

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000001	0.00	5.03	0.877	0.674	0.968	0.653
00000001	5.03	5.51	0.877	0.674	0.968	0.653
00000001	5.51	11.86	0.756	0.502	0.851	0.560
00000001	11.86	27.75	0.732	0.473	0.854	0.552
00000001	27.75	28.11	0.732	0.473	0.854	0.552
00000001	27.75	28.11	0.710	0.501	1.250	0.843
00000001	28.11	45.48	1.179	0.790	1.482	0.918
00000001	45.48	47.03	1.166	0.755	1.634	1.031
00000001	47.03	49.03	1.166	0.755	1.634	1.031
00000001	49.03	54.64	1.166	0.755	1.634	1.031
00000001	54.64	60.73	1.179	0.790	1.482	0.918
00000001	60.73	62.83	1.179	0.790	1.482	0.918
00000001	62.83	62.91	1.179	0.790	1.482	0.918
00000001	62.91	63.91	1.179	0.790	1.482	0.918
00000001	63.91	64.91	1.179	0.790	1.482	0.918
00000001B	0.00	0.25	0.756	0.502	0.851	0.560
00000001B	0.25	0.42	0.756	0.502	0.851	0.560
00000001B	0.42	2.73	0.756	0.502	0.851	0.560
00000001T	0.00	0.40	1.179	0.790	1.482	0.918
00000001T	0.40	2.30	1.179	0.790	1.482	0.918
00000001T	2.30	3.00	1.179	0.790	1.482	0.918
00000001T	3.00	4.35	1.179	0.790	1.482	0.918
00000003	0.00	10.84	1.166	0.755	1.634	1.031
00000004	0.00	2.00	1.179	0.790	1.482	0.918
00000004	2.00	10.59	1.166	0.755	1.634	1.031
00000005	0.00	1.30	1.179	0.790	1.482	0.918
00000005	1.30	1.60	1.179	0.790	1.482	0.918
00000005	1.60	1.80	1.179	0.790	1.482	0.918
00000005	1.80	3.18	1.179	0.790	1.482	0.918
00000007	0.00	1.40	1.179	0.790	1.482	0.918
00000007	1.40	5.29	1.179	0.790	1.482	0.918
00000007	5.99	9.19	2.268	1.324	3.164	1.909
00000007	9.19	9.99	2.268	1.324	3.164	1.909
00000007	9.99	10.10	2.268	1.324	3.164	1.909
00000009	0.23	0.69	1.178	0.721	1.472	0.917
00000009	0.69	1.43	1.178	0.721	1.472	0.917
00000009	1.43	3.06	1.178	0.721	1.472	0.917
00000009	3.06	7.30	0.612	0.421	1.342	0.737
00000009	7.30	16.80	0.612	0.421	1.342	0.737
00000009	16.80	18.00	1.178	0.721	1.472	0.917
00000009	18.00	18.61	1.178	0.721	1.472	0.917
00000009	18.61	30.65	0.612	0.421	1.342	0.737
00000009	32.16	32.20	0.612	0.421	1.342	0.737
00000009	32.20	32.22	0.612	0.421	1.342	0.737
00000009	32.22	42.86	0.777	0.509	2.119	1.169
00000009	42.86	43.32	0.612	0.421	1.342	0.737
00000009	43.32	43.85	0.612	0.421	1.342	0.737
00000009	43.85	46.00	0.612	0.421	1.342	0.737
00000009	46.00	49.49	0.612	0.421	1.342	0.737

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Flexible Pavement (f) P=2.5 SN=127 mm (5.0")

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000009	49.49	52.59	0.612	0.421	1.342	0.737
00000009	54.85	59.16	0.612	0.421	1.342	0.737
00000009	59.16	60.00	0.612	0.421	1.342	0.737
00000009	60.00	62.75	0.612	0.421	1.342	0.737
00000009	62.75	68.55	0.612	0.421	1.342	0.737
00000009	68.55	70.53	0.612	0.421	1.342	0.737
00000009	70.53	77.90	1.615	1.428	2.258	1.500
00000009	77.90	91.05	1.615	1.428	2.258	1.500
00000009	94.50	99.00	0.855	0.577	1.263	0.796
00000009	99.00	101.50	0.855	0.577	1.263	0.796
00000009	101.50	102.00	0.855	0.577	1.263	0.796
00000009	102.00	114.00	1.445	0.868	1.398	0.877
00000009	102.00	114.00	0.778	0.523	1.035	0.671
00000009	114.00	121.51	1.445	0.868	1.398	0.877
00000009	114.00	121.51	0.778	0.523	1.035	0.671
00000009	121.51	127.94	0.778	0.523	1.035	0.671
00000009	127.94	131.80	1.445	0.868	1.398	0.877
00000009	127.94	131.80	0.778	0.523	1.035	0.671
00000009	131.80	132.80	0.778	0.523	1.035	0.671
00000009	131.80	132.80	1.179	0.790	1.482	0.918
00000009	132.80	136.38	1.179	0.790	1.482	0.918
00000009W	0.00	0.67	1.179	0.790	1.482	0.918
00000009W	0.67	1.40	1.179	0.790	1.482	0.918
00000009W	1.40	8.00	1.179	0.790	1.482	0.918
00000009W	8.00	8.50	1.179	0.790	1.482	0.918
00000009W	8.50	11.00	1.179	0.790	1.482	0.918
00000009W	11.00	11.17	1.179	0.790	1.482	0.918
00000010	0.00	18.80	0.710	0.501	1.250	0.843
00000010	18.80	23.51	1.179	0.790	1.482	0.918
00000012	0.00	0.21	2.268	1.324	3.164	1.909
00000012	0.21	0.43	2.268	1.324	3.164	1.909
00000012	0.43	1.00	2.268	1.324	3.164	1.909
00000012	1.00	6.00	2.268	1.324	3.164	1.909
00000012	6.00	9.39	2.268	1.324	3.164	1.909
00000012	9.39	10.82	2.268	1.324	3.164	1.909
00000012	10.82	11.38	2.268	1.324	3.164	1.909
00000012	11.38	11.69	2.268	1.324	3.164	1.909
00000013	0.00	0.13	0.612	0.421	1.342	0.737
00000013	0.13	0.27	0.612	0.421	1.342	0.737
00000013	0.27	0.56	0.612	0.421	1.342	0.737
00000015	0.00	0.07	2.268	1.324	3.164	1.909
00000015	0.07	0.35	2.268	1.324	3.164	1.909
00000015	0.37	1.30	2.268	1.324	3.164	1.909
00000015	1.30	2.05	2.268	1.324	3.164	1.909
00000015	2.05	5.95	0.710	0.501	1.250	0.843
00000015	2.05	5.95	1.063	0.700	1.211	0.778
00000015	5.95	8.92	4.300	2.100	2.065	1.298
00000015	8.92	8.97	1.063	0.700	1.211	0.778
00000015	8.97	14.41	0.633	0.451	1.167	0.750

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Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000015	14.41	19.53	0.633	0.451	1.167	0.750
00000017	0.00	3.00	1.179	0.790	1.482	0.918
00000017	3.00	4.00	1.179	0.790	1.482	0.918
00000017	4.00	5.20	1.179	0.790	1.482	0.918
00000017	5.20	9.13	1.179	0.790	1.482	0.918
00000017	9.13	26.81	0.794	0.540	1.289	0.835
00000018	5.14	29.92	1.331	0.780	1.044	0.689
00000018	5.14	29.92	1.331	0.780	1.044	0.689
00000018	29.92	31.08	1.331	0.780	1.044	0.689
00000018	31.08	34.78	0.778	0.523	1.035	0.671
00000018	34.78	39.45	0.778	0.523	1.035	0.671
00000018	34.78	39.45	0.732	0.473	0.854	0.552
00000018	39.45	39.64	0.732	0.473	0.854	0.552
00000018	39.64	40.90	0.732	0.473	0.854	0.552
00000018	40.90	41.40	0.877	0.674	0.968	0.653
00000018	41.40	42.20	0.877	0.674	0.968	0.653
00000018	42.20	45.30	0.877	0.674	0.968	0.653
00000018	42.20	45.30	0.877	0.674	0.968	0.653
00000018	45.30	47.37	0.710	0.501	1.250	0.843
00000018	47.37	47.92	0.710	0.501	1.250	0.843
00000019	0.00	2.46	0.790	0.488	0.706	0.462
00000019	2.46	3.04	1.179	0.790	1.482	0.918
00000020	0.00	1.00	1.179	0.790	1.482	0.918
00000020	1.00	4.00	1.179	0.790	1.482	0.918
00000020	4.00	4.15	1.179	0.790	1.482	0.918
00000021	0.00	4.08	1.179	0.790	1.482	0.918
00000021	4.08	14.35	1.166	0.755	1.634	1.031
00000022	0.00	0.64	4.300	2.100	2.065	1.298
00000022	0.64	5.08	0.710	0.501	1.250	0.843
00000022	19.26	20.10	0.710	0.501	1.250	0.843
00000022	20.10	41.01	0.710	0.501	1.250	0.843
00000022	20.10	41.01	0.710	0.501	1.250	0.843
00000022	20.10	41.01	0.710	0.501	1.250	0.843
00000022	41.01	53.01	0.710	0.501	1.250	0.843
00000022	53.01	60.54	0.710	0.501	1.250	0.843
00000023	0.00	3.95	1.179	0.790	1.482	0.918
00000023	3.95	4.86	1.179	0.790	1.482	0.918
00000023	4.86	6.82	1.179	0.790	1.482	0.918
00000023	8.94	18.24	1.179	0.790	1.482	0.918
00000023	18.24	22.17	1.179	0.790	1.482	0.918
00000023	22.17	24.62	0.710	0.501	1.250	0.843
00000023	24.62	31.51	0.633	0.451	1.167	0.750
00000023	24.62	31.51	0.710	0.501	1.250	0.843
00000023	31.51	34.50	0.633	0.451	1.167	0.750
00000023	34.50	36.00	0.633	0.451	1.167	0.750
00000023	36.00	36.70	0.633	0.451	1.167	0.750
00000023	36.70	39.50	0.633	0.451	1.167	0.750
00000023	39.50	39.98	0.633	0.451	1.167	0.750
00000023	39.98	40.40	0.633	0.451	1.167	0.750

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Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000023	40.40	40.61	0.633	0.451	1.167	0.750
00000023	40.61	52.63	0.633	0.451	1.167	0.750
00000024	0.00	1.00	0.877	0.674	0.968	0.653
00000024	1.00	4.50	0.877	0.674	0.968	0.653
00000024	4.50	5.00	0.877	0.674	0.968	0.653
00000024	5.00	10.42	0.877	0.674	0.968	0.653
00000026	0.00	2.57	0.382	0.261	0.422	0.289
00000027	0.00	1.74	1.131	0.735	2.673	1.635
00000027	1.74	3.00	1.131	0.735	2.673	1.635
00000027	3.00	13.50	1.131	0.735	2.673	1.635
00000027	13.50	15.17	0.732	0.473	0.854	0.552
00000027	15.17	16.22	0.732	0.473	0.854	0.552
00000027	16.22	16.72	0.732	0.473	0.854	0.552
00000027	16.72	18.04	0.732	0.473	0.854	0.552
00000027	18.04	20.82	0.732	0.473	0.854	0.552
00000027	18.04	20.82	0.710	0.501	1.250	0.843
00000027	20.82	21.59	0.710	0.501	1.250	0.843
00000027	21.59	21.86	0.710	0.501	1.250	0.843
00000027	21.86	23.26	0.710	0.501	1.250	0.843
00000027	23.26	26.30	1.179	0.790	1.482	0.918
00000027	26.30	27.20	1.179	0.790	1.482	0.918
00000027	27.20	32.79	1.179	0.790	1.482	0.918
00000027	32.79	33.62	1.179	0.790	1.482	0.918
00000027	33.62	34.05	1.179	0.790	1.482	0.918
00000027	34.05	34.34	1.179	0.790	1.482	0.918
00000027	34.34	34.78	1.179	0.790	1.482	0.918
00000027	34.78	35.80	1.179	0.790	1.482	0.918
00000027	35.80	38.16	1.179	0.790	1.482	0.918
00000027	38.16	38.53	1.179	0.790	1.482	0.918
00000027Z	33.39	33.89	1.179	0.790	1.482	0.918
00000027Z	33.89	34.06	1.179	0.790	1.482	0.918
00000028	0.00	2.25	0.382	0.261	0.422	0.289
00000028	2.25	2.50	0.710	0.501	1.250	0.843
00000028	2.50	2.95	0.710	0.501	1.250	0.843
00000028	2.95	3.80	0.710	0.501	1.250	0.843
00000028	3.80	4.18	0.710	0.501	1.250	0.843
00000028	4.18	9.75	0.710	0.501	1.250	0.843
00000028	4.18	9.75	0.710	0.501	1.250	0.843
00000028	9.75	11.78	0.710	0.501	1.250	0.843
00000028	11.78	12.49	0.710	0.501	1.250	0.843
00000028	12.49	14.32	0.710	0.501	1.250	0.843
00000028	14.32	14.66	0.710	0.501	1.250	0.843
00000028	14.66	15.70	0.710	0.501	1.250	0.843
00000028	15.70	19.50	0.710	0.501	1.250	0.843
00000028	19.50	23.00	1.179	0.790	1.482	0.918
00000028	23.00	26.44	1.179	0.790	1.482	0.918
00000029	0.00	2.50	0.877	0.674	0.968	0.653
00000029	2.50	4.00	0.877	0.674	0.968	0.653
00000029	4.00	4.17	0.877	0.674	0.968	0.653

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	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000029	4.17	4.44	0.877	0.674	0.968	0.653
00000029	4.44	6.99	0.877	0.674	0.968	0.653
00000029	6.99	9.39	0.877	0.674	0.968	0.653
00000029	9.39	9.40	0.756	0.502	0.851	0.560
00000029	9.40	13.94	0.756	0.502	0.851	0.560
00000029	13.94	18.10	0.367	0.259	0.340	0.250
00000029	13.94	18.10	1.131	0.735	2.673	1.635
00000029	18.10	18.87	0.367	0.259	0.340	0.250
00000029	18.87	18.96	0.367	0.259	0.340	0.250
00000029	18.96	20.06	0.367	0.259	0.340	0.250
00000029	20.06	20.15	2.268	1.324	3.164	1.909
00000029	20.15	26.24	2.268	1.324	3.164	1.909
00000029	26.24	34.00	2.268	1.324	3.164	1.909
00000029	34.00	34.71	2.268	1.324	3.164	1.909
00000030	0.92	3.00	0.593	0.425	1.146	0.754
00000030	3.00	4.40	0.593	0.425	1.146	0.754
00000030	4.40	28.00	0.941	0.542	3.248	1.895
00000030	4.40	28.00	0.777	0.509	2.119	1.169
00000030	28.00	32.83	0.777	0.509	2.119	1.169
00000030	32.83	40.28	0.777	0.509	2.119	1.169
00000030	40.28	54.44	0.777	0.509	2.119	1.169
00000030	54.44	54.54	0.777	0.509	2.119	1.169
00000030	54.54	56.67	0.777	0.509	2.119	1.169
00000030	56.67	58.26	0.777	0.509	2.119	1.169
00000031	0.00	4.60	0.756	0.502	0.851	0.560
00000031	4.60	10.85	1.131	0.735	2.673	1.635
00000031	10.85	16.06	1.131	0.735	2.673	1.635
00000031	10.85	16.06	0.815	0.552	0.901	0.594
00000031	16.06	16.36	0.815	0.552	0.901	0.594
00000031	22.02	27.12	0.815	0.552	0.901	0.594
00000031	27.12	39.43	0.815	0.552	0.901	0.594
00000031	39.43	44.46	1.183	0.732	1.917	1.192
00000031	44.46	48.93	1.183	0.732	1.917	1.192
00000032	0.00	1.18	0.732	0.473	0.854	0.552
00000033	0.00	3.00	1.445	0.868	1.398	0.877
00000033	3.00	4.00	1.445	0.868	1.398	0.877
00000033	4.00	7.84	1.445	0.868	1.398	0.877
00000033	12.42	13.50	1.445	0.868	1.398	0.877
00000033	13.50	14.10	1.445	0.868	1.398	0.877
00000033	14.10	14.33	1.445	0.868	1.398	0.877
00000033	14.33	15.00	1.445	0.868	1.398	0.877
00000033	15.00	16.42	1.445	0.868	1.398	0.877
00000033	16.42	18.95	1.445	0.868	1.398	0.877
00000033	18.95	19.81	1.445	0.868	1.398	0.877
00000033	19.81	24.32	1.445	0.868	1.398	0.877
00000033	24.32	24.40	1.445	0.868	1.398	0.877
00000033	24.40	31.00	1.331	0.780	1.044	0.689
00000033	24.40	31.00	1.331	0.780	1.044	0.689
00000033	31.00	31.49	0.778	0.523	1.035	0.671

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00000033	31.49	37.67	0.778	0.523	1.035	0.671
00000033	37.67	41.38	0.778	0.523	1.035	0.671
00000033	41.38	42.03	0.612	0.421	1.342	0.737
00000033B	0.00	2.41	1.445	0.868	1.398	0.877
00000033B	2.41	6.89	1.445	0.868	1.398	0.877
00000033B	2.41	6.89	0.778	0.523	1.035	0.671
00000034	0.00	7.72	0.855	0.577	1.263	0.796
00000034	8.76	12.27	0.675	0.442	0.670	0.450
00000034	8.76	12.27	0.612	0.421	1.342	0.737
00000034	12.27	22.30	0.855	0.577	1.263	0.796
00000034	12.27	22.30	1.445	0.868	1.398	0.877
00000034	22.30	23.40	0.855	0.577	1.263	0.796
00000034	23.40	26.79	0.855	0.577	1.263	0.796
00000035	0.00	2.62	0.612	0.421	1.342	0.737
00000035	2.62	2.70	0.612	0.421	1.342	0.737
00000035	2.70	4.35	0.855	0.577	1.263	0.796
00000035	4.35	5.72	0.855	0.577	1.263	0.796
00000035	5.72	7.30	0.855	0.577	1.263	0.796
00000035	7.30	11.30	0.855	0.577	1.263	0.796
00000035	11.30	12.48	0.855	0.577	1.263	0.796
00000035	12.48	12.86	0.855	0.577	1.263	0.796
00000035	12.86	13.66	0.855	0.577	1.263	0.796
00000035	13.66	14.29	0.855	0.577	1.263	0.796
00000035	14.29	22.70	0.855	0.577	1.263	0.796
00000035	22.70	23.10	0.855	0.577	1.263	0.796
00000035	23.10	25.40	0.855	0.577	1.263	0.796
00000035	25.40	27.00	0.855	0.577	1.263	0.796
00000035	27.00	29.60	0.778	0.523	1.035	0.671
00000035	29.60	33.00	0.778	0.523	1.035	0.671
00000035	33.00	33.84	0.778	0.523	1.035	0.671
00000035	33.84	45.00	0.778	0.523	1.035	0.671
00000035	45.00	46.70	0.778	0.523	1.035	0.671
00000035	46.70	49.38	1.445	0.868	1.398	0.877
00000035	46.70	49.38	0.778	0.523	1.035	0.671
00000035	50.63	50.76	0.778	0.523	1.035	0.671
00000035	50.76	51.46	0.778	0.523	1.035	0.671
00000035	51.46	52.05	0.778	0.523	1.035	0.671
00000035	51.46	52.05	1.179	0.790	1.482	0.918
00000035	52.05	52.18	1.179	0.790	1.482	0.918
00000035	52.18	54.06	1.179	0.790	1.482	0.918
00000035	54.06	56.06	1.179	0.790	1.482	0.918
00000035	56.06	58.07	1.179	0.790	1.482	0.918
00000035Z	3.49	4.30	0.855	0.577	1.263	0.796
00000035Z	4.30	5.53	0.855	0.577	1.263	0.796
00000035Z	5.53	9.03	0.855	0.577	1.263	0.796
00000035Z	12.85	14.28	0.855	0.577	1.263	0.796
00000036	0.00	2.78	0.778	0.523	1.035	0.671
00000036	2.78	3.87	0.778	0.523	1.035	0.671
00000036	3.87	5.72	0.778	0.523	1.035	0.671

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000036	5.72	6.37	0.778	0.523	1.035	0.671
00000036	6.37	11.80	0.778	0.523	1.035	0.671
00000036	11.80	13.30	0.778	0.523	1.035	0.671
00000036	13.30	18.40	0.778	0.523	1.035	0.671
00000036	18.40	24.40	0.778	0.523	1.035	0.671
00000037	0.00	2.49	1.445	0.868	1.398	0.877
00000037	2.49	11.45	1.445	0.868	1.398	0.877
00000037	2.49	11.45	0.855	0.577	1.263	0.796
00000037	12.36	12.53	0.855	0.577	1.263	0.796
00000037	12.53	12.79	0.855	0.577	1.263	0.796
00000037	12.79	13.43	0.855	0.577	1.263	0.796
00000038	0.00	5.00	0.634	0.429	1.384	0.918
00000038	5.00	19.19	0.634	0.429	1.384	0.918
00000040	1.70	4.30	0.632	0.410	1.047	0.681
00000040	4.30	6.30	0.632	0.410	1.047	0.681
00000040	6.30	10.02	0.632	0.410	1.047	0.681
00000040	10.02	10.67	0.632	0.410	1.047	0.681
00000040	10.67	11.31	0.632	0.410	1.047	0.681
00000040	11.31	19.55	0.694	0.493	1.252	0.796
00000040	19.55	20.24	0.694	0.493	1.252	0.796
00000040	20.24	21.11	0.694	0.493	1.252	0.796
00000040	21.11	28.80	0.694	0.493	1.252	0.796
00000040	21.11	28.80	0.694	0.493	1.252	0.796
00000040	28.80	32.74	0.694	0.493	1.252	0.796
00000040	32.74	35.31	0.694	0.493	1.252	0.796
00000040	35.31	44.38	0.694	0.493	1.252	0.796
00000040	44.38	47.01	0.694	0.493	1.252	0.796
00000040	47.01	47.34	0.694	0.493	1.252	0.796
00000040	47.34	53.16	0.694	0.493	1.252	0.796
00000040	53.16	63.49	0.694	0.493	1.252	0.796
00000040	63.49	64.32	0.694	0.493	1.252	0.796
00000041	0.00	3.86	0.455	0.358	0.882	0.590
00000041	3.86	4.00	0.593	0.425	1.146	0.754
00000041	4.00	4.95	0.593	0.425	1.146	0.754
00000041	4.95	7.23	0.455	0.358	0.882	0.590
00000041	7.23	7.90	0.382	0.261	0.422	0.289
00000041	7.90	8.60	0.382	0.261	0.422	0.289
00000041	8.60	10.57	0.382	0.261	0.422	0.289
00000041	10.57	10.68	0.382	0.261	0.422	0.289
00000041	10.68	10.83	0.593	0.425	1.146	0.754
00000041	10.83	14.08	0.382	0.261	0.422	0.289
00000042	0.00	6.35	0.694	0.477	2.969	1.750
00000042	6.35	14.28	1.045	0.631	1.198	0.772
00000044	0.00	0.86	0.455	0.358	0.882	0.590
00000044	0.86	2.14	0.455	0.358	0.882	0.590
00000044	2.14	6.30	0.455	0.358	0.882	0.590
00000044	6.30	10.28	0.455	0.358	0.882	0.590
00000045	0.00	0.50	0.455	0.358	0.882	0.590
00000045	0.50	2.50	0.455	0.358	0.882	0.590

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000045	2.50	8.80	0.455	0.358	0.882	0.590
00000045	9.44	10.44	0.455	0.358	0.882	0.590
00000045	10.44	12.49	0.455	0.358	0.882	0.590
00000045	12.49	15.46	0.455	0.358	0.882	0.590
00000045	15.46	15.48	0.455	0.358	0.882	0.590
00000045	15.48	17.40	0.455	0.358	0.882	0.590
00000045	17.40	17.64	0.455	0.358	0.882	0.590
00000045	18.16	19.50	0.694	0.493	1.252	0.796
00000045	19.50	22.60	0.694	0.493	1.252	0.796
00000045	22.60	25.49	0.694	0.493	1.252	0.796
00000045	25.49	27.00	0.593	0.425	1.146	0.754
00000045	27.00	28.51	0.593	0.425	1.146	0.754
00000046	0.00	10.03	1.183	0.732	1.917	1.192
00000046	10.03	15.79	2.268	1.324	3.164	1.909
00000046	15.79	17.62	2.268	1.324	3.164	1.909
00000046	17.62	20.63	2.268	1.324	3.164	1.909
00000046	20.63	21.70	2.268	1.324	3.164	1.909
00000046	21.70	21.83	1.063	0.700	1.211	0.778
00000046	21.83	37.19	0.710	0.501	1.250	0.843
00000046	21.83	37.19	1.063	0.700	1.211	0.778
00000046	37.19	37.91	0.710	0.501	1.250	0.843
00000046	37.91	38.17	0.710	0.501	1.250	0.843
00000046	38.17	38.85	0.710	0.501	1.250	0.843
00000046	38.85	61.51	1.179	0.790	1.482	0.918
00000046	61.51	62.36	1.179	0.790	1.482	0.918
00000046	62.36	69.52	1.179	0.790	1.482	0.918
00000046	69.52	70.25	1.179	0.790	1.482	0.918
00000046	70.25	72.09	1.179	0.790	1.482	0.918
00000047	0.00	1.80	1.178	0.721	1.472	0.917
00000047	1.80	2.88	1.178	0.721	1.472	0.917
00000047	2.88	3.15	1.178	0.721	1.472	0.917
00000047	3.15	3.40	2.832	1.492	2.160	1.298
00000047	3.40	3.80	2.832	1.492	2.160	1.298
00000047	3.80	7.11	2.832	1.492	2.160	1.298
00000047	7.11	10.01	2.832	1.492	2.160	1.298
00000047	10.01	10.75	2.832	1.492	2.160	1.298
00000047	10.75	16.81	2.832	1.492	2.160	1.298
00000047	16.81	17.54	2.832	1.492	2.160	1.298
00000047	17.54	18.45	1.178	0.721	1.472	0.917
00000047	18.45	20.91	1.178	0.721	1.472	0.917
00000047	20.91	31.95	2.832	1.492	2.160	1.298
00000047	31.95	35.08	1.178	0.721	1.472	0.917
00000047	35.08	36.10	2.832	1.492	2.160	1.298
00000047	36.10	36.24	2.832	1.492	2.160	1.298
00000047	36.24	40.20	2.832	1.492	2.160	1.298
00000047	40.20	42.47	2.832	1.492	2.160	1.298
00000047	42.47	46.55	2.832	1.492	2.160	1.298
00000047	46.55	47.68	2.832	1.492	2.160	1.298
00000047	47.68	51.95	0.802	0.528	1.750	0.976

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000047	51.95	52.52	0.802	0.528	1.750	0.976
00000047	53.03	62.46	0.455	0.358	0.882	0.590
00000047	53.03	62.46	0.802	0.528	1.750	0.976
00000047	62.87	64.12	0.694	0.493	1.252	0.796
00000047	64.12	75.20	0.455	0.358	0.882	0.590
00000047Z	0.00	0.22	2.832	1.492	2.160	1.298
00000048	0.00	1.50	0.455	0.358	0.882	0.590
00000048	1.50	2.13	0.455	0.358	0.882	0.590
00000048	2.13	2.41	0.455	0.358	0.882	0.590
00000048	2.41	4.26	0.455	0.358	0.882	0.590
00000049	0.00	2.50	0.632	0.410	1.047	0.681
00000049	2.50	6.25	0.632	0.410	1.047	0.681
00000049	6.25	8.00	0.632	0.410	1.047	0.681
00000049	8.00	8.20	0.632	0.410	1.047	0.681
00000049	8.20	8.28	0.632	0.410	1.047	0.681
00000049	8.30	8.47	0.632	0.410	1.047	0.681
00000049	8.47	10.10	0.632	0.410	1.047	0.681
00000049	10.10	18.77	0.632	0.410	1.047	0.681
00000049	18.77	20.90	0.632	0.410	1.047	0.681
00000049	20.90	24.70	0.694	0.493	1.252	0.796
00000049	24.70	26.40	0.694	0.493	1.252	0.796
00000049	26.40	28.69	1.178	0.721	1.472	0.917
00000049	26.40	28.69	0.694	0.493	1.252	0.796
00000049	28.69	30.79	1.178	0.721	1.472	0.917
00000049	30.79	30.80	1.178	0.721	1.472	0.917
00000049	30.80	35.09	1.178	0.721	1.472	0.917
00000049	35.09	36.42	1.178	0.721	1.472	0.917
00000049	36.42	37.84	1.178	0.721	1.472	0.917
00000049	37.84	40.82	2.832	1.492	2.160	1.298
00000049	40.82	53.80	2.832	1.492	2.160	1.298
00000050	0.00	1.47	2.832	1.492	2.160	1.298
00000050	1.47	9.34	2.832	1.492	2.160	1.298
00000050	9.34	16.62	2.832	1.492	2.160	1.298
00000050	16.62	17.29	0.802	0.528	1.750	0.976
00000050	17.29	18.24	0.802	0.528	1.750	0.976
00000050	18.24	18.50	0.802	0.528	1.750	0.976
00000050	19.12	21.19	0.802	0.528	1.750	0.976
00000050	21.19	24.94	0.802	0.528	1.750	0.976
00000050	24.94	24.96	0.802	0.528	1.750	0.976
00000050	24.96	26.02	0.802	0.528	1.750	0.976
00000052	0.00	0.24	0.777	0.509	2.119	1.169
00000052	0.24	1.81	0.777	0.509	2.119	1.169
00000052	1.81	2.12	0.777	0.509	2.119	1.169
00000052	2.12	2.74	0.777	0.509	2.119	1.169
00000053	0.00	3.40	0.710	0.501	1.250	0.843
00000053	3.40	4.63	0.710	0.501	1.250	0.843
00000053	4.63	4.66	0.710	0.501	1.250	0.843
00000054	0.00	0.53	0.802	0.528	1.750	0.976
00000054	0.53	4.56	0.802	0.528	1.750	0.976

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000054	4.56	6.67	0.802	0.528	1.750	0.976
00000054	6.67	8.57	0.694	0.493	1.252	0.796
00000054	8.57	8.71	0.694	0.493	1.252	0.796
00000054	8.71	10.60	0.802	0.528	1.750	0.976
00000054	10.60	11.86	0.802	0.528	1.750	0.976
00000055	20.00	21.75	2.034	1.088	1.548	0.961
00000055	21.75	38.44	2.034	1.088	1.548	0.961
00000055	21.75	38.44	2.034	1.088	1.548	0.961
00000055	38.44	60.54	1.045	0.631	1.198	0.772
00000055	38.44	60.54	1.045	0.631	1.198	0.772
00000056	0.00	1.26	0.455	0.358	0.882	0.590
00000056	1.26	6.71	0.455	0.358	0.882	0.590
00000056	6.71	9.19	2.832	1.492	2.160	1.298
00000056	6.71	9.19	0.455	0.358	0.882	0.590
00000057	0.00	3.60	1.063	0.700	1.211	0.778
00000057	3.60	6.52	1.063	0.700	1.211	0.778
00000057	6.52	9.79	1.063	0.700	1.211	0.778
00000057	9.79	11.60	1.063	0.700	1.211	0.778
00000057	11.60	12.67	1.063	0.700	1.211	0.778
00000057	12.67	14.12	1.063	0.700	1.211	0.778
00000057	14.12	15.81	1.063	0.700	1.211	0.778
00000057	15.81	20.53	1.063	0.700	1.211	0.778
00000057	20.53	21.10	1.063	0.700	1.211	0.778
00000059	0.00	0.15	1.179	0.790	1.482	0.918
00000062	0.00	0.47	1.179	0.790	1.482	0.918
00000063	0.00	0.90	1.179	0.790	1.482	0.918
00000063	0.90	3.09	1.179	0.790	1.482	0.918
00000064	0.00	0.32	0.732	0.473	0.854	0.552
00000066	0.00	3.62	0.855	0.577	1.263	0.796
00000067	0.00	0.80	2.268	1.324	3.164	1.909
00000067	0.80	1.29	2.268	1.324	3.164	1.909
00000067	1.29	1.86	1.179	0.790	1.482	0.918
00000068	0.15	1.00	0.675	0.442	0.670	0.450
00000068	1.00	4.30	0.675	0.442	0.670	0.450
00000068	4.30	7.80	0.382	0.261	0.422	0.289
00000070	0.00	18.53	0.593	0.425	1.146	0.754
00000070	18.61	19.84	0.593	0.425	1.146	0.754
00000070	19.84	23.04	0.593	0.425	1.146	0.754
00000070	23.04	27.39	0.593	0.425	1.146	0.754
00000070	23.04	27.39	1.403	0.795	1.322	0.854
00000070	27.39	31.97	0.593	0.425	1.146	0.754
00000070	27.39	31.97	1.403	0.795	1.322	0.854
00000070	31.97	37.50	0.593	0.425	1.146	0.754
00000070	37.50	40.30	0.593	0.425	1.146	0.754
00000070	40.30	43.19	0.593	0.425	1.146	0.754
00000070	43.19	58.26	0.593	0.425	1.146	0.754
00000070	43.19	58.26	0.855	0.577	1.263	0.796
00000070	58.26	58.44	0.855	0.577	1.263	0.796
00000070	58.44	59.84	0.855	0.577	1.263	0.796

New Jersey Department of Transportation
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Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000071	0.00	1.72	0.855	0.577	1.263	0.796
00000071	1.72	4.89	0.855	0.577	1.263	0.796
00000071	4.89	5.10	0.855	0.577	1.263	0.796
00000071	5.42	5.57	0.612	0.421	1.342	0.737
00000071	5.57	9.00	0.612	0.421	1.342	0.737
00000071	9.00	9.37	0.612	0.421	1.342	0.737
00000071	9.37	9.47	0.612	0.421	1.342	0.737
00000071	9.47	12.96	0.612	0.421	1.342	0.737
00000071	12.96	13.78	0.612	0.421	1.342	0.737
00000071	13.78	15.58	0.612	0.421	1.342	0.737
00000071	15.58	16.78	0.612	0.421	1.342	0.737
00000072	0.00	16.20	1.403	0.795	1.322	0.854
00000072	16.20	16.32	1.615	1.428	2.258	1.500
00000072	16.32	22.80	1.615	1.428	2.258	1.500
00000072	22.80	23.00	1.615	1.428	2.258	1.500
00000072	23.00	26.75	1.615	1.428	2.258	1.500
00000072	27.08	28.48	1.615	1.428	2.258	1.500
00000072	28.48	28.76	1.615	1.428	2.258	1.500
00000073	0.00	2.40	0.802	0.528	1.750	0.976
00000073	2.40	4.00	0.802	0.528	1.750	0.976
00000073	4.00	5.98	0.802	0.528	1.750	0.976
00000073	4.00	5.98	0.675	0.442	0.670	0.450
00000073	5.98	6.06	0.675	0.442	0.670	0.450
00000073	6.06	8.90	0.941	0.542	3.248	1.895
00000073	8.90	11.50	0.941	0.542	3.248	1.895
00000073	11.50	13.20	0.941	0.542	3.248	1.895
00000073	13.20	34.69	0.941	0.542	3.248	1.895
00000076	0.00	3.09	1.072	0.671	1.400	0.858
00000076C	0.00	1.22	0.593	0.425	1.146	0.754
00000077	0.00	2.10	0.455	0.358	0.882	0.590
00000077	2.10	6.14	0.455	0.358	0.882	0.590
00000077	6.14	10.00	0.455	0.358	0.882	0.590
00000077	10.00	14.10	0.455	0.358	0.882	0.590
00000077	14.10	14.60	0.455	0.358	0.882	0.590
00000077	14.60	17.58	0.455	0.358	0.882	0.590
00000077	17.58	17.84	0.455	0.358	0.882	0.590
00000077	17.84	18.64	0.455	0.358	0.882	0.590
00000077	18.64	22.16	0.455	0.358	0.882	0.590
00000077	22.16	22.55	0.455	0.358	0.882	0.590
00000078	0.00	7.00	0.458	0.354	1.237	0.818
00000078	7.00	14.52	0.458	0.354	1.237	0.818
00000078	14.52	19.06	0.458	0.354	1.237	0.818
00000078	19.06	25.30	0.458	0.354	1.237	0.818
00000078	25.30	30.15	0.458	0.354	1.237	0.818
00000078	30.15	30.31	0.458	0.354	1.237	0.818
00000078	30.31	31.33	0.458	0.354	1.237	0.818
00000078	31.33	42.71	0.492	0.366	1.168	0.775
00000078	31.33	42.71	0.663	0.429	0.971	0.634
00000078	31.33	42.71	0.458	0.354	1.237	0.818

New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000078	42.71	52.21	1.004	0.636	1.073	0.709
00000078	52.21	58.51	1.004	0.636	1.073	0.709
00000078	58.51	59.01	1.004	0.636	1.073	0.709
00000078	59.01	62.01	1.004	0.636	1.073	0.709
00000078	62.01	67.04	1.004	0.636	1.073	0.709
00000078	67.04	67.84	0.591	0.398	0.968	0.654
00000079	0.00	1.43	1.445	0.868	1.398	0.877
00000079	1.43	1.59	1.445	0.868	1.398	0.877
00000079	1.59	3.40	1.445	0.868	1.398	0.877
00000079	3.40	5.47	0.778	0.523	1.035	0.671
00000079	3.40	5.47	1.445	0.868	1.398	0.877
00000079	5.47	6.17	0.778	0.523	1.035	0.671
00000079	6.17	10.90	0.778	0.523	1.035	0.671
00000079	10.90	12.13	0.778	0.523	1.035	0.671
00000080	0.00	18.27	1.004	0.636	1.073	0.709
00000080	18.27	20.22	1.004	0.636	1.073	0.709
00000080	20.22	24.59	1.004	0.636	1.073	0.709
00000080	24.59	68.56	1.004	0.636	1.073	0.709
00000080	24.59	68.56	1.004	0.636	1.073	0.709
00000081	0.00	1.18	1.166	0.755	1.634	1.031
00000082	0.00	3.83	1.179	0.790	1.482	0.918
00000082	3.83	4.92	1.179	0.790	1.482	0.918
00000083	0.00	3.81	1.178	0.721	1.472	0.917
00000087	0.00	0.60	0.777	0.509	2.119	1.169
00000087	0.60	1.70	0.777	0.509	2.119	1.169
00000088	0.00	0.60	0.855	0.577	1.263	0.796
00000088	0.60	5.20	0.855	0.577	1.263	0.796
00000088	5.20	5.45	0.855	0.577	1.263	0.796
00000088	5.45	5.62	0.855	0.577	1.263	0.796
00000088	5.62	7.70	0.855	0.577	1.263	0.796
00000088	7.70	10.02	0.855	0.577	1.263	0.796
00000088Z	0.00	0.19	0.855	0.577	1.263	0.796
00000090	0.00	3.15	1.045	0.631	1.198	0.772
00000091	0.00	2.26	0.382	0.261	0.422	0.289
00000093	0.00	3.50	1.179	0.790	1.482	0.918
00000094	0.00	19.63	2.268	1.324	3.164	1.909
00000094	19.63	22.00	2.268	1.324	3.164	1.909
00000094	22.00	22.47	2.268	1.324	3.164	1.909
00000094	24.91	26.92	2.268	1.324	3.164	1.909
00000094	26.92	27.70	2.268	1.324	3.164	1.909
00000094	28.00	33.10	2.268	1.324	3.164	1.909
00000094	33.10	35.31	2.268	1.324	3.164	1.909
00000094	35.31	36.14	2.268	1.324	3.164	1.909
00000094	36.14	41.76	2.268	1.324	3.164	1.909
00000094	41.76	43.27	2.268	1.324	3.164	1.909
00000094	43.27	45.93	2.268	1.324	3.164	1.909
00000095	0.00	7.35	1.548	0.878	1.355	0.864
00000095	7.35	27.55	1.548	0.878	1.355	0.864
00000095	27.55	77.41	1.004	0.636	1.073	0.709

New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000095	27.55	77.41	0.765	0.486	0.936	0.610
00000095	77.41	77.98	0.591	0.398	0.968	0.654
00000095W	0.00	11.26	0.591	0.398	0.968	0.654
00000109	0.00	1.11	2.832	1.492	2.160	1.298
00000109	1.11	1.16	2.832	1.492	2.160	1.298
00000109	1.16	1.32	2.832	1.492	2.160	1.298
00000109	1.32	2.31	2.832	1.492	2.160	1.298
00000109	2.31	3.07	1.178	0.721	1.472	0.917
00000120	0.00	1.34	1.166	0.755	1.634	1.031
00000120	1.34	2.65	1.179	0.790	1.482	0.918
00000122	0.00	1.15	1.183	0.732	1.917	1.192
00000122	1.15	2.42	1.183	0.732	1.917	1.192
00000124	0.00	0.78	0.710	0.501	1.250	0.843
00000124	0.78	1.50	0.710	0.501	1.250	0.843
00000124	1.50	4.37	2.268	1.324	3.164	1.909
00000124	4.37	4.47	2.268	1.324	3.164	1.909
00000124	4.47	7.34	0.710	0.501	1.250	0.843
00000124	7.34	8.96	1.179	0.790	1.482	0.918
00000124	8.96	9.83	1.179	0.790	1.482	0.918
00000124	9.83	11.30	1.179	0.790	1.482	0.918
00000124	11.30	11.36	1.179	0.790	1.482	0.918
00000124	11.36	11.54	1.179	0.790	1.482	0.918
00000124	11.54	14.74	1.179	0.790	1.482	0.918
00000129	0.00	2.41	0.756	0.502	0.851	0.560
00000130	0.00	3.00	0.455	0.358	0.882	0.590
00000130	3.00	5.20	0.455	0.358	0.882	0.590
00000130	5.20	5.93	0.455	0.358	0.882	0.590
00000130	5.93	6.98	0.455	0.358	0.882	0.590
00000130	6.98	7.60	0.455	0.358	0.882	0.590
00000130	7.60	8.80	0.455	0.358	0.882	0.590
00000130	8.82	12.21	0.455	0.358	0.882	0.590
00000130	12.21	14.29	0.756	0.502	0.851	0.560
00000130	23.61	23.90	0.756	0.502	0.851	0.560
00000130	23.90	25.30	0.756	0.502	0.851	0.560
00000130	25.30	28.20	0.756	0.502	0.851	0.560
00000130	28.20	29.48	0.756	0.502	0.851	0.560
00000130	30.48	53.46	0.756	0.502	0.851	0.560
00000130	53.46	68.20	0.756	0.502	0.851	0.560
00000130	68.20	68.26	0.732	0.473	0.854	0.552
00000130	68.26	70.00	0.732	0.473	0.854	0.552
00000130	70.00	72.86	0.732	0.473	0.854	0.552
00000130	72.86	72.90	0.732	0.473	0.854	0.552
00000130	72.90	83.46	0.732	0.473	0.854	0.552
00000133	0.00	4.06	0.877	0.674	0.968	0.653
00000138	0.00	3.52	0.534	0.385	0.610	0.390
00000139	0.00	1.45	1.179	0.790	1.482	0.918
00000140	0.00	0.88	0.455	0.358	0.882	0.590
00000140	0.88	0.96	0.455	0.358	0.882	0.590
00000143	0.00	2.35	0.675	0.442	0.670	0.450

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)
00000147	0.00	0.33	2.832	1.492	2.160	1.298
00000147	0.33	1.16	1.178	0.721	1.472	0.917
00000147	1.16	3.10	1.178	0.721	1.472	0.917
00000147	3.10	3.30	1.178	0.721	1.472	0.917
00000147	3.30	4.20	1.178	0.721	1.472	0.917
00000152	0.00	0.26	0.777	0.509	2.119	1.169
00000152	0.26	1.35	0.777	0.509	2.119	1.169
00000152	1.35	1.90	0.777	0.509	2.119	1.169
00000152	1.90	2.05	0.777	0.509	2.119	1.169
00000152	2.05	3.16	0.777	0.509	2.119	1.169
00000154	0.00	1.58	0.593	0.425	1.146	0.754
00000156	0.00	1.28	0.382	0.261	0.422	0.289
00000157	0.00	0.91	0.612	0.421	1.342	0.737
00000159	0.00	0.45	1.179	0.790	1.482	0.918
00000159	0.45	0.80	2.268	1.324	3.164	1.909
00000159	0.80	1.36	2.268	1.324	3.164	1.909
00000161	0.00	1.10	2.268	1.324	3.164	1.909
00000162	0.00	0.70	2.832	1.492	2.160	1.298
00000163	0.00	0.30	2.268	1.324	3.164	1.909
00000165	0.00	0.26	2.268	1.324	3.164	1.909
00000166	0.00	0.47	0.612	0.421	1.342	0.737
00000166	0.47	1.97	0.612	0.421	1.342	0.737
00000166	1.97	2.22	0.855	0.577	1.263	0.796
00000166	2.22	3.75	0.855	0.577	1.263	0.796
00000166Z	0.00	0.11	0.612	0.421	1.342	0.737
00000166Z	0.11	0.19	0.612	0.421	1.342	0.737
00000166Z	0.19	0.44	0.612	0.421	1.342	0.737
00000167	0.00	0.62	0.612	0.421	1.342	0.737
00000167	2.61	2.76	0.612	0.421	1.342	0.737
00000168	0.00	9.72	0.593	0.425	1.146	0.754
00000168	9.72	10.75	0.593	0.425	1.146	0.754
00000171	0.00	0.98	0.382	0.261	0.422	0.289
00000172	0.00	0.45	0.382	0.261	0.422	0.289
00000172	0.45	0.69	0.382	0.261	0.422	0.289
00000173	0.00	0.53	2.268	1.324	3.164	1.909
00000173	0.53	4.00	2.268	1.324	3.164	1.909
00000173	4.00	8.00	2.268	1.324	3.164	1.909
00000173	8.00	11.12	2.268	1.324	3.164	1.909
00000173	11.12	11.70	2.268	1.324	3.164	1.909
00000173	12.81	14.62	2.268	1.324	3.164	1.909
00000173Z	0.00	0.68	2.268	1.324	3.164	1.909
00000173Z	1.12	1.67	2.268	1.324	3.164	1.909
00000175	0.00	0.27	0.382	0.261	0.422	0.289
00000175	0.27	1.79	0.382	0.261	0.422	0.289
00000175	1.79	1.80	0.382	0.261	0.422	0.289
00000175	1.80	2.15	0.382	0.261	0.422	0.289
00000175	2.15	2.95	0.382	0.261	0.422	0.289
00000179	0.00	0.32	2.268	1.324	3.164	1.909
00000179	0.37	2.16	2.268	1.324	3.164	1.909

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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)
00000179	2.16	5.38	2.268	1.324	3.164	1.909
00000179	5.38	6.48	2.268	1.324	3.164	1.909
00000179	6.48	7.46	2.268	1.324	3.164	1.909
00000181	0.00	1.65	2.268	1.324	3.164	1.909
00000181	1.65	1.67	2.268	1.324	3.164	1.909
00000181	1.67	5.02	2.268	1.324	3.164	1.909
00000181	5.02	5.43	2.268	1.324	3.164	1.909
00000181	5.43	5.82	2.268	1.324	3.164	1.909
00000181	5.82	7.47	2.268	1.324	3.164	1.909
00000181Z	0.00	0.12	2.268	1.324	3.164	1.909
00000182	0.00	0.96	1.063	0.700	1.211	0.778
00000183	0.00	0.60	0.710	0.501	1.250	0.843
00000183	0.00	0.60	1.063	0.700	1.211	0.778
00000183	0.60	2.12	1.063	0.700	1.211	0.778
00000184	0.00	0.35	1.179	0.790	1.482	0.918
00000184	0.35	0.75	1.179	0.790	1.482	0.918
00000184	0.75	1.25	1.179	0.790	1.482	0.918
00000184	1.25	1.37	1.179	0.790	1.482	0.918
00000185	0.00	0.65	1.179	0.790	1.482	0.918
00000187	0.00	0.40	0.777	0.509	2.119	1.169
00000195	0.00	8.77	1.548	0.878	1.355	0.864
00000195	8.77	16.49	0.765	0.486	0.936	0.610
00000195	16.49	34.17	0.765	0.486	0.936	0.610
00000195	16.49	34.17	0.765	0.486	0.936	0.610
00000202	0.00	0.63	4.300	2.100	2.065	1.298
00000202	0.63	4.10	0.367	0.259	0.340	0.250
00000202	4.10	13.80	0.367	0.259	0.340	0.250
00000202	13.80	24.39	0.388	0.299	0.997	0.668
00000202	13.80	24.39	0.388	0.299	0.997	0.668
00000202	24.39	24.48	0.388	0.299	0.997	0.668
00000202	24.48	31.51	0.388	0.299	0.997	0.668
00000202	24.48	31.51	0.388	0.299	0.997	0.668
00000202	31.51	32.20	2.268	1.324	3.164	1.909
00000202	32.20	32.53	2.268	1.324	3.164	1.909
00000202	32.20	32.53	2.268	1.324	3.164	1.909
00000202	32.53	32.54	2.268	1.324	3.164	1.909
00000202	32.54	33.90	2.268	1.324	3.164	1.909
00000202	33.90	35.46	2.268	1.324	3.164	1.909
00000202	35.46	37.10	2.268	1.324	3.164	1.909
00000202	37.10	39.10	2.268	1.324	3.164	1.909
00000202	39.10	44.30	2.268	1.324	3.164	1.909
00000202	44.30	44.53	2.268	1.324	3.164	1.909
00000202	44.53	44.60	0.710	0.501	1.250	0.843
00000202	44.60	47.00	0.710	0.501	1.250	0.843
00000202	47.00	51.20	0.710	0.501	1.250	0.843
00000202	51.20	51.53	0.710	0.501	1.250	0.843
00000202	51.53	53.16	2.268	1.324	3.164	1.909
00000202	53.16	53.60	2.268	1.324	3.164	1.909
00000202	53.60	54.20	2.268	1.324	3.164	1.909

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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)
00000202	54.20	55.20	2.268	1.324	3.164	1.909
00000202	55.20	56.09	2.268	1.324	3.164	1.909
00000202	56.09	60.40	2.268	1.324	3.164	1.909
00000202	60.40	62.50	2.268	1.324	3.164	1.909
00000202	62.50	62.65	2.268	1.324	3.164	1.909
00000202	62.65	62.95	1.179	0.790	1.482	0.918
00000202	62.95	65.32	1.179	0.790	1.482	0.918
00000202	65.32	67.95	1.179	0.790	1.482	0.918
00000202	67.95	68.80	1.179	0.790	1.482	0.918
00000202	68.80	70.50	1.179	0.790	1.482	0.918
00000202	70.50	80.30	1.179	0.790	1.482	0.918
00000206	0.00	1.27	0.777	0.509	2.119	1.169
00000206	1.27	9.45	1.403	0.795	1.322	0.854
00000206	1.27	9.45	1.046	0.632	1.066	0.656
00000206	9.45	33.42	1.046	0.632	1.066	0.656
00000206	33.42	35.61	1.046	0.632	1.066	0.656
00000206	36.27	38.89	1.046	0.632	1.066	0.656
00000206	38.89	43.22	1.131	0.735	2.673	1.635
00000206	43.22	45.00	1.131	0.735	2.673	1.635
00000206	45.00	48.30	1.131	0.735	2.673	1.635
00000206	48.30	50.21	1.131	0.735	2.673	1.635
00000206	50.21	50.40	1.131	0.735	2.673	1.635
00000206	50.40	52.90	1.131	0.735	2.673	1.635
00000206	52.90	53.95	1.131	0.735	2.673	1.635
00000206	53.95	54.82	1.131	0.735	2.673	1.635
00000206	54.82	57.23	1.131	0.735	2.673	1.635
00000206	57.23	63.06	1.131	0.735	2.673	1.635
00000206	63.06	71.64	1.131	0.735	2.673	1.635
00000206	78.32	82.34	0.710	0.501	1.250	0.843
00000206	78.32	82.34	0.633	0.451	1.167	0.750
00000206	82.34	85.72	0.633	0.451	1.167	0.750
00000206	82.34	85.72	0.710	0.501	1.250	0.843
00000206	85.72	87.98	0.710	0.501	1.250	0.843
00000206	87.98	88.82	0.710	0.501	1.250	0.843
00000206	88.82	95.61	0.710	0.501	1.250	0.843
00000206	88.82	95.61	0.633	0.451	1.167	0.750
00000206	97.12	99.23	0.633	0.451	1.167	0.750
00000206	99.23	102.09	0.633	0.451	1.167	0.750
00000206	102.09	103.47	0.633	0.451	1.167	0.750
00000206	103.47	109.25	0.633	0.451	1.167	0.750
00000206	109.25	110.67	0.633	0.451	1.167	0.750
00000206	110.67	112.07	0.633	0.451	1.167	0.750
00000206	112.07	114.14	0.633	0.451	1.167	0.750
00000206	114.14	129.77	0.633	0.451	1.167	0.750
00000206B	0.00	2.73	0.382	0.261	0.422	0.289
00000206Z	42.57	43.34	0.756	0.502	0.851	0.560
00000206Z	43.34	45.36	0.756	0.502	0.851	0.560
00000208	0.00	10.07	0.790	0.488	0.706	0.462
00000278	0.00	1.99	1.004	0.636	1.073	0.709

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000280	0.00	17.85	1.004	0.636	1.073	0.709
00000284	0.00	0.55	2.268	1.324	3.164	1.909
00000284	0.55	7.03	2.268	1.324	3.164	1.909
00000287	0.00	5.68	0.492	0.366	1.168	0.775
00000287	5.68	6.08	0.492	0.366	1.168	0.775
00000287	6.08	10.24	0.492	0.366	1.168	0.775
00000287	6.08	10.24	0.663	0.429	0.971	0.634
00000287	10.24	20.50	0.663	0.429	0.971	0.634
00000287	20.50	21.45	0.663	0.429	0.971	0.634
00000287	20.50	21.45	1.004	0.636	1.073	0.709
00000287	21.45	30.17	0.492	0.366	1.168	0.775
00000287	21.45	30.17	1.004	0.636	1.073	0.709
00000287	30.17	53.89	0.492	0.366	1.168	0.775
00000287	53.89	57.15	0.591	0.398	0.968	0.654
00000287	57.15	67.54	0.591	0.398	0.968	0.654
00000295	0.00	4.84	0.308	0.246	0.997	0.670
00000295	4.84	6.82	0.836	0.565	1.162	0.752
00000295	6.82	55.31	0.746	0.493	0.976	0.648
00000295	55.31	76.57	0.663	0.429	0.971	0.634
00000322	0.00	2.22	0.694	0.477	2.969	1.750
00000322	2.22	4.82	0.694	0.477	2.969	1.750
00000322	4.82	8.53	0.694	0.477	2.969	1.750
00000322	8.53	10.89	0.694	0.477	2.969	1.750
00000322	10.89	12.19	0.694	0.477	2.969	1.750
00000322	12.19	16.00	0.694	0.477	2.969	1.750
00000322	16.00	17.07	0.694	0.477	2.969	1.750
00000322	17.07	17.74	0.694	0.477	2.969	1.750
00000322	17.74	18.15	0.694	0.477	2.969	1.750
00000322	18.15	19.26	0.694	0.477	2.969	1.750
00000322	19.26	22.96	0.694	0.477	2.969	1.750
00000322	22.96	24.26	0.694	0.477	2.969	1.750
00000322	24.26	31.61	0.694	0.477	2.969	1.750
00000322	31.61	34.62	0.694	0.477	2.969	1.750
00000322	31.61	34.62	0.694	0.493	1.252	0.796
00000322	34.62	45.84	0.802	0.528	1.750	0.976
00000322	45.84	50.16	0.802	0.528	1.750	0.976
00000322B	0.00	0.54	0.455	0.358	0.882	0.590
00000322B	0.54	1.53	0.455	0.358	0.882	0.590
00000324	0.00	1.51	0.455	0.358	0.882	0.590
00000347	0.00	8.33	1.178	0.721	1.472	0.917
00000413	0.00	0.76	0.634	0.429	1.384	0.918
00000439	0.00	0.68	1.179	0.790	1.482	0.918
00000439	0.68	2.44	1.179	0.790	1.482	0.918
00000439	2.44	3.95	1.179	0.790	1.482	0.918
00000440	0.00	2.77	0.877	0.674	0.968	0.653
00000440	2.77	5.15	0.877	0.674	0.968	0.653
00000440	18.00	21.91	1.179	0.790	1.482	0.918
00000440	21.91	26.19	1.179	0.790	1.482	0.918
00000444	0.00	45.91	2.034	1.088	1.548	0.961

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000444	45.91	55.60	2.034	1.088	1.548	0.961
00000444	55.60	61.69	0.534	0.385	0.610	0.390
00000444	61.69	126.93	0.534	0.385	0.610	0.390
00000444	126.93	127.80	1.331	0.780	1.044	0.689
00000444	126.93	127.80	0.877	0.674	0.968	0.653
00000444	127.80	131.75	0.877	0.674	0.968	0.653
00000444	131.75	132.75	0.877	0.674	0.968	0.653
00000444	132.75	172.35	1.166	0.755	1.634	1.031
00000444S	0.00	0.50	1.331	0.780	1.044	0.689
00000445	0.00	11.06	0.794	0.540	1.289	0.835
00000445S	0.00	0.42	1.166	0.755	1.634	1.031
00000446	0.00	14.02	2.034	1.088	1.548	0.961
00000446	14.02	25.81	2.034	1.088	1.548	0.961
00000446	25.81	29.57	2.034	1.088	1.548	0.961
00000446	25.81	29.57	2.034	1.088	1.548	0.961
00000446	29.57	44.19	1.045	0.631	1.198	0.772
00000446X	0.00	1.98	2.034	1.088	1.548	0.961
00000495	0.00	2.20	1.166	0.755	1.634	1.031
00000495	2.20	3.45	1.166	0.755	1.634	1.031
00000501	0.00	3.09	0.710	0.501	1.250	0.843
00000501	3.09	3.36	0.710	0.501	1.250	0.843
00000501	3.61	6.23	0.710	0.501	1.250	0.843
00000501	6.23	6.99	1.179	0.790	1.482	0.918
00000501	23.81	27.12	2.268	1.324	3.164	1.909
00000501	27.12	37.21	1.179	0.790	1.482	0.918
00000501	39.62	40.27	2.268	1.324	3.164	1.909
00000501	40.27	40.52	2.268	1.324	3.164	1.909
00000501	42.86	43.86	1.179	0.790	1.482	0.918
00000501	43.86	45.65	1.179	0.790	1.482	0.918
00000501	45.65	45.89	1.179	0.790	1.482	0.918
00000501	45.89	46.06	1.179	0.790	1.482	0.918
00000501	46.06	46.14	1.179	0.790	1.482	0.918
00000501	46.14	46.19	1.179	0.790	1.482	0.918
00000501	46.19	48.95	1.179	0.790	1.482	0.918
00000501	48.95	53.07	1.179	0.790	1.482	0.918
00000502	0.00	2.50	2.268	1.324	3.164	1.909
00000502	2.50	3.42	2.268	1.324	3.164	1.909
00000502	3.42	3.64	2.268	1.324	3.164	1.909
00000502	3.64	6.00	2.268	1.324	3.164	1.909
00000502	6.00	7.23	2.268	1.324	3.164	1.909
00000502	7.23	7.24	1.179	0.790	1.482	0.918
00000502	7.24	9.65	1.179	0.790	1.482	0.918
00000502	9.65	11.29	1.179	0.790	1.482	0.918
00000502	11.29	11.88	1.179	0.790	1.482	0.918
00000502	11.88	13.00	1.179	0.790	1.482	0.918
00000502	13.00	13.71	1.179	0.790	1.482	0.918
00000502	13.71	14.35	1.179	0.790	1.482	0.918
00000502	14.35	16.94	1.179	0.790	1.482	0.918
00000502	16.94	17.44	1.179	0.790	1.482	0.918

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000502	17.44	20.13	1.179	0.790	1.482	0.918
00000502	20.13	21.24	1.179	0.790	1.482	0.918
00000502	21.24	23.79	1.179	0.790	1.482	0.918
00000503	0.00	1.59	1.179	0.790	1.482	0.918
00000503	1.59	2.45	1.179	0.790	1.482	0.918
00000503	2.45	3.60	1.179	0.790	1.482	0.918
00000503	3.60	3.87	1.179	0.790	1.482	0.918
00000503	3.87	3.97	1.179	0.790	1.482	0.918
00000503	3.97	5.40	1.179	0.790	1.482	0.918
00000503	5.40	6.31	1.179	0.790	1.482	0.918
00000503	6.31	7.56	1.179	0.790	1.482	0.918
00000503	7.56	7.71	1.179	0.790	1.482	0.918
00000503	7.71	17.95	1.179	0.790	1.482	0.918
00000504	0.00	4.23	2.268	1.324	3.164	1.909
00000504	4.23	5.33	2.268	1.324	3.164	1.909
00000504	5.33	5.68	2.268	1.324	3.164	1.909
00000504	6.47	8.05	2.268	1.324	3.164	1.909
00000504	8.05	8.96	2.268	1.324	3.164	1.909
00000504	8.96	11.65	1.179	0.790	1.482	0.918
00000504	11.65	12.77	1.179	0.790	1.482	0.918
00000504	12.77	13.99	1.179	0.790	1.482	0.918
00000504	13.99	14.05	1.179	0.790	1.482	0.918
00000504	14.05	14.51	1.179	0.790	1.482	0.918
00000504	14.51	14.76	1.179	0.790	1.482	0.918
00000504	14.76	15.76	1.179	0.790	1.482	0.918
00000504	15.76	15.83	1.179	0.790	1.482	0.918
00000504	15.83	15.94	2.268	1.324	3.164	1.909
00000505	0.00	0.48	1.179	0.790	1.482	0.918
00000505	0.48	0.53	2.268	1.324	3.164	1.909
00000505	0.53	0.66	1.179	0.790	1.482	0.918
00000505	0.66	1.93	1.179	0.790	1.482	0.918
00000505	1.93	2.50	1.179	0.790	1.482	0.918
00000505	2.50	7.48	1.179	0.790	1.482	0.918
00000505	7.48	9.50	1.179	0.790	1.482	0.918
00000505	9.50	10.70	1.179	0.790	1.482	0.918
00000505	10.70	11.48	1.179	0.790	1.482	0.918
00000505	11.48	11.71	1.179	0.790	1.482	0.918
00000505	11.71	17.61	1.179	0.790	1.482	0.918
00000505	17.61	20.64	1.179	0.790	1.482	0.918
00000505Z	0.00	0.48	1.179	0.790	1.482	0.918
00000506	0.00	7.28	1.179	0.790	1.482	0.918
00000506	7.28	7.34	2.268	1.324	3.164	1.909
00000506	7.34	10.43	2.268	1.324	3.164	1.909
00000506	10.52	10.78	2.268	1.324	3.164	1.909
00000506S	0.00	3.93	1.179	0.790	1.482	0.918
00000506S	3.93	4.16	1.179	0.790	1.482	0.918
00000506S	4.16	4.30	1.179	0.790	1.482	0.918
00000506SZ	0.00	0.22	1.179	0.790	1.482	0.918
00000506SZ	0.22	0.29	1.179	0.790	1.482	0.918

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000507	0.00	2.21	2.268	1.324	3.164	1.909
00000507	3.22	4.53	1.179	0.790	1.482	0.918
00000507	4.53	7.04	1.179	0.790	1.482	0.918
00000507	7.04	7.73	1.179	0.790	1.482	0.918
00000507	7.73	8.26	1.179	0.790	1.482	0.918
00000507	8.26	8.82	1.179	0.790	1.482	0.918
00000507	8.82	9.24	1.179	0.790	1.482	0.918
00000507	9.24	9.56	1.179	0.790	1.482	0.918
00000507	9.56	14.35	1.179	0.790	1.482	0.918
00000507	14.35	15.94	1.179	0.790	1.482	0.918
00000507	15.94	18.62	1.179	0.790	1.482	0.918
00000507	18.62	19.04	1.179	0.790	1.482	0.918
00000507	19.04	20.37	1.179	0.790	1.482	0.918
00000507	20.37	20.76	1.179	0.790	1.482	0.918
00000507	21.35	24.19	1.179	0.790	1.482	0.918
00000507	24.19	24.99	1.179	0.790	1.482	0.918
00000507	24.99	26.39	1.179	0.790	1.482	0.918
00000507	26.39	28.34	1.179	0.790	1.482	0.918
00000508	0.00	1.73	1.179	0.790	1.482	0.918
00000508	1.73	3.11	1.179	0.790	1.482	0.918
00000508	3.11	6.22	1.179	0.790	1.482	0.918
00000508	6.22	6.39	2.268	1.324	3.164	1.909
00000508	6.39	6.58	2.268	1.324	3.164	1.909
00000508	6.58	6.70	1.179	0.790	1.482	0.918
00000508	6.70	11.28	1.179	0.790	1.482	0.918
00000508	11.28	11.41	1.179	0.790	1.482	0.918
00000508	11.41	11.53	1.179	0.790	1.482	0.918
00000508	12.20	12.36	2.268	1.324	3.164	1.909
00000508	12.36	14.47	2.268	1.324	3.164	1.909
00000508	14.47	16.14	2.268	1.324	3.164	1.909
00000508S	0.00	0.31	1.179	0.790	1.482	0.918
00000509	0.00	0.61	2.268	1.324	3.164	1.909
00000509	0.61	0.95	2.268	1.324	3.164	1.909
00000509	7.03	8.99	2.268	1.324	3.164	1.909
00000509	8.99	9.40	2.268	1.324	3.164	1.909
00000509	9.40	10.02	2.268	1.324	3.164	1.909
00000509	10.02	11.87	2.268	1.324	3.164	1.909
00000509	11.87	12.41	2.268	1.324	3.164	1.909
00000509	12.41	14.30	2.268	1.324	3.164	1.909
00000509	14.30	15.22	2.268	1.324	3.164	1.909
00000509	15.22	15.51	2.268	1.324	3.164	1.909
00000509	15.51	15.93	2.268	1.324	3.164	1.909
00000509	15.93	16.45	2.268	1.324	3.164	1.909
00000509	16.45	18.58	2.268	1.324	3.164	1.909
00000509	18.58	18.59	1.179	0.790	1.482	0.918
00000509	18.59	19.46	2.268	1.324	3.164	1.909
00000509	19.46	19.83	2.268	1.324	3.164	1.909
00000509	19.83	21.04	2.268	1.324	3.164	1.909
00000509	21.04	21.56	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000509	21.56	21.81	2.268	1.324	3.164	1.909
00000509	21.81	22.91	2.268	1.324	3.164	1.909
00000509Z	0.00	0.16	1.179	0.790	1.482	0.918
00000509Z	0.16	0.38	1.179	0.790	1.482	0.918
00000509Z	2.61	2.87	1.179	0.790	1.482	0.918
00000510	0.00	0.30	2.268	1.324	3.164	1.909
00000510	0.30	3.90	2.268	1.324	3.164	1.909
00000510	3.90	4.83	2.268	1.324	3.164	1.909
00000510	4.83	8.11	2.268	1.324	3.164	1.909
00000510	8.11	10.94	2.268	1.324	3.164	1.909
00000510	10.94	11.65	2.268	1.324	3.164	1.909
00000510	11.80	12.91	0.710	0.501	1.250	0.843
00000510	12.91	14.33	0.710	0.501	1.250	0.843
00000510	14.33	17.85	0.710	0.501	1.250	0.843
00000510	17.85	28.80	1.179	0.790	1.482	0.918
00000510	28.80	28.99	1.179	0.790	1.482	0.918
00000510	28.99	29.58	1.179	0.790	1.482	0.918
00000510Z	0.00	0.10	0.710	0.501	1.250	0.843
00000510Z	0.10	0.30	0.710	0.501	1.250	0.843
00000510Z	0.30	1.21	0.710	0.501	1.250	0.843
00000511	0.10	2.92	2.268	1.324	3.164	1.909
00000511	2.92	6.30	2.268	1.324	3.164	1.909
00000511	9.39	9.70	2.268	1.324	3.164	1.909
00000511	9.70	10.19	2.268	1.324	3.164	1.909
00000511	10.19	17.11	1.179	0.790	1.482	0.918
00000511	17.11	17.87	2.268	1.324	3.164	1.909
00000511	17.87	17.94	2.268	1.324	3.164	1.909
00000511	17.94	17.99	2.268	1.324	3.164	1.909
00000511	17.99	18.03	2.268	1.324	3.164	1.909
00000511	18.03	18.12	2.268	1.324	3.164	1.909
00000511	18.12	18.84	2.268	1.324	3.164	1.909
00000511	18.84	21.13	2.268	1.324	3.164	1.909
00000511	21.13	25.52	1.179	0.790	1.482	0.918
00000511	25.52	28.26	1.179	0.790	1.482	0.918
00000511	28.26	30.18	2.268	1.324	3.164	1.909
00000511	30.18	32.52	2.268	1.324	3.164	1.909
00000511	32.52	34.90	2.268	1.324	3.164	1.909
00000511	34.90	37.45	2.268	1.324	3.164	1.909
00000511A	2.38	3.60	2.268	1.324	3.164	1.909
00000511A	3.60	3.96	2.268	1.324	3.164	1.909
00000511A	3.96	4.03	2.268	1.324	3.164	1.909
00000511A	4.03	6.77	2.268	1.324	3.164	1.909
00000511A	6.96	7.93	2.268	1.324	3.164	1.909
00000511A	7.93	8.47	1.179	0.790	1.482	0.918
00000511A	8.47	9.77	1.179	0.790	1.482	0.918
00000512	0.00	0.58	2.268	1.324	3.164	1.909
00000512	0.58	3.42	2.268	1.324	3.164	1.909
00000512	3.42	5.75	2.268	1.324	3.164	1.909
00000512	5.75	7.64	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000512	7.64	10.10	0.710	0.501	1.250	0.843
00000512	7.64	10.10	2.268	1.324	3.164	1.909
00000512	10.10	10.74	0.710	0.501	1.250	0.843
00000512	10.74	13.17	0.710	0.501	1.250	0.843
00000512	10.74	13.17	2.268	1.324	3.164	1.909
00000512	13.17	13.22	0.710	0.501	1.250	0.843
00000512	13.17	13.22	2.268	1.324	3.164	1.909
00000512	13.22	13.99	0.710	0.501	1.250	0.843
00000512	14.25	15.80	0.710	0.501	1.250	0.843
00000512	15.80	17.46	0.710	0.501	1.250	0.843
00000512	17.46	18.08	0.710	0.501	1.250	0.843
00000512	18.08	18.56	0.710	0.501	1.250	0.843
00000512	18.56	25.70	2.268	1.324	3.164	1.909
00000512	25.70	31.08	2.268	1.324	3.164	1.909
00000512	31.08	31.16	2.268	1.324	3.164	1.909
00000512	31.16	32.96	2.268	1.324	3.164	1.909
00000513	0.00	0.05	2.268	1.324	3.164	1.909
00000513	0.05	7.43	2.268	1.324	3.164	1.909
00000513	7.43	9.99	2.268	1.324	3.164	1.909
00000513	9.99	11.45	2.268	1.324	3.164	1.909
00000513	12.13	12.23	2.268	1.324	3.164	1.909
00000513	12.23	12.98	2.268	1.324	3.164	1.909
00000513	13.64	14.79	2.268	1.324	3.164	1.909
00000513	14.79	14.86	2.268	1.324	3.164	1.909
00000513	14.86	15.05	2.268	1.324	3.164	1.909
00000513	15.05	15.09	2.268	1.324	3.164	1.909
00000513	15.09	15.94	2.268	1.324	3.164	1.909
00000513	15.94	20.07	2.268	1.324	3.164	1.909
00000513	20.07	21.94	2.268	1.324	3.164	1.909
00000513	21.94	25.86	2.268	1.324	3.164	1.909
00000513	25.86	28.40	0.710	0.501	1.250	0.843
00000513	25.86	28.40	2.268	1.324	3.164	1.909
00000513	28.40	29.70	0.710	0.501	1.250	0.843
00000513	29.70	29.84	0.710	0.501	1.250	0.843
00000513	29.84	30.32	0.710	0.501	1.250	0.843
00000513	30.32	31.32	2.268	1.324	3.164	1.909
00000513	31.32	35.15	2.268	1.324	3.164	1.909
00000513	35.15	39.17	2.268	1.324	3.164	1.909
00000513	39.17	39.53	2.268	1.324	3.164	1.909
00000513	39.53	40.47	2.268	1.324	3.164	1.909
00000513	40.47	41.13	2.268	1.324	3.164	1.909
00000513	41.13	41.29	2.268	1.324	3.164	1.909
00000513	41.29	42.72	2.268	1.324	3.164	1.909
00000513	42.72	43.13	2.268	1.324	3.164	1.909
00000513	43.13	44.52	2.268	1.324	3.164	1.909
00000513	44.52	44.58	2.268	1.324	3.164	1.909
00000513	44.58	44.90	2.268	1.324	3.164	1.909
00000513	44.90	45.00	2.268	1.324	3.164	1.909
00000513	45.00	45.37	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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	45.37	50.64	2.268	1.324	3.164	1.909
00000513	50.64	56.29	2.268	1.324	3.164	1.909
00000513	50.64	56.29	2.268	1.324	3.164	1.909
00000513	56.29	57.14	2.268	1.324	3.164	1.909
00000513	57.56	59.43	2.268	1.324	3.164	1.909
00000513	59.43	66.83	2.268	1.324	3.164	1.909
00000514	0.00	3.43	2.268	1.324	3.164	1.909
00000514	3.43	5.66	0.382	0.261	0.422	0.289
00000514	3.43	5.66	2.268	1.324	3.164	1.909
00000514	5.66	8.93	0.382	0.261	0.422	0.289
00000514	8.93	10.38	0.382	0.261	0.422	0.289
00000514	10.38	21.07	0.382	0.261	0.422	0.289
00000514	21.07	24.62	0.382	0.261	0.422	0.289
00000514	25.97	32.32	0.710	0.501	1.250	0.843
00000514	25.97	32.32	0.732	0.473	0.854	0.552
00000514	32.32	34.71	1.179	0.790	1.482	0.918
00000514	34.71	35.25	0.382	0.261	0.422	0.289
00000514	35.25	38.55	0.382	0.261	0.422	0.289
00000514	38.55	38.92	2.268	1.324	3.164	1.909
00000514	38.92	39.12	2.268	1.324	3.164	1.909
00000514	39.12	42.53	2.268	1.324	3.164	1.909
00000514	42.53	42.71	2.268	1.324	3.164	1.909
00000514	42.71	43.01	1.179	0.790	1.482	0.918
00000515	0.00	5.99	2.268	1.324	3.164	1.909
00000515	5.99	8.55	2.268	1.324	3.164	1.909
00000515	10.76	13.05	2.268	1.324	3.164	1.909
00000516	0.00	6.90	0.612	0.421	1.342	0.737
00000516	6.90	8.13	0.612	0.421	1.342	0.737
00000516	8.13	8.78	0.612	0.421	1.342	0.737
00000516	8.78	9.42	0.612	0.421	1.342	0.737
00000516	9.42	10.27	0.612	0.421	1.342	0.737
00000516	10.27	10.65	0.612	0.421	1.342	0.737
00000516	10.65	13.15	0.612	0.421	1.342	0.737
00000516	13.15	13.89	0.612	0.421	1.342	0.737
00000516	14.32	16.04	0.612	0.421	1.342	0.737
00000516	16.04	16.52	0.612	0.421	1.342	0.737
00000516	16.52	19.27	0.612	0.421	1.342	0.737
00000516Z	0.00	0.90	0.612	0.421	1.342	0.737
00000517	0.00	0.45	2.268	1.324	3.164	1.909
00000517	0.45	6.16	2.268	1.324	3.164	1.909
00000517	6.16	9.46	2.268	1.324	3.164	1.909
00000517	9.46	10.14	2.268	1.324	3.164	1.909
00000517	10.14	14.45	2.268	1.324	3.164	1.909
00000517	15.85	16.88	2.268	1.324	3.164	1.909
00000517	16.88	20.69	2.268	1.324	3.164	1.909
00000517	20.69	22.36	2.268	1.324	3.164	1.909
00000517	22.36	25.90	2.268	1.324	3.164	1.909
00000517	25.90	26.00	2.268	1.324	3.164	1.909
00000517	26.00	26.85	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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	26.85	27.04	2.268	1.324	3.164	1.909
00000517	27.12	27.17	2.268	1.324	3.164	1.909
00000517	27.17	27.75	2.268	1.324	3.164	1.909
00000517	27.75	30.08	2.268	1.324	3.164	1.909
00000517	30.08	31.15	2.268	1.324	3.164	1.909
00000517	31.15	32.71	2.268	1.324	3.164	1.909
00000517	32.71	33.00	2.268	1.324	3.164	1.909
00000517	33.00	35.55	2.268	1.324	3.164	1.909
00000517	35.55	36.91	2.268	1.324	3.164	1.909
00000517	36.91	38.60	2.268	1.324	3.164	1.909
00000517	38.60	39.84	2.268	1.324	3.164	1.909
00000517	42.54	43.13	2.268	1.324	3.164	1.909
00000517	43.13	46.45	2.268	1.324	3.164	1.909
00000517	46.84	50.66	2.268	1.324	3.164	1.909
00000517	50.66	53.44	2.268	1.324	3.164	1.909
00000517	53.44	53.86	2.268	1.324	3.164	1.909
00000518	0.00	0.67	2.268	1.324	3.164	1.909
00000518	0.67	0.92	2.268	1.324	3.164	1.909
00000518	0.92	4.53	0.382	0.261	0.422	0.289
00000518	0.92	4.53	2.268	1.324	3.164	1.909
00000518	4.53	7.21	0.382	0.261	0.422	0.289
00000518	7.21	8.10	0.382	0.261	0.422	0.289
00000518	8.10	9.52	0.382	0.261	0.422	0.289
00000518	9.52	10.04	0.382	0.261	0.422	0.289
00000518	10.04	10.48	0.382	0.261	0.422	0.289
00000518	10.48	11.89	0.382	0.261	0.422	0.289
00000518	11.89	13.74	0.382	0.261	0.422	0.289
00000518	13.74	16.78	0.382	0.261	0.422	0.289
00000518	16.78	20.58	0.382	0.261	0.422	0.289
00000519	0.00	8.81	2.268	1.324	3.164	1.909
00000519	8.81	11.78	2.268	1.324	3.164	1.909
00000519	11.78	14.86	2.268	1.324	3.164	1.909
00000519	14.86	17.43	2.268	1.324	3.164	1.909
00000519	17.43	17.52	2.268	1.324	3.164	1.909
00000519	17.52	25.76	2.268	1.324	3.164	1.909
00000519	25.76	26.22	2.268	1.324	3.164	1.909
00000519	26.22	27.29	2.268	1.324	3.164	1.909
00000519	27.29	27.36	2.268	1.324	3.164	1.909
00000519	27.59	28.42	2.268	1.324	3.164	1.909
00000519	28.42	32.27	2.268	1.324	3.164	1.909
00000519	32.27	32.28	2.268	1.324	3.164	1.909
00000519	32.28	38.62	2.268	1.324	3.164	1.909
00000519	38.62	42.05	2.268	1.324	3.164	1.909
00000519	42.05	45.38	2.268	1.324	3.164	1.909
00000519	45.38	48.41	2.268	1.324	3.164	1.909
00000519	48.41	48.52	2.268	1.324	3.164	1.909
00000519	48.52	54.93	2.268	1.324	3.164	1.909
00000519	54.93	56.33	2.268	1.324	3.164	1.909
00000519	56.33	57.00	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000519	57.00	59.24	2.268	1.324	3.164	1.909
00000519	59.24	61.90	2.268	1.324	3.164	1.909
00000519	61.90	63.62	2.268	1.324	3.164	1.909
00000519	63.62	64.42	2.268	1.324	3.164	1.909
00000519	64.94	65.78	2.268	1.324	3.164	1.909
00000519	65.78	67.85	2.268	1.324	3.164	1.909
00000519	67.85	69.30	2.268	1.324	3.164	1.909
00000519	69.30	69.96	2.268	1.324	3.164	1.909
00000519	69.96	71.65	2.268	1.324	3.164	1.909
00000519	71.65	72.00	2.268	1.324	3.164	1.909
00000519	72.00	77.66	2.268	1.324	3.164	1.909
00000519	77.66	83.70	2.268	1.324	3.164	1.909
00000519	85.91	88.53	2.268	1.324	3.164	1.909
00000520	0.00	2.06	0.612	0.421	1.342	0.737
00000520	2.06	10.25	0.612	0.421	1.342	0.737
00000520	2.06	10.25	0.675	0.442	0.670	0.450
00000520	10.25	10.99	0.612	0.421	1.342	0.737
00000520	10.99	14.86	0.612	0.421	1.342	0.737
00000520	14.86	16.81	0.778	0.523	1.035	0.671
00000520	16.84	16.94	0.612	0.421	1.342	0.737
00000520	16.94	17.51	0.612	0.421	1.342	0.737
00000520	17.51	17.84	0.612	0.421	1.342	0.737
00000520	17.84	22.39	0.612	0.421	1.342	0.737
00000521	0.00	1.14	2.268	1.324	3.164	1.909
00000521	1.14	6.09	2.268	1.324	3.164	1.909
00000521	6.35	11.26	2.268	1.324	3.164	1.909
00000521	11.26	12.19	2.268	1.324	3.164	1.909
00000521	12.19	16.09	2.268	1.324	3.164	1.909
00000521	16.09	20.67	2.268	1.324	3.164	1.909
00000521	20.67	23.85	2.268	1.324	3.164	1.909
00000521	23.85	24.98	2.268	1.324	3.164	1.909
00000521	24.98	27.06	2.268	1.324	3.164	1.909
00000521	36.71	43.72	2.268	1.324	3.164	1.909
00000522	0.00	3.71	0.382	0.261	0.422	0.289
00000522	3.71	5.35	0.382	0.261	0.422	0.289
00000522	5.74	8.06	0.382	0.261	0.422	0.289
00000522	8.06	9.61	0.382	0.261	0.422	0.289
00000522	9.61	10.26	0.382	0.261	0.422	0.289
00000522	10.26	15.06	0.382	0.261	0.422	0.289
00000522	15.06	15.54	0.675	0.442	0.670	0.450
00000522	15.54	15.72	0.675	0.442	0.670	0.450
00000522	15.72	15.83	0.675	0.442	0.670	0.450
00000522	15.83	19.40	0.675	0.442	0.670	0.450
00000523	0.00	5.90	2.268	1.324	3.164	1.909
00000523	5.90	9.13	2.268	1.324	3.164	1.909
00000523	9.13	9.33	2.268	1.324	3.164	1.909
00000523	9.33	9.75	2.268	1.324	3.164	1.909
00000523	9.75	10.23	2.268	1.324	3.164	1.909
00000523	10.23	10.35	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000523	10.35	11.72	2.268	1.324	3.164	1.909
00000523	11.72	12.66	2.268	1.324	3.164	1.909
00000523	12.66	14.12	2.268	1.324	3.164	1.909
00000523	14.12	18.42	2.268	1.324	3.164	1.909
00000523	18.42	19.48	2.268	1.324	3.164	1.909
00000523	19.48	20.36	2.268	1.324	3.164	1.909
00000523	20.55	22.42	2.268	1.324	3.164	1.909
00000523	22.42	22.68	2.268	1.324	3.164	1.909
00000523	22.68	23.68	2.268	1.324	3.164	1.909
00000523	23.68	29.23	2.268	1.324	3.164	1.909
00000523	29.23	29.55	2.268	1.324	3.164	1.909
00000524	0.00	1.91	0.756	0.502	0.851	0.560
00000524	1.91	6.21	0.382	0.261	0.422	0.289
00000524	6.21	6.81	0.382	0.261	0.422	0.289
00000524	6.81	7.04	0.382	0.261	0.422	0.289
00000524	7.04	7.91	0.382	0.261	0.422	0.289
00000524	7.91	7.92	0.382	0.261	0.422	0.289
00000524	7.92	14.76	0.675	0.442	0.670	0.450
00000524	14.76	14.84	0.675	0.442	0.670	0.450
00000524	14.84	15.83	0.675	0.442	0.670	0.450
00000524	15.83	18.11	0.675	0.442	0.670	0.450
00000524	18.11	20.00	0.675	0.442	0.670	0.450
00000524	20.00	20.40	0.675	0.442	0.670	0.450
00000524	20.40	21.23	0.675	0.442	0.670	0.450
00000524	21.23	25.52	0.675	0.442	0.670	0.450
00000524	25.52	29.79	0.612	0.421	1.342	0.737
00000524	25.52	29.79	0.675	0.442	0.670	0.450
00000524	29.79	30.53	0.612	0.421	1.342	0.737
00000524	30.53	32.04	0.612	0.421	1.342	0.737
00000524	32.04	33.05	0.612	0.421	1.342	0.737
00000524	33.05	35.03	0.612	0.421	1.342	0.737
00000524	35.03	35.90	0.612	0.421	1.342	0.737
00000524	35.90	36.08	0.612	0.421	1.342	0.737
00000524	36.08	36.29	0.612	0.421	1.342	0.737
00000524	36.29	36.63	0.612	0.421	1.342	0.737
00000524	36.63	39.90	0.612	0.421	1.342	0.737
00000524A	0.00	3.74	0.612	0.421	1.342	0.737
00000524S	0.00	3.39	0.612	0.421	1.342	0.737
00000525	0.00	1.03	0.382	0.261	0.422	0.289
00000525	1.03	2.72	0.382	0.261	0.422	0.289
00000525	2.72	2.99	0.382	0.261	0.422	0.289
00000525	2.99	3.81	0.382	0.261	0.422	0.289
00000525	2.99	3.81	0.382	0.261	0.422	0.289
00000525	3.81	4.15	2.268	1.324	3.164	1.909
00000525	4.15	4.98	2.268	1.324	3.164	1.909
00000525	4.98	7.22	2.268	1.324	3.164	1.909
00000525	7.22	11.56	2.268	1.324	3.164	1.909
00000525	11.56	12.41	2.268	1.324	3.164	1.909
00000525	12.41	12.86	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000525	12.86	14.47	2.268	1.324	3.164	1.909
00000525	14.47	15.15	2.268	1.324	3.164	1.909
00000525	15.15	15.61	2.268	1.324	3.164	1.909
00000525	15.61	16.88	2.268	1.324	3.164	1.909
00000526	0.00	0.68	0.382	0.261	0.422	0.289
00000526	0.68	1.03	0.382	0.261	0.422	0.289
00000526	1.03	3.04	0.382	0.261	0.422	0.289
00000526	3.04	3.42	0.382	0.261	0.422	0.289
00000526	3.42	3.64	0.382	0.261	0.422	0.289
00000526	3.64	6.58	0.382	0.261	0.422	0.289
00000526	7.02	7.37	0.382	0.261	0.422	0.289
00000526	7.37	10.19	0.382	0.261	0.422	0.289
00000526	10.19	10.50	0.382	0.261	0.422	0.289
00000526	10.52	11.40	0.382	0.261	0.422	0.289
00000526	11.40	17.47	0.675	0.442	0.670	0.450
00000526	17.47	18.69	0.675	0.442	0.670	0.450
00000526	18.69	19.61	0.675	0.442	0.670	0.450
00000526	19.61	20.07	0.675	0.442	0.670	0.450
00000526	20.07	20.08	0.675	0.442	0.670	0.450
00000526	20.08	20.42	0.675	0.442	0.670	0.450
00000526	20.42	24.94	0.675	0.442	0.670	0.450
00000526	24.94	25.27	0.675	0.442	0.670	0.450
00000526	25.27	25.37	0.675	0.442	0.670	0.450
00000526	25.37	26.96	0.675	0.442	0.670	0.450
00000526	26.96	27.74	0.675	0.442	0.670	0.450
00000526	27.74	31.73	0.612	0.421	1.342	0.737
00000526	27.74	31.73	0.675	0.442	0.670	0.450
00000526	31.73	34.56	0.855	0.577	1.263	0.796
00000526	34.56	35.56	0.855	0.577	1.263	0.796
00000526A	0.00	0.01	0.382	0.261	0.422	0.289
00000526A	0.01	0.43	0.382	0.261	0.422	0.289
00000526A	0.43	0.44	0.382	0.261	0.422	0.289
00000527	0.11	0.85	0.612	0.421	1.342	0.737
00000527	0.85	1.97	0.612	0.421	1.342	0.737
00000527	1.97	3.76	0.612	0.421	1.342	0.737
00000527	3.76	4.10	0.612	0.421	1.342	0.737
00000527	4.10	11.71	0.612	0.421	1.342	0.737
00000527	4.10	11.71	0.675	0.442	0.670	0.450
00000527	11.71	15.49	0.675	0.442	0.670	0.450
00000527	15.49	18.47	0.675	0.442	0.670	0.450
00000527	18.47	19.60	0.675	0.442	0.670	0.450
00000527	19.60	21.58	0.675	0.442	0.670	0.450
00000527	21.58	21.59	0.675	0.442	0.670	0.450
00000527	21.59	23.03	0.675	0.442	0.670	0.450
00000527	23.03	24.38	0.675	0.442	0.670	0.450
00000527	24.38	26.61	0.675	0.442	0.670	0.450
00000527	26.61	27.02	0.675	0.442	0.670	0.450
00000527	27.02	28.10	0.675	0.442	0.670	0.450
00000527	28.10	29.27	0.675	0.442	0.670	0.450

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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	29.27	29.40	0.675	0.442	0.670	0.450
00000527	29.40	29.61	0.675	0.442	0.670	0.450
00000527	29.61	29.84	0.675	0.442	0.670	0.450
00000527	29.84	29.97	0.675	0.442	0.670	0.450
00000527	30.08	30.57	0.675	0.442	0.670	0.450
00000527	30.57	33.61	0.675	0.442	0.670	0.450
00000527	30.57	33.61	0.612	0.421	1.342	0.737
00000527	33.61	35.90	0.612	0.421	1.342	0.737
00000527	35.90	37.86	0.612	0.421	1.342	0.737
00000527	38.68	42.92	0.382	0.261	0.422	0.289
00000527	46.04	46.73	0.382	0.261	0.422	0.289
00000527	46.84	51.58	1.131	0.735	2.673	1.635
00000527	51.58	52.49	0.382	0.261	0.422	0.289
00000527	52.49	53.36	0.382	0.261	0.422	0.289
00000527	53.36	53.59	0.382	0.261	0.422	0.289
00000527	53.59	55.91	0.382	0.261	0.422	0.289
00000527	53.59	55.91	0.382	0.261	0.422	0.289
00000527	55.91	57.10	0.382	0.261	0.422	0.289
00000527	57.10	57.72	2.268	1.324	3.164	1.909
00000527	57.72	58.20	2.268	1.324	3.164	1.909
00000527	58.20	61.05	2.268	1.324	3.164	1.909
00000527	61.05	64.46	2.268	1.324	3.164	1.909
00000527	64.46	68.64	2.268	1.324	3.164	1.909
00000527	68.64	69.30	2.268	1.324	3.164	1.909
00000527	69.30	70.08	2.268	1.324	3.164	1.909
00000527	70.10	71.19	1.179	0.790	1.482	0.918
00000527	71.19	71.33	2.268	1.324	3.164	1.909
00000527	71.33	74.38	2.268	1.324	3.164	1.909
00000527	74.38	75.54	2.268	1.324	3.164	1.909
00000527	75.54	76.48	1.179	0.790	1.482	0.918
00000527	76.48	76.90	1.179	0.790	1.482	0.918
00000527	76.90	78.17	1.179	0.790	1.482	0.918
00000527	78.17	79.02	2.268	1.324	3.164	1.909
00000527	79.02	79.05	2.268	1.324	3.164	1.909
00000527	79.05	79.18	2.268	1.324	3.164	1.909
00000527	79.18	80.79	2.268	1.324	3.164	1.909
00000527	81.41	84.80	2.268	1.324	3.164	1.909
00000527	84.80	84.86	2.268	1.324	3.164	1.909
00000527A	0.00	2.87	0.675	0.442	0.670	0.450
00000527A	2.87	4.22	0.675	0.442	0.670	0.450
00000527A	4.22	5.35	0.675	0.442	0.670	0.450
00000527A	5.35	5.74	0.675	0.442	0.670	0.450
00000527A	5.74	5.92	0.675	0.442	0.670	0.450
00000527Z	0.00	0.26	1.179	0.790	1.482	0.918
00000527Z	0.26	0.30	1.179	0.790	1.482	0.918
00000528	0.00	4.54	0.382	0.261	0.422	0.289
00000528	4.54	5.74	0.382	0.261	0.422	0.289
00000528	5.74	8.84	0.675	0.442	0.670	0.450
00000528	8.84	9.30	0.675	0.442	0.670	0.450

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000528	9.30	10.81	0.675	0.442	0.670	0.450
00000528	10.81	11.59	0.675	0.442	0.670	0.450
00000528	11.59	12.02	0.675	0.442	0.670	0.450
00000528	12.02	16.06	0.675	0.442	0.670	0.450
00000528	16.06	18.15	0.675	0.442	0.670	0.450
00000528	18.15	19.92	0.675	0.442	0.670	0.450
00000528	19.92	22.46	0.675	0.442	0.670	0.450
00000528	26.20	27.96	0.612	0.421	1.342	0.737
00000528	26.20	27.96	0.675	0.442	0.670	0.450
00000528	27.96	29.09	0.612	0.421	1.342	0.737
00000528	29.09	30.25	0.612	0.421	1.342	0.737
00000528	30.25	30.39	0.855	0.577	1.263	0.796
00000528	30.39	34.94	0.855	0.577	1.263	0.796
00000528	34.94	35.78	0.612	0.421	1.342	0.737
00000528	35.78	39.64	0.612	0.421	1.342	0.737
00000528	39.64	39.89	0.612	0.421	1.342	0.737
00000529	0.00	0.25	0.382	0.261	0.422	0.289
00000529	0.25	3.59	0.710	0.501	1.250	0.843
00000529	3.59	5.31	0.710	0.501	1.250	0.843
00000529	5.31	7.16	0.710	0.501	1.250	0.843
00000529	7.16	7.53	0.710	0.501	1.250	0.843
00000529	7.53	7.54	0.382	0.261	0.422	0.289
00000529	7.54	8.41	0.382	0.261	0.422	0.289
00000529	8.41	8.58	0.382	0.261	0.422	0.289
00000529	8.58	9.44	0.710	0.501	1.250	0.843
00000529	9.44	10.07	0.710	0.501	1.250	0.843
00000529	10.07	10.57	0.710	0.501	1.250	0.843
00000530	0.00	2.68	1.046	0.632	1.066	0.656
00000530	2.68	4.85	1.046	0.632	1.066	0.656
00000530	4.85	6.12	1.046	0.632	1.066	0.656
00000530	6.12	8.48	1.046	0.632	1.066	0.656
00000530	8.48	8.78	1.046	0.632	1.066	0.656
00000530	8.78	13.04	1.046	0.632	1.066	0.656
00000530	13.04	14.28	1.046	0.632	1.066	0.656
00000530	19.41	19.90	0.675	0.442	0.670	0.450
00000530	19.90	25.67	0.675	0.442	0.670	0.450
00000530	19.90	25.67	0.612	0.421	1.342	0.737
00000530	25.67	27.29	0.612	0.421	1.342	0.737
00000530	27.29	29.42	0.612	0.421	1.342	0.737
00000530	29.42	30.67	0.612	0.421	1.342	0.737
00000530	30.67	31.21	0.612	0.421	1.342	0.737
00000531	0.00	2.49	0.382	0.261	0.422	0.289
00000531	2.49	3.43	0.382	0.261	0.422	0.289
00000531	3.43	8.65	0.382	0.261	0.422	0.289
00000531	8.65	8.82	2.268	1.324	3.164	1.909
00000531	8.82	8.91	2.268	1.324	3.164	1.909
00000531	8.91	10.82	2.268	1.324	3.164	1.909
00000531	10.90	13.59	2.268	1.324	3.164	1.909
00000531	13.59	13.61	2.268	1.324	3.164	1.909

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000531Z	0.00	1.19	2.268	1.324	3.164	1.909
00000532	0.00	2.83	0.675	0.442	0.670	0.450
00000532	2.83	4.05	0.675	0.442	0.670	0.450
00000532	4.05	5.35	0.675	0.442	0.670	0.450
00000532	5.35	5.42	0.675	0.442	0.670	0.450
00000532	5.42	6.57	0.675	0.442	0.670	0.450
00000532	6.57	19.43	0.675	0.442	0.670	0.450
00000532	6.57	19.43	0.612	0.421	1.342	0.737
00000532	27.09	32.81	0.612	0.421	1.342	0.737
00000532	32.81	33.04	0.612	0.421	1.342	0.737
00000532	33.04	33.91	0.612	0.421	1.342	0.737
00000532	33.91	35.19	0.612	0.421	1.342	0.737
00000533	0.00	1.41	0.382	0.261	0.422	0.289
00000533	1.41	3.51	0.382	0.261	0.422	0.289
00000533	3.51	8.41	0.382	0.261	0.422	0.289
00000533	8.41	10.42	0.382	0.261	0.422	0.289
00000533	10.42	10.88	0.382	0.261	0.422	0.289
00000533	17.33	17.47	0.382	0.261	0.422	0.289
00000533	17.47	22.61	0.382	0.261	0.422	0.289
00000533	22.61	25.14	0.382	0.261	0.422	0.289
00000533	25.14	25.52	0.382	0.261	0.422	0.289
00000533	25.52	26.41	0.382	0.261	0.422	0.289
00000533	26.41	27.39	0.382	0.261	0.422	0.289
00000533	27.39	28.72	0.382	0.261	0.422	0.289
00000533	28.72	29.69	0.382	0.261	0.422	0.289
00000533	29.69	29.89	0.382	0.261	0.422	0.289
00000533	29.89	31.49	0.382	0.261	0.422	0.289
00000533	31.49	32.06	0.382	0.261	0.422	0.289
00000533	32.06	32.14	0.382	0.261	0.422	0.289
00000533	32.14	32.36	0.382	0.261	0.422	0.289
00000533S	0.00	0.45	0.382	0.261	0.422	0.289
00000533Z	0.00	0.14	0.382	0.261	0.422	0.289
00000534	0.00	0.99	0.593	0.425	1.146	0.754
00000534	0.99	1.17	0.455	0.358	0.882	0.590
00000534	1.17	3.88	0.455	0.358	0.882	0.590
00000534	3.88	4.00	0.455	0.358	0.882	0.590
00000534	4.00	4.42	0.455	0.358	0.882	0.590
00000534	4.42	5.13	0.941	0.542	3.248	1.895
00000534	5.13	8.01	0.941	0.542	3.248	1.895
00000534	8.01	8.51	0.941	0.542	3.248	1.895
00000534	8.51	11.45	0.675	0.442	0.670	0.450
00000534	12.23	17.16	0.675	0.442	0.670	0.450
00000534	17.16	17.57	0.675	0.442	0.670	0.450
00000534	17.57	19.26	0.675	0.442	0.670	0.450
00000534	19.26	20.88	0.675	0.442	0.670	0.450
00000534	20.88	20.89	0.675	0.442	0.670	0.450
00000534	20.89	22.80	0.675	0.442	0.670	0.450
00000535	0.00	2.00	0.382	0.261	0.422	0.289
00000535	2.00	3.31	0.382	0.261	0.422	0.289

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000535	3.31	3.44	0.382	0.261	0.422	0.289
00000535	3.44	6.41	0.382	0.261	0.422	0.289
00000535	6.41	7.41	0.382	0.261	0.422	0.289
00000535	7.60	11.78	0.382	0.261	0.422	0.289
00000535	11.78	13.27	0.382	0.261	0.422	0.289
00000535	13.27	13.55	0.382	0.261	0.422	0.289
00000535	13.55	13.74	0.382	0.261	0.422	0.289
00000535	13.74	14.15	0.382	0.261	0.422	0.289
00000535	14.15	14.54	0.382	0.261	0.422	0.289
00000535	14.54	14.73	0.382	0.261	0.422	0.289
00000535	14.73	14.78	0.382	0.261	0.422	0.289
00000535	14.78	14.85	0.382	0.261	0.422	0.289
00000535	14.94	15.77	0.732	0.473	0.854	0.552
00000535	15.77	16.86	0.732	0.473	0.854	0.552
00000535	16.86	17.41	0.732	0.473	0.854	0.552
00000535	17.41	20.51	0.732	0.473	0.854	0.552
00000535	20.51	25.82	0.732	0.473	0.854	0.552
00000535	25.82	26.47	0.382	0.261	0.422	0.289
00000535	26.47	27.88	0.612	0.421	1.342	0.737
00000535	26.47	27.88	0.382	0.261	0.422	0.289
00000535	27.88	31.73	0.612	0.421	1.342	0.737
00000536	24.24	24.38	0.455	0.358	0.882	0.590
00000536	24.38	24.77	0.455	0.358	0.882	0.590
00000536	24.77	27.73	0.675	0.442	0.670	0.450
00000536	27.73	30.18	0.675	0.442	0.670	0.450
00000536	30.18	32.47	0.675	0.442	0.670	0.450
00000536	32.55	33.08	0.675	0.442	0.670	0.450
00000536	33.08	33.09	0.675	0.442	0.670	0.450
00000536	33.09	38.52	0.802	0.528	1.750	0.976
00000536	33.09	38.52	0.675	0.442	0.670	0.450
00000536S	0.00	1.54	0.694	0.477	2.969	1.750
00000536S	1.54	1.67	0.675	0.442	0.670	0.450
00000536S	1.67	5.96	0.675	0.442	0.670	0.450
00000536S	5.96	7.31	0.675	0.442	0.670	0.450
00000536S	7.31	7.57	0.675	0.442	0.670	0.450
00000537	0.00	0.17	0.455	0.358	0.882	0.590
00000537	0.17	0.52	0.455	0.358	0.882	0.590
00000537	0.52	0.64	0.593	0.425	1.146	0.754
00000537	0.64	3.66	0.455	0.358	0.882	0.590
00000537	3.66	4.10	0.382	0.261	0.422	0.289
00000537	4.10	4.53	0.382	0.261	0.422	0.289
00000537	4.53	5.11	0.382	0.261	0.422	0.289
00000537	5.11	6.64	0.382	0.261	0.422	0.289
00000537	6.64	7.04	0.382	0.261	0.422	0.289
00000537	7.04	7.87	0.382	0.261	0.422	0.289
00000537	7.87	9.39	0.382	0.261	0.422	0.289
00000537	9.39	10.90	0.382	0.261	0.422	0.289
00000537	10.90	11.37	0.382	0.261	0.422	0.289
00000537	11.37	12.15	0.382	0.261	0.422	0.289

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000537	12.15	12.36	0.382	0.261	0.422	0.289
00000537	12.36	18.11	0.382	0.261	0.422	0.289
00000537	18.11	18.81	0.382	0.261	0.422	0.289
00000537	18.81	19.50	0.382	0.261	0.422	0.289
00000537	19.50	19.94	0.382	0.261	0.422	0.289
00000537	19.94	22.31	0.382	0.261	0.422	0.289
00000537	22.31	27.33	0.675	0.442	0.670	0.450
00000537	27.33	32.84	0.675	0.442	0.670	0.450
00000537	32.84	41.45	0.675	0.442	0.670	0.450
00000537	41.45	44.32	0.675	0.442	0.670	0.450
00000537	44.32	46.31	0.675	0.442	0.670	0.450
00000537	47.54	48.16	0.675	0.442	0.670	0.450
00000537	48.16	50.81	0.675	0.442	0.670	0.450
00000537	50.81	52.20	1.445	0.868	1.398	0.877
00000537	52.38	52.87	1.445	0.868	1.398	0.877
00000537	52.87	55.24	1.445	0.868	1.398	0.877
00000537	55.24	61.78	0.612	0.421	1.342	0.737
00000537	55.24	61.78	0.675	0.442	0.670	0.450
00000537	61.78	64.50	0.612	0.421	1.342	0.737
00000537S	0.00	0.35	0.455	0.358	0.882	0.590
00000537S	0.35	1.08	0.455	0.358	0.882	0.590
00000538	0.00	1.04	0.455	0.358	0.882	0.590
00000538	1.04	3.61	0.455	0.358	0.882	0.590
00000538	3.61	7.27	0.455	0.358	0.882	0.590
00000538	7.27	13.39	0.802	0.528	1.750	0.976
00000538	7.27	13.39	0.455	0.358	0.882	0.590
00000538	13.39	15.49	0.802	0.528	1.750	0.976
00000538	15.49	15.52	0.802	0.528	1.750	0.976
00000538	15.52	16.27	0.802	0.528	1.750	0.976
00000538	16.27	24.10	0.455	0.358	0.882	0.590
00000538	16.27	24.10	0.802	0.528	1.750	0.976
00000539	0.00	3.72	0.612	0.421	1.342	0.737
00000539	3.72	13.78	0.612	0.421	1.342	0.737
00000539	13.78	20.79	0.612	0.421	1.342	0.737
00000539	20.79	25.10	0.675	0.442	0.670	0.450
00000539	20.79	25.10	0.612	0.421	1.342	0.737
00000539	25.36	25.37	0.675	0.442	0.670	0.450
00000539	25.37	35.16	0.675	0.442	0.670	0.450
00000539	35.16	37.17	0.675	0.442	0.670	0.450
00000539	37.17	43.85	0.675	0.442	0.670	0.450
00000539	43.85	44.10	0.382	0.261	0.422	0.289
00000539	45.50	46.37	0.382	0.261	0.422	0.289
00000539	46.37	49.41	0.382	0.261	0.422	0.289
00000539	49.41	51.55	0.382	0.261	0.422	0.289
00000539	51.55	51.92	0.382	0.261	0.422	0.289
00000539	52.08	52.16	0.382	0.261	0.422	0.289
00000539	52.16	53.53	0.382	0.261	0.422	0.289
00000540	0.92	1.53	0.455	0.358	0.882	0.590
00000540	1.53	5.63	0.455	0.358	0.882	0.590

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000540	5.63	7.40	0.455	0.358	0.882	0.590
00000540	7.40	7.41	0.455	0.358	0.882	0.590
00000540	7.41	7.54	0.455	0.358	0.882	0.590
00000540	8.70	12.47	0.455	0.358	0.882	0.590
00000540	12.47	13.07	0.455	0.358	0.882	0.590
00000540	13.07	13.39	0.455	0.358	0.882	0.590
00000540	13.39	17.17	0.455	0.358	0.882	0.590
00000540	17.17	25.89	0.455	0.358	0.882	0.590
00000540	25.89	30.29	0.455	0.358	0.882	0.590
00000540	30.29	30.69	0.455	0.358	0.882	0.590
00000540	30.69	33.09	2.832	1.492	2.160	1.298
00000540	30.69	33.09	0.455	0.358	0.882	0.590
00000540	33.09	33.19	2.832	1.492	2.160	1.298
00000540	33.19	33.74	2.832	1.492	2.160	1.298
00000540	33.74	35.72	0.802	0.528	1.750	0.976
00000540	35.72	36.10	0.802	0.528	1.750	0.976
00000540	36.10	39.36	0.802	0.528	1.750	0.976
00000540	39.36	40.30	0.802	0.528	1.750	0.976
00000540	40.30	42.44	0.802	0.528	1.750	0.976
00000540	42.44	43.16	0.802	0.528	1.750	0.976
00000541	0.00	9.67	0.675	0.442	0.670	0.450
00000541	9.67	10.27	0.675	0.442	0.670	0.450
00000541	10.27	10.62	0.675	0.442	0.670	0.450
00000541	10.62	15.58	0.675	0.442	0.670	0.450
00000541	15.58	16.34	0.382	0.261	0.422	0.289
00000541	16.34	18.35	0.634	0.429	1.384	0.918
00000541	18.35	20.72	0.634	0.429	1.384	0.918
00000541	20.72	23.11	0.634	0.429	1.384	0.918
00000541	23.11	23.84	0.634	0.429	1.384	0.918
00000541T	0.00	1.49	0.382	0.261	0.422	0.289
00000542	0.00	0.16	0.802	0.528	1.750	0.976
00000542	0.16	1.68	0.802	0.528	1.750	0.976
00000542	1.76	4.01	0.802	0.528	1.750	0.976
00000542	4.01	20.57	0.612	0.421	1.342	0.737
00000543	0.00	5.41	0.382	0.261	0.422	0.289
00000543	5.41	5.58	0.593	0.425	1.146	0.754
00000543	5.58	5.77	0.593	0.425	1.146	0.754
00000543	5.77	7.29	0.593	0.425	1.146	0.754
00000543	7.29	10.27	0.634	0.429	1.384	0.918
00000543	10.27	10.46	0.634	0.429	1.384	0.918
00000543	10.46	10.83	0.634	0.429	1.384	0.918
00000543	10.83	12.83	0.634	0.429	1.384	0.918
00000543	12.83	14.72	0.634	0.429	1.384	0.918
00000543	14.72	16.03	0.634	0.429	1.384	0.918
00000543	17.95	19.11	0.382	0.261	0.422	0.289
00000543	19.11	24.39	0.382	0.261	0.422	0.289
00000543	24.39	24.48	0.382	0.261	0.422	0.289
00000543	24.48	24.87	0.382	0.261	0.422	0.289
00000543	24.87	25.55	0.382	0.261	0.422	0.289

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000543	25.55	27.60	0.382	0.261	0.422	0.289
00000543	27.60	28.19	0.675	0.442	0.670	0.450
00000543	28.19	28.77	0.675	0.442	0.670	0.450
00000544	0.00	1.84	0.593	0.425	1.146	0.754
00000544	2.16	4.46	0.593	0.425	1.146	0.754
00000544	4.46	4.83	0.593	0.425	1.146	0.754
00000544	4.83	11.12	0.593	0.425	1.146	0.754
00000544	11.12	11.31	0.382	0.261	0.422	0.289
00000544	11.31	13.75	0.675	0.442	0.670	0.450
00000544	13.75	14.94	0.675	0.442	0.670	0.450
00000545	0.00	1.53	0.675	0.442	0.670	0.450
00000545	1.53	2.06	0.675	0.442	0.670	0.450
00000545	4.82	4.83	0.675	0.442	0.670	0.450
00000545	4.83	5.39	0.675	0.442	0.670	0.450
00000545	5.39	6.94	0.675	0.442	0.670	0.450
00000545	6.94	7.79	0.675	0.442	0.670	0.450
00000545	7.79	8.89	0.675	0.442	0.670	0.450
00000545	8.89	12.54	0.382	0.261	0.422	0.289
00000545	12.54	13.73	0.382	0.261	0.422	0.289
00000545	13.73	14.76	0.382	0.261	0.422	0.289
00000546	0.00	5.26	0.382	0.261	0.422	0.289
00000546	5.26	8.38	0.382	0.261	0.422	0.289
00000546	8.38	9.98	0.382	0.261	0.422	0.289
00000547	0.00	1.90	0.675	0.442	0.670	0.450
00000547	1.90	5.54	0.675	0.442	0.670	0.450
00000547	9.28	9.61	0.612	0.421	1.342	0.737
00000547	9.61	9.63	0.612	0.421	1.342	0.737
00000547	9.63	10.18	0.612	0.421	1.342	0.737
00000547	10.18	14.67	0.612	0.421	1.342	0.737
00000547	14.67	15.05	0.612	0.421	1.342	0.737
00000547	15.05	15.33	0.612	0.421	1.342	0.737
00000547	17.60	20.44	0.612	0.421	1.342	0.737
00000547	20.87	25.98	0.612	0.421	1.342	0.737
00000547	25.98	28.29	0.612	0.421	1.342	0.737
00000548	0.00	9.18	2.832	1.492	2.160	1.298
00000549	0.00	0.25	0.612	0.421	1.342	0.737
00000549	0.25	1.19	0.612	0.421	1.342	0.737
00000549	1.19	5.96	0.855	0.577	1.263	0.796
00000549	5.96	8.69	0.855	0.577	1.263	0.796
00000549	8.69	11.45	0.855	0.577	1.263	0.796
00000549	11.45	12.09	0.855	0.577	1.263	0.796
00000549	12.09	12.35	0.855	0.577	1.263	0.796
00000549	12.35	13.01	0.612	0.421	1.342	0.737
00000549	13.01	14.37	0.612	0.421	1.342	0.737
00000549	14.37	17.82	0.612	0.421	1.342	0.737
00000549S1	0.00	3.97	0.612	0.421	1.342	0.737
00000549S1B1001	0.00	0.03	0.612	0.421	1.342	0.737
00000549S2	1.45	4.09	0.855	0.577	1.263	0.796
00000550	0.00	4.37	2.832	1.492	2.160	1.298

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000550	4.37	5.37	2.832	1.492	2.160	1.298
00000550	5.37	6.23	2.832	1.492	2.160	1.298
00000550	6.23	8.86	2.832	1.492	2.160	1.298
00000550	8.86	9.03	2.832	1.492	2.160	1.298
00000550	9.03	9.31	2.832	1.492	2.160	1.298
00000550	9.31	10.95	2.832	1.492	2.160	1.298
00000550	10.95	13.63	2.832	1.492	2.160	1.298
00000550	13.63	14.44	2.832	1.492	2.160	1.298
00000550	14.44	15.92	2.832	1.492	2.160	1.298
00000550S	0.00	1.43	2.832	1.492	2.160	1.298
00000550S	1.43	2.48	2.832	1.492	2.160	1.298
00000550S	2.60	4.84	2.832	1.492	2.160	1.298
00000551	0.00	4.66	0.455	0.358	0.882	0.590
00000551	5.12	7.83	0.455	0.358	0.882	0.590
00000551	7.83	7.90	0.455	0.358	0.882	0.590
00000551	7.90	11.76	0.455	0.358	0.882	0.590
00000551	11.76	12.29	0.455	0.358	0.882	0.590
00000551	12.29	12.42	0.455	0.358	0.882	0.590
00000551	12.42	15.70	0.455	0.358	0.882	0.590
00000551	15.70	17.01	0.455	0.358	0.882	0.590
00000551	17.01	23.84	0.455	0.358	0.882	0.590
00000551	23.84	24.11	0.455	0.358	0.882	0.590
00000551	24.11	25.50	0.455	0.358	0.882	0.590
00000551	25.50	25.90	0.455	0.358	0.882	0.590
00000551	27.34	27.36	0.455	0.358	0.882	0.590
00000551	27.36	29.08	0.455	0.358	0.882	0.590
00000551	29.46	30.56	0.455	0.358	0.882	0.590
00000551	30.56	32.18	0.455	0.358	0.882	0.590
00000551	32.18	34.57	0.593	0.425	1.146	0.754
00000551S	0.00	1.34	0.455	0.358	0.882	0.590
00000551S	1.34	1.88	0.455	0.358	0.882	0.590
00000551S	1.88	3.35	0.455	0.358	0.882	0.590
00000551S	3.35	4.27	0.382	0.261	0.422	0.289
00000552	0.00	2.90	0.455	0.358	0.882	0.590
00000552	2.90	5.99	0.455	0.358	0.882	0.590
00000552	5.99	10.71	2.832	1.492	2.160	1.298
00000552	5.99	10.71	0.455	0.358	0.882	0.590
00000552	10.71	15.28	2.832	1.492	2.160	1.298
00000552	15.28	18.14	2.832	1.492	2.160	1.298
00000552	18.14	18.15	2.832	1.492	2.160	1.298
00000552	18.15	22.05	2.832	1.492	2.160	1.298
00000552	22.05	27.24	0.802	0.528	1.750	0.976
00000552	27.24	27.48	0.802	0.528	1.750	0.976
00000552S	0.00	1.41	2.832	1.492	2.160	1.298
00000552S	1.41	2.26	2.832	1.492	2.160	1.298
00000552S	2.26	3.41	2.832	1.492	2.160	1.298
00000553	0.00	0.14	2.832	1.492	2.160	1.298
00000553	0.14	12.54	2.832	1.492	2.160	1.298
00000553	12.54	15.37	2.832	1.492	2.160	1.298

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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

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)
00000553	15.37	17.55	2.832	1.492	2.160	1.298
00000553	17.55	18.54	2.832	1.492	2.160	1.298
00000553	18.54	18.73	2.832	1.492	2.160	1.298
00000553	18.73	22.97	2.832	1.492	2.160	1.298
00000553	18.73	22.97	0.455	0.358	0.882	0.590
00000553	22.97	23.78	0.455	0.358	0.882	0.590
00000553	23.78	23.79	0.455	0.358	0.882	0.590
00000553	23.79	25.97	0.455	0.358	0.882	0.590
00000553	25.97	27.44	0.455	0.358	0.882	0.590
00000553	27.56	29.29	0.455	0.358	0.882	0.590
00000553	29.29	31.97	0.455	0.358	0.882	0.590
00000553	31.97	36.64	0.455	0.358	0.882	0.590
00000553	31.97	36.64	0.802	0.528	1.750	0.976
00000553	36.64	39.81	0.455	0.358	0.882	0.590
00000553	39.81	40.23	0.455	0.358	0.882	0.590
00000553	40.23	41.41	0.455	0.358	0.882	0.590
00000553	41.41	41.59	0.455	0.358	0.882	0.590
00000553	41.89	42.19	0.694	0.493	1.252	0.796
00000553	42.19	42.82	0.694	0.493	1.252	0.796
00000553	42.82	43.09	0.694	0.493	1.252	0.796
00000553	43.09	44.25	0.694	0.493	1.252	0.796
00000553	44.25	45.01	0.455	0.358	0.882	0.590
00000553	45.01	48.09	0.455	0.358	0.882	0.590
00000553	48.09	49.32	0.455	0.358	0.882	0.590
00000553	49.32	49.87	0.455	0.358	0.882	0.590
00000553	49.87	50.87	0.455	0.358	0.882	0.590
00000553	50.87	51.22	0.455	0.358	0.882	0.590
00000553A	0.00	0.58	0.455	0.358	0.882	0.590
00000553A	0.58	1.28	0.455	0.358	0.882	0.590
00000553A	1.28	5.37	0.455	0.358	0.882	0.590
00000553A	5.37	6.19	0.455	0.358	0.882	0.590
00000554	0.00	2.29	0.612	0.421	1.342	0.737
00000554	2.29	6.07	0.612	0.421	1.342	0.737
00000555	0.00	6.02	2.832	1.492	2.160	1.298
00000555	6.02	6.44	2.832	1.492	2.160	1.298
00000555	6.44	7.29	2.832	1.492	2.160	1.298
00000555	7.29	7.79	2.832	1.492	2.160	1.298
00000555	7.79	8.30	2.832	1.492	2.160	1.298
00000555	8.30	9.36	2.832	1.492	2.160	1.298
00000555	9.36	9.48	2.832	1.492	2.160	1.298
00000555	9.48	9.70	2.832	1.492	2.160	1.298
00000555	10.05	10.50	2.832	1.492	2.160	1.298
00000555	10.50	10.55	2.832	1.492	2.160	1.298
00000555	10.55	12.32	2.832	1.492	2.160	1.298
00000555	12.32	12.61	2.832	1.492	2.160	1.298
00000555	12.61	16.56	2.832	1.492	2.160	1.298
00000555	16.93	18.60	0.802	0.528	1.750	0.976
00000555	18.60	18.92	0.802	0.528	1.750	0.976
00000555	18.92	19.44	0.802	0.528	1.750	0.976

New Jersey Department of Transportation
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Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000555	19.44	20.25	0.802	0.528	1.750	0.976
00000555	20.25	25.84	0.802	0.528	1.750	0.976
00000555	25.84	26.27	0.802	0.528	1.750	0.976
00000555	26.27	34.20	0.455	0.358	0.882	0.590
00000555	26.27	34.20	0.802	0.528	1.750	0.976
00000557	0.00	2.83	2.832	1.492	2.160	1.298
00000557	2.83	3.10	2.832	1.492	2.160	1.298
00000557	3.51	3.78	2.832	1.492	2.160	1.298
00000557	3.78	6.89	2.832	1.492	2.160	1.298
00000557	6.89	7.67	2.832	1.492	2.160	1.298
00000557	7.67	8.76	2.832	1.492	2.160	1.298
00000557	8.76	9.42	2.832	1.492	2.160	1.298
00000557	12.75	27.60	2.832	1.492	2.160	1.298
00000557	27.60	27.73	0.802	0.528	1.750	0.976
00000557	30.87	31.85	0.802	0.528	1.750	0.976
00000557	31.85	36.15	0.802	0.528	1.750	0.976
00000559	0.00	5.23	2.832	1.492	2.160	1.298
00000559	5.23	6.75	2.832	1.492	2.160	1.298
00000559	6.75	12.05	0.802	0.528	1.750	0.976
00000559	12.05	12.13	0.802	0.528	1.750	0.976
00000559	12.13	14.07	0.802	0.528	1.750	0.976
00000559	14.41	15.06	0.802	0.528	1.750	0.976
00000559	15.06	15.34	0.802	0.528	1.750	0.976
00000559	15.34	18.11	0.802	0.528	1.750	0.976
00000559	18.11	26.30	0.802	0.528	1.750	0.976
00000559	26.30	28.02	0.802	0.528	1.750	0.976
00000559	28.02	29.15	0.802	0.528	1.750	0.976
00000559	29.15	29.64	0.802	0.528	1.750	0.976
00000559	29.64	30.84	0.802	0.528	1.750	0.976
00000559A	0.00	0.68	2.832	1.492	2.160	1.298
00000559A	0.68	7.38	0.802	0.528	1.750	0.976
00000559A	7.38	9.49	0.802	0.528	1.750	0.976
00000560	0.00	2.36	2.268	1.324	3.164	1.909
00000560	2.36	5.05	2.268	1.324	3.164	1.909
00000561	0.00	1.54	0.612	0.421	1.342	0.737
00000561	1.54	4.79	0.612	0.421	1.342	0.737
00000561	4.79	6.05	0.612	0.421	1.342	0.737
00000561	6.05	11.99	0.612	0.421	1.342	0.737
00000561	11.99	19.52	0.802	0.528	1.750	0.976
00000561	19.52	20.53	0.802	0.528	1.750	0.976
00000561	20.53	20.98	0.802	0.528	1.750	0.976
00000561	20.98	22.27	0.802	0.528	1.750	0.976
00000561	22.27	22.71	0.802	0.528	1.750	0.976
00000561	22.71	23.95	0.802	0.528	1.750	0.976
00000561	23.95	24.86	0.802	0.528	1.750	0.976
00000561	23.95	24.86	0.675	0.442	0.670	0.450
00000561	24.86	27.82	0.675	0.442	0.670	0.450
00000561	32.48	33.24	0.675	0.442	0.670	0.450
00000561	33.24	35.78	0.675	0.442	0.670	0.450

New Jersey Department of Transportation
Bureau of Transportation Data and Support
Traffic & Technology Section
Average Equivalency Factors per Vehicle for Heavy and Light Trucks 2024

Equivalent Single Axle Load (ESAL) Design Factors

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

Standard Route ID (SRI)	Mile Post Limit		Avg. ESAL per Vehicle- Light		Avg. ESAL per Vehicle - Heavy	
	MP Start	MP End	Rigid (r)	Flexible (f)	Rigid (r)	Flexible (f)
00000561	36.33	36.76	0.941	0.542	3.248	1.895
00000561	36.76	38.94	0.593	0.425	1.146	0.754
00000561	38.94	39.52	0.593	0.425	1.146	0.754
00000561	39.52	41.19	0.593	0.425	1.146	0.754
00000561	41.19	43.94	0.593	0.425	1.146	0.754
00000561	43.94	44.90	0.593	0.425	1.146	0.754
00000561	44.90	44.96	0.382	0.261	0.422	0.289
00000561	44.96	45.54	0.382	0.261	0.422	0.289
00000561	45.54	45.66	0.382	0.261	0.422	0.289
00000561	45.66	50.52	0.455	0.358	0.882	0.590
00000561	50.52	50.95	0.593	0.425	1.146	0.754
000005611	0.00	0.69	0.382	0.261	0.422	0.289
000005612	0.00	0.17	0.382	0.261	0.422	0.289
000005613	0.00	0.55	0.675	0.442	0.670	0.450
000005614	0.00	0.06	0.382	0.261	0.422	0.289
000005614	0.06	0.56	0.382	0.261	0.422	0.289
00000561A	0.00	1.34	0.612	0.421	1.342	0.737
00000561A	1.34	2.68	0.612	0.421	1.342	0.737
00000561A	2.68	6.04	0.612	0.421	1.342	0.737
00000561A	6.04	6.58	0.612	0.421	1.342	0.737
00000561A	6.58	6.60	0.612	0.421	1.342	0.737
00000561A	6.60	12.19	0.612	0.421	1.342	0.737
00000561A	12.19	14.15	0.802	0.528	1.750	0.976
00000561A	14.15	15.79	0.802	0.528	1.750	0.976
00000563	0.00	0.84	0.612	0.421	1.342	0.737
00000563	0.84	0.96	0.612	0.421	1.342	0.737
00000563	0.96	0.99	0.612	0.421	1.342	0.737
00000563	0.99	3.06	0.612	0.421	1.342	0.737
00000563	3.06	3.36	0.612	0.421	1.342	0.737
00000563	3.36	3.73	0.612	0.421	1.342	0.737
00000563	3.73	4.47	0.612	0.421	1.342	0.737
00000563	4.47	6.27	0.777	0.509	2.119	1.169
00000563	7.14	13.74	0.777	0.509	2.119	1.169
00000563	16.70	19.61	0.802	0.528	1.750	0.976
00000563	19.61	24.23	0.612	0.421	1.342	0.737
00000563	24.23	24.73	0.612	0.421	1.342	0.737
00000563	24.86	39.98	0.612	0.421	1.342	0.737
00000563	40.07	43.87	0.612	0.421	1.342	0.737
00000565	0.00	7.20	2.268	1.324	3.164	1.909
00000565	7.20	8.02	2.268	1.324	3.164	1.909
00000565	8.02	9.40	2.268	1.324	3.164	1.909
00000565	10.07	10.74	2.268	1.324	3.164	1.909
00000565	10.74	17.86	2.268	1.324	3.164	1.909
00000567	0.00	1.21	0.382	0.261	0.422	0.289