

ASPHALT OVERLAYS FOR HIGHWAY AND STREET REHABILITATION

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TABLE III-2 PERCENTAGE OF TOTAL TRUCK TRAFFIC IN
DESIGN LANE

Number of Traffic Lanes (Two Directions)	Percentage of Trucks in Design Lane
2	50
4	45 (35-48)*
6 or more	40 (25-48)*

* Probable range.

TABLE III-3 GROWTH FACTOR*

Design Period, Years (n)	Annual Growth Rate, Percent (g)							
	No Growth	2	4	5	6	7	8	10
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2.02	2.04	2.08	2.09	2.09	2.07	2.06	2.10
3	3.06	3.12	3.18	3.19	3.18	3.21	3.25	3.31
4	4.12	4.25	4.31	4.37	4.44	4.51	4.61	4.64
5	5.20	5.42	5.53	5.64	5.75	5.87	6.11	6.11
6	6.31	6.63	6.80	6.98	7.15	7.34	7.72	7.72
7	7.43	7.90	8.14	8.39	8.65	8.92	9.48	9.48
8	8.58	9.21	9.55	9.89	10.25	10.65	11.44	11.44
9	9.75	10.58	11.03	11.49	11.98	12.49	13.55	13.55
10	10.95	12.01	12.56	13.16	13.82	14.49	16.04	16.04
11	12.17	13.48	14.21	14.97	15.78	16.65	18.53	18.53
12	13.41	15.03	15.92	16.87	17.89	18.98	21.39	21.39
13	14.68	16.63	17.71	18.88	20.14	21.50	24.52	24.52
14	15.97	18.29	19.58	21.01	22.55	24.21	27.97	27.97
15	17.29	20.02	21.58	23.28	25.13	27.15	31.77	31.77
16	18.64	21.82	23.55	25.87	27.89	30.12	36.08	36.08

DISTRIBUTION OF TRUCK FACTORS FOR DIFFERENT CLASSES OF
HIGHWAYS AND VEHICLES*

Vehicle Class	Truck Factors				Urban Systems				All Systems			
	Rural Systems				Urban Systems				All Systems			
	Truckload	Other	Other	All	Truckload	Other	Other	All	Truckload	Other	Other	All
Weight	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
10	0.01-0.06	0.02	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
20	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
30	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
40	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
50	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
60	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
70	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
80	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
90	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03
100	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03	0.01-0.06	0.03

* By the Highway Statistics Division, U.S. Federal Highway Administration
Based on 1970 data

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W.F. Chen, J.Y. Richard Liew



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