0.800	0.543	0.916	0.591
00000035Z	12.85	14.28	0.800	0.543	0.916	0.591
00000036	0.00	2.78	0.942	0.598	0.845	0.549
00000036	2.78	3.87	0.942	0.598	0.845	0.549
00000036	3.87	5.72	0.942	0.598	0.845	0.549
00000036	5.72	6.37	0.942	0.598	0.845	0.549
00000036	6.37	11.80	0.942	0.598	0.845	0.549
00000036	11.80	13.30	0.942	0.598	0.845	0.549
00000036	13.30	18.40	0.942	0.598	0.845	0.549
00000036	18.40	24.40	0.942	0.598	0.845	0.549
00000037	0.00	2.49	1.702	0.981	1.508	0.934
00000037	2.49	11.45	0.800	0.543	0.916	0.591
00000037	12.36	12.79	0.800	0.543	0.916	0.591
00000038	0.00	5.00	0.925	0.578	1.303	0.815
00000038	5.00	19.19	0.925	0.578	1.303	0.815
00000040	1.70	2.60	0.874	0.520	0.985	0.646
00000040	2.60	6.30	0.874	0.520	0.985	0.646
00000040	6.30	8.14	0.874	0.520	0.985	0.646
00000040	8.14	10.02	0.874	0.520	0.985	0.646
00000040	10.02	10.67	0.874	0.520	0.985	0.646
00000040	10.67	11.31	0.874	0.520	0.985	0.646
00000040	11.31	12.37	0.874	0.520	0.985	0.646
00000040	12.37	19.55	0.874	0.520	0.985	0.646
00000040	19.55	20.24	0.874	0.520	0.985	0.646
00000040	20.24	35.50	0.475	0.345	0.516	0.359
00000040	35.50	44.40	0.475	0.345	0.516	0.359
00000040	44.40	47.01	0.475	0.345	0.516	0.359
00000040	47.01	47.34	0.475	0.345	0.516	0.359
00000040	47.34	53.16	0.475	0.345	0.516	0.359
00000040	53.16	63.49	0.475	0.345	0.516	0.359
00000040	63.49	64.32	0.475	0.345	0.516	0.359
00000041	0.00	3.86	0.519	0.396	1.097	0.723
00000041	3.86	4.00	0.731	0.527	1.350	0.858
00000041	4.00	4.95	0.731	0.527	1.350	0.858

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000041	4.95	7.23	0.519	0.396	1.097	0.723
00000041	7.23	7.90	0.534	0.362	0.578	0.385
00000041	7.90	8.60	0.534	0.362	0.578	0.385
00000041	8.60	10.57	0.534	0.362	0.578	0.385
00000041	10.57	10.68	0.534	0.362	0.578	0.385
00000041	10.68	10.83	0.731	0.527	1.350	0.858
00000041	10.83	14.08	0.534	0.362	0.578	0.385
00000042	0.00	6.35	0.912	0.594	1.305	0.786
00000042	6.35	14.28	1.109	0.659	1.279	0.843
00000044	0.00	0.86	0.519	0.396	1.097	0.723
00000044	0.86	2.14	0.519	0.396	1.097	0.723
00000044	2.14	6.30	0.519	0.396	1.097	0.723
00000044	6.30	10.28	0.519	0.396	1.097	0.723
00000045	0.00	0.50	0.519	0.396	1.097	0.723
00000045	0.50	3.35	0.519	0.396	1.097	0.723
00000045	3.35	8.80	0.519	0.396	1.097	0.723
00000045	9.44	10.44	0.519	0.396	1.097	0.723
00000045	10.44	12.49	0.519	0.396	1.097	0.723
00000045	12.49	13.53	0.519	0.396	1.097	0.723
00000045	13.53	15.48	0.519	0.396	1.097	0.723
00000045	15.48	17.40	0.519	0.396	1.097	0.723
00000045	17.40	17.64	0.519	0.396	1.097	0.723
00000045	18.16	19.50	0.874	0.520	0.985	0.646
00000045	19.50	22.60	0.874	0.520	0.985	0.646
00000045	22.60	25.49	0.731	0.527	1.350	0.858
00000045	25.49	27.00	0.731	0.527	1.350	0.858
00000045	27.00	28.51	0.731	0.527	1.350	0.858
00000046	0.00	1.57	0.826	0.543	1.449	0.865
00000046	1.57	10.03	0.826	0.543	1.449	0.865
00000046	10.03	15.79	1.867	1.078	1.750	1.056
00000046	15.79	17.21	1.867	1.078	1.750	1.056
00000046	17.21	20.63	1.867	1.078	1.750	1.056
00000046	20.63	21.70	1.867	1.078	1.750	1.056
00000046	21.70	21.83	0.826	0.543	1.449	0.865
00000046	21.83	37.19	0.826	0.543	1.449	0.865
00000046	37.19	37.91	0.498	0.363	0.504	0.333
00000046	37.91	38.17	0.498	0.363	0.504	0.333
00000046	38.17	38.85	0.498	0.363	0.504	0.333
00000046	38.85	61.51	0.498	0.363	0.504	0.333
00000046	61.51	62.36	1.262	0.834	1.673	1.029
00000046	62.36	69.52	1.262	0.834	1.673	1.029
00000046	69.52	70.25	1.262	0.834	1.673	1.029
00000046	70.25	72.09	1.262	0.834	1.673	1.029
00000047	0.00	3.15	1.121	0.683	1.151	0.738
00000047	3.15	3.40	2.598	1.375	1.992	1.195
00000047	3.40	3.80	2.598	1.375	1.992	1.195
00000047	3.80	7.06	2.598	1.375	1.992	1.195
00000047	7.06	15.98	2.598	1.375	1.992	1.195
00000047	15.98	17.54	2.598	1.375	1.992	1.195

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000047	17.54	19.35	1.121	0.683	1.151	0.738
00000047	19.35	20.91	1.121	0.683	1.151	0.738
00000047	20.91	31.95	2.598	1.375	1.992	1.195
00000047	31.95	35.08	1.121	0.683	1.151	0.738
00000047	35.08	36.10	2.598	1.375	1.992	1.195
00000047	36.10	36.25	2.598	1.375	1.992	1.195
00000047	36.25	40.20	2.598	1.375	1.992	1.195
00000047	40.20	42.47	2.598	1.375	1.992	1.195
00000047	42.47	46.55	2.598	1.375	1.992	1.195
00000047	46.55	47.68	2.598	1.375	1.992	1.195
00000047	47.68	52.52	1.015	0.627	1.921	1.101
00000047	53.03	57.94	1.015	0.627	1.921	1.101
00000047	57.94	62.46	0.519	0.396	1.097	0.723
00000047	62.87	64.12	0.912	0.594	1.305	0.786
00000047	64.12	75.20	0.519	0.396	1.097	0.723
00000047Z	0.00	0.22	2.598	1.375	1.992	1.195
00000048	0.00	1.50	0.519	0.396	1.097	0.723
00000048	1.50	2.13	0.519	0.396	1.097	0.723
00000048	2.13	4.26	0.519	0.396	1.097	0.723
00000049	0.00	2.50	0.874	0.520	0.985	0.646
00000049	2.50	6.19	0.874	0.520	0.985	0.646
00000049	6.19	8.00	0.874	0.520	0.985	0.646
00000049	8.00	8.20	0.874	0.520	0.985	0.646
00000049	8.30	8.47	0.874	0.520	0.985	0.646
00000049	8.47	10.10	0.874	0.520	0.985	0.646
00000049	10.10	18.77	0.874	0.520	0.985	0.646
00000049	18.77	20.91	0.874	0.520	0.985	0.646
00000049	20.91	24.70	0.874	0.520	0.985	0.646
00000049	24.70	26.40	0.874	0.520	0.985	0.646
00000049	26.40	30.79	1.121	0.683	1.151	0.738
00000049	30.79	30.80	1.121	0.683	1.151	0.738
00000049	30.80	35.09	1.121	0.683	1.151	0.738
00000049	35.09	36.42	1.121	0.683	1.151	0.738
00000049	36.42	37.84	1.121	0.683	1.151	0.738
00000049	37.84	40.80	2.598	1.375	1.992	1.195
00000049	40.80	53.80	2.598	1.375	1.992	1.195
00000050	0.00	4.91	2.598	1.375	1.992	1.195
00000050	4.91	9.34	2.598	1.375	1.992	1.195
00000050	9.34	17.29	2.598	1.375	1.992	1.195
00000050	17.29	18.24	1.015	0.627	1.921	1.101
00000050	18.24	18.50	1.015	0.627	1.921	1.101
00000050	19.12	23.34	1.015	0.627	1.921	1.101
00000050	23.34	24.93	1.015	0.627	1.921	1.101
00000050	24.93	24.94	1.015	0.627	1.921	1.101
00000050	24.94	26.02	1.015	0.627	1.921	1.101
00000052	0.00	2.12	0.510	0.375	2.271	1.188
00000052	2.12	2.74	0.510	0.375	2.271	1.188
00000053	0.00	3.40	0.498	0.363	0.504	0.333
00000053	3.40	4.63	0.498	0.363	0.504	0.333

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000053	4.63	4.66	0.498	0.363	0.504	0.333
00000054	0.00	1.07	1.015	0.627	1.921	1.101
00000054	1.07	4.56	1.015	0.627	1.921	1.101
00000054	4.56	5.65	1.015	0.627	1.921	1.101
00000054	5.65	6.67	1.015	0.627	1.921	1.101
00000054	6.67	8.13	1.125	0.689	1.473	0.835
00000054	8.13	8.71	1.125	0.689	1.473	0.835
00000054	8.71	10.60	1.015	0.627	1.921	1.101
00000054	10.60	11.86	1.015	0.627	1.921	1.101
00000055	20.00	21.75	1.109	0.659	1.279	0.843
00000055	21.75	42.28	1.109	0.659	1.279	0.843
00000055	42.28	60.54	1.109	0.659	1.279	0.843
00000056	0.00	1.25	0.519	0.396	1.097	0.723
00000056	1.25	2.20	0.519	0.396	1.097	0.723
00000056	2.20	9.19	0.519	0.396	1.097	0.723
00000057	0.00	3.58	1.127	0.738	1.624	1.029
00000057	3.58	6.53	1.127	0.738	1.624	1.029
00000057	6.53	9.79	1.127	0.738	1.624	1.029
00000057	9.79	11.60	1.127	0.738	1.624	1.029
00000057	11.60	12.67	1.127	0.738	1.624	1.029
00000057	12.67	14.68	1.127	0.738	1.624	1.029
00000057	14.68	15.82	1.127	0.738	1.624	1.029
00000057	15.82	20.53	1.127	0.738	1.624	1.029
00000057	20.53	21.10	1.127	0.738	1.624	1.029
00000059	0.00	0.15	0.498	0.363	0.504	0.333
00000062	0.00	0.47	1.262	0.834	1.673	1.029
00000063	0.00	0.90	1.262	0.834	1.673	1.029
00000063	0.90	3.09	1.262	0.834	1.673	1.029
00000064	0.00	0.32	0.888	0.559	0.772	0.513
00000066	0.00	3.62	0.800	0.543	0.916	0.591
00000067	0.00	0.80	1.867	1.078	1.750	1.056
00000067	0.80	1.29	1.867	1.078	1.750	1.056
00000067	1.29	1.86	1.262	0.834	1.673	1.029
00000068	0.00	1.00	0.630	0.388	0.493	0.333
00000068	1.00	2.85	0.630	0.388	0.493	0.333
00000068	2.85	7.80	0.534	0.362	0.578	0.385
00000070	0.00	18.53	0.731	0.527	1.350	0.858
00000070	18.61	23.03	0.731	0.527	1.350	0.858
00000070	23.03	26.05	0.731	0.527	1.350	0.858
00000070	26.05	33.31	0.731	0.527	1.350	0.858
00000070	33.31	37.52	0.731	0.527	1.350	0.858
00000070	37.52	40.30	0.731	0.527	1.350	0.858
00000070	40.30	43.27	0.731	0.527	1.350	0.858
00000070	43.27	58.26	0.800	0.543	0.916	0.591
00000070	58.44	59.84	0.800	0.543	0.916	0.591
00000071	0.00	1.72	0.800	0.543	0.916	0.591
00000071	1.72	4.89	0.800	0.543	0.916	0.591
00000071	4.89	5.10	0.800	0.543	0.916	0.591
00000071	5.42	5.57	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation  
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Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000071	5.57	9.00	0.676	0.454	1.421	0.763
00000071	9.00	9.37	0.676	0.454	1.421	0.763
00000071	9.37	9.47	0.676	0.454	1.421	0.763
00000071	9.47	12.96	0.676	0.454	1.421	0.763
00000071	12.96	13.78	0.676	0.454	1.421	0.763
00000071	13.78	15.58	0.676	0.454	1.421	0.763
00000071	15.58	16.78	0.676	0.454	1.421	0.763
00000072	0.00	1.66	1.529	0.843	1.272	0.817
00000072	1.66	16.20	1.529	0.843	1.272	0.817
00000072	16.20	16.22	1.529	0.843	1.272	0.817
00000072	16.22	22.80	0.986	0.687	1.790	1.145
00000072	22.80	23.00	0.986	0.687	1.790	1.145
00000072	23.00	26.75	0.986	0.687	1.790	1.145
00000072	27.08	28.48	0.986	0.687	1.790	1.145
00000072	28.48	28.76	0.986	0.687	1.790	1.145
00000073	0.00	2.40	1.015	0.627	1.921	1.101
00000073	2.40	4.00	1.015	0.627	1.921	1.101
00000073	4.00	4.14	1.015	0.627	1.921	1.101
00000073	4.14	6.06	0.630	0.388	0.493	0.333
00000073	6.06	8.90	0.912	0.594	1.305	0.786
00000073	8.90	11.50	0.912	0.594	1.305	0.786
00000073	11.50	13.20	0.912	0.594	1.305	0.786
00000073	13.20	34.69	0.912	0.594	1.305	0.786
00000076	0.00	3.09	0.983	0.623	1.219	0.784
00000076C	0.00	1.22	0.731	0.527	1.350	0.858
00000077	0.00	2.10	0.519	0.396	1.097	0.723
00000077	2.10	6.14	0.519	0.396	1.097	0.723
00000077	6.14	10.00	0.519	0.396	1.097	0.723
00000077	10.00	14.10	0.519	0.396	1.097	0.723
00000077	14.10	14.60	0.519	0.396	1.097	0.723
00000077	14.60	18.29	0.519	0.396	1.097	0.723
00000077	18.29	22.16	0.519	0.396	1.097	0.723
00000077	22.16	22.55	0.519	0.396	1.097	0.723
00000078	0.00	7.76	0.510	0.377	1.223	0.812
00000078	7.76	14.53	0.699	0.449	1.098	0.734
00000078	14.53	25.54	0.699	0.449	1.098	0.734
00000078	25.54	30.15	0.699	0.449	1.098	0.734
00000078	30.15	30.81	0.699	0.449	1.098	0.734
00000078	30.81	31.33	0.699	0.449	1.098	0.734
00000078	31.33	42.71	0.868	0.558	1.247	0.815
00000078	42.71	52.21	0.868	0.558	1.247	0.815
00000078	52.21	58.51	0.868	0.558	1.247	0.815
00000078	58.51	59.01	0.868	0.558	1.247	0.815
00000078	62.01	67.04	0.868	0.558	1.247	0.815
00000078	67.04	67.84	0.868	0.558	1.247	0.815
00000079	0.00	1.43	1.702	0.981	1.508	0.934
00000079	1.43	1.59	1.702	0.981	1.508	0.934
00000079	1.59	3.40	1.702	0.981	1.508	0.934
00000079	3.40	5.47	0.942	0.598	0.845	0.549

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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)
00000079	5.47	6.17	0.942	0.598	0.845	0.549
00000079	6.17	10.90	0.942	0.598	0.845	0.549
00000079	10.90	12.13	0.942	0.598	0.845	0.549
00000080	0.00	4.72	0.510	0.377	1.223	0.812
00000080	4.72	18.28	0.699	0.449	1.098	0.734
00000080	18.28	19.90	0.699	0.449	1.098	0.734
00000080	19.90	23.25	0.699	0.449	1.098	0.734
00000080	23.25	68.56	1.054	0.655	1.353	0.876
00000081	0.00	1.18	1.325	0.820	1.720	1.081
00000082	0.00	3.83	0.498	0.363	0.504	0.333
00000082	3.83	4.92	0.498	0.363	0.504	0.333
00000083	0.00	3.81	1.121	0.683	1.151	0.738
00000087	0.00	0.60	0.510	0.375	2.271	1.188
00000088	0.00	0.60	0.800	0.543	0.916	0.591
00000088	0.60	5.20	0.800	0.543	0.916	0.591
00000088	5.20	5.45	0.800	0.543	0.916	0.591
00000088	5.45	5.62	0.800	0.543	0.916	0.591
00000088	5.62	7.70	0.800	0.543	0.916	0.591
00000088	7.70	10.02	0.800	0.543	0.916	0.591
00000088Z	0.00	0.19	0.800	0.543	0.916	0.591
00000090	0.00	3.15	1.109	0.659	1.279	0.843
00000091	0.00	2.26	0.534	0.362	0.578	0.385
00000093	0.00	3.50	1.262	0.834	1.673	1.029
00000094	0.00	0.63	1.867	1.078	1.750	1.056
00000094	0.63	17.08	1.867	1.078	1.750	1.056
00000094	17.08	22.00	1.867	1.078	1.750	1.056
00000094	22.00	22.47	1.867	1.078	1.750	1.056
00000094	24.91	25.78	1.867	1.078	1.750	1.056
00000094	25.78	27.70	1.867	1.078	1.750	1.056
00000094	28.00	32.38	1.867	1.078	1.750	1.056
00000094	32.38	35.31	1.867	1.078	1.750	1.056
00000094	35.31	36.14	1.867	1.078	1.750	1.056
00000094	36.14	41.76	1.867	1.078	1.750	1.056
00000094	41.76	43.30	1.867	1.078	1.750	1.056
00000094	43.30	45.93	1.867	1.078	1.750	1.056
00000095	0.00	7.51	1.837	1.013	1.443	0.919
00000095	7.51	16.56	1.837	1.013	1.443	0.919
00000095	16.56	19.46	1.046	0.639	1.196	0.780
00000095	19.46	23.41	1.046	0.639	1.196	0.780
00000095	23.41	24.48	1.046	0.639	1.196	0.780
00000095	24.48	77.41	1.054	0.655	1.353	0.876
00000095W	0.00	11.26	0.706	0.470	1.302	0.860
00000109	0.00	1.11	2.598	1.375	1.992	1.195
00000109	1.11	1.16	2.598	1.375	1.992	1.195
00000109	1.16	1.32	2.598	1.375	1.992	1.195
00000109	2.31	3.06	1.121	0.683	1.151	0.738
00000120	0.00	1.34	1.325	0.820	1.720	1.081
00000120	1.34	2.65	1.262	0.834	1.673	1.029
00000122	0.00	1.15	1.385	0.843	1.698	1.091

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000122	1.15	2.42	1.385	0.843	1.698	1.091
00000124	0.00	0.78	0.498	0.363	0.504	0.333
00000124	0.78	1.50	0.498	0.363	0.504	0.333
00000124	1.50	4.37	1.867	1.078	1.750	1.056
00000124	4.37	4.47	1.867	1.078	1.750	1.056
00000124	4.47	7.34	0.498	0.363	0.504	0.333
00000124	7.34	8.96	0.498	0.363	0.504	0.333
00000124	8.96	9.83	0.498	0.363	0.504	0.333
00000124	9.83	11.30	0.498	0.363	0.504	0.333
00000124	11.30	11.36	0.498	0.363	0.504	0.333
00000124	11.36	11.54	0.498	0.363	0.504	0.333
00000124	11.54	14.74	0.498	0.363	0.504	0.333
00000129	0.00	2.41	0.656	0.476	0.778	0.518
00000130	0.00	3.00	0.519	0.396	1.097	0.723
00000130	3.00	5.17	0.519	0.396	1.097	0.723
00000130	5.17	5.20	0.519	0.396	1.097	0.723
00000130	5.20	8.80	0.519	0.396	1.097	0.723
00000130	8.84	12.21	0.519	0.396	1.097	0.723
00000130	12.21	14.29	0.656	0.476	0.778	0.518
00000130	23.61	23.90	0.656	0.476	0.778	0.518
00000130	23.90	25.30	0.656	0.476	0.778	0.518
00000130	25.30	28.20	0.656	0.476	0.778	0.518
00000130	28.20	29.48	0.656	0.476	0.778	0.518
00000130	30.48	53.57	0.656	0.476	0.778	0.518
00000130	53.57	66.21	0.656	0.476	0.778	0.518
00000130	66.21	68.20	0.888	0.559	0.772	0.513
00000130	68.20	68.26	0.888	0.559	0.772	0.513
00000130	68.26	70.00	0.888	0.559	0.772	0.513
00000130	70.00	71.37	0.888	0.559	0.772	0.513
00000130	71.37	72.90	0.888	0.559	0.772	0.513
00000130	72.90	83.46	0.888	0.559	0.772	0.513
00000133	0.00	4.06	1.360	0.802	1.343	0.864
00000138	0.00	3.52	1.109	0.659	1.279	0.843
00000139	0.00	1.45	1.262	0.834	1.673	1.029
00000139U	0.00	0.83	1.262	0.834	1.673	1.029
00000140	0.00	0.88	0.519	0.396	1.097	0.723
00000140	0.88	0.96	0.519	0.396	1.097	0.723
00000143	0.00	2.35	0.630	0.388	0.493	0.333
00000147	0.00	0.33	2.598	1.375	1.992	1.195
00000147	0.33	0.65	1.121	0.683	1.151	0.738
00000147	0.65	3.24	1.121	0.683	1.151	0.738
00000147	3.30	4.20	1.121	0.683	1.151	0.738
00000152	0.00	0.17	0.510	0.375	2.271	1.188
00000152	0.17	1.35	0.510	0.375	2.271	1.188
00000152	1.90	2.17	0.510	0.375	2.271	1.188
00000152	2.17	3.16	0.510	0.375	2.271	1.188
00000154	0.00	1.58	0.731	0.527	1.350	0.858
00000156	0.00	1.28	0.534	0.362	0.578	0.385
00000157	0.00	0.91	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000159	0.00	0.45	0.498	0.363	0.504	0.333
00000159	0.45	0.80	1.867	1.078	1.750	1.056
00000159	0.80	1.36	1.867	1.078	1.750	1.056
00000161	0.00	1.10	1.867	1.078	1.750	1.056
00000162	0.00	0.70	2.598	1.375	1.992	1.195
00000163	0.00	0.30	1.867	1.078	1.750	1.056
00000165	0.00	0.26	1.867	1.078	1.750	1.056
00000166	0.00	0.47	0.676	0.454	1.421	0.763
00000166	0.47	1.97	0.676	0.454	1.421	0.763
00000166	1.97	2.22	0.800	0.543	0.916	0.591
00000166	2.22	3.75	0.800	0.543	0.916	0.591
00000166Z	0.00	0.11	0.676	0.454	1.421	0.763
00000166Z	0.11	0.19	0.676	0.454	1.421	0.763
00000166Z	0.19	0.44	0.676	0.454	1.421	0.763
00000167	0.00	0.62	0.676	0.454	1.421	0.763
00000167	2.61	2.76	0.676	0.454	1.421	0.763
00000168	0.00	9.72	0.731	0.527	1.350	0.858
00000168	9.72	10.75	0.731	0.527	1.350	0.858
00000171	0.00	0.98	0.534	0.362	0.578	0.385
00000172	0.00	0.45	0.534	0.362	0.578	0.385
00000172	0.45	0.69	0.534	0.362	0.578	0.385
00000173	0.00	4.00	1.867	1.078	1.750	1.056
00000173	4.00	4.30	1.867	1.078	1.750	1.056
00000173	4.30	8.00	1.867	1.078	1.750	1.056
00000173	8.00	11.00	1.867	1.078	1.750	1.056
00000173	11.00	11.70	1.867	1.078	1.750	1.056
00000173	12.81	14.62	1.867	1.078	1.750	1.056
00000173Z	0.00	0.68	1.867	1.078	1.750	1.056
00000173Z	1.12	1.67	1.867	1.078	1.750	1.056
00000175	0.00	0.27	0.534	0.362	0.578	0.385
00000175	0.27	1.79	0.534	0.362	0.578	0.385
00000175	1.79	1.80	0.534	0.362	0.578	0.385
00000175	1.80	2.15	0.534	0.362	0.578	0.385
00000175	2.15	2.95	0.534	0.362	0.578	0.385
00000179	0.00	0.32	1.867	1.078	1.750	1.056
00000179	0.37	2.15	1.867	1.078	1.750	1.056
00000179	2.15	5.78	1.867	1.078	1.750	1.056
00000179	5.78	6.48	1.867	1.078	1.750	1.056
00000179	6.48	7.46	1.867	1.078	1.750	1.056
00000181	0.00	1.65	1.867	1.078	1.750	1.056
00000181	1.65	5.02	1.867	1.078	1.750	1.056
00000181	5.02	5.43	1.867	1.078	1.750	1.056
00000181	5.43	5.82	1.867	1.078	1.750	1.056
00000181	5.82	7.47	1.867	1.078	1.750	1.056
00000181Z	0.00	0.12	1.867	1.078	1.750	1.056
00000182	0.00	0.96	1.127	0.738	1.624	1.029
00000183	0.00	0.60	0.826	0.543	1.449	0.865
00000183	0.60	2.12	0.826	0.543	1.449	0.865
00000184	0.00	0.35	0.498	0.363	0.504	0.333

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000184	0.35	0.75	0.498	0.363	0.504	0.333
00000184	0.75	1.25	0.498	0.363	0.504	0.333
00000184	1.25	1.37	0.498	0.363	0.504	0.333
00000185	0.00	0.65	1.262	0.834	1.673	1.029
00000187	0.00	0.40	0.510	0.375	2.271	1.188
00000195	0.00	8.38	1.837	1.013	1.443	0.919
00000195	8.38	16.76	1.046	0.639	1.196	0.780
00000195	16.76	34.17	1.046	0.639	1.196	0.780
00000202	0.00	0.63	0.710	0.449	0.665	0.439
00000202	0.63	5.18	0.520	0.380	0.923	0.610
00000202	5.18	24.39	0.355	0.281	0.924	0.601
00000202	24.39	24.48	1.137	0.724	1.212	0.804
00000202	24.48	31.51	1.137	0.724	1.212	0.804
00000202	31.51	32.20	1.867	1.078	1.750	1.056
00000202	32.20	32.54	1.867	1.078	1.750	1.056
00000202	32.54	33.90	1.867	1.078	1.750	1.056
00000202	33.90	37.10	1.867	1.078	1.750	1.056
00000202	37.10	39.10	1.867	1.078	1.750	1.056
00000202	39.10	44.30	1.867	1.078	1.750	1.056
00000202	44.30	44.53	1.867	1.078	1.750	1.056
00000202	44.53	44.60	0.498	0.363	0.504	0.333
00000202	44.60	47.00	0.498	0.363	0.504	0.333
00000202	47.00	51.20	0.498	0.363	0.504	0.333
00000202	51.20	51.53	0.498	0.363	0.504	0.333
00000202	51.53	53.16	1.867	1.078	1.750	1.056
00000202	53.16	53.60	1.867	1.078	1.750	1.056
00000202	53.60	54.20	1.867	1.078	1.750	1.056
00000202	54.20	55.20	1.867	1.078	1.750	1.056
00000202	55.20	56.09	1.867	1.078	1.750	1.056
00000202	56.09	60.40	1.867	1.078	1.750	1.056
00000202	60.40	62.50	1.867	1.078	1.750	1.056
00000202	62.50	62.65	1.867	1.078	1.750	1.056
00000202	62.65	62.95	1.262	0.834	1.673	1.029
00000202	62.95	65.32	1.262	0.834	1.673	1.029
00000202	65.32	67.95	1.262	0.834	1.673	1.029
00000202	67.95	68.80	1.262	0.834	1.673	1.029
00000202	68.80	70.50	1.262	0.834	1.673	1.029
00000202	70.50	80.30	1.262	0.834	1.673	1.029
00000206	0.00	6.28	1.125	0.689	1.473	0.835
00000206	6.28	11.05	1.277	0.757	1.058	0.661
00000206	11.05	26.21	1.406	0.823	1.251	0.811
00000206	26.21	29.54	1.406	0.823	1.251	0.811
00000206	29.54	35.61	1.406	0.823	1.251	0.811
00000206	36.27	38.89	0.710	0.482	1.045	0.675
00000206	38.89	43.22	0.710	0.482	1.045	0.675
00000206	43.22	45.00	0.710	0.482	1.045	0.675
00000206	45.00	48.30	0.710	0.482	1.045	0.675
00000206	48.30	50.21	0.710	0.482	1.045	0.675
00000206	50.21	52.90	0.710	0.482	1.045	0.675

**New Jersey Department of Transportation  
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Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000206	52.90	53.95	0.710	0.482	1.045	0.675
00000206	53.95	54.82	0.710	0.482	1.045	0.675
00000206	54.82	57.23	0.710	0.482	1.045	0.675
00000206	57.23	63.06	0.710	0.482	1.045	0.675
00000206	63.06	71.64	0.710	0.482	1.045	0.675
00000206	78.32	82.30	0.498	0.363	0.504	0.333
00000206	82.30	85.63	0.498	0.363	0.504	0.333
00000206	85.63	95.61	0.722	0.494	1.274	0.779
00000206	97.12	102.09	0.722	0.494	1.274	0.779
00000206	102.09	104.50	0.722	0.494	1.274	0.779
00000206	104.50	109.25	0.722	0.494	1.274	0.779
00000206	109.25	110.67	0.722	0.494	1.274	0.779
00000206	110.67	111.57	0.722	0.494	1.274	0.779
00000206	111.57	114.14	0.722	0.494	1.274	0.779
00000206	114.14	129.77	0.722	0.494	1.274	0.779
00000206B	0.00	2.73	0.534	0.362	0.578	0.385
00000206Z	42.57	43.34	0.656	0.476	0.778	0.518
00000206Z	43.34	45.36	0.656	0.476	0.778	0.518
00000208	0.00	10.07	0.710	0.449	0.665	0.439
00000278	0.00	1.99	1.054	0.655	1.353	0.876
00000280	0.00	17.85	1.054	0.655	1.353	0.876
00000284	0.00	0.55	1.867	1.078	1.750	1.056
00000284	0.55	2.34	1.867	1.078	1.750	1.056
00000284	2.34	7.03	1.867	1.078	1.750	1.056
00000287	0.00	5.68	0.582	0.415	1.187	0.790
00000287	5.68	6.08	0.582	0.415	1.187	0.790
00000287	6.08	10.24	0.582	0.415	1.187	0.790
00000287	10.24	20.50	0.738	0.465	1.155	0.741
00000287	20.50	21.45	0.699	0.449	1.098	0.734
00000287	21.45	30.17	0.582	0.415	1.187	0.790
00000287	30.17	53.89	0.582	0.415	1.187	0.790
00000287	53.89	57.15	0.706	0.470	1.302	0.860
00000287	57.15	67.54	0.706	0.470	1.302	0.860
00000295	0.00	5.35	0.294	0.243	1.023	0.687
00000295	5.35	8.93	0.933	0.602	1.386	0.884
00000295	8.93	51.97	0.918	0.576	1.223	0.790
00000295	51.97	52.33	0.738	0.465	1.155	0.741
00000295	52.33	56.10	0.738	0.465	1.155	0.741
00000295	56.10	76.57	0.738	0.465	1.155	0.741
00000322	0.00	2.22	0.912	0.594	1.305	0.786
00000322	2.22	4.82	0.912	0.594	1.305	0.786
00000322	4.82	8.53	0.912	0.594	1.305	0.786
00000322	8.53	10.89	0.912	0.594	1.305	0.786
00000322	10.89	12.19	0.912	0.594	1.305	0.786
00000322	12.19	16.00	0.912	0.594	1.305	0.786
00000322	16.00	17.07	0.912	0.594	1.305	0.786
00000322	17.07	17.74	0.912	0.594	1.305	0.786
00000322	17.74	18.15	0.912	0.594	1.305	0.786
00000322	18.15	19.26	0.912	0.594	1.305	0.786

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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)
00000322	19.26	22.96	0.912	0.594	1.305	0.786
00000322	22.96	24.26	0.912	0.594	1.305	0.786
00000322	24.26	34.62	0.912	0.594	1.305	0.786
00000322	34.62	37.08	1.015	0.627	1.921	1.101
00000322	37.08	43.34	1.015	0.627	1.921	1.101
00000322	43.34	50.16	1.015	0.627	1.921	1.101
00000322B	0.00	0.54	0.519	0.396	1.097	0.723
00000322B	0.54	1.53	0.519	0.396	1.097	0.723
00000324	0.00	1.51	0.519	0.396	1.097	0.723
00000347	0.00	8.33	1.121	0.683	1.151	0.738
00000413	0.00	0.76	0.925	0.578	1.303	0.815
00000439	0.00	0.68	1.262	0.834	1.673	1.029
00000439	0.68	2.44	0.498	0.363	0.504	0.333
00000439	2.44	3.95	1.262	0.834	1.673	1.029
00000440	0.00	2.77	0.983	0.742	0.985	0.664
00000440	2.77	5.15	0.983	0.742	0.985	0.664
00000440	18.00	21.91	1.262	0.834	1.673	1.029
00000440	21.91	26.19	1.262	0.834	1.673	1.029
00000444	0.00	12.09	1.109	0.659	1.279	0.843
00000444	12.09	17.22	1.109	0.659	1.279	0.843
00000444	17.22	45.94	1.109	0.659	1.279	0.843
00000444	45.94	55.71	1.109	0.659	1.279	0.843
00000444	55.71	60.76	1.109	0.659	1.279	0.843
00000444	60.76	126.98	1.109	0.659	1.279	0.843
00000444	127.85	131.80	0.983	0.742	0.985	0.664
00000444	131.80	132.80	0.983	0.742	0.985	0.664
00000444	132.80	172.40	1.325	0.820	1.720	1.081
00000444S	0.00	0.50	1.109	0.659	1.279	0.843
00000445	0.00	11.06	0.729	0.508	1.110	0.727
00000445S	0.00	0.42	1.325	0.820	1.720	1.081
00000446	0.00	14.02	1.109	0.659	1.279	0.843
00000446	14.02	25.30	1.109	0.659	1.279	0.843
00000446	25.30	29.50	1.109	0.659	1.279	0.843
00000446	29.50	30.90	1.109	0.659	1.279	0.843
00000446	30.90	44.19	1.109	0.659	1.279	0.843
00000446X	0.00	1.98	1.109	0.659	1.279	0.843
00000495	0.00	2.20	1.325	0.820	1.720	1.081
00000495	2.20	3.45	1.325	0.820	1.720	1.081
00000501	0.00	3.09	0.498	0.363	0.504	0.333
00000501	3.09	3.36	0.498	0.363	0.504	0.333
00000501	3.61	6.23	0.498	0.363	0.504	0.333
00000501	6.23	6.99	0.498	0.363	0.504	0.333
00000501	23.81	27.12	1.867	1.078	1.750	1.056
00000501	27.12	37.21	1.262	0.834	1.673	1.029
00000501	39.62	40.27	1.867	1.078	1.750	1.056
00000501	40.27	40.52	1.867	1.078	1.750	1.056
00000501	42.86	43.86	1.262	0.834	1.673	1.029
00000501	43.86	45.65	1.262	0.834	1.673	1.029
00000501	45.65	45.89	1.262	0.834	1.673	1.029

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
0000501	45.89	46.06	1.262	0.834	1.673	1.029
0000501	46.06	46.14	1.262	0.834	1.673	1.029
0000501	46.14	46.19	1.262	0.834	1.673	1.029
0000501	46.19	48.95	1.262	0.834	1.673	1.029
0000501	48.95	53.07	1.262	0.834	1.673	1.029
0000502	0.00	2.50	1.867	1.078	1.750	1.056
0000502	2.50	3.42	1.867	1.078	1.750	1.056
0000502	3.42	3.64	1.867	1.078	1.750	1.056
0000502	3.64	6.00	1.867	1.078	1.750	1.056
0000502	6.00	7.23	1.867	1.078	1.750	1.056
0000502	7.23	7.24	1.262	0.834	1.673	1.029
0000502	7.24	9.65	1.262	0.834	1.673	1.029
0000502	9.65	11.29	1.262	0.834	1.673	1.029
0000502	11.29	11.88	1.262	0.834	1.673	1.029
0000502	11.88	13.00	1.262	0.834	1.673	1.029
0000502	13.00	13.71	1.262	0.834	1.673	1.029
0000502	13.71	14.35	1.262	0.834	1.673	1.029
0000502	14.35	16.94	1.262	0.834	1.673	1.029
0000502	16.94	17.44	1.262	0.834	1.673	1.029
0000502	17.44	20.13	1.262	0.834	1.673	1.029
0000502	20.13	21.24	1.262	0.834	1.673	1.029
0000502	21.24	23.79	1.262	0.834	1.673	1.029
0000503	0.00	1.59	1.262	0.834	1.673	1.029
0000503	1.59	2.45	1.262	0.834	1.673	1.029
0000503	2.45	3.60	1.262	0.834	1.673	1.029
0000503	3.60	3.87	1.262	0.834	1.673	1.029
0000503	3.87	3.97	1.262	0.834	1.673	1.029
0000503	3.97	5.40	1.262	0.834	1.673	1.029
0000503	5.40	6.31	1.262	0.834	1.673	1.029
0000503	6.31	7.56	1.262	0.834	1.673	1.029
0000503	7.56	7.71	1.262	0.834	1.673	1.029
0000503	7.71	17.95	1.262	0.834	1.673	1.029
0000504	0.00	4.23	1.867	1.078	1.750	1.056
0000504	4.23	5.33	1.867	1.078	1.750	1.056
0000504	5.33	5.68	1.867	1.078	1.750	1.056
0000504	6.47	8.05	1.867	1.078	1.750	1.056
0000504	8.05	8.96	1.867	1.078	1.750	1.056
0000504	8.96	11.65	1.262	0.834	1.673	1.029
0000504	11.65	12.77	1.262	0.834	1.673	1.029
0000504	12.77	13.99	1.262	0.834	1.673	1.029
0000504	13.99	14.05	1.262	0.834	1.673	1.029
0000504	14.05	14.51	1.262	0.834	1.673	1.029
0000504	14.51	14.76	1.262	0.834	1.673	1.029
0000504	14.76	15.76	1.262	0.834	1.673	1.029
0000504	15.76	15.83	1.262	0.834	1.673	1.029
0000504	15.83	15.94	1.867	1.078	1.750	1.056
0000505	0.00	0.48	1.262	0.834	1.673	1.029
0000505	0.48	0.53	1.867	1.078	1.750	1.056
0000505	0.53	0.66	1.262	0.834	1.673	1.029

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	0.66	1.93	1.262	0.834	1.673	1.029
00000505	1.93	2.50	1.262	0.834	1.673	1.029
00000505	2.50	7.48	1.262	0.834	1.673	1.029
00000505	7.48	9.50	1.262	0.834	1.673	1.029
00000505	9.50	10.70	1.262	0.834	1.673	1.029
00000505	10.70	11.48	1.262	0.834	1.673	1.029
00000505	11.48	11.71	1.262	0.834	1.673	1.029
00000505	11.71	17.61	1.262	0.834	1.673	1.029
00000505	17.61	20.64	1.262	0.834	1.673	1.029
00000505Z	0.00	0.48	1.262	0.834	1.673	1.029
00000506	0.00	7.28	1.262	0.834	1.673	1.029
00000506	7.28	7.34	1.867	1.078	1.750	1.056
00000506	7.34	10.43	1.867	1.078	1.750	1.056
00000506	10.52	10.78	1.867	1.078	1.750	1.056
00000506S	0.00	3.93	1.262	0.834	1.673	1.029
00000506S	3.93	4.16	1.262	0.834	1.673	1.029
00000506S	4.16	4.30	1.262	0.834	1.673	1.029
00000506SZ	0.00	0.22	1.262	0.834	1.673	1.029
00000506SZ	0.22	0.29	1.262	0.834	1.673	1.029
00000507	0.00	2.21	1.867	1.078	1.750	1.056
00000507	3.22	4.53	1.262	0.834	1.673	1.029
00000507	4.53	7.04	1.262	0.834	1.673	1.029
00000507	7.04	7.73	1.262	0.834	1.673	1.029
00000507	7.73	8.26	1.262	0.834	1.673	1.029
00000507	8.26	8.82	1.262	0.834	1.673	1.029
00000507	8.82	9.24	1.262	0.834	1.673	1.029
00000507	9.24	9.56	1.262	0.834	1.673	1.029
00000507	9.56	14.35	1.262	0.834	1.673	1.029
00000507	14.35	15.94	1.262	0.834	1.673	1.029
00000507	15.94	18.62	1.262	0.834	1.673	1.029
00000507	18.62	19.04	1.262	0.834	1.673	1.029
00000507	19.04	20.37	1.262	0.834	1.673	1.029
00000507	20.37	20.76	1.262	0.834	1.673	1.029
00000507	21.35	24.19	1.262	0.834	1.673	1.029
00000507	24.19	24.99	1.262	0.834	1.673	1.029
00000507	24.99	26.39	1.262	0.834	1.673	1.029
00000507	26.39	28.34	1.262	0.834	1.673	1.029
00000508	0.00	1.73	0.498	0.363	0.504	0.333
00000508	1.73	3.11	0.498	0.363	0.504	0.333
00000508	3.11	6.22	0.498	0.363	0.504	0.333
00000508	6.22	6.39	1.867	1.078	1.750	1.056
00000508	6.39	6.58	1.867	1.078	1.750	1.056
00000508	6.58	6.70	1.262	0.834	1.673	1.029
00000508	6.70	11.28	1.262	0.834	1.673	1.029
00000508	11.28	11.41	1.262	0.834	1.673	1.029
00000508	11.41	11.53	1.262	0.834	1.673	1.029
00000508	12.36	14.47	1.867	1.078	1.750	1.056
00000508	14.47	16.14	1.867	1.078	1.750	1.056
00000508A	0.00	0.41	1.262	0.834	1.673	1.029

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
0000508S	0.00	0.31	1.262	0.834	1.673	1.029
0000509	0.00	0.61	0.534	0.362	0.578	0.385
0000509	0.61	0.95	1.867	1.078	1.750	1.056
0000509	7.03	8.99	1.867	1.078	1.750	1.056
0000509	8.99	9.40	1.867	1.078	1.750	1.056
0000509	9.40	10.02	1.867	1.078	1.750	1.056
0000509	10.02	11.87	1.867	1.078	1.750	1.056
0000509	11.87	12.41	1.867	1.078	1.750	1.056
0000509	12.41	14.30	1.867	1.078	1.750	1.056
0000509	14.30	15.22	1.867	1.078	1.750	1.056
0000509	15.22	15.51	1.867	1.078	1.750	1.056
0000509	15.51	15.93	1.867	1.078	1.750	1.056
0000509	15.93	16.45	1.867	1.078	1.750	1.056
0000509	16.45	18.58	1.867	1.078	1.750	1.056
0000509	18.58	18.59	1.262	0.834	1.673	1.029
0000509	18.59	19.46	1.867	1.078	1.750	1.056
0000509	19.46	19.83	1.867	1.078	1.750	1.056
0000509	19.83	21.04	1.867	1.078	1.750	1.056
0000509	21.04	21.56	1.867	1.078	1.750	1.056
0000509	21.56	21.81	1.867	1.078	1.750	1.056
0000509	21.81	22.91	1.867	1.078	1.750	1.056
0000509	22.91	28.92	1.867	1.078	1.750	1.056
0000509	29.38	30.46	1.262	0.834	1.673	1.029
0000509	30.46	31.22	1.262	0.834	1.673	1.029
0000509	31.22	31.26	1.262	0.834	1.673	1.029
0000509	31.26	32.43	1.262	0.834	1.673	1.029
0000509	32.43	32.61	1.262	0.834	1.673	1.029
0000509	32.61	32.81	1.262	0.834	1.673	1.029
0000509Z	0.00	0.16	1.262	0.834	1.673	1.029
0000509Z	0.16	0.38	1.262	0.834	1.673	1.029
0000509Z	2.61	2.87	1.262	0.834	1.673	1.029
0000510	0.00	0.30	1.867	1.078	1.750	1.056
0000510	0.30	2.82	1.867	1.078	1.750	1.056
0000510	2.82	3.45	1.867	1.078	1.750	1.056
0000510	3.45	3.90	1.867	1.078	1.750	1.056
0000510	3.90	4.83	1.867	1.078	1.750	1.056
0000510	4.83	8.11	1.867	1.078	1.750	1.056
0000510	8.11	10.94	1.867	1.078	1.750	1.056
0000510	10.94	11.65	1.867	1.078	1.750	1.056
0000510	11.80	12.91	0.498	0.363	0.504	0.333
0000510	12.91	14.33	0.498	0.363	0.504	0.333
0000510	14.33	17.85	0.498	0.363	0.504	0.333
0000510	17.85	28.80	0.498	0.363	0.504	0.333
0000510	28.80	28.99	1.262	0.834	1.673	1.029
0000510	28.99	29.58	1.262	0.834	1.673	1.029
0000510Z	0.00	0.10	0.498	0.363	0.504	0.333
0000510Z	0.10	0.30	0.498	0.363	0.504	0.333
0000510Z	0.30	1.21	0.498	0.363	0.504	0.333
0000511	0.10	2.92	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000511	2.92	6.30	1.867	1.078	1.750	1.056
00000511	9.39	9.70	1.867	1.078	1.750	1.056
00000511	9.70	10.19	1.867	1.078	1.750	1.056
00000511	10.19	17.11	0.498	0.363	0.504	0.333
00000511	17.11	17.87	1.867	1.078	1.750	1.056
00000511	17.87	17.94	1.867	1.078	1.750	1.056
00000511	17.94	17.99	1.867	1.078	1.750	1.056
00000511	17.99	18.03	1.867	1.078	1.750	1.056
00000511	18.03	18.12	1.867	1.078	1.750	1.056
00000511	18.12	18.84	1.867	1.078	1.750	1.056
00000511	18.84	21.13	1.867	1.078	1.750	1.056
00000511	21.13	25.52	1.262	0.834	1.673	1.029
00000511	25.52	28.26	1.262	0.834	1.673	1.029
00000511	28.26	32.72	1.867	1.078	1.750	1.056
00000511	32.72	34.90	1.867	1.078	1.750	1.056
00000511	34.90	37.45	1.867	1.078	1.750	1.056
00000511A	2.38	3.60	1.867	1.078	1.750	1.056
00000511A	3.60	3.96	1.867	1.078	1.750	1.056
00000511A	3.96	4.03	1.867	1.078	1.750	1.056
00000511A	4.03	6.77	1.867	1.078	1.750	1.056
00000511A	6.96	7.93	1.867	1.078	1.750	1.056
00000511A	7.93	8.47	1.262	0.834	1.673	1.029
00000511A	8.47	9.77	1.262	0.834	1.673	1.029
00000512	0.00	0.58	1.867	1.078	1.750	1.056
00000512	0.58	3.42	1.867	1.078	1.750	1.056
00000512	3.42	5.75	1.867	1.078	1.750	1.056
00000512	5.75	7.64	1.867	1.078	1.750	1.056
00000512	7.64	10.13	1.867	1.078	1.750	1.056
00000512	10.13	10.74	0.498	0.363	0.504	0.333
00000512	10.74	13.17	0.498	0.363	0.504	0.333
00000512	13.17	13.99	0.498	0.363	0.504	0.333
00000512	14.25	17.46	0.498	0.363	0.504	0.333
00000512	17.46	18.08	0.498	0.363	0.504	0.333
00000512	18.08	18.56	0.498	0.363	0.504	0.333
00000512	18.56	25.70	1.867	1.078	1.750	1.056
00000512	25.70	31.08	1.867	1.078	1.750	1.056
00000512	31.08	31.16	1.867	1.078	1.750	1.056
00000512	31.16	32.96	1.867	1.078	1.750	1.056
00000513	0.00	0.05	1.867	1.078	1.750	1.056
00000513	0.05	7.43	1.867	1.078	1.750	1.056
00000513	7.43	10.37	1.867	1.078	1.750	1.056
00000513	10.37	11.45	1.867	1.078	1.750	1.056
00000513	12.13	12.23	1.867	1.078	1.750	1.056
00000513	12.23	12.98	1.867	1.078	1.750	1.056
00000513	13.64	14.79	1.867	1.078	1.750	1.056
00000513	14.79	14.86	1.867	1.078	1.750	1.056
00000513	14.86	15.05	1.867	1.078	1.750	1.056
00000513	15.05	15.09	1.867	1.078	1.750	1.056
00000513	15.09	15.97	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	15.97	20.07	1.867	1.078	1.750	1.056
00000513	20.07	21.94	1.867	1.078	1.750	1.056
00000513	21.94	25.85	1.867	1.078	1.750	1.056
00000513	25.85	25.86	1.867	1.078	1.750	1.056
00000513	25.86	26.87	1.867	1.078	1.750	1.056
00000513	26.87	28.16	1.867	1.078	1.750	1.056
00000513	28.16	28.40	1.867	1.078	1.750	1.056
00000513	28.40	29.84	0.498	0.363	0.504	0.333
00000513	29.84	30.32	0.498	0.363	0.504	0.333
00000513	30.32	31.32	1.867	1.078	1.750	1.056
00000513	31.32	35.15	1.867	1.078	1.750	1.056
00000513	35.15	39.17	1.867	1.078	1.750	1.056
00000513	39.17	39.53	1.867	1.078	1.750	1.056
00000513	39.53	40.47	1.867	1.078	1.750	1.056
00000513	40.47	41.13	1.867	1.078	1.750	1.056
00000513	41.13	41.29	1.867	1.078	1.750	1.056
00000513	41.29	42.72	1.867	1.078	1.750	1.056
00000513	42.72	43.13	1.867	1.078	1.750	1.056
00000513	43.13	44.52	1.867	1.078	1.750	1.056
00000513	44.52	44.58	1.867	1.078	1.750	1.056
00000513	44.58	44.90	1.867	1.078	1.750	1.056
00000513	44.90	45.00	1.867	1.078	1.750	1.056
00000513	45.00	45.37	1.867	1.078	1.750	1.056
00000513	45.37	53.56	1.867	1.078	1.750	1.056
00000513	53.56	57.14	1.867	1.078	1.750	1.056
00000513	57.14	57.97	1.867	1.078	1.750	1.056
00000513	57.97	66.83	1.867	1.078	1.750	1.056
00000514	0.00	3.43	1.867	1.078	1.750	1.056
00000514	3.43	5.65	1.867	1.078	1.750	1.056
00000514	5.65	8.94	0.534	0.362	0.578	0.385
00000514	8.94	10.38	0.534	0.362	0.578	0.385
00000514	10.38	21.07	0.534	0.362	0.578	0.385
00000514	21.07	24.62	0.534	0.362	0.578	0.385
00000514	24.62	25.01	0.534	0.362	0.578	0.385
00000514	25.01	32.32	0.498	0.363	0.504	0.333
00000514	32.32	34.71	0.498	0.363	0.504	0.333
00000514	34.71	35.25	0.534	0.362	0.578	0.385
00000514	35.25	38.55	0.534	0.362	0.578	0.385
00000514	38.55	38.92	1.867	1.078	1.750	1.056
00000514	38.92	39.12	1.867	1.078	1.750	1.056
00000514	39.12	42.53	1.867	1.078	1.750	1.056
00000514	42.53	42.71	1.867	1.078	1.750	1.056
00000514	42.71	43.01	0.498	0.363	0.504	0.333
00000514	43.01	43.42	0.498	0.363	0.504	0.333
00000514C	0.00	0.03	0.534	0.362	0.578	0.385
00000514C	0.03	0.05	0.498	0.363	0.504	0.333
00000514S	0.00	0.25	0.498	0.363	0.504	0.333
00000514S	0.27	0.52	0.498	0.363	0.504	0.333
00000515	0.00	6.00	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000515	6.00	8.55	1.867	1.078	1.750	1.056
00000515	10.76	13.05	1.867	1.078	1.750	1.056
00000516	0.00	6.90	0.676	0.454	1.421	0.763
00000516	6.90	8.13	0.676	0.454	1.421	0.763
00000516	8.13	8.78	0.676	0.454	1.421	0.763
00000516	8.78	9.42	0.676	0.454	1.421	0.763
00000516	9.42	10.27	0.676	0.454	1.421	0.763
00000516	10.27	10.65	0.676	0.454	1.421	0.763
00000516	10.65	13.15	0.676	0.454	1.421	0.763
00000516	13.15	13.89	0.676	0.454	1.421	0.763
00000516	14.32	16.04	0.676	0.454	1.421	0.763
00000516	16.04	16.52	0.676	0.454	1.421	0.763
00000516	16.52	19.27	0.676	0.454	1.421	0.763
00000516S	0.00	0.30	0.676	0.454	1.421	0.763
00000516Z	0.00	0.90	0.676	0.454	1.421	0.763
00000517	0.00	0.45	1.867	1.078	1.750	1.056
00000517	0.45	6.16	1.867	1.078	1.750	1.056
00000517	6.16	10.14	1.867	1.078	1.750	1.056
00000517	10.14	14.45	1.867	1.078	1.750	1.056
00000517	15.85	16.88	1.867	1.078	1.750	1.056
00000517	16.88	20.48	1.867	1.078	1.750	1.056
00000517	20.48	22.36	1.867	1.078	1.750	1.056
00000517	22.36	25.90	1.867	1.078	1.750	1.056
00000517	25.90	26.00	1.867	1.078	1.750	1.056
00000517	26.00	26.85	1.867	1.078	1.750	1.056
00000517	26.85	27.04	1.867	1.078	1.750	1.056
00000517	27.12	27.75	1.867	1.078	1.750	1.056
00000517	27.75	32.71	1.867	1.078	1.750	1.056
00000517	32.71	33.00	1.867	1.078	1.750	1.056
00000517	33.00	35.55	1.867	1.078	1.750	1.056
00000517	35.55	36.91	1.867	1.078	1.750	1.056
00000517	36.91	38.60	1.867	1.078	1.750	1.056
00000517	38.60	39.84	1.867	1.078	1.750	1.056
00000517	42.54	43.13	1.867	1.078	1.750	1.056
00000517	43.13	46.45	1.867	1.078	1.750	1.056
00000517	46.84	50.66	1.867	1.078	1.750	1.056
00000517	50.66	53.43	1.867	1.078	1.750	1.056
00000517	53.43	53.86	1.867	1.078	1.750	1.056
00000518	0.00	0.80	1.867	1.078	1.750	1.056
00000518	0.80	0.92	1.867	1.078	1.750	1.056
00000518	0.92	4.53	1.867	1.078	1.750	1.056
00000518	4.53	7.21	0.534	0.362	0.578	0.385
00000518	7.21	9.09	0.534	0.362	0.578	0.385
00000518	9.09	9.52	0.534	0.362	0.578	0.385
00000518	9.52	10.04	0.534	0.362	0.578	0.385
00000518	10.04	10.48	0.534	0.362	0.578	0.385
00000518	10.48	13.74	0.534	0.362	0.578	0.385
00000518	13.74	16.78	0.534	0.362	0.578	0.385
00000518	16.78	20.58	0.534	0.362	0.578	0.385

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000519	0.00	0.15	1.867	1.078	1.750	1.056
00000519	0.15	8.81	1.867	1.078	1.750	1.056
00000519	8.81	11.78	1.867	1.078	1.750	1.056
00000519	11.78	14.86	1.867	1.078	1.750	1.056
00000519	14.86	17.43	1.867	1.078	1.750	1.056
00000519	17.43	17.52	1.867	1.078	1.750	1.056
00000519	17.52	25.35	1.867	1.078	1.750	1.056
00000519	25.35	26.22	1.867	1.078	1.750	1.056
00000519	26.22	27.29	1.867	1.078	1.750	1.056
00000519	27.29	27.36	1.867	1.078	1.750	1.056
00000519	27.59	28.42	1.867	1.078	1.750	1.056
00000519	28.42	32.27	1.867	1.078	1.750	1.056
00000519	32.27	38.62	1.867	1.078	1.750	1.056
00000519	38.62	42.05	1.867	1.078	1.750	1.056
00000519	42.05	45.38	1.867	1.078	1.750	1.056
00000519	45.38	48.41	1.867	1.078	1.750	1.056
00000519	48.41	48.52	1.867	1.078	1.750	1.056
00000519	48.52	54.93	1.867	1.078	1.750	1.056
00000519	54.93	56.33	1.867	1.078	1.750	1.056
00000519	56.33	57.00	1.867	1.078	1.750	1.056
00000519	57.00	59.24	1.867	1.078	1.750	1.056
00000519	59.24	63.62	1.867	1.078	1.750	1.056
00000519	63.62	64.42	1.867	1.078	1.750	1.056
00000519	64.94	65.78	1.867	1.078	1.750	1.056
00000519	65.78	65.90	1.867	1.078	1.750	1.056
00000519	65.90	69.30	1.867	1.078	1.750	1.056
00000519	69.30	69.96	1.867	1.078	1.750	1.056
00000519	69.96	71.65	1.867	1.078	1.750	1.056
00000519	71.65	72.00	1.867	1.078	1.750	1.056
00000519	72.00	77.66	1.867	1.078	1.750	1.056
00000519	77.66	83.70	1.867	1.078	1.750	1.056
00000519	85.91	88.53	1.867	1.078	1.750	1.056
00000520	0.00	2.06	0.676	0.454	1.421	0.763
00000520	2.06	10.25	0.676	0.454	1.421	0.763
00000520	10.25	10.99	0.676	0.454	1.421	0.763
00000520	10.99	14.86	0.676	0.454	1.421	0.763
00000520	14.86	16.81	0.942	0.598	0.845	0.549
00000520	16.84	16.94	0.676	0.454	1.421	0.763
00000520	16.94	17.51	0.676	0.454	1.421	0.763
00000520	17.51	17.84	0.676	0.454	1.421	0.763
00000520	17.84	22.39	0.676	0.454	1.421	0.763
00000521	0.00	1.14	1.867	1.078	1.750	1.056
00000521	1.14	6.09	1.867	1.078	1.750	1.056
00000521	6.35	11.26	1.867	1.078	1.750	1.056
00000521	11.26	12.19	1.867	1.078	1.750	1.056
00000521	12.19	16.09	1.867	1.078	1.750	1.056
00000521	16.09	20.67	1.867	1.078	1.750	1.056
00000521	20.67	23.85	1.867	1.078	1.750	1.056
00000521	23.85	24.98	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
0000521	24.98	27.06	1.867	1.078	1.750	1.056
0000521	36.71	43.72	1.867	1.078	1.750	1.056
0000522	0.00	3.71	0.534	0.362	0.578	0.385
0000522	3.71	5.35	0.534	0.362	0.578	0.385
0000522	5.74	8.06	0.534	0.362	0.578	0.385
0000522	8.06	9.61	0.534	0.362	0.578	0.385
0000522	9.61	10.26	0.534	0.362	0.578	0.385
0000522	10.26	15.06	0.534	0.362	0.578	0.385
0000522	15.06	15.54	0.534	0.362	0.578	0.385
0000522	15.54	15.72	0.534	0.362	0.578	0.385
0000522	15.72	15.83	0.534	0.362	0.578	0.385
0000522	15.83	19.40	0.534	0.362	0.578	0.385
0000522	19.40	20.41	0.630	0.388	0.493	0.333
0000522	20.41	20.99	0.630	0.388	0.493	0.333
0000523	0.00	0.28	1.867	1.078	1.750	1.056
0000523	0.28	6.39	1.867	1.078	1.750	1.056
0000523	6.39	9.13	1.867	1.078	1.750	1.056
0000523	9.13	9.33	1.867	1.078	1.750	1.056
0000523	9.33	9.75	1.867	1.078	1.750	1.056
0000523	9.75	10.23	1.867	1.078	1.750	1.056
0000523	10.23	10.35	1.867	1.078	1.750	1.056
0000523	10.35	11.72	1.867	1.078	1.750	1.056
0000523	11.72	12.66	1.867	1.078	1.750	1.056
0000523	12.66	14.11	1.867	1.078	1.750	1.056
0000523	14.11	15.67	1.867	1.078	1.750	1.056
0000523	15.67	19.48	1.867	1.078	1.750	1.056
0000523	19.48	20.36	1.867	1.078	1.750	1.056
0000523	20.55	22.42	1.867	1.078	1.750	1.056
0000523	22.42	22.84	1.867	1.078	1.750	1.056
0000523	22.84	23.68	1.867	1.078	1.750	1.056
0000523	23.68	29.16	1.867	1.078	1.750	1.056
0000523	29.16	29.55	1.867	1.078	1.750	1.056
0000524	0.00	1.91	0.656	0.476	0.778	0.518
0000524	1.91	6.21	0.534	0.362	0.578	0.385
0000524	6.21	6.81	0.534	0.362	0.578	0.385
0000524	6.81	7.04	0.534	0.362	0.578	0.385
0000524	7.04	7.26	0.534	0.362	0.578	0.385
0000524	7.26	7.91	0.534	0.362	0.578	0.385
0000524	7.91	14.74	0.534	0.362	0.578	0.385
0000524	14.74	14.81	0.630	0.388	0.493	0.333
0000524	14.81	15.84	0.630	0.388	0.493	0.333
0000524	15.84	18.10	0.630	0.388	0.493	0.333
0000524	18.10	20.00	0.630	0.388	0.493	0.333
0000524	20.00	20.41	0.630	0.388	0.493	0.333
0000524	20.41	21.23	0.630	0.388	0.493	0.333
0000524	21.23	25.52	0.630	0.388	0.493	0.333
0000524	25.52	29.79	0.676	0.454	1.421	0.763
0000524	29.79	30.53	0.676	0.454	1.421	0.763
0000524	30.53	32.04	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000524	32.04	33.05	0.676	0.454	1.421	0.763
00000524	33.05	35.03	0.676	0.454	1.421	0.763
00000524	35.03	35.90	0.676	0.454	1.421	0.763
00000524	35.90	36.08	0.676	0.454	1.421	0.763
00000524	36.08	36.29	0.676	0.454	1.421	0.763
00000524	36.29	36.63	0.676	0.454	1.421	0.763
00000524	36.63	39.90	0.676	0.454	1.421	0.763
00000524A	0.00	3.74	0.676	0.454	1.421	0.763
00000524S	0.00	3.39	0.676	0.454	1.421	0.763
00000525	0.00	1.03	0.534	0.362	0.578	0.385
00000525	1.03	2.72	0.534	0.362	0.578	0.385
00000525	2.72	2.99	0.534	0.362	0.578	0.385
00000525	2.99	3.81	0.534	0.362	0.578	0.385
00000525	3.81	4.15	1.867	1.078	1.750	1.056
00000525	4.15	4.98	1.867	1.078	1.750	1.056
00000525	4.98	7.22	1.867	1.078	1.750	1.056
00000525	7.22	11.56	1.867	1.078	1.750	1.056
00000525	11.68	12.41	1.867	1.078	1.750	1.056
00000525	12.41	15.15	1.867	1.078	1.750	1.056
00000525	15.15	15.61	1.867	1.078	1.750	1.056
00000525	15.61	16.88	1.867	1.078	1.750	1.056
00000526	0.00	0.68	0.534	0.362	0.578	0.385
00000526	0.68	1.03	0.534	0.362	0.578	0.385
00000526	1.03	3.04	0.534	0.362	0.578	0.385
00000526	3.04	3.42	0.534	0.362	0.578	0.385
00000526	3.42	3.64	0.534	0.362	0.578	0.385
00000526	3.64	6.58	0.534	0.362	0.578	0.385
00000526	7.02	7.37	0.534	0.362	0.578	0.385
00000526	7.37	10.19	0.534	0.362	0.578	0.385
00000526	10.19	10.50	0.534	0.362	0.578	0.385
00000526	10.52	11.40	0.534	0.362	0.578	0.385
00000526	11.40	17.47	0.534	0.362	0.578	0.385
00000526	17.47	18.62	0.630	0.388	0.493	0.333
00000526	18.62	19.61	0.630	0.388	0.493	0.333
00000526	19.61	20.07	0.630	0.388	0.493	0.333
00000526	20.07	20.08	0.630	0.388	0.493	0.333
00000526	20.08	20.42	0.630	0.388	0.493	0.333
00000526	20.42	24.94	0.630	0.388	0.493	0.333
00000526	24.94	25.27	0.630	0.388	0.493	0.333
00000526	25.27	25.37	0.630	0.388	0.493	0.333
00000526	25.37	26.96	0.630	0.388	0.493	0.333
00000526	26.96	27.74	0.630	0.388	0.493	0.333
00000526	27.74	31.73	0.676	0.454	1.421	0.763
00000526	31.73	34.56	0.800	0.543	0.916	0.591
00000526	34.56	35.56	0.800	0.543	0.916	0.591
00000526A	0.00	0.44	0.534	0.362	0.578	0.385
00000527	0.11	0.85	0.676	0.454	1.421	0.763
00000527	0.85	1.97	0.676	0.454	1.421	0.763
00000527	1.97	3.76	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	3.76	4.10	0.676	0.454	1.421	0.763
00000527	4.10	11.71	0.676	0.454	1.421	0.763
00000527	11.71	15.49	0.630	0.388	0.493	0.333
00000527	15.49	18.47	0.630	0.388	0.493	0.333
00000527	18.47	19.59	0.630	0.388	0.493	0.333
00000527	19.59	21.59	0.630	0.388	0.493	0.333
00000527	21.59	22.43	0.630	0.388	0.493	0.333
00000527	22.43	23.03	0.630	0.388	0.493	0.333
00000527	23.03	24.38	0.630	0.388	0.493	0.333
00000527	24.38	26.61	0.630	0.388	0.493	0.333
00000527	26.61	27.02	0.630	0.388	0.493	0.333
00000527	27.02	28.09	0.630	0.388	0.493	0.333
00000527	28.09	29.28	0.534	0.362	0.578	0.385
00000527	29.28	29.40	0.534	0.362	0.578	0.385
00000527	29.40	29.61	0.534	0.362	0.578	0.385
00000527	29.61	29.84	0.534	0.362	0.578	0.385
00000527	29.84	29.97	0.534	0.362	0.578	0.385
00000527	30.08	30.57	0.534	0.362	0.578	0.385
00000527	30.57	33.61	0.534	0.362	0.578	0.385
00000527	33.61	35.90	0.676	0.454	1.421	0.763
00000527	35.90	37.86	0.676	0.454	1.421	0.763
00000527	38.04	38.50	0.676	0.454	1.421	0.763
00000527	38.50	38.68	0.534	0.362	0.578	0.385
00000527	38.68	42.92	0.534	0.362	0.578	0.385
00000527	46.04	46.73	0.534	0.362	0.578	0.385
00000527	46.84	51.58	0.710	0.482	1.045	0.675
00000527	51.58	52.49	0.534	0.362	0.578	0.385
00000527	52.49	53.36	0.534	0.362	0.578	0.385
00000527	53.36	53.59	0.534	0.362	0.578	0.385
00000527	53.59	55.91	0.534	0.362	0.578	0.385
00000527	55.91	57.10	0.534	0.362	0.578	0.385
00000527	57.10	57.72	1.867	1.078	1.750	1.056
00000527	57.72	58.20	1.867	1.078	1.750	1.056
00000527	58.20	61.05	1.867	1.078	1.750	1.056
00000527	61.05	64.46	1.867	1.078	1.750	1.056
00000527	64.46	68.64	1.867	1.078	1.750	1.056
00000527	68.64	69.30	1.867	1.078	1.750	1.056
00000527	69.30	70.08	1.867	1.078	1.750	1.056
00000527	70.10	71.19	0.498	0.363	0.504	0.333
00000527	71.19	71.33	1.867	1.078	1.750	1.056
00000527	71.33	74.38	1.867	1.078	1.750	1.056
00000527	74.38	75.54	1.867	1.078	1.750	1.056
00000527	75.54	76.48	0.498	0.363	0.504	0.333
00000527	76.48	76.90	0.498	0.363	0.504	0.333
00000527	76.90	78.17	0.498	0.363	0.504	0.333
00000527	78.17	79.02	1.867	1.078	1.750	1.056
00000527	79.02	79.05	1.867	1.078	1.750	1.056
00000527	79.05	79.18	1.867	1.078	1.750	1.056
00000527	79.18	80.79	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	81.41	84.80	1.867	1.078	1.750	1.056
00000527	84.80	84.86	1.867	1.078	1.750	1.056
00000527A	0.00	2.87	0.534	0.362	0.578	0.385
00000527A	2.87	2.89	0.534	0.362	0.578	0.385
00000527A	2.89	5.35	0.534	0.362	0.578	0.385
00000527A	5.35	5.74	0.534	0.362	0.578	0.385
00000527A	5.74	5.92	0.534	0.362	0.578	0.385
00000527Z	0.00	0.26	0.498	0.363	0.504	0.333
00000527Z	0.26	0.30	0.498	0.363	0.504	0.333
00000528	0.00	2.95	0.534	0.362	0.578	0.385
00000528	2.95	5.74	0.534	0.362	0.578	0.385
00000528	5.74	8.85	0.630	0.388	0.493	0.333
00000528	8.85	9.30	0.630	0.388	0.493	0.333
00000528	9.30	11.59	0.630	0.388	0.493	0.333
00000528	11.59	12.02	0.630	0.388	0.493	0.333
00000528	12.02	16.06	0.630	0.388	0.493	0.333
00000528	16.06	17.29	0.630	0.388	0.493	0.333
00000528	17.29	18.18	0.630	0.388	0.493	0.333
00000528	18.18	19.92	0.630	0.388	0.493	0.333
00000528	19.92	22.46	0.630	0.388	0.493	0.333
00000528	26.20	27.96	0.630	0.388	0.493	0.333
00000528	27.96	29.09	0.676	0.454	1.421	0.763
00000528	29.09	30.25	0.676	0.454	1.421	0.763
00000528	30.25	30.39	0.800	0.543	0.916	0.591
00000528	30.39	34.94	0.800	0.543	0.916	0.591
00000528	34.94	35.78	0.676	0.454	1.421	0.763
00000528	35.78	39.64	0.676	0.454	1.421	0.763
00000529	0.00	0.25	0.534	0.362	0.578	0.385
00000529	0.25	3.59	0.498	0.363	0.504	0.333
00000529	3.59	5.31	0.498	0.363	0.504	0.333
00000529	5.31	7.16	0.498	0.363	0.504	0.333
00000529	7.16	7.53	0.498	0.363	0.504	0.333
00000529	7.53	7.54	0.534	0.362	0.578	0.385
00000529	7.54	8.41	0.534	0.362	0.578	0.385
00000529	8.41	8.58	1.867	1.078	1.750	1.056
00000529	8.58	9.44	0.498	0.363	0.504	0.333
00000529	9.44	10.07	0.498	0.363	0.504	0.333
00000529	10.07	10.57	0.498	0.363	0.504	0.333
00000530	0.00	2.68	1.406	0.823	1.251	0.811
00000530	2.68	4.85	1.406	0.823	1.251	0.811
00000530	4.85	6.12	1.406	0.823	1.251	0.811
00000530	6.12	8.48	1.406	0.823	1.251	0.811
00000530	8.48	8.78	1.406	0.823	1.251	0.811
00000530	8.78	14.28	1.406	0.823	1.251	0.811
00000530	19.41	19.90	0.630	0.388	0.493	0.333
00000530	19.90	27.29	0.676	0.454	1.421	0.763
00000530	27.29	30.67	0.676	0.454	1.421	0.763
00000530	30.67	31.21	0.676	0.454	1.421	0.763
00000531	0.00	2.49	0.534	0.362	0.578	0.385

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
0000531	2.49	3.43	0.534	0.362	0.578	0.385
0000531	3.43	8.65	0.534	0.362	0.578	0.385
0000531	8.65	8.82	1.867	1.078	1.750	1.056
0000531	8.82	8.91	1.867	1.078	1.750	1.056
0000531	8.91	10.82	1.867	1.078	1.750	1.056
0000531	10.90	13.59	1.867	1.078	1.750	1.056
0000531	13.59	13.61	1.867	1.078	1.750	1.056
0000531Z	0.00	1.19	1.867	1.078	1.750	1.056
0000532	0.00	2.83	0.630	0.388	0.493	0.333
0000532	2.83	4.05	0.630	0.388	0.493	0.333
0000532	4.05	5.35	0.630	0.388	0.493	0.333
0000532	5.35	7.20	0.630	0.388	0.493	0.333
0000532	7.20	19.43	0.676	0.454	1.421	0.763
0000532	27.09	32.97	0.676	0.454	1.421	0.763
0000532	32.97	33.04	0.676	0.454	1.421	0.763
0000532	33.04	33.91	0.676	0.454	1.421	0.763
0000532	33.91	35.19	0.676	0.454	1.421	0.763
0000533	0.00	1.41	0.534	0.362	0.578	0.385
0000533	1.41	3.51	0.534	0.362	0.578	0.385
0000533	3.51	8.41	0.534	0.362	0.578	0.385
0000533	8.41	8.65	0.534	0.362	0.578	0.385
0000533	8.65	10.42	0.534	0.362	0.578	0.385
0000533	10.42	10.88	0.534	0.362	0.578	0.385
0000533	17.33	17.47	0.534	0.362	0.578	0.385
0000533	17.47	22.61	0.534	0.362	0.578	0.385
0000533	22.61	25.14	0.534	0.362	0.578	0.385
0000533	25.14	25.52	0.534	0.362	0.578	0.385
0000533	25.52	26.41	0.534	0.362	0.578	0.385
0000533	26.41	27.39	0.534	0.362	0.578	0.385
0000533	27.39	28.72	0.534	0.362	0.578	0.385
0000533	28.72	29.69	0.534	0.362	0.578	0.385
0000533	29.69	29.89	0.534	0.362	0.578	0.385
0000533	29.89	31.49	0.534	0.362	0.578	0.385
0000533	31.49	32.06	0.534	0.362	0.578	0.385
0000533	32.06	32.14	0.534	0.362	0.578	0.385
0000533	32.14	32.36	0.534	0.362	0.578	0.385
0000533	32.36	32.78	0.534	0.362	0.578	0.385
0000533S	0.00	0.45	0.534	0.362	0.578	0.385
0000533Z	0.00	0.14	0.534	0.362	0.578	0.385
0000534	0.00	0.99	0.731	0.527	1.350	0.858
0000534	0.99	1.17	0.519	0.396	1.097	0.723
0000534	1.17	3.88	0.519	0.396	1.097	0.723
0000534	3.88	4.00	0.519	0.396	1.097	0.723
0000534	4.00	4.42	0.519	0.396	1.097	0.723
0000534	4.42	5.13	0.912	0.594	1.305	0.786
0000534	5.13	8.01	0.912	0.594	1.305	0.786
0000534	8.01	8.51	0.912	0.594	1.305	0.786
0000534	8.51	11.45	0.630	0.388	0.493	0.333
0000534	12.23	17.16	0.630	0.388	0.493	0.333

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000534	17.16	19.26	0.630	0.388	0.493	0.333
00000534	19.26	20.88	0.630	0.388	0.493	0.333
00000534	20.88	22.80	0.630	0.388	0.493	0.333
00000535	0.00	2.00	0.534	0.362	0.578	0.385
00000535	2.00	3.31	0.534	0.362	0.578	0.385
00000535	3.31	3.44	0.534	0.362	0.578	0.385
00000535	3.44	6.41	0.534	0.362	0.578	0.385
00000535	6.41	7.41	0.534	0.362	0.578	0.385
00000535	7.60	13.55	0.534	0.362	0.578	0.385
00000535	13.55	13.74	0.534	0.362	0.578	0.385
00000535	13.74	14.15	0.534	0.362	0.578	0.385
00000535	14.15	14.54	0.534	0.362	0.578	0.385
00000535	14.54	14.73	0.534	0.362	0.578	0.385
00000535	14.73	14.78	0.534	0.362	0.578	0.385
00000535	14.78	14.85	0.534	0.362	0.578	0.385
00000535	14.94	15.77	0.888	0.559	0.772	0.513
00000535	15.77	17.41	0.888	0.559	0.772	0.513
00000535	17.41	20.51	0.888	0.559	0.772	0.513
00000535	20.51	25.82	0.888	0.559	0.772	0.513
00000535	25.82	26.47	0.534	0.362	0.578	0.385
00000535	26.47	27.88	0.534	0.362	0.578	0.385
00000535	27.88	31.73	0.676	0.454	1.421	0.763
00000535	31.73	32.27	0.676	0.454	1.421	0.763
00000535	32.27	32.31	0.534	0.362	0.578	0.385
00000535Z	0.00	0.05	0.534	0.362	0.578	0.385
00000535Z	0.17	0.27	0.534	0.362	0.578	0.385
00000536	24.24	24.38	0.519	0.396	1.097	0.723
00000536	24.38	24.77	0.519	0.396	1.097	0.723
00000536	24.77	27.73	0.630	0.388	0.493	0.333
00000536	27.73	30.18	0.630	0.388	0.493	0.333
00000536	30.18	32.47	0.630	0.388	0.493	0.333
00000536	32.55	33.08	0.630	0.388	0.493	0.333
00000536	33.08	34.38	0.630	0.388	0.493	0.333
00000536	34.38	37.66	0.630	0.388	0.493	0.333
00000536	37.66	38.52	1.015	0.627	1.921	1.101
000005361	0.00	0.08	0.630	0.388	0.493	0.333
00000536S	0.00	1.54	0.912	0.594	1.305	0.786
00000536S	1.54	1.67	0.630	0.388	0.493	0.333
00000536S	1.67	5.96	0.630	0.388	0.493	0.333
00000536S	5.96	7.31	0.630	0.388	0.493	0.333
00000536S	7.31	7.57	0.630	0.388	0.493	0.333
00000536S	8.25	8.63	0.630	0.388	0.493	0.333
00000537	0.00	0.17	0.519	0.396	1.097	0.723
00000537	0.17	0.52	0.519	0.396	1.097	0.723
00000537	0.52	0.64	0.731	0.527	1.350	0.858
00000537	0.64	3.66	0.519	0.396	1.097	0.723
00000537	3.66	4.10	0.534	0.362	0.578	0.385
00000537	4.10	4.53	0.534	0.362	0.578	0.385
00000537	4.53	5.11	0.534	0.362	0.578	0.385

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	5.11	6.64	0.534	0.362	0.578	0.385
00000537	6.64	7.04	0.534	0.362	0.578	0.385
00000537	7.04	7.87	0.534	0.362	0.578	0.385
00000537	7.87	9.39	0.534	0.362	0.578	0.385
00000537	9.39	10.90	0.534	0.362	0.578	0.385
00000537	10.90	11.37	0.534	0.362	0.578	0.385
00000537	11.37	12.15	0.534	0.362	0.578	0.385
00000537	12.15	12.36	0.534	0.362	0.578	0.385
00000537	12.36	18.11	0.534	0.362	0.578	0.385
00000537	18.11	18.81	0.534	0.362	0.578	0.385
00000537	18.81	19.50	0.534	0.362	0.578	0.385
00000537	19.50	19.94	0.534	0.362	0.578	0.385
00000537	19.94	21.61	0.534	0.362	0.578	0.385
00000537	21.61	27.34	0.630	0.388	0.493	0.333
00000537	27.34	28.52	0.630	0.388	0.493	0.333
00000537	28.52	29.44	0.630	0.388	0.493	0.333
00000537	29.44	31.31	0.630	0.388	0.493	0.333
00000537	31.31	38.44	0.630	0.388	0.493	0.333
00000537	38.44	41.67	0.630	0.388	0.493	0.333
00000537	41.67	44.26	0.630	0.388	0.493	0.333
00000537	44.26	46.31	0.630	0.388	0.493	0.333
00000537	47.54	48.16	0.630	0.388	0.493	0.333
00000537	48.16	50.81	0.630	0.388	0.493	0.333
00000537	50.81	52.20	1.702	0.981	1.508	0.934
00000537	52.38	52.87	1.702	0.981	1.508	0.934
00000537	52.87	55.24	1.702	0.981	1.508	0.934
00000537	55.24	61.78	0.630	0.388	0.493	0.333
00000537	61.78	64.50	0.676	0.454	1.421	0.763
000005371	0.00	0.18	0.534	0.362	0.578	0.385
00000537S	0.00	0.35	0.519	0.396	1.097	0.723
00000537S	0.35	1.08	0.519	0.396	1.097	0.723
00000538	0.00	1.04	0.519	0.396	1.097	0.723
00000538	1.04	3.61	0.519	0.396	1.097	0.723
00000538	3.61	7.27	0.519	0.396	1.097	0.723
00000538	7.27	8.05	0.519	0.396	1.097	0.723
00000538	8.05	12.41	0.519	0.396	1.097	0.723
00000538	12.41	13.39	0.519	0.396	1.097	0.723
00000538	13.39	15.07	1.015	0.627	1.921	1.101
00000538	15.07	15.49	1.015	0.627	1.921	1.101
00000538	15.49	15.52	1.015	0.627	1.921	1.101
00000538	15.52	16.27	1.015	0.627	1.921	1.101
00000538	16.27	24.10	1.015	0.627	1.921	1.101
00000539	0.00	3.57	0.676	0.454	1.421	0.763
00000539	3.57	13.78	0.676	0.454	1.421	0.763
00000539	13.78	20.85	0.676	0.454	1.421	0.763
00000539	20.85	25.10	0.630	0.388	0.493	0.333
00000539	25.36	33.71	0.630	0.388	0.493	0.333
00000539	33.71	35.16	0.630	0.388	0.493	0.333
00000539	35.16	37.17	0.630	0.388	0.493	0.333

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000539	37.17	37.71	0.630	0.388	0.493	0.333
00000539	37.71	43.83	0.534	0.362	0.578	0.385
00000539	43.83	44.10	0.534	0.362	0.578	0.385
00000539	45.50	49.42	0.534	0.362	0.578	0.385
00000539	49.42	51.55	0.534	0.362	0.578	0.385
00000539	51.55	51.92	0.534	0.362	0.578	0.385
00000539	52.08	52.16	0.534	0.362	0.578	0.385
00000539	52.16	53.19	0.534	0.362	0.578	0.385
00000539	53.19	53.53	0.534	0.362	0.578	0.385
00000539	53.59	54.32	0.534	0.362	0.578	0.385
00000539A	0.00	1.47	0.534	0.362	0.578	0.385
00000540	0.92	1.53	0.519	0.396	1.097	0.723
00000540	1.53	5.63	0.519	0.396	1.097	0.723
00000540	5.63	6.90	0.519	0.396	1.097	0.723
00000540	6.90	7.41	0.519	0.396	1.097	0.723
00000540	7.41	7.54	0.519	0.396	1.097	0.723
00000540	8.70	8.79	0.519	0.396	1.097	0.723
00000540	8.79	12.47	0.519	0.396	1.097	0.723
00000540	12.47	13.07	0.519	0.396	1.097	0.723
00000540	13.07	13.39	0.519	0.396	1.097	0.723
00000540	13.39	17.17	0.519	0.396	1.097	0.723
00000540	17.17	24.83	0.519	0.396	1.097	0.723
00000540	24.83	25.89	0.519	0.396	1.097	0.723
00000540	25.89	26.56	0.519	0.396	1.097	0.723
00000540	26.56	29.53	0.519	0.396	1.097	0.723
00000540	29.53	30.29	0.519	0.396	1.097	0.723
00000540	30.29	33.09	2.598	1.375	1.992	1.195
00000540	33.09	33.19	2.598	1.375	1.992	1.195
00000540	33.19	33.74	2.598	1.375	1.992	1.195
00000540	33.74	35.72	1.015	0.627	1.921	1.101
00000540	35.72	36.10	1.015	0.627	1.921	1.101
00000540	36.10	39.38	1.015	0.627	1.921	1.101
00000540	39.38	40.30	1.015	0.627	1.921	1.101
00000540	40.30	42.44	1.015	0.627	1.921	1.101
00000540	42.44	43.16	1.015	0.627	1.921	1.101
00000541	0.00	1.79	0.630	0.388	0.493	0.333
00000541	1.79	9.67	0.630	0.388	0.493	0.333
00000541	9.67	10.27	0.630	0.388	0.493	0.333
00000541	10.27	10.62	0.630	0.388	0.493	0.333
00000541	10.62	15.58	0.630	0.388	0.493	0.333
00000541	15.58	16.34	0.534	0.362	0.578	0.385
00000541	16.34	18.35	0.925	0.578	1.303	0.815
00000541	18.35	20.72	0.925	0.578	1.303	0.815
00000541	20.72	23.11	0.925	0.578	1.303	0.815
00000541	23.11	23.84	0.925	0.578	1.303	0.815
00000541T	0.00	1.49	0.534	0.362	0.578	0.385
00000542	0.00	0.16	1.015	0.627	1.921	1.101
00000542	0.16	1.68	1.015	0.627	1.921	1.101
00000542	1.76	4.08	1.015	0.627	1.921	1.101

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000542	4.08	20.57	0.676	0.454	1.421	0.763
00000543	0.00	5.41	0.534	0.362	0.578	0.385
00000543	5.41	5.58	0.731	0.527	1.350	0.858
00000543	5.58	5.77	0.731	0.527	1.350	0.858
00000543	5.77	7.29	0.731	0.527	1.350	0.858
00000543	7.29	10.27	0.925	0.578	1.303	0.815
00000543	10.27	10.46	0.925	0.578	1.303	0.815
00000543	10.46	10.83	0.925	0.578	1.303	0.815
00000543	10.83	12.83	0.925	0.578	1.303	0.815
00000543	12.83	14.72	0.925	0.578	1.303	0.815
00000543	14.72	16.03	0.925	0.578	1.303	0.815
00000543	17.95	19.11	0.534	0.362	0.578	0.385
00000543	19.11	21.93	0.534	0.362	0.578	0.385
00000543	21.93	22.50	0.534	0.362	0.578	0.385
00000543	22.50	22.74	0.534	0.362	0.578	0.385
00000543	22.74	24.39	0.534	0.362	0.578	0.385
00000543	24.39	24.48	0.534	0.362	0.578	0.385
00000543	24.48	24.87	0.534	0.362	0.578	0.385
00000543	24.87	27.60	0.534	0.362	0.578	0.385
00000543	27.60	28.19	0.534	0.362	0.578	0.385
00000543	28.19	28.77	0.534	0.362	0.578	0.385
00000544	0.00	1.84	0.731	0.527	1.350	0.858
00000544	2.16	4.46	0.731	0.527	1.350	0.858
00000544	4.46	4.83	0.731	0.527	1.350	0.858
00000544	4.83	11.12	0.731	0.527	1.350	0.858
00000544	11.12	11.31	0.630	0.388	0.493	0.333
00000544	11.31	13.75	0.630	0.388	0.493	0.333
00000544	13.75	14.94	0.630	0.388	0.493	0.333
00000545	0.00	1.53	0.630	0.388	0.493	0.333
00000545	1.53	4.46	0.630	0.388	0.493	0.333
00000545	4.46	4.83	0.630	0.388	0.493	0.333
00000545	4.83	5.39	0.630	0.388	0.493	0.333
00000545	5.39	6.94	0.630	0.388	0.493	0.333
00000545	6.94	8.89	0.630	0.388	0.493	0.333
00000545	8.89	9.15	0.534	0.362	0.578	0.385
00000545	9.15	12.54	0.534	0.362	0.578	0.385
00000545	12.54	13.73	0.534	0.362	0.578	0.385
00000545	13.73	14.76	0.534	0.362	0.578	0.385
00000546	0.00	5.26	0.534	0.362	0.578	0.385
00000546	5.26	8.38	0.534	0.362	0.578	0.385
00000546	8.38	9.98	0.534	0.362	0.578	0.385
00000547	0.00	1.90	0.630	0.388	0.493	0.333
00000547	1.90	5.54	0.630	0.388	0.493	0.333
00000547	9.28	9.61	0.676	0.454	1.421	0.763
00000547	9.61	9.63	0.676	0.454	1.421	0.763
00000547	9.63	10.18	0.676	0.454	1.421	0.763
00000547	10.18	14.67	0.676	0.454	1.421	0.763
00000547	14.67	15.05	0.676	0.454	1.421	0.763
00000547	15.05	15.33	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
00000547	17.60	20.44	0.676	0.454	1.421	0.763
00000547	20.87	25.98	0.676	0.454	1.421	0.763
00000547	25.98	28.29	0.676	0.454	1.421	0.763
00000547	28.51	29.56	0.676	0.454	1.421	0.763
00000547	29.56	30.36	0.676	0.454	1.421	0.763
00000547S	0.00	0.45	0.676	0.454	1.421	0.763
00000548	0.00	9.18	2.598	1.375	1.992	1.195
00000549	0.00	0.25	0.676	0.454	1.421	0.763
00000549	0.25	1.19	0.676	0.454	1.421	0.763
00000549	1.19	5.96	0.800	0.543	0.916	0.591
00000549	5.96	8.69	0.800	0.543	0.916	0.591
00000549	8.69	11.45	0.800	0.543	0.916	0.591
00000549	11.45	12.09	0.800	0.543	0.916	0.591
00000549	12.09	12.35	0.800	0.543	0.916	0.591
00000549	12.35	13.01	0.676	0.454	1.421	0.763
00000549	13.01	14.37	0.676	0.454	1.421	0.763
00000549	14.37	17.82	0.676	0.454	1.421	0.763
00000549S1	0.00	3.97	0.676	0.454	1.421	0.763
00000549S2	1.45	4.09	0.800	0.543	0.916	0.591
00000550	0.00	4.37	2.598	1.375	1.992	1.195
00000550	4.37	5.37	2.598	1.375	1.992	1.195
00000550	5.37	6.23	2.598	1.375	1.992	1.195
00000550	6.23	8.87	2.598	1.375	1.992	1.195
00000550	8.87	9.03	2.598	1.375	1.992	1.195
00000550	9.03	9.31	2.598	1.375	1.992	1.195
00000550	9.31	10.95	2.598	1.375	1.992	1.195
00000550	10.95	13.63	2.598	1.375	1.992	1.195
00000550	13.63	14.44	2.598	1.375	1.992	1.195
00000550	14.44	15.92	2.598	1.375	1.992	1.195
00000550S	0.00	1.43	2.598	1.375	1.992	1.195
00000550S	1.43	2.48	2.598	1.375	1.992	1.195
00000550S	2.60	4.84	2.598	1.375	1.992	1.195
00000551	0.00	4.66	0.519	0.396	1.097	0.723
00000551	5.12	7.83	0.519	0.396	1.097	0.723
00000551	7.83	11.52	0.519	0.396	1.097	0.723
00000551	11.52	11.76	0.519	0.396	1.097	0.723
00000551	11.76	12.42	0.519	0.396	1.097	0.723
00000551	12.42	15.70	0.519	0.396	1.097	0.723
00000551	15.70	17.01	0.519	0.396	1.097	0.723
00000551	17.01	23.84	0.519	0.396	1.097	0.723
00000551	23.84	24.11	0.519	0.396	1.097	0.723
00000551	24.11	25.50	0.519	0.396	1.097	0.723
00000551	25.50	25.90	0.519	0.396	1.097	0.723
00000551	27.34	27.36	0.519	0.396	1.097	0.723
00000551	27.36	29.08	0.519	0.396	1.097	0.723
00000551	29.46	30.56	0.519	0.396	1.097	0.723
00000551	30.56	32.18	0.519	0.396	1.097	0.723
00000551	32.18	34.57	0.731	0.527	1.350	0.858
00000551S	0.00	1.34	0.519	0.396	1.097	0.723

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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)
0000551S	1.34	1.88	0.519	0.396	1.097	0.723
0000551S	1.88	3.35	0.519	0.396	1.097	0.723
0000551S	3.35	4.27	0.534	0.362	0.578	0.385
0000552	0.00	3.54	0.519	0.396	1.097	0.723
0000552	3.54	10.71	0.519	0.396	1.097	0.723
0000552	10.71	15.28	2.598	1.375	1.992	1.195
0000552	15.28	18.14	2.598	1.375	1.992	1.195
0000552	18.14	18.84	2.598	1.375	1.992	1.195
0000552	18.84	22.05	2.598	1.375	1.992	1.195
0000552	22.05	27.27	1.015	0.627	1.921	1.101
0000552	27.27	27.48	1.015	0.627	1.921	1.101
0000552S	0.00	1.41	2.598	1.375	1.992	1.195
0000552S	1.41	2.26	2.598	1.375	1.992	1.195
0000552S	2.26	3.41	2.598	1.375	1.992	1.195
0000553	0.00	0.14	2.598	1.375	1.992	1.195
0000553	0.14	12.54	2.598	1.375	1.992	1.195
0000553	12.54	14.16	2.598	1.375	1.992	1.195
0000553	14.16	18.73	2.598	1.375	1.992	1.195
0000553	18.73	22.97	0.519	0.396	1.097	0.723
0000553	22.97	23.78	0.519	0.396	1.097	0.723
0000553	23.78	25.97	0.519	0.396	1.097	0.723
0000553	25.97	27.44	0.519	0.396	1.097	0.723
0000553	27.56	29.29	0.519	0.396	1.097	0.723
0000553	29.29	31.06	0.519	0.396	1.097	0.723
0000553	31.06	31.96	0.519	0.396	1.097	0.723
0000553	31.96	33.63	0.519	0.396	1.097	0.723
0000553	33.63	36.16	0.519	0.396	1.097	0.723
0000553	36.16	36.64	0.519	0.396	1.097	0.723
0000553	36.64	39.81	0.519	0.396	1.097	0.723
0000553	39.81	40.23	0.519	0.396	1.097	0.723
0000553	40.23	41.41	0.519	0.396	1.097	0.723
0000553	41.41	41.59	0.519	0.396	1.097	0.723
0000553	41.89	42.19	0.912	0.594	1.305	0.786
0000553	42.19	42.82	0.912	0.594	1.305	0.786
0000553	42.82	43.09	0.912	0.594	1.305	0.786
0000553	43.09	44.25	0.912	0.594	1.305	0.786
0000553	44.25	45.01	0.519	0.396	1.097	0.723
0000553	45.01	48.09	0.519	0.396	1.097	0.723
0000553	48.09	49.32	0.519	0.396	1.097	0.723
0000553	49.32	49.87	0.519	0.396	1.097	0.723
0000553	49.87	50.87	0.519	0.396	1.097	0.723
0000553	50.87	51.22	0.519	0.396	1.097	0.723
0000553A	0.00	0.58	0.519	0.396	1.097	0.723
0000553A	0.58	1.28	0.519	0.396	1.097	0.723
0000553A	1.28	5.37	0.519	0.396	1.097	0.723
0000553A	5.37	6.19	0.519	0.396	1.097	0.723
0000554	0.00	2.29	0.676	0.454	1.421	0.763
0000554	2.29	6.07	0.676	0.454	1.421	0.763
0000555	0.00	3.80	2.598	1.375	1.992	1.195

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	3.80	6.44	2.598	1.375	1.992	1.195
00000555	6.44	7.29	2.598	1.375	1.992	1.195
00000555	7.29	7.79	2.598	1.375	1.992	1.195
00000555	7.79	8.30	2.598	1.375	1.992	1.195
00000555	8.30	9.36	2.598	1.375	1.992	1.195
00000555	9.36	9.48	2.598	1.375	1.992	1.195
00000555	9.48	9.70	2.598	1.375	1.992	1.195
00000555	10.05	10.50	2.598	1.375	1.992	1.195
00000555	10.50	10.55	2.598	1.375	1.992	1.195
00000555	10.55	12.32	2.598	1.375	1.992	1.195
00000555	12.32	12.61	2.598	1.375	1.992	1.195
00000555	12.61	16.56	2.598	1.375	1.992	1.195
00000555	16.93	18.60	1.015	0.627	1.921	1.101
00000555	18.60	21.50	1.015	0.627	1.921	1.101
00000555	21.50	25.49	1.015	0.627	1.921	1.101
00000555	25.49	25.84	1.015	0.627	1.921	1.101
00000555	25.84	34.20	0.519	0.396	1.097	0.723
00000557	0.00	2.84	2.598	1.375	1.992	1.195
00000557	2.84	3.10	2.598	1.375	1.992	1.195
00000557	3.51	3.77	2.598	1.375	1.992	1.195
00000557	3.77	6.89	2.598	1.375	1.992	1.195
00000557	6.89	7.67	2.598	1.375	1.992	1.195
00000557	7.67	8.76	2.598	1.375	1.992	1.195
00000557	8.76	9.42	2.598	1.375	1.992	1.195
00000557	12.75	27.57	2.598	1.375	1.992	1.195
00000557	27.57	27.73	1.015	0.627	1.921	1.101
00000557	30.87	31.85	1.015	0.627	1.921	1.101
00000557	31.85	35.81	1.015	0.627	1.921	1.101
00000557	35.81	36.15	1.015	0.627	1.921	1.101
00000559	0.00	5.23	2.598	1.375	1.992	1.195
00000559	5.23	6.81	2.598	1.375	1.992	1.195
00000559	6.81	9.68	2.598	1.375	1.992	1.195
00000559	9.68	12.05	1.015	0.627	1.921	1.101
00000559	12.05	14.07	1.015	0.627	1.921	1.101
00000559	14.41	15.06	1.015	0.627	1.921	1.101
00000559	15.06	17.74	1.015	0.627	1.921	1.101
00000559	17.74	18.11	1.015	0.627	1.921	1.101
00000559	18.11	26.31	1.015	0.627	1.921	1.101
00000559	26.31	28.02	1.015	0.627	1.921	1.101
00000559	28.02	29.15	1.015	0.627	1.921	1.101
00000559	29.15	29.64	1.015	0.627	1.921	1.101
00000559	29.64	30.84	1.015	0.627	1.921	1.101
00000559A	0.00	0.68	2.598	1.375	1.992	1.195
00000559A	0.68	9.49	1.015	0.627	1.921	1.101
00000560	0.00	2.36	1.867	1.078	1.750	1.056
00000560	2.36	5.05	1.867	1.078	1.750	1.056
00000561	0.00	1.54	0.676	0.454	1.421	0.763
00000561	1.54	4.79	0.676	0.454	1.421	0.763
00000561	4.79	6.05	0.676	0.454	1.421	0.763

**New Jersey Department of Transportation**  
**Bureau of Transportation Data and Support**  
**Traffic & Technology Section**  
**Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	6.05	15.95	1.015	0.627	1.921	1.101
00000561	15.95	20.53	1.015	0.627	1.921	1.101
00000561	20.53	20.98	1.015	0.627	1.921	1.101
00000561	20.98	22.27	1.015	0.627	1.921	1.101
00000561	22.27	22.71	1.015	0.627	1.921	1.101
00000561	22.71	24.42	1.015	0.627	1.921	1.101
00000561	24.42	24.86	0.630	0.388	0.493	0.333
00000561	24.86	25.79	0.630	0.388	0.493	0.333
00000561	25.79	27.82	0.630	0.388	0.493	0.333
00000561	32.48	33.24	0.630	0.388	0.493	0.333
00000561	33.24	35.78	0.630	0.388	0.493	0.333
00000561	36.33	36.76	0.912	0.594	1.305	0.786
00000561	36.76	38.94	0.731	0.527	1.350	0.858
00000561	38.94	39.52	0.731	0.527	1.350	0.858
00000561	39.52	41.19	0.731	0.527	1.350	0.858
00000561	41.19	43.94	0.731	0.527	1.350	0.858
00000561	43.94	44.90	0.731	0.527	1.350	0.858
00000561	44.90	44.96	0.534	0.362	0.578	0.385
00000561	44.96	45.54	0.534	0.362	0.578	0.385
00000561	45.54	45.66	0.534	0.362	0.578	0.385
00000561	45.66	50.52	0.519	0.396	1.097	0.723
00000561	50.52	50.95	0.731	0.527	1.350	0.858
000005611	0.00	0.69	0.630	0.388	0.493	0.333
000005612	0.00	0.17	0.630	0.388	0.493	0.333
000005613	0.00	0.55	0.630	0.388	0.493	0.333
000005614	0.00	0.06	0.630	0.388	0.493	0.333
000005614	0.06	0.56	0.630	0.388	0.493	0.333
00000561A	0.00	1.38	0.676	0.454	1.421	0.763
00000561A	1.38	2.68	0.676	0.454	1.421	0.763
00000561A	2.68	6.04	0.676	0.454	1.421	0.763
00000561A	6.04	6.58	0.676	0.454	1.421	0.763
00000561A	6.58	12.18	0.676	0.454	1.421	0.763
00000561A	12.18	15.79	1.015	0.627	1.921	1.101
00000563	0.00	0.84	0.676	0.454	1.421	0.763
00000563	0.96	3.12	0.676	0.454	1.421	0.763
00000563	3.12	3.36	0.676	0.454	1.421	0.763
00000563	3.36	3.73	0.676	0.454	1.421	0.763
00000563	3.73	4.47	0.676	0.454	1.421	0.763
00000563	4.47	6.27	0.510	0.375	2.271	1.188
00000563	7.14	13.74	0.510	0.375	2.271	1.188
00000563	16.70	19.61	1.015	0.627	1.921	1.101
00000563	19.61	19.87	0.676	0.454	1.421	0.763
00000563	19.87	24.23	0.676	0.454	1.421	0.763
00000563	24.23	24.73	0.676	0.454	1.421	0.763
00000563	24.86	39.98	0.676	0.454	1.421	0.763
00000563	40.07	43.87	0.676	0.454	1.421	0.763
00000565	0.00	4.77	1.867	1.078	1.750	1.056
00000565	4.77	7.20	1.867	1.078	1.750	1.056
00000565	7.20	8.02	1.867	1.078	1.750	1.056

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	8.02	9.40	1.867	1.078	1.750	1.056
00000565	10.07	17.86	1.867	1.078	1.750	1.056
00000567	0.00	1.21	0.534	0.362	0.578	0.385
00000567	1.21	1.65	0.534	0.362	0.578	0.385
00000567	1.65	1.86	0.534	0.362	0.578	0.385
00000567	1.86	4.71	0.534	0.362	0.578	0.385
00000567	4.71	5.56	0.534	0.362	0.578	0.385
00000567	5.56	8.88	0.534	0.362	0.578	0.385
00000567	8.88	8.96	0.534	0.362	0.578	0.385
00000567	8.96	10.02	0.534	0.362	0.578	0.385
00000569	0.00	0.91	0.534	0.362	0.578	0.385
00000569	0.91	0.92	0.534	0.362	0.578	0.385
00000569	0.92	1.24	0.534	0.362	0.578	0.385
00000569	1.24	2.06	0.534	0.362	0.578	0.385
00000569	2.10	5.52	0.534	0.362	0.578	0.385
00000569	5.52	6.97	0.534	0.362	0.578	0.385
00000569	6.97	8.19	0.534	0.362	0.578	0.385
00000569	8.19	8.45	0.534	0.362	0.578	0.385
00000569	8.45	8.53	0.534	0.362	0.578	0.385
00000571	0.00	1.45	0.800	0.543	0.916	0.591
00000571	1.45	5.46	0.676	0.454	1.421	0.763
00000571	5.46	5.73	0.676	0.454	1.421	0.763
00000571	5.73	6.64	0.676	0.454	1.421	0.763
00000571	7.40	14.09	0.630	0.388	0.493	0.333
00000571	14.09	19.55	0.630	0.388	0.493	0.333
00000571	19.55	22.87	0.630	0.388	0.493	0.333
00000571	24.35	25.63	0.630	0.388	0.493	0.333
00000571	26.73	27.01	0.630	0.388	0.493	0.333
00000571	27.01	28.97	0.534	0.362	0.578	0.385
00000571	28.97	30.44	0.534	0.362	0.578	0.385
00000571	30.44	30.68	0.534	0.362	0.578	0.385
00000571	30.68	32.36	0.534	0.362	0.578	0.385
00000571	32.36	32.65	0.534	0.362	0.578	0.385
00000571	32.65	33.99	0.534	0.362	0.578	0.385
00000571	34.42	35.27	0.534	0.362	0.578	0.385
00000571	35.27	36.61	0.534	0.362	0.578	0.385
00000571	36.61	40.87	0.888	0.559	0.772	0.513
00000571	41.21	43.09	0.710	0.482	1.045	0.675
00000571	43.09	43.96	0.710	0.482	1.045	0.675
00000575	0.00	3.36	1.015	0.627	1.921	1.101
00000575	3.36	4.62	1.015	0.627	1.921	1.101
00000575	4.62	6.75	1.015	0.627	1.921	1.101
00000575	8.67	11.78	1.015	0.627	1.921	1.101
00000575	11.78	16.01	0.676	0.454	1.421	0.763
00000575	16.55	17.50	0.676	0.454	1.421	0.763
00000575	17.50	19.50	0.676	0.454	1.421	0.763
00000575	19.50	20.96	0.676	0.454	1.421	0.763
00000577	0.00	0.93	1.867	1.078	1.750	1.056
00000577	0.93	0.98	0.498	0.363	0.504	0.333

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic & Technology Section  
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2023**

**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	0.98	1.79	0.498	0.363	0.504	0.333
00000577	1.79	3.03	0.498	0.363	0.504	0.333
00000577	3.14	4.06	0.498	0.363	0.504	0.333
00000577	4.06	4.57	0.498	0.363	0.504	0.333
00000577	4.57	6.54	1.867	1.078	1.750	1.056
00000577	6.54	6.67	1.867	1.078	1.750	1.056
00000577	6.78	8.05	1.867	1.078	1.750	1.056
00000577	8.05	9.50	1.867	1.078	1.750	1.056
00000577	9.50	10.11	1.262	0.834	1.673	1.029
00000577	10.11	12.85	1.262	0.834	1.673	1.029
00000577	12.85	13.10	1.262	0.834	1.673	1.029
00000577Z	0.00	0.37	0.498	0.363	0.504	0.333
00000579	0.00	2.21	0.534	0.362	0.578	0.385
00000579	2.21	3.29	0.534	0.362	0.578	0.385
00000579	3.29	6.49	0.534	0.362	0.578	0.385
00000579	6.49	7.66	0.534	0.362	0.578	0.385
00000579	7.66	8.90	0.534	0.362	0.578	0.385
00000579	8.90	12.05	0.534	0.362	0.578	0.385
00000579	14.36	14.64	1.867	1.078	1.750	1.056
00000579	14.72	19.22	1.867	1.078	1.750	1.056
00000579	19.33	20.65	1.867	1.078	1.750	1.056
00000579	20.65	27.78	1.867	1.078	1.750	1.056
00000579	27.85	36.71	1.867	1.078	1.750	1.056
00000579	36.71	37.24	1.867	1.078	1.750	1.056
00000581	0.00	3.69	0.519	0.396	1.097	0.723
00000581	3.69	14.14	0.519	0.396	1.097	0.723
00000581	14.14	17.57	0.519	0.396	1.097	0.723
00000583	1.06	5.55	0.534	0.362	0.578	0.385
00000583	5.91	6.52	0.534	0.362	0.578	0.385
00000583	6.52	9.11	0.534	0.362	0.578	0.385
00000585	0.00	0.85	0.510	0.375	2.271	1.188
00000585	0.85	5.86	0.676	0.454	1.421	0.763
00000585	5.86	6.91	0.676	0.454	1.421	0.763
00000585	6.91	8.91	0.676	0.454	1.421	0.763
00000585	8.91	9.57	0.676	0.454	1.421	0.763
00000676	0.00	3.79	0.983	0.623	1.219	0.784
00000676	3.79	4.72	0.983	0.623	1.219	0.784
00000700	0.00	1.88	1.109	0.659	1.279	0.843
00000700	1.88	7.20	1.109	0.659	1.279	0.843
00000700	7.20	7.31	1.109	0.659	1.279	0.843
00000700	7.31	8.11	1.109	0.659	1.279	0.843
00000700	8.11	48.41	1.109	0.659	1.279	0.843
00000700	48.41	49.37	1.109	0.659	1.279	0.843
00000700	49.37	51.99	1.109	0.659	1.279	0.843