

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000001	0.00	5.00	0.922	0.608	1.174	0.767
00000001	5.00	5.48	0.922	0.608	1.174	0.767
00000001	5.48	8.10	0.691	0.475	0.927	0.596
00000001	8.10	11.92	1.020	0.615	0.954	0.635
00000001	11.92	27.72	0.790	0.492	0.672	0.449
00000001	27.72	28.08	0.790	0.492	0.672	0.449
00000001	28.08	45.45	1.269	0.832	1.170	0.759
00000001	45.45	47.00	1.149	0.711	1.141	0.748
00000001	47.00	49.00	1.149	0.711	1.141	0.748
00000001	49.00	54.61	1.149	0.711	1.141	0.748
00000001	54.61	60.70	1.388	0.884	1.982	1.144
00000001	60.70	62.80	1.388	0.884	1.982	1.144
00000001	62.80	62.88	1.388	0.884	1.982	1.144
00000001	62.88	63.88	1.388	0.884	1.982	1.144
00000001	63.88	64.88	1.388	0.884	1.982	1.144
00000001B	0.00	0.25	0.691	0.475	0.927	0.596
00000001B	0.25	0.42	0.691	0.475	0.927	0.596
00000001B	0.42	2.73	0.691	0.475	0.927	0.596
00000001T	0.00	0.40	0.558	0.392	0.958	0.664
00000001T	0.40	2.30	0.558	0.392	0.958	0.664
00000001T	2.30	3.00	0.558	0.392	0.958	0.664
00000001T	3.00	4.35	0.558	0.392	0.958	0.664
00000003	0.00	10.84	1.149	0.711	1.141	0.748
00000004	0.00	2.00	0.558	0.392	0.958	0.664
00000004	2.00	10.59	1.149	0.711	1.141	0.748
00000005	0.00	1.30	1.388	0.884	1.982	1.144
00000005	1.30	1.60	1.388	0.884	1.982	1.144
00000005	1.60	1.80	1.388	0.884	1.982	1.144
00000005	1.80	3.18	1.388	0.884	1.982	1.144
00000007	0.00	1.40	0.558	0.392	0.958	0.664
00000007	1.40	5.29	0.558	0.392	0.958	0.664
00000007	5.99	9.19	1.614	0.957	1.656	0.979
00000007	9.19	9.99	1.614	0.957	1.656	0.979
00000007	9.99	10.10	1.614	0.957	1.656	0.979
00000009	0.23	0.69	1.467	0.859	1.371	0.867
00000009	0.69	1.43	1.467	0.859	1.371	0.867
00000009	1.43	3.06	1.467	0.859	1.371	0.867
00000009	3.06	7.30	0.589	0.435	1.344	0.781
00000009	7.30	16.01	0.589	0.435	1.344	0.781
00000009	16.01	16.06	0.589	0.435	1.344	0.781
00000009	16.06	16.80	0.589	0.435	1.344	0.781
00000009	16.80	18.00	1.467	0.859	1.371	0.867
00000009	18.00	18.61	1.456	0.900	2.526	1.368
00000009	18.61	30.65	0.589	0.435	1.344	0.781
00000009	32.16	32.20	0.589	0.435	1.344	0.781
00000009	32.20	32.22	0.589	0.435	1.344	0.781
00000009	32.22	42.86	1.456	0.900	2.526	1.368

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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	42.86	43.32	0.589	0.435	1.344	0.781
00000009	43.32	43.85	0.589	0.435	1.344	0.781
00000009	43.85	46.00	0.589	0.435	1.344	0.781
00000009	46.00	49.38	0.589	0.435	1.344	0.781
00000009	49.38	52.59	0.589	0.435	1.344	0.781
00000009	54.85	59.89	0.589	0.435	1.344	0.781
00000009	59.89	60.00	0.589	0.435	1.344	0.781
00000009	60.00	62.75	0.589	0.435	1.344	0.781
00000009	62.75	67.70	0.589	0.435	1.344	0.781
00000009	67.70	70.53	0.589	0.435	1.344	0.781
00000009	70.53	77.90	1.086	0.721	1.329	0.835
00000009	77.90	91.05	1.086	0.721	1.329	0.835
00000009	94.50	99.00	0.936	0.619	0.886	0.581
00000009	99.00	101.50	0.936	0.619	0.886	0.581
00000009	101.50	102.00	0.936	0.619	0.886	0.581
00000009	102.00	114.00	1.612	0.941	1.269	0.803
00000009	114.00	121.51	1.051	0.666	1.069	0.690
00000009	121.51	127.94	1.051	0.666	1.069	0.690
00000009	127.94	131.80	1.051	0.666	1.069	0.690
00000009	131.80	132.80	1.269	0.832	1.170	0.759
00000009	132.80	136.38	1.269	0.832	1.170	0.759
00000009W	0.00	0.67	1.388	0.884	1.982	1.144
00000009W	0.67	1.40	1.388	0.884	1.982	1.144
00000009W	1.40	8.00	1.388	0.884	1.982	1.144
00000009W	8.00	8.50	1.388	0.884	1.982	1.144
00000009W	8.50	11.00	1.388	0.884	1.982	1.144
00000009W	11.00	11.17	1.388	0.884	1.982	1.144
00000010	0.00	18.80	0.714	0.556	2.433	1.467
00000010	18.80	23.51	1.269	0.832	1.170	0.759
00000012	0.00	0.21	1.614	0.957	1.656	0.979
00000012	0.21	0.43	1.614	0.957	1.656	0.979
00000012	0.43	1.00	1.614	0.957	1.656	0.979
00000012	1.00	6.00	1.614	0.957	1.656	0.979
00000012	6.00	9.40	1.614	0.957	1.656	0.979
00000012	9.40	10.82	1.614	0.957	1.656	0.979
00000012	10.82	11.38	1.614	0.957	1.656	0.979
00000012	11.38	11.69	1.614	0.957	1.656	0.979
00000013	0.00	0.13	0.589	0.435	1.344	0.781
00000013	0.13	0.27	0.589	0.435	1.344	0.781
00000013	0.27	0.56	0.589	0.435	1.344	0.781
00000015	0.00	0.07	1.614	0.957	1.656	0.979
00000015	0.07	0.35	1.614	0.957	1.656	0.979
00000015	0.37	1.30	1.614	0.957	1.656	0.979
00000015	1.30	2.05	1.614	0.957	1.656	0.979
00000015	2.05	5.95	0.738	0.500	1.136	0.704
00000015	5.95	8.92	1.151	0.702	1.244	0.810
00000015	8.92	14.41	0.738	0.500	1.136	0.704

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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)
00000015	14.41	19.53	0.695	0.474	1.174	0.761
00000017	0.00	3.00	0.558	0.392	0.958	0.664
00000017	3.00	4.00	0.558	0.392	0.958	0.664
00000017	4.00	5.20	0.558	0.392	0.958	0.664
00000017	5.20	9.13	0.558	0.392	0.958	0.664
00000017	9.13	26.81	0.738	0.506	1.176	0.767
00000018	5.14	29.92	1.221	0.720	1.161	0.752
00000018	29.92	31.08	1.221	0.720	1.161	0.752
00000018	31.08	34.78	1.051	0.666	1.069	0.690
00000018	34.78	39.45	1.051	0.666	1.069	0.690
00000018	39.45	39.64	0.790	0.492	0.672	0.449
00000018	39.64	40.90	0.790	0.492	0.672	0.449
00000018	40.90	41.40	1.221	0.720	1.161	0.752
00000018	41.40	42.20	1.221	0.720	1.161	0.752
00000018	42.20	45.30	0.923	0.606	1.401	0.919
00000018	45.30	47.37	1.269	0.832	1.170	0.759
00000018	47.37	47.92	1.269	0.832	1.170	0.759
00000018S	0.00	0.29	1.269	0.832	1.170	0.759
00000019	0.00	2.46	1.440	0.834	1.095	0.708
00000019	2.46	3.04	0.558	0.392	0.958	0.664
00000020	0.00	1.00	0.558	0.392	0.958	0.664
00000020	1.00	4.00	0.558	0.392	0.958	0.664
00000020	4.00	4.15	0.558	0.392	0.958	0.664
00000021	0.00	4.08	0.558	0.392	0.958	0.664
00000021	4.08	14.35	1.149	0.711	1.141	0.748
00000022	0.00	0.63	1.151	0.702	1.244	0.810
00000022	0.63	5.07	1.124	0.694	1.450	0.929
00000022	19.25	41.00	0.923	0.606	1.401	0.919
00000022	41.00	53.00	1.269	0.832	1.170	0.759
00000022	53.00	60.53	1.269	0.832	1.170	0.759
00000023	0.00	3.95	0.714	0.556	2.433	1.467
00000023	3.95	4.86	0.714	0.556	2.433	1.467
00000023	4.86	6.82	0.714	0.556	2.433	1.467
00000023	8.94	21.04	0.714	0.556	2.433	1.467
00000023	21.04	26.60	0.714	0.556	2.433	1.467
00000023	26.60	31.37	0.738	0.500	1.136	0.704
00000023	31.37	34.50	0.695	0.474	1.174	0.761
00000023	34.50	36.00	0.695	0.474	1.174	0.761
00000023	36.00	39.50	0.695	0.474	1.174	0.761
00000023	39.50	39.98	0.695	0.474	1.174	0.761
00000023	39.98	40.40	0.695	0.474	1.174	0.761
00000023	40.40	40.61	0.695	0.474	1.174	0.761
00000023	40.61	42.60	0.695	0.474	1.174	0.761
00000023	42.60	52.63	0.695	0.474	1.174	0.761
00000024	0.00	1.00	0.923	0.606	1.401	0.919
00000024	1.00	4.50	0.923	0.606	1.401	0.919
00000024	4.50	5.00	0.923	0.606	1.401	0.919

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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)
0000024	5.00	10.42	0.923	0.606	1.401	0.919
0000026	0.00	2.57	0.808	0.530	1.294	0.865
0000027	0.00	1.74	1.020	0.615	0.954	0.635
0000027	1.74	3.00	1.020	0.615	0.954	0.635
0000027	3.00	13.50	1.020	0.615	0.954	0.635
0000027	13.50	15.17	1.020	0.615	0.954	0.635
0000027	15.17	16.22	0.790	0.492	0.672	0.449
0000027	16.22	16.72	0.790	0.492	0.672	0.449
0000027	16.72	18.04	0.790	0.492	0.672	0.449
0000027	18.04	20.82	1.269	0.832	1.170	0.759
0000027	20.82	21.59	1.612	0.941	1.269	0.803
0000027	21.59	21.86	1.612	0.941	1.269	0.803
0000027	21.86	23.26	1.612	0.941	1.269	0.803
0000027	23.26	26.30	1.269	0.832	1.170	0.759
0000027	26.30	27.20	1.269	0.832	1.170	0.759
0000027	27.20	32.79	1.269	0.832	1.170	0.759
0000027	32.79	33.62	0.558	0.392	0.958	0.664
0000027	33.62	34.05	0.558	0.392	0.958	0.664
0000027	34.05	34.34	0.558	0.392	0.958	0.664
0000027	34.34	34.78	0.558	0.392	0.958	0.664
0000027	34.78	35.80	0.558	0.392	0.958	0.664
0000027	35.80	38.16	0.558	0.392	0.958	0.664
0000027	38.16	38.53	0.558	0.392	0.958	0.664
0000027Z	33.39	33.89	0.558	0.392	0.958	0.664
0000027Z	33.89	34.06	0.558	0.392	0.958	0.664
0000028	0.00	2.25	0.808	0.530	1.294	0.865
0000028	2.25	2.50	0.923	0.606	1.401	0.919
0000028	2.50	2.95	0.923	0.606	1.401	0.919
0000028	2.95	3.80	0.923	0.606	1.401	0.919
0000028	3.80	4.18	0.923	0.606	1.401	0.919
0000028	4.18	9.75	0.923	0.606	1.401	0.919
0000028	9.75	11.78	1.269	0.832	1.170	0.759
0000028	11.78	12.49	1.269	0.832	1.170	0.759
0000028	12.49	14.32	1.269	0.832	1.170	0.759
0000028	14.32	14.66	1.269	0.832	1.170	0.759
0000028	14.66	15.70	1.269	0.832	1.170	0.759
0000028	15.70	19.50	1.269	0.832	1.170	0.759
0000028	19.50	23.00	1.269	0.832	1.170	0.759
0000028	23.00	26.44	1.269	0.832	1.170	0.759
0000029	0.00	2.50	0.922	0.608	1.174	0.767
0000029	2.50	4.00	0.922	0.608	1.174	0.767
0000029	4.00	4.17	0.922	0.608	1.174	0.767
0000029	4.17	4.44	0.922	0.608	1.174	0.767
0000029	4.44	6.99	0.922	0.608	1.174	0.767
0000029	6.99	9.39	0.922	0.608	1.174	0.767
0000029	9.39	9.40	0.691	0.475	0.927	0.596
0000029	9.40	13.93	0.691	0.475	0.927	0.596

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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)
00000029	13.93	15.34	1.020	0.615	0.954	0.635
00000029	15.34	18.87	0.909	0.566	1.045	0.679
00000029	18.87	18.96	0.909	0.566	1.045	0.679
00000029	18.96	20.06	0.909	0.566	1.045	0.679
00000029	20.06	23.03	1.614	0.957	1.656	0.979
00000029	23.03	26.24	1.614	0.957	1.656	0.979
00000029	26.24	34.00	1.614	0.957	1.656	0.979
00000029	34.00	34.71	1.614	0.957	1.656	0.979
00000030	0.92	3.00	0.768	0.616	1.550	0.850
00000030	3.00	4.40	0.768	0.616	1.550	0.850
00000030	4.40	26.58	0.980	0.626	1.525	0.915
00000030	26.58	27.95	0.980	0.626	1.525	0.915
00000030	27.95	36.32	0.700	0.483	2.098	1.176
00000030	36.32	54.44	0.700	0.483	2.098	1.176
00000030	54.44	56.77	0.700	0.483	2.098	1.176
00000030	56.77	58.26	0.700	0.483	2.098	1.176
00000031	0.00	4.60	0.691	0.475	0.927	0.596
00000031	4.60	8.59	1.020	0.615	0.954	0.635
00000031	8.59	16.07	1.529	0.876	1.396	0.902
00000031	16.07	16.36	1.529	0.876	1.396	0.902
00000031	22.02	35.73	0.985	0.620	1.059	0.692
00000031	35.73	47.90	1.124	0.694	1.450	0.929
00000031	47.90	48.93	1.124	0.694	1.450	0.929
00000032	0.00	1.18	0.790	0.492	0.672	0.449
00000033	0.00	3.00	1.051	0.666	1.069	0.690
00000033	3.00	4.00	1.051	0.666	1.069	0.690
00000033	4.00	7.84	1.051	0.666	1.069	0.690
00000033	12.42	13.50	1.051	0.666	1.069	0.690
00000033	13.50	14.10	1.051	0.666	1.069	0.690
00000033	14.10	14.33	1.051	0.666	1.069	0.690
00000033	14.33	15.00	1.051	0.666	1.069	0.690
00000033	15.00	17.54	1.051	0.666	1.069	0.690
00000033	17.54	18.94	1.051	0.666	1.069	0.690
00000033	18.94	24.32	1.051	0.666	1.069	0.690
00000033	24.32	24.40	1.051	0.666	1.069	0.690
00000033	24.40	31.00	1.221	0.720	1.161	0.752
00000033	31.00	31.49	1.612	0.941	1.269	0.803
00000033	31.49	37.67	1.612	0.941	1.269	0.803
00000033	37.67	41.38	1.612	0.941	1.269	0.803
00000033	41.38	42.03	0.589	0.435	1.344	0.781
00000033B	0.00	2.41	1.051	0.666	1.069	0.690
00000033B	2.41	6.89	1.051	0.666	1.069	0.690
00000034	0.00	7.72	0.936	0.619	0.886	0.581
00000034	8.76	12.27	0.589	0.435	1.344	0.781
00000034	12.27	22.30	1.051	0.666	1.069	0.690
00000034	22.30	23.40	0.936	0.619	0.886	0.581
00000034	23.40	26.79	1.051	0.666	1.069	0.690

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	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
0000035	0.00	2.62	0.589	0.435	1.344	0.781
0000035	2.62	2.70	0.589	0.435	1.344	0.781
0000035	2.70	4.35	0.936	0.619	0.886	0.581
0000035	4.35	5.72	0.936	0.619	0.886	0.581
0000035	5.72	7.30	0.936	0.619	0.886	0.581
0000035	7.30	11.30	0.936	0.619	0.886	0.581
0000035	11.30	12.48	0.936	0.619	0.886	0.581
0000035	12.48	12.86	0.936	0.619	0.886	0.581
0000035	12.86	13.66	0.936	0.619	0.886	0.581
0000035	13.66	14.29	0.936	0.619	0.886	0.581
0000035	14.29	22.70	0.936	0.619	0.886	0.581
0000035	22.70	23.10	0.936	0.619	0.886	0.581
0000035	23.10	25.40	0.936	0.619	0.886	0.581
0000035	25.40	27.00	0.936	0.619	0.886	0.581
0000035	27.00	29.60	1.612	0.941	1.269	0.803
0000035	29.60	33.00	1.612	0.941	1.269	0.803
0000035	33.00	33.84	1.612	0.941	1.269	0.803
0000035	33.84	45.00	1.612	0.941	1.269	0.803
0000035	45.00	46.70	1.051	0.666	1.069	0.690
0000035	46.70	49.38	1.612	0.941	1.269	0.803
0000035	50.63	50.76	1.612	0.941	1.269	0.803
0000035	50.76	51.46	1.612	0.941	1.269	0.803
0000035	51.46	52.05	1.269	0.832	1.170	0.759
0000035	52.05	52.18	1.269	0.832	1.170	0.759
0000035	52.18	54.06	1.269	0.832	1.170	0.759
0000035	54.06	56.06	1.269	0.832	1.170	0.759
0000035	56.06	58.07	1.269	0.832	1.170	0.759
0000035Z	3.49	4.30	0.936	0.619	0.886	0.581
0000035Z	4.30	5.53	0.936	0.619	0.886	0.581
0000035Z	5.53	9.03	0.936	0.619	0.886	0.581
0000035Z	12.85	14.28	0.936	0.619	0.886	0.581
0000036	0.00	2.78	1.612	0.941	1.269	0.803
0000036	2.78	3.87	1.612	0.941	1.269	0.803
0000036	3.87	5.72	1.612	0.941	1.269	0.803
0000036	5.72	6.37	1.612	0.941	1.269	0.803
0000036	6.37	11.80	1.612	0.941	1.269	0.803
0000036	11.80	13.30	1.612	0.941	1.269	0.803
0000036	13.30	18.40	1.612	0.941	1.269	0.803
0000036	18.40	24.40	1.612	0.941	1.269	0.803
0000037	0.00	2.49	1.051	0.666	1.069	0.690
0000037	2.49	11.45	0.936	0.619	0.886	0.581
0000037	11.45	12.36	0.936	0.619	0.886	0.581
0000037	12.36	12.79	0.936	0.619	0.886	0.581
0000037	12.79	13.43	0.936	0.619	0.886	0.581
0000038	0.00	5.00	0.866	0.602	1.213	0.781
0000038	5.00	19.19	0.866	0.602	1.213	0.781
0000040	1.70	2.60	0.985	0.588	1.081	0.693

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000040	2.60	6.30	0.985	0.588	1.081	0.693
00000040	6.30	8.14	0.985	0.588	1.081	0.693
00000040	8.14	10.02	0.985	0.588	1.081	0.693
00000040	10.02	10.67	0.985	0.588	1.081	0.693
00000040	10.67	11.31	0.985	0.588	1.081	0.693
00000040	11.31	12.37	0.985	0.588	1.081	0.693
00000040	12.37	19.55	0.985	0.588	1.081	0.693
00000040	19.55	20.24	0.985	0.588	1.081	0.693
00000040	20.24	35.50	0.802	0.560	1.305	0.831
00000040	35.50	44.40	0.802	0.560	1.305	0.831
00000040	44.40	47.01	0.802	0.560	1.305	0.831
00000040	47.01	47.34	0.802	0.560	1.305	0.831
00000040	47.34	53.16	0.802	0.560	1.305	0.831
00000040	53.16	63.49	0.802	0.560	1.305	0.831
00000040	63.49	64.32	0.802	0.560	1.305	0.831
00000041	0.00	3.86	1.739	0.950	1.284	0.807
00000041	3.86	4.00	0.768	0.616	1.550	0.850
00000041	4.00	4.95	0.768	0.616	1.550	0.850
00000041	4.95	7.23	1.739	0.950	1.284	0.807
00000041	7.23	7.90	0.808	0.530	1.294	0.865
00000041	7.90	8.60	0.808	0.530	1.294	0.865
00000041	8.60	10.57	0.808	0.530	1.294	0.865
00000041	10.57	10.68	0.808	0.530	1.294	0.865
00000041	10.68	10.83	0.768	0.616	1.550	0.850
00000041	10.83	14.08	0.808	0.530	1.294	0.865
00000042	0.00	6.35	0.768	0.616	1.550	0.850
00000042	6.35	14.28	1.333	0.773	1.307	0.821
00000044	0.00	0.86	1.739	0.950	1.284	0.807
00000044	0.86	2.14	1.739	0.950	1.284	0.807
00000044	2.14	6.30	1.739	0.950	1.284	0.807
00000044	6.30	10.28	1.739	0.950	1.284	0.807
00000045	0.00	0.50	1.739	0.950	1.284	0.807
00000045	0.50	3.35	1.739	0.950	1.284	0.807
00000045	3.35	8.80	1.739	0.950	1.284	0.807
00000045	9.44	10.44	1.739	0.950	1.284	0.807
00000045	10.44	12.49	1.739	0.950	1.284	0.807
00000045	12.49	13.53	1.739	0.950	1.284	0.807
00000045	13.53	15.48	1.739	0.950	1.284	0.807
00000045	15.48	17.40	1.739	0.950	1.284	0.807
00000045	17.40	17.64	1.739	0.950	1.284	0.807
00000045	18.16	19.50	0.768	0.616	1.550	0.850
00000045	19.50	22.60	0.768	0.616	1.550	0.850
00000045	22.60	25.49	0.768	0.616	1.550	0.850
00000045	25.49	27.00	0.768	0.616	1.550	0.850
00000045	27.00	28.51	0.768	0.616	1.550	0.850
00000046	0.00	1.57	0.759	0.471	0.892	0.574
00000046	1.57	10.03	0.759	0.471	0.892	0.574

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000046	10.03	15.79	1.614	0.957	1.656	0.979
00000046	15.79	17.21	1.614	0.957	1.656	0.979
00000046	17.21	20.63	1.614	0.957	1.656	0.979
00000046	20.63	21.70	1.614	0.957	1.656	0.979
00000046	21.70	21.83	0.738	0.500	1.136	0.704
00000046	21.83	37.19	0.738	0.500	1.136	0.704
00000046	37.19	37.91	0.714	0.556	2.433	1.467
00000046	37.91	38.17	0.714	0.556	2.433	1.467
00000046	38.17	38.85	0.714	0.556	2.433	1.467
00000046	38.85	61.51	1.269	0.832	1.170	0.759
00000046	61.51	62.36	0.558	0.392	0.958	0.664
00000046	62.36	69.52	0.558	0.392	0.958	0.664
00000046	69.52	70.25	1.388	0.884	1.982	1.144
00000046	70.25	72.09	1.388	0.884	1.982	1.144
00000047	0.00	3.15	1.467	0.859	1.371	0.867
00000047	3.15	3.40	2.367	1.264	2.127	1.246
00000047	3.40	3.80	2.367	1.264	2.127	1.246
00000047	3.80	7.06	2.367	1.264	2.127	1.246
00000047	7.06	15.98	2.367	1.264	2.127	1.246
00000047	15.98	17.54	2.367	1.264	2.127	1.246
00000047	17.54	19.35	1.467	0.859	1.371	0.867
00000047	19.35	20.91	1.467	0.859	1.371	0.867
00000047	20.91	31.95	2.367	1.264	2.127	1.246
00000047	31.95	35.08	1.467	0.859	1.371	0.867
00000047	35.08	36.10	2.367	1.264	2.127	1.246
00000047	36.10	36.25	2.367	1.264	2.127	1.246
00000047	36.25	40.20	2.367	1.264	2.127	1.246
00000047	40.20	42.47	2.367	1.264	2.127	1.246
00000047	42.47	46.55	2.367	1.264	2.127	1.246
00000047	46.55	47.68	2.367	1.264	2.127	1.246
00000047	47.68	52.52	1.191	0.624	1.639	0.833
00000047	53.03	57.94	1.191	0.624	1.639	0.833
00000047	57.94	62.46	1.739	0.950	1.284	0.807
00000047	62.87	64.12	0.768	0.616	1.550	0.850
00000047	64.12	75.20	1.739	0.950	1.284	0.807
00000047Z	0.00	0.22	2.367	1.264	2.127	1.246
00000048	0.00	1.50	1.739	0.950	1.284	0.807
00000048	1.50	2.13	1.739	0.950	1.284	0.807
00000048	2.13	4.26	2.615	1.469	1.118	0.731
00000049	0.00	2.50	0.985	0.588	1.081	0.693
00000049	2.50	6.19	0.985	0.588	1.081	0.693
00000049	6.19	8.00	0.985	0.588	1.081	0.693
00000049	8.00	8.20	0.985	0.588	1.081	0.693
00000049	8.20	8.29	0.985	0.588	1.081	0.693
00000049	8.29	8.30	0.985	0.588	1.081	0.693
00000049	8.30	8.47	0.985	0.588	1.081	0.693
00000049	8.47	10.10	0.985	0.588	1.081	0.693

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000049	10.10	18.77	0.985	0.588	1.081	0.693
00000049	18.77	20.91	0.985	0.588	1.081	0.693
00000049	20.91	24.70	0.985	0.588	1.081	0.693
00000049	24.70	26.40	0.985	0.588	1.081	0.693
00000049	26.40	30.79	1.467	0.859	1.371	0.867
00000049	30.79	30.80	1.467	0.859	1.371	0.867
00000049	30.80	35.09	1.467	0.859	1.371	0.867
00000049	35.09	36.42	1.467	0.859	1.371	0.867
00000049	36.42	37.84	1.467	0.859	1.371	0.867
00000049	37.84	40.80	2.367	1.264	2.127	1.246
00000049	40.80	53.80	2.367	1.264	2.127	1.246
00000050	0.00	4.91	2.367	1.264	2.127	1.246
00000050	4.91	9.34	2.367	1.264	2.127	1.246
00000050	9.34	17.29	2.367	1.264	2.127	1.246
00000050	17.29	18.24	1.191	0.624	1.639	0.833
00000050	18.24	18.50	1.191	0.624	1.639	0.833
00000050	19.12	23.34	1.191	0.624	1.639	0.833
00000050	23.34	24.93	1.191	0.624	1.639	0.833
00000050	24.93	24.94	1.191	0.624	1.639	0.833
00000050	24.94	26.02	1.191	0.624	1.639	0.833
00000052	0.00	2.12	1.456	0.900	2.526	1.368
00000052	2.12	2.74	1.456	0.900	2.526	1.368
00000053	0.00	3.40	0.714	0.556	2.433	1.467
00000053	3.40	4.63	0.714	0.556	2.433	1.467
00000053	4.63	4.66	0.714	0.556	2.433	1.467
00000054	0.00	1.07	1.191	0.624	1.639	0.833
00000054	1.07	4.56	1.191	0.624	1.639	0.833
00000054	4.56	5.65	1.191	0.624	1.639	0.833
00000054	5.65	6.67	1.191	0.624	1.639	0.833
00000054	6.67	8.13	0.802	0.560	1.305	0.831
00000054	8.13	8.71	0.802	0.560	1.305	0.831
00000054	8.71	10.60	1.191	0.624	1.639	0.833
00000054	10.60	11.86	1.191	0.624	1.639	0.833
00000055	20.00	21.75	1.739	0.950	1.284	0.807
00000055	21.75	42.28	1.739	0.950	1.284	0.807
00000055	42.28	60.54	1.333	0.773	1.307	0.821
00000056	0.00	1.25	1.739	0.950	1.284	0.807
00000056	1.25	2.20	1.739	0.950	1.284	0.807
00000056	2.20	9.19	1.739	0.950	1.284	0.807
00000057	0.00	3.58	0.806	0.546	2.085	1.060
00000057	3.58	6.53	0.806	0.546	2.085	1.060
00000057	6.53	9.79	0.806	0.546	2.085	1.060
00000057	9.79	11.60	0.806	0.546	2.085	1.060
00000057	11.60	12.67	0.806	0.546	2.085	1.060
00000057	12.67	14.68	0.806	0.546	2.085	1.060
00000057	14.68	15.82	0.806	0.546	2.085	1.060
00000057	15.82	20.53	0.806	0.546	2.085	1.060

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000057	20.53	21.10	0.806	0.546	2.085	1.060
0000059	0.00	0.15	2.615	1.469	1.118	0.731
0000062	0.00	0.47	0.558	0.392	0.958	0.664
0000063	0.00	0.90	1.388	0.884	1.982	1.144
0000063	0.90	3.09	1.388	0.884	1.982	1.144
0000064	0.00	0.32	0.790	0.492	0.672	0.449
0000066	0.00	3.62	0.936	0.619	0.886	0.581
0000067	0.00	0.80	1.614	0.957	1.656	0.979
0000067	0.80	1.29	1.614	0.957	1.656	0.979
0000067	1.29	1.86	1.388	0.884	1.982	1.144
0000068	0.00	1.00	1.829	0.990	1.246	0.783
0000068	1.00	2.85	1.829	0.990	1.246	0.783
0000068	2.85	7.80	0.808	0.530	1.294	0.865
0000070	0.00	18.53	0.502	0.366	0.956	0.629
0000070	18.61	23.03	0.502	0.366	0.956	0.629
0000070	23.03	26.05	0.502	0.366	0.956	0.629
0000070	26.05	33.31	0.502	0.366	0.956	0.629
0000070	33.31	37.52	0.502	0.366	0.956	0.629
0000070	37.52	40.30	0.502	0.366	0.956	0.629
0000070	40.30	43.27	0.502	0.366	0.956	0.629
0000070	43.27	58.26	0.936	0.619	0.886	0.581
0000070	58.26	58.44	0.936	0.619	0.886	0.581
0000070	58.44	59.84	0.936	0.619	0.886	0.581
0000071	0.00	1.72	0.936	0.619	0.886	0.581
0000071	1.72	4.89	0.936	0.619	0.886	0.581
0000071	4.89	5.10	0.936	0.619	0.886	0.581
0000071	5.42	5.57	0.589	0.435	1.344	0.781
0000071	5.57	9.00	0.589	0.435	1.344	0.781
0000071	9.00	9.37	0.589	0.435	1.344	0.781
0000071	9.37	9.47	0.589	0.435	1.344	0.781
0000071	9.47	12.96	0.589	0.435	1.344	0.781
0000071	12.96	13.78	0.589	0.435	1.344	0.781
0000071	13.78	15.58	0.589	0.435	1.344	0.781
0000071	15.58	16.78	0.589	0.435	1.344	0.781
0000072	0.00	1.66	1.600	0.875	1.361	0.850
0000072	1.66	16.20	1.600	0.875	1.361	0.850
0000072	16.20	16.22	1.600	0.875	1.361	0.850
0000072	16.22	22.80	1.086	0.721	1.329	0.835
0000072	22.80	23.00	1.086	0.721	1.329	0.835
0000072	23.00	26.75	1.086	0.721	1.329	0.835
0000072	26.75	27.08	1.086	0.721	1.329	0.835
0000072	27.08	28.48	1.086	0.721	1.329	0.835
0000072	28.48	28.76	1.086	0.721	1.329	0.835
0000073	0.00	2.40	1.191	0.624	1.639	0.833
0000073	2.40	4.00	1.191	0.624	1.639	0.833
0000073	4.00	4.14	1.191	0.624	1.639	0.833
0000073	4.14	6.06	1.829	0.990	1.246	0.783

**New Jersey Department of Transportation  
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Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000073	6.06	8.90	0.980	0.626	1.525	0.915
0000073	8.90	11.50	0.980	0.626	1.525	0.915
0000073	11.50	13.20	0.980	0.626	1.525	0.915
0000073	13.20	34.64	0.980	0.626	1.525	0.915
0000076	0.00	3.08	0.924	0.581	1.220	0.802
0000076C	0.00	1.22	0.768	0.616	1.550	0.850
0000077	0.00	2.10	1.739	0.950	1.284	0.807
0000077	2.10	6.14	1.739	0.950	1.284	0.807
0000077	6.14	10.00	1.739	0.950	1.284	0.807
0000077	10.00	14.10	1.739	0.950	1.284	0.807
0000077	14.10	14.60	1.739	0.950	1.284	0.807
0000077	14.60	18.29	1.739	0.950	1.284	0.807
0000077	18.29	22.16	1.739	0.950	1.284	0.807
0000077	22.16	22.55	1.739	0.950	1.284	0.807
0000078	0.00	7.75	0.461	0.346	1.016	0.687
0000078	7.75	14.52	1.269	0.721	1.026	0.692
0000078	14.52	25.53	1.183	0.684	1.139	0.761
0000078	25.53	30.14	1.183	0.684	1.139	0.761
0000078	30.14	30.80	1.183	0.684	1.139	0.761
0000078	30.80	31.32	1.183	0.684	1.139	0.761
0000078	31.32	42.70	0.797	0.522	1.261	0.824
0000078	42.70	52.20	0.797	0.522	1.261	0.824
0000078	52.20	58.50	0.797	0.522	1.261	0.824
0000078	58.50	59.00	0.797	0.522	1.261	0.824
0000078	59.00	62.00	0.797	0.522	1.261	0.824
0000078	62.00	67.03	0.797	0.522	1.261	0.824
0000078	67.03	67.83	0.797	0.522	1.261	0.824
0000079	0.00	1.43	1.051	0.666	1.069	0.690
0000079	1.43	1.59	1.051	0.666	1.069	0.690
0000079	1.59	3.40	1.051	0.666	1.069	0.690
0000079	3.40	5.47	1.612	0.941	1.269	0.803
0000079	5.47	6.17	1.612	0.941	1.269	0.803
0000079	6.17	10.90	1.612	0.941	1.269	0.803
0000079	10.90	12.13	1.612	0.941	1.269	0.803
0000080	0.00	4.70	0.308	0.243	0.889	0.597
0000080	4.70	18.26	0.428	0.333	1.173	0.783
0000080	18.26	19.88	0.428	0.333	1.173	0.783
0000080	19.88	23.23	0.428	0.333	1.173	0.783
0000080	23.23	68.54	0.589	0.415	1.134	0.754
0000081	0.00	1.18	1.149	0.711	1.141	0.748
0000082	0.00	3.83	1.269	0.832	1.170	0.759
0000082	3.83	4.92	0.558	0.392	0.958	0.664
0000083	0.00	3.81	1.467	0.859	1.371	0.867
0000087	0.00	0.60	1.456	0.900	2.526	1.368
0000087	0.60	1.70	1.456	0.900	2.526	1.368
0000088	0.00	0.60	0.936	0.619	0.886	0.581
0000088	0.60	5.20	0.936	0.619	0.886	0.581

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
0000088	5.20	5.45	0.936	0.619	0.886	0.581
0000088	5.45	5.62	0.936	0.619	0.886	0.581
0000088	5.62	7.70	0.936	0.619	0.886	0.581
0000088	7.70	10.02	0.936	0.619	0.886	0.581
0000088Z	0.00	0.19	0.936	0.619	0.886	0.581
0000090	0.00	3.22	1.333	0.773	1.307	0.821
0000091	0.00	2.26	0.808	0.530	1.294	0.865
0000093	0.00	3.50	1.388	0.884	1.982	1.144
0000094	0.00	0.63	1.614	0.957	1.656	0.979
0000094	0.63	17.08	1.614	0.957	1.656	0.979
0000094	17.08	22.00	1.614	0.957	1.656	0.979
0000094	22.00	22.47	1.614	0.957	1.656	0.979
0000094	24.91	25.78	1.614	0.957	1.656	0.979
0000094	25.78	27.70	1.614	0.957	1.656	0.979
0000094	28.00	32.38	1.614	0.957	1.656	0.979
0000094	32.38	35.31	1.614	0.957	1.656	0.979
0000094	35.31	36.14	1.614	0.957	1.656	0.979
0000094	36.14	41.76	1.614	0.957	1.656	0.979
0000094	41.76	43.30	1.614	0.957	1.656	0.979
0000094	43.30	45.94	1.614	0.957	1.656	0.979
0000095	0.00	7.50	1.734	0.974	1.508	0.953
0000095	7.50	16.55	1.734	0.974	1.508	0.953
0000095	16.55	19.45	0.803	0.502	0.892	0.591
0000095	19.45	23.40	0.803	0.502	0.892	0.591
0000095	23.40	24.47	0.803	0.502	0.892	0.591
0000095	24.47	77.40	0.712	0.446	0.931	0.611
0000095W	0.00	11.26	0.636	0.453	1.276	0.813
0000109	0.00	1.11	2.367	1.264	2.127	1.246
0000109	1.11	1.16	2.367	1.264	2.127	1.246
0000109	1.16	1.32	2.367	1.264	2.127	1.246
0000109	1.32	2.31	2.367	1.264	2.127	1.246
0000109	2.31	3.06	1.467	0.859	1.371	0.867
0000120	0.00	1.34	1.149	0.711	1.141	0.748
0000120	1.34	2.65	0.558	0.392	0.958	0.664
0000122	0.00	1.15	1.124	0.694	1.450	0.929
0000122	1.15	2.42	1.124	0.694	1.450	0.929
0000124	0.00	0.78	1.269	0.832	1.170	0.759
0000124	0.78	1.50	1.269	0.832	1.170	0.759
0000124	1.50	4.37	1.614	0.957	1.656	0.979
0000124	4.37	4.47	1.614	0.957	1.656	0.979
0000124	4.47	7.34	1.269	0.832	1.170	0.759
0000124	7.34	8.96	1.269	0.832	1.170	0.759
0000124	8.96	9.83	1.269	0.832	1.170	0.759
0000124	9.83	11.30	1.269	0.832	1.170	0.759
0000124	11.30	11.36	1.269	0.832	1.170	0.759
0000124	11.36	11.54	1.269	0.832	1.170	0.759
0000124	11.54	14.74	1.269	0.832	1.170	0.759

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
00000129	0.00	2.41	0.691	0.475	0.927	0.596
00000130	0.00	3.00	1.739	0.950	1.284	0.807
00000130	3.00	5.17	1.739	0.950	1.284	0.807
00000130	5.17	5.20	1.739	0.950	1.284	0.807
00000130	5.20	8.80	1.739	0.950	1.284	0.807
00000130	8.80	8.84	1.739	0.950	1.284	0.807
00000130	8.84	12.21	1.739	0.950	1.284	0.807
00000130	12.21	14.29	0.691	0.475	0.927	0.596
00000130	23.61	23.90	0.691	0.475	0.927	0.596
00000130	23.90	25.30	0.691	0.475	0.927	0.596
00000130	25.30	28.20	0.691	0.475	0.927	0.596
00000130	28.20	29.48	0.691	0.475	0.927	0.596
00000130	30.48	53.57	0.691	0.475	0.927	0.596
00000130	53.57	66.21	0.691	0.475	0.927	0.596
00000130	66.21	68.20	0.790	0.492	0.672	0.449
00000130	68.20	68.26	0.790	0.492	0.672	0.449
00000130	68.26	70.00	0.790	0.492	0.672	0.449
00000130	70.00	71.37	0.790	0.492	0.672	0.449
00000130	71.37	72.90	0.790	0.492	0.672	0.449
00000130	72.90	83.46	0.790	0.492	0.672	0.449
00000133	0.00	4.06	0.922	0.608	1.174	0.767
00000138	0.00	3.52	0.663	0.466	1.202	0.758
00000139	0.00	1.45	1.388	0.884	1.982	1.144
00000139U	0.00	0.83	1.388	0.884	1.982	1.144
00000140	0.00	0.88	1.739	0.950	1.284	0.807
00000140	0.88	0.96	2.615	1.469	1.118	0.731
00000143	0.00	2.35	2.615	1.469	1.118	0.731
00000147	0.00	0.33	2.367	1.264	2.127	1.246
00000147	0.33	0.65	1.467	0.859	1.371	0.867
00000147	0.65	3.24	1.467	0.859	1.371	0.867
00000147	3.24	3.30	1.467	0.859	1.371	0.867
00000147	3.30	4.20	1.467	0.859	1.371	0.867
00000152	0.00	0.17	1.456	0.900	2.526	1.368
00000152	0.17	1.35	1.456	0.900	2.526	1.368
00000152	1.35	1.90	1.456	0.900	2.526	1.368
00000152	1.90	2.17	1.456	0.900	2.526	1.368
00000152	2.17	3.16	1.456	0.900	2.526	1.368
00000154	0.00	1.58	0.768	0.616	1.550	0.850
00000156	0.00	1.28	2.615	1.469	1.118	0.731
00000157	0.00	0.91	0.589	0.435	1.344	0.781
00000159	0.00	0.45	1.269	0.832	1.170	0.759
00000159	0.45	0.80	1.614	0.957	1.656	0.979
00000159	0.80	1.36	1.614	0.957	1.656	0.979
00000161	0.00	1.10	1.614	0.957	1.656	0.979
00000162	0.00	0.70	2.367	1.264	2.127	1.246
00000163	0.00	0.30	0.759	0.471	0.892	0.574
00000165	0.00	0.26	1.614	0.957	1.656	0.979

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000166	0.00	0.47	0.589	0.435	1.344	0.781
00000166	0.47	1.97	0.589	0.435	1.344	0.781
00000166	1.97	2.22	0.936	0.619	0.886	0.581
00000166	2.22	3.75	0.936	0.619	0.886	0.581
00000166Z	0.00	0.11	0.589	0.435	1.344	0.781
00000166Z	0.11	0.19	0.589	0.435	1.344	0.781
00000166Z	0.19	0.44	0.589	0.435	1.344	0.781
00000167	0.00	0.62	0.589	0.435	1.344	0.781
00000167	2.61	2.76	0.589	0.435	1.344	0.781
00000168	0.00	9.72	0.768	0.616	1.550	0.850
00000168	9.72	10.75	0.768	0.616	1.550	0.850
00000171	0.00	0.98	0.808	0.530	1.294	0.865
00000172	0.00	0.45	0.808	0.530	1.294	0.865
00000172	0.45	0.69	0.808	0.530	1.294	0.865
00000173	0.00	4.00	1.614	0.957	1.656	0.979
00000173	4.00	4.30	1.614	0.957	1.656	0.979
00000173	4.30	8.00	1.614	0.957	1.656	0.979
00000173	8.00	11.00	1.614	0.957	1.656	0.979
00000173	11.00	11.70	1.614	0.957	1.656	0.979
00000173	12.81	14.62	1.614	0.957	1.656	0.979
00000173Z	0.00	0.68	2.615	1.469	1.118	0.731
00000173Z	1.12	1.67	1.614	0.957	1.656	0.979
00000175	0.00	0.27	2.615	1.469	1.118	0.731
00000175	0.27	1.79	2.615	1.469	1.118	0.731
00000175	1.79	1.80	0.808	0.530	1.294	0.865
00000175	1.80	2.15	0.808	0.530	1.294	0.865
00000175	2.15	2.95	0.808	0.530	1.294	0.865
00000179	0.00	0.32	1.614	0.957	1.656	0.979
00000179	0.37	2.15	1.614	0.957	1.656	0.979
00000179	2.15	5.78	1.614	0.957	1.656	0.979
00000179	5.78	6.48	1.614	0.957	1.656	0.979
00000179	6.48	7.46	1.614	0.957	1.656	0.979
00000181	0.00	1.65	2.615	1.469	1.118	0.731
00000181	1.65	5.02	2.615	1.469	1.118	0.731
00000181	5.02	5.43	1.614	0.957	1.656	0.979
00000181	5.43	5.82	1.614	0.957	1.656	0.979
00000181	5.82	7.47	2.615	1.469	1.118	0.731
00000181Z	0.00	0.12	1.614	0.957	1.656	0.979
00000182	0.00	0.96	0.806	0.546	2.085	1.060
00000183	0.00	0.60	0.738	0.500	1.136	0.704
00000183	0.60	2.12	0.738	0.500	1.136	0.704
00000184	0.00	0.35	1.269	0.832	1.170	0.759
00000184	0.35	0.75	1.269	0.832	1.170	0.759
00000184	0.75	1.25	1.269	0.832	1.170	0.759
00000184	1.25	1.37	1.269	0.832	1.170	0.759
00000185	0.00	0.65	0.558	0.392	0.958	0.664
00000187	0.00	0.40	1.456	0.900	2.526	1.368

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000195	0.00	8.38	1.734	0.974	1.508	0.953
00000195	8.38	16.76	0.803	0.502	0.892	0.591
00000195	16.76	34.17	0.803	0.502	0.892	0.591
00000202	0.00	0.63	1.151	0.702	1.244	0.810
00000202	0.63	5.18	0.909	0.566	1.045	0.679
00000202	5.18	24.39	0.582	0.408	0.868	0.575
00000202	24.39	24.48	0.923	0.606	1.401	0.919
00000202	24.48	31.51	0.923	0.606	1.401	0.919
00000202	31.51	32.20	1.614	0.957	1.656	0.979
00000202	32.20	32.54	1.614	0.957	1.656	0.979
00000202	32.54	33.90	1.614	0.957	1.656	0.979
00000202	33.90	37.10	1.614	0.957	1.656	0.979
00000202	37.10	39.10	1.614	0.957	1.656	0.979
00000202	39.10	44.30	1.614	0.957	1.656	0.979
00000202	44.30	44.53	1.614	0.957	1.656	0.979
00000202	44.53	44.60	1.269	0.832	1.170	0.759
00000202	44.60	47.00	1.269	0.832	1.170	0.759
00000202	47.00	51.20	0.714	0.556	2.433	1.467
00000202	51.20	51.53	0.714	0.556	2.433	1.467
00000202	51.53	53.16	1.614	0.957	1.656	0.979
00000202	53.16	53.60	1.614	0.957	1.656	0.979
00000202	53.60	54.20	1.614	0.957	1.656	0.979
00000202	54.20	55.20	1.614	0.957	1.656	0.979
00000202	55.20	56.09	1.614	0.957	1.656	0.979
00000202	56.09	60.40	1.614	0.957	1.656	0.979
00000202	60.40	62.50	1.614	0.957	1.656	0.979
00000202	62.50	62.65	1.614	0.957	1.656	0.979
00000202	62.65	62.95	0.714	0.556	2.433	1.467
00000202	62.95	65.32	0.714	0.556	2.433	1.467
00000202	65.32	67.95	0.714	0.556	2.433	1.467
00000202	67.95	68.80	0.714	0.556	2.433	1.467
00000202	68.80	70.50	0.714	0.556	2.433	1.467
00000202	70.50	80.31	0.714	0.556	2.433	1.467
00000206	0.00	6.28	0.700	0.483	2.098	1.176
00000206	6.28	11.05	1.461	0.852	1.438	0.904
00000206	11.05	26.21	1.104	0.676	0.935	0.620
00000206	26.21	29.54	1.104	0.676	0.935	0.620
00000206	29.54	35.61	1.104	0.676	0.935	0.620
00000206	35.61	36.27	1.020	0.615	0.954	0.635
00000206	36.27	38.89	1.020	0.615	0.954	0.635
00000206	38.89	43.22	1.020	0.615	0.954	0.635
00000206	43.22	45.00	1.020	0.615	0.954	0.635
00000206	45.00	48.30	1.020	0.615	0.954	0.635
00000206	48.30	50.21	1.020	0.615	0.954	0.635
00000206	50.21	52.90	1.020	0.615	0.954	0.635
00000206	52.90	53.95	1.020	0.615	0.954	0.635
00000206	53.95	54.82	1.020	0.615	0.954	0.635
00000206	54.82	57.23	1.020	0.615	0.954	0.635

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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)
0000206	57.23	63.06	1.020	0.615	0.954	0.635
0000206	63.06	71.64	1.020	0.615	0.954	0.635
0000206	78.32	82.30	1.269	0.832	1.170	0.759
0000206	82.30	85.63	1.269	0.832	1.170	0.759
0000206	85.63	95.61	0.695	0.474	1.174	0.761
0000206	97.12	102.09	0.695	0.474	1.174	0.761
0000206	102.09	104.50	0.695	0.474	1.174	0.761
0000206	104.50	109.25	0.695	0.474	1.174	0.761
0000206	109.25	110.67	0.695	0.474	1.174	0.761
0000206	110.67	111.57	0.695	0.474	1.174	0.761
0000206	111.57	114.14	0.695	0.474	1.174	0.761
0000206	114.14	129.77	0.695	0.474	1.174	0.761
0000206B	0.00	2.73	1.020	0.615	0.954	0.635
0000206Z	42.57	43.34	0.691	0.475	0.927	0.596
0000206Z	43.34	45.36	0.691	0.475	0.927	0.596
0000208	0.00	10.07	1.440	0.834	1.095	0.708
0000278	0.00	2.00	0.636	0.453	1.276	0.813
0000280	0.00	17.85	0.636	0.453	1.276	0.813
0000284	0.00	0.55	1.614	0.957	1.656	0.979
0000284	0.55	2.34	1.614	0.957	1.656	0.979
0000284	2.34	7.03	1.614	0.957	1.656	0.979
0000287	0.00	5.68	0.712	0.446	0.931	0.611
0000287	5.68	6.08	0.712	0.446	0.931	0.611
0000287	6.08	10.24	0.712	0.446	0.931	0.611
0000287	10.24	20.50	1.151	0.702	1.244	0.810
0000287	20.50	21.45	1.183	0.684	1.139	0.761
0000287	21.45	30.17	0.589	0.415	1.134	0.754
0000287	30.17	53.89	0.589	0.415	1.134	0.754
0000287	53.89	57.15	0.589	0.415	1.134	0.754
0000287	57.15	67.54	0.589	0.415	1.134	0.754
0000295	0.00	5.35	0.339	0.263	1.074	0.716
0000295	5.35	8.93	0.339	0.263	1.074	0.716
0000295	8.93	51.97	0.970	0.605	1.180	0.769
0000295	51.97	52.33	1.151	0.702	1.244	0.810
0000295	52.33	56.10	1.151	0.702	1.244	0.810
0000295	56.10	76.56	1.151	0.702	1.244	0.810
0000322	0.00	2.15	0.957	0.574	1.727	1.045
0000322	2.15	4.75	0.957	0.574	1.727	1.045
0000322	4.75	8.46	0.957	0.574	1.727	1.045
0000322	8.46	10.82	0.957	0.574	1.727	1.045
0000322	10.82	12.12	0.957	0.574	1.727	1.045
0000322	12.12	15.93	0.957	0.574	1.727	1.045
0000322	15.93	17.00	0.957	0.574	1.727	1.045
0000322	17.00	17.67	0.957	0.574	1.727	1.045
0000322	17.67	18.08	0.957	0.574	1.727	1.045
0000322	18.08	19.19	0.957	0.574	1.727	1.045
0000322	19.19	22.89	0.957	0.574	1.727	1.045

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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	22.89	24.19	0.957	0.574	1.727	1.045
00000322	24.19	34.55	0.957	0.574	1.727	1.045
00000322	34.55	37.08	1.191	0.624	1.639	0.833
00000322	37.08	43.34	1.191	0.624	1.639	0.833
00000322	43.34	50.09	1.191	0.624	1.639	0.833
00000322B	0.00	0.54	1.739	0.950	1.284	0.807
00000322B	0.54	1.53	1.739	0.950	1.284	0.807
00000324	0.00	1.51	1.739	0.950	1.284	0.807
00000347	0.00	8.33	1.467	0.859	1.371	0.867
00000413	0.00	0.76	0.866	0.602	1.213	0.781
00000439	0.00	0.68	0.558	0.392	0.958	0.664
00000439	0.68	2.44	1.269	0.832	1.170	0.759
00000439	2.44	3.95	0.558	0.392	0.958	0.664
00000440	0.00	2.77	0.923	0.606	1.401	0.919
00000440	2.77	5.15	0.923	0.606	1.401	0.919
00000440	18.00	21.91	0.558	0.392	0.958	0.664
00000440	21.91	26.18	0.558	0.392	0.958	0.664
00000444	0.00	12.09	1.739	0.950	1.284	0.807
00000444	12.09	17.22	1.739	0.950	1.284	0.807
00000444	17.22	45.94	1.739	0.950	1.284	0.807
00000444	45.94	55.71	1.739	0.950	1.284	0.807
00000444	55.71	60.76	0.663	0.466	1.202	0.758
00000444	60.76	126.98	0.663	0.466	1.202	0.758
00000444	126.98	127.85	0.923	0.606	1.401	0.919
00000444	127.85	131.80	0.923	0.606	1.401	0.919
00000444	131.80	132.80	0.923	0.606	1.401	0.919
00000444	132.80	172.40	1.149	0.711	1.141	0.748
00000444S	0.00	0.50	0.663	0.466	1.202	0.758
00000445	0.00	11.06	0.738	0.506	1.176	0.767
00000445S	0.00	0.42	1.149	0.711	1.141	0.748
00000446	0.00	14.02	1.739	0.950	1.284	0.807
00000446	14.02	25.30	1.739	0.950	1.284	0.807
00000446	25.30	29.50	1.739	0.950	1.284	0.807
00000446	29.50	30.90	1.333	0.773	1.307	0.821
00000446	30.90	44.19	1.333	0.773	1.307	0.821
00000446X	0.00	1.98	1.739	0.950	1.284	0.807
00000495	0.00	2.20	1.149	0.711	1.141	0.748
00000495	2.20	3.45	1.149	0.711	1.141	0.748
00000501	0.00	3.09	1.269	0.832	1.170	0.759
00000501	3.09	3.36	1.612	0.941	1.269	0.803
00000501	3.61	6.23	1.269	0.832	1.170	0.759
00000501	6.23	6.99	1.269	0.832	1.170	0.759
00000501	23.81	27.12	1.614	0.957	1.656	0.979
00000501	27.12	37.21	1.388	0.884	1.982	1.144
00000501	39.62	40.27	1.614	0.957	1.656	0.979
00000501	40.27	40.52	1.614	0.957	1.656	0.979
00000501	42.86	43.86	1.388	0.884	1.982	1.144

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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	43.86	45.65	1.388	0.884	1.982	1.144
0000501	45.65	45.89	1.388	0.884	1.982	1.144
0000501	45.89	46.06	1.388	0.884	1.982	1.144
0000501	46.06	46.14	1.388	0.884	1.982	1.144
0000501	46.14	46.19	1.388	0.884	1.982	1.144
0000501	46.19	48.95	1.388	0.884	1.982	1.144
0000501	48.95	53.07	1.388	0.884	1.982	1.144
0000502	0.00	2.50	1.614	0.957	1.656	0.979
0000502	2.50	3.42	1.614	0.957	1.656	0.979
0000502	3.42	3.64	1.614	0.957	1.656	0.979
0000502	3.64	6.00	1.614	0.957	1.656	0.979
0000502	6.00	7.23	1.614	0.957	1.656	0.979
0000502	7.23	7.24	0.714	0.556	2.433	1.467
0000502	7.24	9.65	0.558	0.392	0.958	0.664
0000502	9.65	11.29	0.558	0.392	0.958	0.664
0000502	11.29	11.88	0.558	0.392	0.958	0.664
0000502	11.88	13.00	0.558	0.392	0.958	0.664
0000502	13.00	13.71	0.558	0.392	0.958	0.664
0000502	13.71	14.35	0.558	0.392	0.958	0.664
0000502	14.35	16.94	0.558	0.392	0.958	0.664
0000502	16.94	17.44	0.558	0.392	0.958	0.664
0000502	17.44	20.13	1.388	0.884	1.982	1.144
0000502	20.13	21.24	1.388	0.884	1.982	1.144
0000502	21.24	23.79	1.388	0.884	1.982	1.144
0000503	0.00	1.59	0.558	0.392	0.958	0.664
0000503	1.59	2.45	0.558	0.392	0.958	0.664
0000503	2.45	3.60	0.558	0.392	0.958	0.664
0000503	3.60	3.87	0.558	0.392	0.958	0.664
0000503	3.87	3.97	1.388	0.884	1.982	1.144
0000503	3.97	5.40	0.558	0.392	0.958	0.664
0000503	5.40	6.31	0.558	0.392	0.958	0.664
0000503	6.31	7.56	0.558	0.392	0.958	0.664
0000503	7.56	7.71	0.558	0.392	0.958	0.664
0000503	7.71	17.95	0.558	0.392	0.958	0.664
0000504	0.00	4.23	1.614	0.957	1.656	0.979
0000504	4.23	5.33	1.614	0.957	1.656	0.979
0000504	5.33	5.68	1.614	0.957	1.656	0.979
0000504	6.47	8.05	1.614	0.957	1.656	0.979
0000504	8.05	8.96	1.614	0.957	1.656	0.979
0000504	8.96	11.65	0.558	0.392	0.958	0.664
0000504	11.65	12.77	0.558	0.392	0.958	0.664
0000504	12.77	13.99	0.558	0.392	0.958	0.664
0000504	13.99	14.05	0.558	0.392	0.958	0.664
0000504	14.05	14.51	0.558	0.392	0.958	0.664
0000504	14.51	14.76	0.558	0.392	0.958	0.664
0000504	14.76	15.76	0.558	0.392	0.958	0.664
0000504	15.76	15.83	0.558	0.392	0.958	0.664

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000504	15.83	15.94	1.614	0.957	1.656	0.979
0000505	0.00	0.48	2.615	1.469	1.118	0.731
0000505	0.48	0.53	1.614	0.957	1.656	0.979
0000505	0.53	0.66	2.615	1.469	1.118	0.731
0000505	0.66	1.93	2.615	1.469	1.118	0.731
0000505	1.93	2.50	1.388	0.884	1.982	1.144
0000505	2.50	7.48	1.388	0.884	1.982	1.144
0000505	7.48	9.50	1.388	0.884	1.982	1.144
0000505	9.50	10.70	1.388	0.884	1.982	1.144
0000505	10.70	11.48	1.388	0.884	1.982	1.144
0000505	11.48	11.71	1.388	0.884	1.982	1.144
0000505	11.71	17.61	1.388	0.884	1.982	1.144
0000505	17.61	20.64	1.388	0.884	1.982	1.144
0000505Z	0.00	0.48	2.615	1.469	1.118	0.731
0000506	0.00	7.28	0.558	0.392	0.958	0.664
0000506	7.28	7.34	1.614	0.957	1.656	0.979
0000506	7.34	10.43	1.614	0.957	1.656	0.979
0000506	10.52	10.78	1.614	0.957	1.656	0.979
0000506S	0.00	3.93	0.558	0.392	0.958	0.664
0000506S	3.93	4.16	0.558	0.392	0.958	0.664
0000506S	4.16	4.30	0.558	0.392	0.958	0.664
0000506SZ	0.00	0.22	0.558	0.392	0.958	0.664
0000506SZ	0.22	0.29	0.558	0.392	0.958	0.664
0000507	0.00	2.21	1.614	0.957	1.656	0.979
0000507	3.22	4.53	0.558	0.392	0.958	0.664
0000507	4.53	7.04	0.558	0.392	0.958	0.664
0000507	7.04	7.73	0.558	0.392	0.958	0.664
0000507	7.73	8.26	0.558	0.392	0.958	0.664
0000507	8.26	8.82	0.558	0.392	0.958	0.664
0000507	8.82	9.24	0.558	0.392	0.958	0.664
0000507	9.24	9.56	0.558	0.392	0.958	0.664
0000507	9.56	14.35	0.558	0.392	0.958	0.664
0000507	14.35	15.94	0.558	0.392	0.958	0.664
0000507	15.94	18.62	0.558	0.392	0.958	0.664
0000507	18.62	19.04	0.558	0.392	0.958	0.664
0000507	19.04	20.37	0.558	0.392	0.958	0.664
0000507	20.37	20.76	0.558	0.392	0.958	0.664
0000507	21.35	24.19	0.558	0.392	0.958	0.664
0000507	24.19	24.99	0.558	0.392	0.958	0.664
0000507	24.99	26.39	0.714	0.556	2.433	1.467
0000507	26.39	28.34	0.714	0.556	2.433	1.467
0000508	0.00	1.73	1.269	0.832	1.170	0.759
0000508	1.73	3.11	1.269	0.832	1.170	0.759
0000508	3.11	6.22	1.269	0.832	1.170	0.759
0000508	6.22	6.39	1.614	0.957	1.656	0.979
0000508	6.39	6.58	1.614	0.957	1.656	0.979
0000508	6.58	6.70	0.558	0.392	0.958	0.664

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Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000508	6.70	11.28	0.558	0.392	0.958	0.664
0000508	11.28	11.41	0.558	0.392	0.958	0.664
0000508	11.41	11.53	0.558	0.392	0.958	0.664
0000508	12.20	12.36	1.614	0.957	1.656	0.979
0000508	12.36	14.47	1.614	0.957	1.656	0.979
0000508	14.47	16.14	1.614	0.957	1.656	0.979
0000508A	0.00	0.41	0.714	0.556	2.433	1.467
0000508S	0.00	0.31	0.558	0.392	0.958	0.664
0000509	0.00	0.61	0.808	0.530	1.294	0.865
0000509	0.61	0.95	1.614	0.957	1.656	0.979
0000509	7.03	8.99	1.614	0.957	1.656	0.979
0000509	8.99	9.40	1.614	0.957	1.656	0.979
0000509	9.40	10.02	1.614	0.957	1.656	0.979
0000509	10.02	11.87	1.614	0.957	1.656	0.979
0000509	11.87	12.41	1.614	0.957	1.656	0.979
0000509	12.41	14.30	1.614	0.957	1.656	0.979
0000509	14.30	15.22	1.614	0.957	1.656	0.979
0000509	15.22	15.51	1.614	0.957	1.656	0.979
0000509	15.51	15.93	1.614	0.957	1.656	0.979
0000509	15.93	16.45	1.614	0.957	1.656	0.979
0000509	16.45	18.58	1.614	0.957	1.656	0.979
0000509	18.58	18.59	0.558	0.392	0.958	0.664
0000509	18.59	19.46	1.614	0.957	1.656	0.979
0000509	19.46	19.83	1.614	0.957	1.656	0.979
0000509	19.83	21.04	1.614	0.957	1.656	0.979
0000509	21.04	21.56	1.614	0.957	1.656	0.979
0000509	21.56	21.81	1.614	0.957	1.656	0.979
0000509	21.81	22.91	1.614	0.957	1.656	0.979
0000509	22.91	28.92	1.614	0.957	1.656	0.979
0000509	29.38	30.46	0.558	0.392	0.958	0.664
0000509	30.46	31.22	0.558	0.392	0.958	0.664
0000509	31.22	31.26	0.558	0.392	0.958	0.664
0000509	31.26	32.43	0.558	0.392	0.958	0.664
0000509	32.43	32.61	0.558	0.392	0.958	0.664
0000509	32.61	32.81	0.558	0.392	0.958	0.664
0000509Z	0.00	0.16	0.558	0.392	0.958	0.664
0000509Z	0.16	0.38	0.558	0.392	0.958	0.664
0000509Z	2.61	2.87	0.558	0.392	0.958	0.664
0000510	0.00	0.30	1.614	0.957	1.656	0.979
0000510	0.30	2.82	1.614	0.957	1.656	0.979
0000510	2.82	3.45	1.614	0.957	1.656	0.979
0000510	3.45	3.90	1.614	0.957	1.656	0.979
0000510	3.90	4.83	1.614	0.957	1.656	0.979
0000510	4.83	8.11	1.614	0.957	1.656	0.979
0000510	8.11	10.94	1.614	0.957	1.656	0.979
0000510	10.94	11.65	1.614	0.957	1.656	0.979
0000510	11.80	12.91	1.269	0.832	1.170	0.759

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Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000510	12.91	14.33	1.269	0.832	1.170	0.759
00000510	14.33	17.85	1.269	0.832	1.170	0.759
00000510	17.85	28.80	1.269	0.832	1.170	0.759
00000510	28.80	28.99	0.558	0.392	0.958	0.664
00000510	28.99	29.58	0.558	0.392	0.958	0.664
00000510Z	0.00	0.10	1.269	0.832	1.170	0.759
00000510Z	0.10	0.30	1.269	0.832	1.170	0.759
00000510Z	0.30	1.21	1.269	0.832	1.170	0.759
00000511	0.10	2.92	1.614	0.957	1.656	0.979
00000511	2.92	6.30	1.614	0.957	1.656	0.979
00000511	9.39	9.70	1.614	0.957	1.656	0.979
00000511	9.70	10.19	1.614	0.957	1.656	0.979
00000511	10.19	17.11	2.615	1.469	1.118	0.731
00000511	17.11	17.87	1.614	0.957	1.656	0.979
00000511	17.87	17.94	1.614	0.957	1.656	0.979
00000511	17.94	17.99	1.614	0.957	1.656	0.979
00000511	17.99	18.03	1.614	0.957	1.656	0.979
00000511	18.03	18.12	1.614	0.957	1.656	0.979
00000511	18.12	18.84	1.614	0.957	1.656	0.979
00000511	18.84	21.13	1.614	0.957	1.656	0.979
00000511	21.13	25.52	0.714	0.556	2.433	1.467
00000511	25.52	28.26	0.714	0.556	2.433	1.467
00000511	28.26	32.72	1.614	0.957	1.656	0.979
00000511	32.72	34.90	1.614	0.957	1.656	0.979
00000511	34.90	37.44	1.614	0.957	1.656	0.979
00000511A	2.38	3.60	1.614	0.957	1.656	0.979
00000511A	3.60	3.96	1.614	0.957	1.656	0.979
00000511A	3.96	4.03	1.614	0.957	1.656	0.979
00000511A	4.03	6.77	1.614	0.957	1.656	0.979
00000511A	6.96	7.93	1.614	0.957	1.656	0.979
00000511A	7.93	8.47	0.714	0.556	2.433	1.467
00000511A	8.47	9.77	0.714	0.556	2.433	1.467
00000512	0.00	0.58	2.615	1.469	1.118	0.731
00000512	0.58	3.42	2.615	1.469	1.118	0.731
00000512	3.42	5.75	2.615	1.469	1.118	0.731
00000512	5.75	7.64	2.615	1.469	1.118	0.731
00000512	7.64	10.13	2.615	1.469	1.118	0.731
00000512	10.13	10.74	2.615	1.469	1.118	0.731
00000512	10.74	13.17	2.615	1.469	1.118	0.731
00000512	13.17	13.99	2.615	1.469	1.118	0.731
00000512	14.25	17.46	2.615	1.469	1.118	0.731
00000512	17.46	18.08	2.615	1.469	1.118	0.731
00000512	18.08	18.56	2.615	1.469	1.118	0.731
00000512	18.56	25.70	1.614	0.957	1.656	0.979
00000512	25.70	31.08	1.614	0.957	1.656	0.979
00000512	31.08	31.16	1.614	0.957	1.656	0.979
00000512	31.16	32.96	1.614	0.957	1.656	0.979

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000513	0.00	0.05	1.614	0.957	1.656	0.979
00000513	0.05	7.43	1.614	0.957	1.656	0.979
00000513	7.43	10.37	1.614	0.957	1.656	0.979
00000513	10.37	11.45	1.614	0.957	1.656	0.979
00000513	12.13	12.23	2.615	1.469	1.118	0.731
00000513	12.23	12.98	2.615	1.469	1.118	0.731
00000513	13.64	14.79	2.615	1.469	1.118	0.731
00000513	14.79	14.86	2.615	1.469	1.118	0.731
00000513	14.86	15.05	2.615	1.469	1.118	0.731
00000513	15.05	15.09	2.615	1.469	1.118	0.731
00000513	15.09	15.97	2.615	1.469	1.118	0.731
00000513	15.97	20.07	2.615	1.469	1.118	0.731
00000513	20.07	21.94	2.615	1.469	1.118	0.731
00000513	21.94	25.85	2.615	1.469	1.118	0.731
00000513	25.85	25.86	2.615	1.469	1.118	0.731
00000513	25.86	26.87	2.615	1.469	1.118	0.731
00000513	26.87	28.16	2.615	1.469	1.118	0.731
00000513	28.16	28.40	2.615	1.469	1.118	0.731
00000513	28.40	29.84	2.615	1.469	1.118	0.731
00000513	29.84	30.32	2.615	1.469	1.118	0.731
00000513	30.32	31.32	1.614	0.957	1.656	0.979
00000513	31.32	35.15	1.614	0.957	1.656	0.979
00000513	35.15	39.17	1.614	0.957	1.656	0.979
00000513	39.17	39.53	1.614	0.957	1.656	0.979
00000513	39.53	40.47	1.614	0.957	1.656	0.979
00000513	40.47	41.13	1.614	0.957	1.656	0.979
00000513	41.13	41.29	1.614	0.957	1.656	0.979
00000513	41.29	42.72	1.614	0.957	1.656	0.979
00000513	42.72	43.13	1.614	0.957	1.656	0.979
00000513	43.13	44.52	1.614	0.957	1.656	0.979
00000513	44.52	44.58	1.614	0.957	1.656	0.979
00000513	44.58	44.90	1.614	0.957	1.656	0.979
00000513	44.90	45.00	1.614	0.957	1.656	0.979
00000513	45.00	45.37	1.614	0.957	1.656	0.979
00000513	45.37	53.56	1.614	0.957	1.656	0.979
00000513	53.56	57.14	1.614	0.957	1.656	0.979
00000513	57.56	57.97	1.614	0.957	1.656	0.979
00000513	57.97	66.83	1.614	0.957	1.656	0.979
00000514	0.00	3.43	2.615	1.469	1.118	0.731
00000514	3.43	5.65	2.615	1.469	1.118	0.731
00000514	5.65	8.94	2.615	1.469	1.118	0.731
00000514	8.94	10.38	2.615	1.469	1.118	0.731
00000514	10.38	21.07	0.808	0.530	1.294	0.865
00000514	21.07	24.62	0.808	0.530	1.294	0.865
00000514	24.62	25.01	0.808	0.530	1.294	0.865
00000514	25.97	32.32	1.269	0.832	1.170	0.759
00000514	32.32	34.71	1.269	0.832	1.170	0.759

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000514	34.71	35.25	0.808	0.530	1.294	0.865
00000514	35.25	38.55	0.808	0.530	1.294	0.865
00000514	38.55	38.92	1.614	0.957	1.656	0.979
00000514	38.92	39.12	1.614	0.957	1.656	0.979
00000514	39.12	42.53	1.614	0.957	1.656	0.979
00000514	42.53	42.71	1.614	0.957	1.656	0.979
00000514	42.71	43.01	2.615	1.469	1.118	0.731
00000514	43.01	43.42	2.615	1.469	1.118	0.731
00000514C	0.00	0.03	0.808	0.530	1.294	0.865
00000514C	0.03	0.05	2.615	1.469	1.118	0.731
00000514S	0.00	0.25	2.615	1.469	1.118	0.731
00000514S	0.27	0.52	2.615	1.469	1.118	0.731
00000515	0.00	6.00	1.614	0.957	1.656	0.979
00000515	6.00	8.55	1.614	0.957	1.656	0.979
00000515	10.76	13.06	2.615	1.469	1.118	0.731
00000516	0.00	6.90	0.808	0.530	1.294	0.865
00000516	6.90	8.13	0.589	0.435	1.344	0.781
00000516	8.13	8.78	0.589	0.435	1.344	0.781
00000516	8.78	9.42	0.589	0.435	1.344	0.781
00000516	9.42	10.27	0.589	0.435	1.344	0.781
00000516	10.27	10.65	0.589	0.435	1.344	0.781
00000516	10.65	13.15	0.589	0.435	1.344	0.781
00000516	13.15	13.89	0.589	0.435	1.344	0.781
00000516	14.32	16.04	0.589	0.435	1.344	0.781
00000516	16.04	16.52	0.589	0.435	1.344	0.781
00000516	16.52	19.27	0.589	0.435	1.344	0.781
00000516S	0.00	0.30	0.589	0.435	1.344	0.781
00000516Z	0.00	0.90	0.589	0.435	1.344	0.781
00000517	0.00	0.45	2.615	1.469	1.118	0.731
00000517	0.45	6.16	2.615	1.469	1.118	0.731
00000517	6.16	10.14	2.615	1.469	1.118	0.731
00000517	10.14	14.45	2.615	1.469	1.118	0.731
00000517	15.85	16.88	1.614	0.957	1.656	0.979
00000517	16.88	20.48	1.614	0.957	1.656	0.979
00000517	20.48	22.36	1.614	0.957	1.656	0.979
00000517	22.36	25.90	1.614	0.957	1.656	0.979
00000517	25.90	26.00	1.614	0.957	1.656	0.979
00000517	26.00	26.85	1.614	0.957	1.656	0.979
00000517	26.85	27.04	1.614	0.957	1.656	0.979
00000517	27.12	27.75	1.614	0.957	1.656	0.979
00000517	27.75	32.71	1.614	0.957	1.656	0.979
00000517	32.71	33.00	1.614	0.957	1.656	0.979
00000517	33.00	35.55	1.614	0.957	1.656	0.979
00000517	35.55	36.91	1.614	0.957	1.656	0.979
00000517	36.91	38.60	1.614	0.957	1.656	0.979
00000517	38.60	39.84	1.614	0.957	1.656	0.979
00000517	42.54	43.13	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000517	43.13	46.45	2.615	1.469	1.118	0.731
00000517	46.84	50.66	2.615	1.469	1.118	0.731
00000517	50.66	53.43	2.615	1.469	1.118	0.731
00000517	53.43	53.86	2.615	1.469	1.118	0.731
00000518	0.00	0.80	2.615	1.469	1.118	0.731
00000518	0.80	0.92	2.615	1.469	1.118	0.731
00000518	0.92	4.53	2.615	1.469	1.118	0.731
00000518	4.53	7.21	2.615	1.469	1.118	0.731
00000518	7.21	9.09	0.808	0.530	1.294	0.865
00000518	9.09	9.52	0.808	0.530	1.294	0.865
00000518	9.52	10.04	0.808	0.530	1.294	0.865
00000518	10.04	10.48	0.808	0.530	1.294	0.865
00000518	10.48	13.74	0.808	0.530	1.294	0.865
00000518	13.74	16.78	0.808	0.530	1.294	0.865
00000518	16.78	20.58	0.808	0.530	1.294	0.865
00000519	0.00	0.15	2.615	1.469	1.118	0.731
00000519	0.15	8.81	2.615	1.469	1.118	0.731
00000519	8.81	11.78	2.615	1.469	1.118	0.731
00000519	11.78	14.86	2.615	1.469	1.118	0.731
00000519	14.86	17.43	2.615	1.469	1.118	0.731
00000519	17.43	17.52	1.614	0.957	1.656	0.979
00000519	17.52	25.35	1.614	0.957	1.656	0.979
00000519	25.35	26.22	1.614	0.957	1.656	0.979
00000519	26.22	27.29	1.614	0.957	1.656	0.979
00000519	27.29	27.36	1.614	0.957	1.656	0.979
00000519	27.59	28.42	1.614	0.957	1.656	0.979
00000519	28.42	32.27	1.614	0.957	1.656	0.979
00000519	32.27	38.62	1.614	0.957	1.656	0.979
00000519	38.62	42.05	1.614	0.957	1.656	0.979
00000519	42.05	45.38	1.614	0.957	1.656	0.979
00000519	45.38	48.41	1.614	0.957	1.656	0.979
00000519	48.41	48.52	2.615	1.469	1.118	0.731
00000519	48.52	54.93	2.615	1.469	1.118	0.731
00000519	54.93	56.33	2.615	1.469	1.118	0.731
00000519	56.33	57.00	2.615	1.469	1.118	0.731
00000519	57.00	59.24	2.615	1.469	1.118	0.731
00000519	59.24	63.62	2.615	1.469	1.118	0.731
00000519	63.62	64.42	2.615	1.469	1.118	0.731
00000519	64.94	65.78	2.615	1.469	1.118	0.731
00000519	65.78	65.90	2.615	1.469	1.118	0.731
00000519	65.90	69.30	2.615	1.469	1.118	0.731
00000519	69.30	69.96	2.615	1.469	1.118	0.731
00000519	69.96	71.65	2.615	1.469	1.118	0.731
00000519	71.65	72.00	2.615	1.469	1.118	0.731
00000519	72.00	77.66	2.615	1.469	1.118	0.731
00000519	77.66	83.70	2.615	1.469	1.118	0.731
00000519	85.91	88.54	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000520	0.00	2.06	0.808	0.530	1.294	0.865
0000520	2.06	10.25	0.589	0.435	1.344	0.781
0000520	10.25	10.99	0.589	0.435	1.344	0.781
0000520	10.99	14.86	0.589	0.435	1.344	0.781
0000520	14.86	16.81	1.612	0.941	1.269	0.803
0000520	16.84	16.94	0.589	0.435	1.344	0.781
0000520	16.94	17.51	0.589	0.435	1.344	0.781
0000520	17.51	17.84	0.589	0.435	1.344	0.781
0000520	17.84	22.39	0.589	0.435	1.344	0.781
0000521	0.00	1.14	1.614	0.957	1.656	0.979
0000521	1.14	6.09	2.615	1.469	1.118	0.731
0000521	6.35	11.26	2.615	1.469	1.118	0.731
0000521	11.26	12.19	2.615	1.469	1.118	0.731
0000521	12.19	16.09	2.615	1.469	1.118	0.731
0000521	16.09	20.67	2.615	1.469	1.118	0.731
0000521	20.67	23.85	2.615	1.469	1.118	0.731
0000521	23.85	24.98	2.615	1.469	1.118	0.731
0000521	24.98	27.06	2.615	1.469	1.118	0.731
0000521	36.71	43.71	2.615	1.469	1.118	0.731
0000522	0.00	3.71	0.808	0.530	1.294	0.865
0000522	3.71	5.35	0.808	0.530	1.294	0.865
0000522	5.74	8.06	0.808	0.530	1.294	0.865
0000522	8.06	9.61	0.808	0.530	1.294	0.865
0000522	9.61	10.26	0.808	0.530	1.294	0.865
0000522	10.26	15.06	0.808	0.530	1.294	0.865
0000522	15.06	15.54	0.808	0.530	1.294	0.865
0000522	15.54	15.72	0.808	0.530	1.294	0.865
0000522	15.72	15.83	0.808	0.530	1.294	0.865
0000522	15.83	19.40	0.808	0.530	1.294	0.865
0000522	19.40	20.41	1.829	0.990	1.246	0.783
0000522	20.41	20.99	1.829	0.990	1.246	0.783
0000523	0.00	0.28	2.615	1.469	1.118	0.731
0000523	0.28	6.39	2.615	1.469	1.118	0.731
0000523	6.39	9.13	2.615	1.469	1.118	0.731
0000523	9.13	9.33	1.614	0.957	1.656	0.979
0000523	9.33	9.75	1.614	0.957	1.656	0.979
0000523	9.75	10.23	1.614	0.957	1.656	0.979
0000523	10.23	10.35	1.614	0.957	1.656	0.979
0000523	10.35	11.72	1.614	0.957	1.656	0.979
0000523	11.72	12.66	1.614	0.957	1.656	0.979
0000523	12.66	14.11	1.614	0.957	1.656	0.979
0000523	14.11	15.67	1.614	0.957	1.656	0.979
0000523	15.67	19.48	1.614	0.957	1.656	0.979
0000523	19.48	20.36	1.614	0.957	1.656	0.979
0000523	20.55	22.42	1.614	0.957	1.656	0.979
0000523	22.42	22.84	2.615	1.469	1.118	0.731
0000523	22.84	23.68	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000523	23.68	29.16	2.615	1.469	1.118	0.731
0000523	29.16	29.55	2.615	1.469	1.118	0.731
0000524	0.00	1.91	0.691	0.475	0.927	0.596
0000524	1.91	6.21	0.808	0.530	1.294	0.865
0000524	6.21	6.81	0.808	0.530	1.294	0.865
0000524	6.81	7.04	2.615	1.469	1.118	0.731
0000524	7.04	7.26	2.615	1.469	1.118	0.731
0000524	7.26	7.91	2.615	1.469	1.118	0.731
0000524	7.91	14.74	2.615	1.469	1.118	0.731
0000524	14.74	14.81	2.615	1.469	1.118	0.731
0000524	14.81	15.84	2.615	1.469	1.118	0.731
0000524	15.84	18.10	2.615	1.469	1.118	0.731
0000524	18.10	20.00	2.615	1.469	1.118	0.731
0000524	20.00	20.41	1.829	0.990	1.246	0.783
0000524	20.41	21.23	1.829	0.990	1.246	0.783
0000524	21.23	25.52	1.829	0.990	1.246	0.783
0000524	25.52	29.79	2.615	1.469	1.118	0.731
0000524	29.79	30.53	2.615	1.469	1.118	0.731
0000524	30.53	32.04	2.615	1.469	1.118	0.731
0000524	32.04	33.05	2.615	1.469	1.118	0.731
0000524	33.05	35.03	2.615	1.469	1.118	0.731
0000524	35.03	35.90	2.615	1.469	1.118	0.731
0000524	35.90	36.08	0.589	0.435	1.344	0.781
0000524	36.08	36.29	2.615	1.469	1.118	0.731
0000524	36.29	36.63	2.615	1.469	1.118	0.731
0000524	36.63	39.90	0.589	0.435	1.344	0.781
0000524A	0.00	3.74	2.615	1.469	1.118	0.731
0000524S	0.00	3.39	0.589	0.435	1.344	0.781
0000525	0.00	1.03	2.615	1.469	1.118	0.731
0000525	1.03	2.72	2.615	1.469	1.118	0.731
0000525	2.72	2.99	0.808	0.530	1.294	0.865
0000525	2.99	3.81	0.808	0.530	1.294	0.865
0000525	3.81	4.15	1.614	0.957	1.656	0.979
0000525	4.15	4.98	1.614	0.957	1.656	0.979
0000525	4.98	7.22	1.614	0.957	1.656	0.979
0000525	7.22	11.56	1.614	0.957	1.656	0.979
0000525	11.68	12.41	1.614	0.957	1.656	0.979
0000525	12.41	15.15	1.614	0.957	1.656	0.979
0000525	15.15	15.61	1.614	0.957	1.656	0.979
0000525	15.61	16.88	1.614	0.957	1.656	0.979
0000526	0.00	0.68	0.808	0.530	1.294	0.865
0000526	0.68	1.03	0.808	0.530	1.294	0.865
0000526	1.03	3.04	0.808	0.530	1.294	0.865
0000526	3.04	3.42	0.808	0.530	1.294	0.865
0000526	3.42	3.64	0.808	0.530	1.294	0.865
0000526	3.64	6.58	0.808	0.530	1.294	0.865
0000526	7.02	7.37	0.808	0.530	1.294	0.865

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000526	7.37	10.19	0.808	0.530	1.294	0.865
00000526	10.19	10.50	0.808	0.530	1.294	0.865
00000526	10.52	11.40	2.615	1.469	1.118	0.731
00000526	11.40	17.47	2.615	1.469	1.118	0.731
00000526	17.47	18.62	2.615	1.469	1.118	0.731
00000526	18.62	19.61	2.615	1.469	1.118	0.731
00000526	19.61	20.07	2.615	1.469	1.118	0.731
00000526	20.07	20.08	2.615	1.469	1.118	0.731
00000526	20.08	20.42	1.829	0.990	1.246	0.783
00000526	20.42	24.94	1.829	0.990	1.246	0.783
00000526	24.94	25.27	1.829	0.990	1.246	0.783
00000526	25.27	25.37	1.829	0.990	1.246	0.783
00000526	25.37	26.96	1.829	0.990	1.246	0.783
00000526	26.96	27.74	1.829	0.990	1.246	0.783
00000526	27.74	31.73	0.589	0.435	1.344	0.781
00000526	31.73	34.56	0.936	0.619	0.886	0.581
00000526	34.56	35.56	0.936	0.619	0.886	0.581
00000526A	0.00	0.44	2.615	1.469	1.118	0.731
00000527	0.11	0.85	0.589	0.435	1.344	0.781
00000527	0.85	1.97	0.589	0.435	1.344	0.781
00000527	1.97	3.76	2.615	1.469	1.118	0.731
00000527	3.76	4.10	2.615	1.469	1.118	0.731
00000527	4.10	11.71	0.589	0.435	1.344	0.781
00000527	11.71	15.49	1.829	0.990	1.246	0.783
00000527	15.49	18.47	1.829	0.990	1.246	0.783
00000527	18.47	19.59	2.615	1.469	1.118	0.731
00000527	19.59	21.59	2.615	1.469	1.118	0.731
00000527	21.59	22.43	2.615	1.469	1.118	0.731
00000527	22.43	23.03	2.615	1.469	1.118	0.731
00000527	23.03	24.38	2.615	1.469	1.118	0.731
00000527	24.38	26.61	2.615	1.469	1.118	0.731
00000527	26.61	27.02	1.829	0.990	1.246	0.783
00000527	27.02	28.09	1.829	0.990	1.246	0.783
00000527	28.09	29.28	0.808	0.530	1.294	0.865
00000527	29.28	29.40	0.808	0.530	1.294	0.865
00000527	29.40	29.61	0.808	0.530	1.294	0.865
00000527	29.61	29.84	0.808	0.530	1.294	0.865
00000527	29.84	29.97	0.808	0.530	1.294	0.865
00000527	30.08	30.57	0.808	0.530	1.294	0.865
00000527	30.57	33.61	0.808	0.530	1.294	0.865
00000527	33.61	35.90	0.808	0.530	1.294	0.865
00000527	35.90	37.86	0.808	0.530	1.294	0.865
00000527	38.04	38.50	0.589	0.435	1.344	0.781
00000527	38.50	38.68	0.589	0.435	1.344	0.781
00000527	38.68	42.92	0.808	0.530	1.294	0.865
00000527	46.04	46.73	0.808	0.530	1.294	0.865
00000527	46.84	51.58	1.020	0.615	0.954	0.635

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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	51.58	52.49	0.808	0.530	1.294	0.865
00000527	52.49	53.36	0.808	0.530	1.294	0.865
00000527	53.36	53.59	0.808	0.530	1.294	0.865
00000527	53.59	55.91	0.808	0.530	1.294	0.865
00000527	55.91	57.10	0.808	0.530	1.294	0.865
00000527	57.10	57.72	1.614	0.957	1.656	0.979
00000527	57.72	58.20	1.614	0.957	1.656	0.979
00000527	58.20	61.05	1.614	0.957	1.656	0.979
00000527	61.05	64.46	1.614	0.957	1.656	0.979
00000527	64.46	68.64	1.614	0.957	1.656	0.979
00000527	68.64	69.30	1.614	0.957	1.656	0.979
00000527	69.30	70.08	1.614	0.957	1.656	0.979
00000527	70.10	71.19	1.269	0.832	1.170	0.759
00000527	71.19	71.33	1.614	0.957	1.656	0.979
00000527	71.33	74.38	1.614	0.957	1.656	0.979
00000527	74.38	75.54	1.614	0.957	1.656	0.979
00000527	75.54	76.48	2.615	1.469	1.118	0.731
00000527	76.48	76.90	1.269	0.832	1.170	0.759
00000527	76.90	78.17	1.269	0.832	1.170	0.759
00000527	78.17	79.02	1.614	0.957	1.656	0.979
00000527	79.02	79.05	1.614	0.957	1.656	0.979
00000527	79.05	79.18	1.614	0.957	1.656	0.979
00000527	79.18	80.79	1.614	0.957	1.656	0.979
00000527	81.41	84.80	1.614	0.957	1.656	0.979
00000527	84.80	84.86	1.614	0.957	1.656	0.979
00000527A	0.00	2.87	2.615	1.469	1.118	0.731
00000527A	2.87	2.89	2.615	1.469	1.118	0.731
00000527A	2.89	5.35	2.615	1.469	1.118	0.731
00000527A	5.35	5.74	2.615	1.469	1.118	0.731
00000527A	5.74	5.92	2.615	1.469	1.118	0.731
00000527Z	0.00	0.26	1.269	0.832	1.170	0.759
00000527Z	0.26	0.30	1.269	0.832	1.170	0.759
00000528	0.00	2.95	2.615	1.469	1.118	0.731
00000528	2.95	5.74	2.615	1.469	1.118	0.731
00000528	5.74	8.85	2.615	1.469	1.118	0.731
00000528	8.85	9.30	2.615	1.469	1.118	0.731
00000528	9.30	11.59	2.615	1.469	1.118	0.731
00000528	11.59	12.02	2.615	1.469	1.118	0.731
00000528	12.02	16.06	2.615	1.469	1.118	0.731
00000528	16.06	17.29	2.615	1.469	1.118	0.731
00000528	17.29	18.18	2.615	1.469	1.118	0.731
00000528	18.18	19.92	2.615	1.469	1.118	0.731
00000528	19.92	22.46	1.829	0.990	1.246	0.783
00000528	26.20	27.96	1.829	0.990	1.246	0.783
00000528	27.96	29.09	0.589	0.435	1.344	0.781
00000528	29.09	30.25	0.589	0.435	1.344	0.781
00000528	30.25	30.39	0.936	0.619	0.886	0.581

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000528	30.39	34.94	0.936	0.619	0.886	0.581
0000528	34.94	35.78	0.589	0.435	1.344	0.781
0000528	35.78	39.64	0.589	0.435	1.344	0.781
0000528	39.64	39.89	0.589	0.435	1.344	0.781
0000529	0.00	0.25	0.808	0.530	1.294	0.865
0000529	0.25	3.59	1.269	0.832	1.170	0.759
0000529	3.59	5.31	1.269	0.832	1.170	0.759
0000529	5.31	7.16	1.269	0.832	1.170	0.759
0000529	7.16	7.53	1.269	0.832	1.170	0.759
0000529	7.53	7.54	0.808	0.530	1.294	0.865
0000529	7.54	8.41	0.808	0.530	1.294	0.865
0000529	8.41	8.58	1.614	0.957	1.656	0.979
0000529	8.58	9.44	2.615	1.469	1.118	0.731
0000529	9.44	10.07	2.615	1.469	1.118	0.731
0000529	10.07	10.57	2.615	1.469	1.118	0.731
0000530	0.00	2.68	1.104	0.676	0.935	0.620
0000530	2.68	4.85	1.104	0.676	0.935	0.620
0000530	4.85	6.12	1.104	0.676	0.935	0.620
0000530	6.12	8.48	1.104	0.676	0.935	0.620
0000530	8.48	8.78	1.104	0.676	0.935	0.620
0000530	8.78	14.28	1.104	0.676	0.935	0.620
0000530	19.41	19.90	1.829	0.990	1.246	0.783
0000530	19.90	27.29	0.589	0.435	1.344	0.781
0000530	27.29	30.67	0.589	0.435	1.344	0.781
0000530	30.67	31.21	0.589	0.435	1.344	0.781
0000531	0.00	2.49	0.589	0.435	1.344	0.781
0000531	2.49	3.43	0.808	0.530	1.294	0.865
0000531	3.43	8.65	0.808	0.530	1.294	0.865
0000531	8.65	8.82	1.614	0.957	1.656	0.979
0000531	8.82	8.91	1.614	0.957	1.656	0.979
0000531	8.91	10.82	1.614	0.957	1.656	0.979
0000531	10.90	13.59	1.614	0.957	1.656	0.979
0000531	13.59	13.61	1.614	0.957	1.656	0.979
0000531Z	0.00	1.19	1.614	0.957	1.656	0.979
0000532	0.00	2.83	1.829	0.990	1.246	0.783
0000532	2.83	4.05	1.829	0.990	1.246	0.783
0000532	4.05	5.35	2.615	1.469	1.118	0.731
0000532	5.35	7.20	2.615	1.469	1.118	0.731
0000532	7.20	19.43	2.615	1.469	1.118	0.731
0000532	27.09	32.97	2.615	1.469	1.118	0.731
0000532	32.97	33.04	2.615	1.469	1.118	0.731
0000532	33.04	33.91	0.589	0.435	1.344	0.781
0000532	33.91	35.19	0.589	0.435	1.344	0.781
0000533	0.00	1.41	0.808	0.530	1.294	0.865
0000533	1.41	3.51	0.808	0.530	1.294	0.865
0000533	3.51	8.41	0.808	0.530	1.294	0.865
0000533	8.41	8.65	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000533	8.65	10.42	2.615	1.469	1.118	0.731
0000533	10.42	10.88	2.615	1.469	1.118	0.731
0000533	17.33	17.47	2.615	1.469	1.118	0.731
0000533	17.47	22.61	2.615	1.469	1.118	0.731
0000533	22.61	25.14	2.615	1.469	1.118	0.731
0000533	25.14	25.52	2.615	1.469	1.118	0.731
0000533	25.52	26.41	0.808	0.530	1.294	0.865
0000533	26.41	27.39	0.808	0.530	1.294	0.865
0000533	27.39	28.72	0.808	0.530	1.294	0.865
0000533	28.72	29.69	0.808	0.530	1.294	0.865
0000533	29.69	29.89	0.808	0.530	1.294	0.865
0000533	29.89	31.49	0.808	0.530	1.294	0.865
0000533	31.49	32.06	0.808	0.530	1.294	0.865
0000533	32.06	32.14	0.808	0.530	1.294	0.865
0000533	32.14	32.36	0.808	0.530	1.294	0.865
0000533	32.60	32.78	0.808	0.530	1.294	0.865
0000533S	0.00	0.45	0.808	0.530	1.294	0.865
0000533Z	0.00	0.14	2.615	1.469	1.118	0.731
0000534	0.00	0.99	0.768	0.616	1.550	0.850
0000534	0.99	1.17	1.739	0.950	1.284	0.807
0000534	1.17	3.88	2.615	1.469	1.118	0.731
0000534	3.88	4.00	1.739	0.950	1.284	0.807
0000534	4.00	4.42	1.739	0.950	1.284	0.807
0000534	4.42	5.13	0.768	0.616	1.550	0.850
0000534	5.13	8.01	0.768	0.616	1.550	0.850
0000534	8.01	8.51	0.768	0.616	1.550	0.850
0000534	8.51	11.45	1.829	0.990	1.246	0.783
0000534	12.23	17.16	1.829	0.990	1.246	0.783
0000534	17.16	19.26	2.615	1.469	1.118	0.731
0000534	19.26	20.88	2.615	1.469	1.118	0.731
0000534	20.88	22.80	2.615	1.469	1.118	0.731
0000535	0.00	2.00	0.808	0.530	1.294	0.865
0000535	2.00	3.31	0.808	0.530	1.294	0.865
0000535	3.31	3.44	0.808	0.530	1.294	0.865
0000535	3.44	6.41	0.808	0.530	1.294	0.865
0000535	6.41	7.41	0.808	0.530	1.294	0.865
0000535	7.60	13.55	0.808	0.530	1.294	0.865
0000535	13.55	13.74	2.615	1.469	1.118	0.731
0000535	13.74	14.15	2.615	1.469	1.118	0.731
0000535	14.15	14.54	2.615	1.469	1.118	0.731
0000535	14.54	14.73	0.808	0.530	1.294	0.865
0000535	14.73	14.78	0.808	0.530	1.294	0.865
0000535	14.78	14.85	0.808	0.530	1.294	0.865
0000535	14.94	15.77	0.790	0.492	0.672	0.449
0000535	15.77	17.41	0.790	0.492	0.672	0.449
0000535	17.41	20.51	0.790	0.492	0.672	0.449
0000535	20.51	25.82	0.790	0.492	0.672	0.449

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000535	25.82	26.47	0.808	0.530	1.294	0.865
0000535	26.47	27.88	0.808	0.530	1.294	0.865
0000535	27.88	31.73	0.589	0.435	1.344	0.781
0000535	31.73	32.27	0.589	0.435	1.344	0.781
0000535	32.27	32.31	2.615	1.469	1.118	0.731
0000535Z	0.00	0.05	1.020	0.615	0.954	0.635
0000535Z	0.17	0.27	0.808	0.530	1.294	0.865
0000536	24.24	24.38	1.739	0.950	1.284	0.807
0000536	24.38	24.77	1.739	0.950	1.284	0.807
0000536	24.77	27.73	1.829	0.990	1.246	0.783
0000536	27.73	30.18	1.829	0.990	1.246	0.783
0000536	30.18	32.47	2.615	1.469	1.118	0.731
0000536	32.55	33.08	1.829	0.990	1.246	0.783
0000536	33.08	34.38	2.615	1.469	1.118	0.731
0000536	34.38	37.66	2.615	1.469	1.118	0.731
0000536	37.66	38.52	2.615	1.469	1.118	0.731
00005361	0.00	0.08	0.980	0.626	1.525	0.915
0000536S	0.00	1.54	0.957	0.574	1.727	1.045
0000536S	1.54	1.67	1.829	0.990	1.246	0.783
0000536S	1.67	5.96	1.829	0.990	1.246	0.783
0000536S	5.96	7.31	1.829	0.990	1.246	0.783
0000536S	7.31	7.57	1.829	0.990	1.246	0.783
0000536S	8.25	8.63	1.829	0.990	1.246	0.783
0000537	0.00	0.17	2.615	1.469	1.118	0.731
0000537	0.17	0.52	1.739	0.950	1.284	0.807
0000537	0.52	0.64	0.768	0.616	1.550	0.850
0000537	0.64	3.66	0.808	0.530	1.294	0.865
0000537	3.66	4.10	0.808	0.530	1.294	0.865
0000537	4.10	4.53	0.808	0.530	1.294	0.865
0000537	4.53	5.11	0.808	0.530	1.294	0.865
0000537	5.11	6.64	0.808	0.530	1.294	0.865
0000537	6.64	7.04	0.808	0.530	1.294	0.865
0000537	7.04	7.87	0.808	0.530	1.294	0.865
0000537	7.87	9.39	0.808	0.530	1.294	0.865
0000537	9.39	10.90	0.808	0.530	1.294	0.865
0000537	10.90	11.37	0.808	0.530	1.294	0.865
0000537	11.37	12.15	0.808	0.530	1.294	0.865
0000537	12.15	12.36	0.808	0.530	1.294	0.865
0000537	12.36	18.11	0.808	0.530	1.294	0.865
0000537	18.11	18.81	0.808	0.530	1.294	0.865
0000537	18.81	19.50	0.808	0.530	1.294	0.865
0000537	19.50	19.94	0.808	0.530	1.294	0.865
0000537	19.94	21.61	0.808	0.530	1.294	0.865
0000537	21.61	27.34	1.829	0.990	1.246	0.783
0000537	27.34	28.52	1.829	0.990	1.246	0.783
0000537	28.52	29.44	1.829	0.990	1.246	0.783
0000537	29.44	31.31	1.829	0.990	1.246	0.783

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000537	31.31	38.44	1.829	0.990	1.246	0.783
0000537	38.44	41.67	1.829	0.990	1.246	0.783
0000537	41.67	44.26	1.829	0.990	1.246	0.783
0000537	44.26	46.31	1.829	0.990	1.246	0.783
0000537	47.54	48.16	1.829	0.990	1.246	0.783
0000537	48.16	50.81	1.829	0.990	1.246	0.783
0000537	50.81	52.20	1.051	0.666	1.069	0.690
0000537	52.38	52.87	1.051	0.666	1.069	0.690
0000537	52.87	55.24	1.051	0.666	1.069	0.690
0000537	55.24	61.78	1.829	0.990	1.246	0.783
0000537	61.78	64.50	0.589	0.435	1.344	0.781
00005371	0.00	0.18	0.808	0.530	1.294	0.865
0000537S	0.00	0.35	1.739	0.950	1.284	0.807
0000537S	0.35	1.08	1.739	0.950	1.284	0.807
0000538	0.00	1.04	2.615	1.469	1.118	0.731
0000538	1.04	3.61	2.615	1.469	1.118	0.731
0000538	3.61	7.27	2.615	1.469	1.118	0.731
0000538	7.27	8.05	2.615	1.469	1.118	0.731
0000538	8.05	12.41	2.615	1.469	1.118	0.731
0000538	12.41	13.39	2.615	1.469	1.118	0.731
0000538	13.39	15.07	2.615	1.469	1.118	0.731
0000538	15.07	15.49	2.615	1.469	1.118	0.731
0000538	15.49	15.52	1.191	0.624	1.639	0.833
0000538	15.52	16.27	1.191	0.624	1.639	0.833
0000538	16.27	24.10	2.615	1.469	1.118	0.731
0000539	0.00	3.57	2.615	1.469	1.118	0.731
0000539	3.57	13.78	2.615	1.469	1.118	0.731
0000539	13.78	20.85	2.615	1.469	1.118	0.731
0000539	20.85	25.10	2.615	1.469	1.118	0.731
0000539	25.36	33.71	2.615	1.469	1.118	0.731
0000539	33.71	35.16	2.615	1.469	1.118	0.731
0000539	35.16	37.17	2.615	1.469	1.118	0.731
0000539	37.17	37.71	2.615	1.469	1.118	0.731
0000539	37.71	43.83	2.615	1.469	1.118	0.731
0000539	43.83	44.10	2.615	1.469	1.118	0.731
0000539	45.50	49.42	2.615	1.469	1.118	0.731
0000539	49.42	51.55	2.615	1.469	1.118	0.731
0000539	51.55	51.92	0.808	0.530	1.294	0.865
0000539	52.08	52.16	2.615	1.469	1.118	0.731
0000539	52.16	53.19	2.615	1.469	1.118	0.731
0000539	53.19	53.53	2.615	1.469	1.118	0.731
0000539	53.59	54.32	2.615	1.469	1.118	0.731
0000539A	0.00	1.47	1.020	0.615	0.954	0.635
0000540	0.92	1.53	2.615	1.469	1.118	0.731
0000540	1.53	5.63	2.615	1.469	1.118	0.731
0000540	5.63	6.90	2.615	1.469	1.118	0.731
0000540	6.90	7.41	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000540	7.41	7.54	2.615	1.469	1.118	0.731
0000540	8.70	8.79	2.615	1.469	1.118	0.731
0000540	8.79	12.47	2.615	1.469	1.118	0.731
0000540	12.47	13.07	2.615	1.469	1.118	0.731
0000540	13.07	13.39	2.615	1.469	1.118	0.731
0000540	13.39	17.17	2.615	1.469	1.118	0.731
0000540	17.17	24.83	2.615	1.469	1.118	0.731
0000540	24.83	25.89	2.615	1.469	1.118	0.731
0000540	25.89	26.56	2.615	1.469	1.118	0.731
0000540	26.56	29.53	2.615	1.469	1.118	0.731
0000540	29.53	30.29	2.615	1.469	1.118	0.731
0000540	30.29	33.09	2.615	1.469	1.118	0.731
0000540	33.09	33.19	2.615	1.469	1.118	0.731
0000540	33.19	33.74	2.615	1.469	1.118	0.731
0000540	33.74	35.72	2.615	1.469	1.118	0.731
0000540	35.72	36.10	1.191	0.624	1.639	0.833
0000540	36.10	39.38	1.191	0.624	1.639	0.833
0000540	39.38	40.30	1.191	0.624	1.639	0.833
0000540	40.30	42.44	2.615	1.469	1.118	0.731
0000540	42.44	43.16	2.615	1.469	1.118	0.731
0000541	0.00	1.79	1.829	0.990	1.246	0.783
0000541	1.79	9.67	1.829	0.990	1.246	0.783
0000541	9.67	10.27	1.829	0.990	1.246	0.783
0000541	10.27	10.62	1.829	0.990	1.246	0.783
0000541	10.62	15.58	1.829	0.990	1.246	0.783
0000541	15.58	16.34	0.808	0.530	1.294	0.865
0000541	16.34	18.35	0.866	0.602	1.213	0.781
0000541	18.35	20.72	0.866	0.602	1.213	0.781
0000541	20.72	23.11	0.866	0.602	1.213	0.781
0000541	23.11	23.84	0.866	0.602	1.213	0.781
0000541T	0.00	1.49	0.808	0.530	1.294	0.865
0000542	0.00	0.16	1.191	0.624	1.639	0.833
0000542	0.16	1.68	1.191	0.624	1.639	0.833
0000542	1.76	4.08	2.615	1.469	1.118	0.731
0000542	4.08	20.57	2.615	1.469	1.118	0.731
0000543	0.00	5.41	0.808	0.530	1.294	0.865
0000543	5.41	5.58	0.502	0.366	0.956	0.629
0000543	5.58	5.77	0.502	0.366	0.956	0.629
0000543	5.77	7.29	0.502	0.366	0.956	0.629
0000543	7.29	10.27	0.866	0.602	1.213	0.781
0000543	10.27	10.46	0.866	0.602	1.213	0.781
0000543	10.46	10.83	0.866	0.602	1.213	0.781
0000543	10.83	12.83	0.866	0.602	1.213	0.781
0000543	12.83	14.72	0.866	0.602	1.213	0.781
0000543	14.72	16.03	0.866	0.602	1.213	0.781
0000543	17.95	19.11	0.808	0.530	1.294	0.865
0000543	19.11	21.93	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000543	21.93	22.50	2.615	1.469	1.118	0.731
0000543	22.50	22.74	2.615	1.469	1.118	0.731
0000543	22.74	24.39	2.615	1.469	1.118	0.731
0000543	24.39	24.48	2.615	1.469	1.118	0.731
0000543	24.48	24.87	2.615	1.469	1.118	0.731
0000543	24.87	27.60	2.615	1.469	1.118	0.731
0000543	27.60	28.19	2.615	1.469	1.118	0.731
0000543	28.19	28.77	2.615	1.469	1.118	0.731
0000544	0.00	1.84	0.768	0.616	1.550	0.850
0000544	2.16	4.46	0.768	0.616	1.550	0.850
0000544	4.46	4.83	0.768	0.616	1.550	0.850
0000544	4.83	11.12	0.502	0.366	0.956	0.629
0000544	11.12	11.31	1.829	0.990	1.246	0.783
0000544	11.31	13.75	1.829	0.990	1.246	0.783
0000544	13.75	14.94	1.829	0.990	1.246	0.783
0000545	0.00	1.53	1.829	0.990	1.246	0.783
0000545	1.53	4.46	1.829	0.990	1.246	0.783
0000545	4.46	4.83	1.829	0.990	1.246	0.783
0000545	4.83	5.39	1.829	0.990	1.246	0.783
0000545	5.39	6.94	1.829	0.990	1.246	0.783
0000545	6.94	8.89	2.615	1.469	1.118	0.731
0000545	8.89	9.15	2.615	1.469	1.118	0.731
0000545	9.15	12.54	2.615	1.469	1.118	0.731
0000545	12.54	13.73	2.615	1.469	1.118	0.731
0000545	13.73	14.76	2.615	1.469	1.118	0.731
0000546	0.00	5.26	0.808	0.530	1.294	0.865
0000546	5.26	8.38	0.808	0.530	1.294	0.865
0000546	8.38	9.98	0.808	0.530	1.294	0.865
0000547	0.00	1.90	1.829	0.990	1.246	0.783
0000547	1.90	5.54	1.829	0.990	1.246	0.783
0000547	9.28	9.61	0.589	0.435	1.344	0.781
0000547	9.61	9.63	0.589	0.435	1.344	0.781
0000547	9.63	10.18	0.589	0.435	1.344	0.781
0000547	10.18	14.67	2.615	1.469	1.118	0.731
0000547	14.67	15.05	0.589	0.435	1.344	0.781
0000547	15.05	15.33	2.615	1.469	1.118	0.731
0000547	17.60	20.44	2.615	1.469	1.118	0.731
0000547	20.87	25.98	0.589	0.435	1.344	0.781
0000547	25.98	28.29	0.589	0.435	1.344	0.781
0000547	28.51	29.56	0.589	0.435	1.344	0.781
0000547	29.56	30.36	0.589	0.435	1.344	0.781
0000547S	0.00	0.45	0.589	0.435	1.344	0.781
0000548	0.00	9.18	2.615	1.469	1.118	0.731
0000549	0.00	0.25	0.589	0.435	1.344	0.781
0000549	0.25	1.19	0.589	0.435	1.344	0.781
0000549	1.19	5.96	0.936	0.619	0.886	0.581
0000549	5.96	8.69	0.936	0.619	0.886	0.581

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000549	8.69	11.45	0.936	0.619	0.886	0.581
0000549	11.45	12.09	0.936	0.619	0.886	0.581
0000549	12.09	12.35	0.936	0.619	0.886	0.581
0000549	12.35	13.01	0.589	0.435	1.344	0.781
0000549	13.01	14.37	0.589	0.435	1.344	0.781
0000549	14.37	17.82	0.589	0.435	1.344	0.781
0000549S1	0.00	3.97	0.589	0.435	1.344	0.781
0000549S1B1001	0.00	0.03	0.589	0.435	1.344	0.781
0000549S2	1.45	4.09	0.936	0.619	0.886	0.581
0000550	0.00	4.37	2.615	1.469	1.118	0.731
0000550	4.37	5.37	2.615	1.469	1.118	0.731
0000550	5.37	6.23	2.615	1.469	1.118	0.731
0000550	6.23	8.87	2.615	1.469	1.118	0.731
0000550	8.87	9.03	2.615	1.469	1.118	0.731
0000550	9.03	9.31	2.615	1.469	1.118	0.731
0000550	9.31	10.95	2.615	1.469	1.118	0.731
0000550	10.95	13.63	2.615	1.469	1.118	0.731
0000550	13.63	14.44	2.615	1.469	1.118	0.731
0000550	14.44	15.92	2.615	1.469	1.118	0.731
0000550S	0.00	1.43	2.615	1.469	1.118	0.731
0000550S	1.43	2.48	2.615	1.469	1.118	0.731
0000550S	2.60	4.84	2.615	1.469	1.118	0.731
0000551	0.00	4.66	1.739	0.950	1.284	0.807
0000551	5.12	7.83	1.739	0.950	1.284	0.807
0000551	7.83	11.52	2.615	1.469	1.118	0.731
0000551	11.52	11.76	2.615	1.469	1.118	0.731
0000551	11.76	12.42	2.615	1.469	1.118	0.731
0000551	12.42	15.70	2.615	1.469	1.118	0.731
0000551	15.70	17.01	2.615	1.469	1.118	0.731
0000551	17.01	23.84	1.739	0.950	1.284	0.807
0000551	23.84	24.11	1.739	0.950	1.284	0.807
0000551	24.11	25.50	1.739	0.950	1.284	0.807
0000551	25.50	25.90	1.739	0.950	1.284	0.807
0000551	27.34	27.36	1.739	0.950	1.284	0.807
0000551	27.36	29.08	1.739	0.950	1.284	0.807
0000551	29.46	30.56	1.739	0.950	1.284	0.807
0000551	30.56	32.18	1.739	0.950	1.284	0.807
0000551	32.18	34.57	0.768	0.616	1.550	0.850
0000551S	0.00	1.34	1.739	0.950	1.284	0.807
0000551S	1.34	1.88	1.739	0.950	1.284	0.807
0000551S	1.88	3.35	1.739	0.950	1.284	0.807
0000551S	3.35	4.27	0.808	0.530	1.294	0.865
0000552	0.00	3.54	1.739	0.950	1.284	0.807
0000552	3.54	10.71	1.739	0.950	1.284	0.807
0000552	10.71	15.28	2.367	1.264	2.127	1.246
0000552	15.28	18.14	2.367	1.264	2.127	1.246
0000552	18.14	18.84	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000552	18.84	22.05	2.615	1.469	1.118	0.731
00000552	22.05	27.27	2.615	1.469	1.118	0.731
00000552	27.27	27.48	2.615	1.469	1.118	0.731
00000552S	0.00	1.41	2.367	1.264	2.127	1.246
00000552S	1.41	2.26	2.367	1.264	2.127	1.246
00000552S	2.26	3.41	2.367	1.264	2.127	1.246
00000553	0.00	0.14	1.191	0.624	1.639	0.833
00000553	0.14	12.54	2.367	1.264	2.127	1.246
00000553	12.54	14.16	2.367	1.264	2.127	1.246
00000553	14.16	18.73	2.367	1.264	2.127	1.246
00000553	18.73	22.97	1.739	0.950	1.284	0.807
00000553	22.97	23.78	1.739	0.950	1.284	0.807
00000553	23.78	25.97	1.739	0.950	1.284	0.807
00000553	25.97	27.44	2.615	1.469	1.118	0.731
00000553	27.56	29.29	2.615	1.469	1.118	0.731
00000553	29.29	31.06	2.615	1.469	1.118	0.731
00000553	31.06	31.96	2.615	1.469	1.118	0.731
00000553	31.96	33.63	2.615	1.469	1.118	0.731
00000553	33.63	36.16	2.615	1.469	1.118	0.731
00000553	36.16	36.64	2.615	1.469	1.118	0.731
00000553	36.64	39.81	1.739	0.950	1.284	0.807
00000553	39.81	40.23	1.739	0.950	1.284	0.807
00000553	40.23	41.41	1.739	0.950	1.284	0.807
00000553	41.41	41.59	1.739	0.950	1.284	0.807
00000553	41.89	42.19	0.768	0.616	1.550	0.850
00000553	42.19	42.82	0.768	0.616	1.550	0.850
00000553	42.82	43.09	0.768	0.616	1.550	0.850
00000553	43.09	44.25	0.768	0.616	1.550	0.850
00000553	44.25	45.01	1.739	0.950	1.284	0.807
00000553	45.01	48.09	1.739	0.950	1.284	0.807
00000553	48.09	49.32	1.739	0.950	1.284	0.807
00000553	49.32	49.87	1.739	0.950	1.284	0.807
00000553	49.87	50.87	1.739	0.950	1.284	0.807
00000553	50.87	51.22	1.739	0.950	1.284	0.807
00000553A	0.00	0.58	1.739	0.950	1.284	0.807
00000553A	0.58	1.28	1.739	0.950	1.284	0.807
00000553A	1.28	5.37	1.739	0.950	1.284	0.807
00000553A	5.37	6.19	1.739	0.950	1.284	0.807
00000554	0.00	2.29	0.589	0.435	1.344	0.781
00000554	2.29	6.07	0.589	0.435	1.344	0.781
00000555	0.00	3.80	2.615	1.469	1.118	0.731
00000555	3.80	6.44	2.615	1.469	1.118	0.731
00000555	6.44	7.29	2.615	1.469	1.118	0.731
00000555	7.29	7.79	2.615	1.469	1.118	0.731
00000555	7.79	8.30	2.615	1.469	1.118	0.731
00000555	8.30	9.36	2.367	1.264	2.127	1.246
00000555	9.36	9.48	2.367	1.264	2.127	1.246

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000555	9.48	9.70	2.367	1.264	2.127	1.246
0000555	10.05	10.50	1.191	0.624	1.639	0.833
0000555	10.50	10.55	2.367	1.264	2.127	1.246
0000555	10.55	12.32	2.367	1.264	2.127	1.246
0000555	12.32	12.61	2.367	1.264	2.127	1.246
0000555	12.61	16.56	2.367	1.264	2.127	1.246
0000555	16.93	18.60	1.191	0.624	1.639	0.833
0000555	18.60	21.50	2.615	1.469	1.118	0.731
0000555	21.50	25.49	2.615	1.469	1.118	0.731
0000555	25.49	25.84	2.615	1.469	1.118	0.731
0000555	25.84	34.20	1.739	0.950	1.284	0.807
0000557	0.00	2.84	2.615	1.469	1.118	0.731
0000557	2.84	3.10	2.615	1.469	1.118	0.731
0000557	3.51	3.77	2.615	1.469	1.118	0.731
0000557	3.77	6.89	2.615	1.469	1.118	0.731
0000557	6.89	7.67	2.615	1.469	1.118	0.731
0000557	7.67	8.76	2.615	1.469	1.118	0.731
0000557	8.76	9.42	2.615	1.469	1.118	0.731
0000557	12.75	27.57	2.615	1.469	1.118	0.731
0000557	27.57	27.73	2.615	1.469	1.118	0.731
0000557	30.87	31.85	1.191	0.624	1.639	0.833
0000557	31.85	35.81	1.191	0.624	1.639	0.833
0000557	35.81	36.15	1.191	0.624	1.639	0.833
0000559	0.00	5.23	2.367	1.264	2.127	1.246
0000559	5.23	6.81	2.615	1.469	1.118	0.731
0000559	6.81	9.68	2.615	1.469	1.118	0.731
0000559	9.68	12.05	2.615	1.469	1.118	0.731
0000559	12.05	14.07	1.191	0.624	1.639	0.833
0000559	14.41	15.06	2.615	1.469	1.118	0.731
0000559	15.06	17.74	2.615	1.469	1.118	0.731
0000559	17.74	18.11	2.615	1.469	1.118	0.731
0000559	18.11	26.31	2.615	1.469	1.118	0.731
0000559	26.31	28.02	2.615	1.469	1.118	0.731
0000559	28.02	29.15	2.615	1.469	1.118	0.731
0000559	29.15	29.64	1.191	0.624	1.639	0.833
0000559	29.64	30.84	2.615	1.469	1.118	0.731
0000559A	0.00	0.68	2.615	1.469	1.118	0.731
0000559A	0.68	9.49	1.191	0.624	1.639	0.833
0000560	0.00	2.36	2.615	1.469	1.118	0.731
0000560	2.36	5.05	2.615	1.469	1.118	0.731
0000561	0.00	1.54	2.615	1.469	1.118	0.731
0000561	1.54	4.79	0.589	0.435	1.344	0.781
0000561	4.79	6.05	0.589	0.435	1.344	0.781
0000561	6.05	15.95	1.191	0.624	1.639	0.833
0000561	15.95	20.53	1.191	0.624	1.639	0.833
0000561	20.53	20.98	1.191	0.624	1.639	0.833
0000561	20.98	22.27	1.191	0.624	1.639	0.833

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000561	22.27	22.71	1.191	0.624	1.639	0.833
0000561	22.71	24.42	2.615	1.469	1.118	0.731
0000561	24.42	24.86	2.615	1.469	1.118	0.731
0000561	24.86	25.79	2.615	1.469	1.118	0.731
0000561	25.79	27.82	2.615	1.469	1.118	0.731
0000561	32.48	33.24	1.829	0.990	1.246	0.783
0000561	33.24	35.78	1.829	0.990	1.246	0.783
0000561	36.33	36.76	0.980	0.626	1.525	0.915
0000561	36.76	38.94	0.502	0.366	0.956	0.629
0000561	38.94	39.52	0.502	0.366	0.956	0.629
0000561	39.52	41.19	0.502	0.366	0.956	0.629
0000561	41.19	43.94	0.768	0.616	1.550	0.850
0000561	43.94	44.90	0.768	0.616	1.550	0.850
0000561	44.90	44.96	0.808	0.530	1.294	0.865
0000561	44.96	45.54	0.808	0.530	1.294	0.865
0000561	45.54	45.66	0.808	0.530	1.294	0.865
0000561	45.66	50.52	0.808	0.530	1.294	0.865
0000561	50.52	50.95	0.768	0.616	1.550	0.850
00005611	0.00	0.69	2.615	1.469	1.118	0.731
00005612	0.00	0.17	0.808	0.530	1.294	0.865
00005613	0.00	0.55	0.980	0.626	1.525	0.915
00005614	0.00	0.06	0.808	0.530	1.294	0.865
00005614	0.06	0.56	0.502	0.366	0.956	0.629
0000561A	0.00	1.38	0.589	0.435	1.344	0.781
0000561A	1.38	2.68	0.589	0.435	1.344	0.781
0000561A	2.68	6.04	0.589	0.435	1.344	0.781
0000561A	6.04	6.58	0.589	0.435	1.344	0.781
0000561A	6.58	12.18	2.615	1.469	1.118	0.731
0000561A	12.18	15.79	2.615	1.469	1.118	0.731
0000563	0.00	0.84	0.589	0.435	1.344	0.781
0000563	0.84	0.90	0.589	0.435	1.344	0.781
0000563	0.90	0.96	0.589	0.435	1.344	0.781
0000563	0.96	3.12	0.589	0.435	1.344	0.781
0000563	3.12	3.36	0.589	0.435	1.344	0.781
0000563	3.36	3.73	0.589	0.435	1.344	0.781
0000563	3.73	4.47	0.589	0.435	1.344	0.781
0000563	4.47	6.27	1.456	0.900	2.526	1.368
0000563	7.14	13.74	1.456	0.900	2.526	1.368
0000563	16.70	19.61	2.615	1.469	1.118	0.731
0000563	19.61	19.87	2.615	1.469	1.118	0.731
0000563	19.87	24.23	2.615	1.469	1.118	0.731
0000563	24.23	24.73	2.615	1.469	1.118	0.731
0000563	24.86	39.98	2.615	1.469	1.118	0.731
0000563	40.07	43.87	2.615	1.469	1.118	0.731
0000565	0.00	4.77	1.614	0.957	1.656	0.979
0000565	4.77	7.20	1.614	0.957	1.656	0.979
0000565	7.20	8.02	2.615	1.469	1.118	0.731

**New Jersey Department of Transportation  
Bureau of Transportation Data and Support  
Traffic and Technology Section  
Average Equivalency Factors per Vehicle - 2021**

**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)
0000565	8.02	9.40	2.615	1.469	1.118	0.731
0000565	10.07	17.86	2.615	1.469	1.118	0.731
0000567	0.00	1.21	2.615	1.469	1.118	0.731
0000567	1.21	1.65	2.615	1.469	1.118	0.731
0000567	1.65	1.86	2.615	1.469	1.118	0.731
0000567	1.86	4.71	2.615	1.469	1.118	0.731
0000567	4.71	5.56	0.808	0.530	1.294	0.865
0000567	5.56	8.88	0.808	0.530	1.294	0.865
0000567	8.88	8.96	0.808	0.530	1.294	0.865
0000567	8.96	10.02	0.808	0.530	1.294	0.865
0000569	0.00	0.91	0.808	0.530	1.294	0.865
0000569	0.91	0.92	0.808	0.530	1.294	0.865
0000569	0.92	1.24	0.808	0.530	1.294	0.865
0000569	1.24	2.06	0.808	0.530	1.294	0.865
0000569	2.10	5.52	0.808	0.530	1.294	0.865
0000569	5.52	6.97	0.808	0.530	1.294	0.865
0000569	6.97	8.19	0.808	0.530	1.294	0.865
0000569	8.19	8.45	0.808	0.530	1.294	0.865
0000569	8.45	8.53	0.808	0.530	1.294	0.865
0000571	0.00	1.45	0.936	0.619	0.886	0.581
0000571	1.45	5.46	0.589	0.435	1.344	0.781
0000571	5.46	5.73	0.589	0.435	1.344	0.781
0000571	5.73	6.64	0.589	0.435	1.344	0.781
0000571	7.40	14.09	1.829	0.990	1.246	0.783
0000571	14.09	19.55	1.829	0.990	1.246	0.783
0000571	19.55	22.87	1.829	0.990	1.246	0.783
0000571	24.35	25.63	2.615	1.469	1.118	0.731
0000571	26.73	27.01	2.615	1.469	1.118	0.731
0000571	27.01	28.97	2.615	1.469	1.118	0.731
0000571	28.97	30.44	2.615	1.469	1.118	0.731
0000571	30.44	30.68	2.615	1.469	1.118	0.731
0000571	30.68	32.36	2.615	1.469	1.118	0.731
0000571	32.36	32.65	2.615	1.469	1.118	0.731
0000571	32.65	33.99	0.808	0.530	1.294	0.865
0000571	34.42	35.27	0.808	0.530	1.294	0.865
0000571	35.27	36.61	0.808	0.530	1.294	0.865
0000571	36.61	40.87	0.790	0.492	0.672	0.449
0000571	41.21	43.09	1.020	0.615	0.954	0.635
0000571	43.09	43.96	1.020	0.615	0.954	0.635
0000575	0.00	3.36	1.191	0.624	1.639	0.833
0000575	3.36	4.62	1.191	0.624	1.639	0.833
0000575	4.62	6.75	1.191	0.624	1.639	0.833
0000575	8.67	11.78	1.191	0.624	1.639	0.833
0000575	11.78	16.01	0.589	0.435	1.344	0.781
0000575	16.55	17.50	2.615	1.469	1.118	0.731
0000575	17.50	19.50	2.615	1.469	1.118	0.731
0000575	19.50	20.96	2.615	1.469	1.118	0.731

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

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000577	0.00	0.93	1.614	0.957	1.656	0.979
00000577	0.93	0.98	1.269	0.832	1.170	0.759
00000577	0.98	1.79	1.269	0.832	1.170	0.759
00000577	1.79	3.03	1.269	0.832	1.170	0.759
00000577	3.14	4.06	1.269	0.832	1.170	0.759
00000577	4.06	4.57	1.269	0.832	1.170	0.759
00000577	4.57	6.54	1.614	0.957	1.656	0.979
00000577	6.54	6.67	1.614	0.957	1.656	0.979
00000577	6.78	8.05	1.614	0.957	1.656	0.979
00000577	8.05	9.50	1.614	0.957	1.656	0.979
00000577	9.50	10.11	0.558	0.392	0.958	0.664
00000577	10.11	12.85	0.558	0.392	0.958	0.664
00000577	12.85	13.10	0.558	0.392	0.958	0.664
00000577Z	0.00	0.37	1.269	0.832	1.170	0.759
00000579	0.00	2.21	2.615	1.469	1.118	0.731
00000579	2.21	3.29	0.808	0.530	1.294	0.865
00000579	3.29	6.49	0.808	0.530	1.294	0.865
00000579	6.49	7.66	0.808	0.530	1.294	0.865
00000579	7.66	8.90	0.808	0.530	1.294	0.865
00000579	8.90	12.05	0.808	0.530	1.294	0.865
00000579	14.36	14.64	1.614	0.957	1.656	0.979
00000579	14.72	19.22	2.615	1.469	1.118	0.731
00000579	19.33	20.65	2.615	1.469	1.118	0.731
00000579	20.65	27.78	2.615	1.469	1.118	0.731
00000579	27.85	36.71	2.615	1.469	1.118	0.731
00000579	36.71	37.24	2.615	1.469	1.118	0.731
00000581	0.00	3.69	2.615	1.469	1.118	0.731
00000581	3.69	14.14	2.615	1.469	1.118	0.731
00000581	14.14	17.57	2.615	1.469	1.118	0.731
00000583	1.06	5.55	0.808	0.530	1.294	0.865
00000583	5.91	6.52	0.808	0.530	1.294	0.865
00000583	6.52	9.11	0.808	0.530	1.294	0.865
00000585	0.00	0.85	1.456	0.900	2.526	1.368
00000585	0.85	5.86	0.589	0.435	1.344	0.781
00000585	5.86	6.91	0.589	0.435	1.344	0.781
00000585	6.91	8.91	0.589	0.435	1.344	0.781
00000585	8.91	9.57	0.589	0.435	1.344	0.781
00000676	0.00	3.79	0.924	0.581	1.220	0.802
00000676	3.79	4.75	0.924	0.581	1.220	0.802
00000700	0.00	1.88	1.333	0.773	1.307	0.821
00000700	1.88	7.20	1.333	0.773	1.307	0.821
00000700	7.20	7.31	1.333	0.773	1.307	0.821
00000700	7.31	8.11	1.333	0.773	1.307	0.821
00000700	8.11	48.41	1.333	0.773	1.307	0.821
00000700	48.41	49.37	0.922	0.608	1.174	0.767
00000700	49.37	51.99	0.922	0.608	1.174	0.767