

**NATIONAL HIGHWAY SYSTEM LENGTH - 2003**  
**MILES BY VOLUME - SERVICE FLOW RATIO - RURAL 1/**

TABLE HM-42  
SHEET 1 OF 2

OCTOBER 2004

STATE	VOLUME-SERVICE FLOW RATIO (V/SF)																				
	INTERSTATE SYSTEM							OTHER							TOTAL						
	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL
Alabama	-	143	285	85	68	22	603	549	1,119	304	-	4	42	2,018	549	1,262	589	85	72	64	2,621
Alaska	585	266	107	3	17	34	1,012	736	205	13	-	-	-	954	1,321	471	120	3	17	34	1,966
Arizona	214	414	324	9	14	5	980	374	437	216	73	-	11	1,111	588	851	540	82	14	16	2,091
Arkansas	-	156	273	12	20	6	467	637	656	371	68	45	3	1,780	637	812	644	80	65	9	2,247
California 2/	6	433	357	231	269	62	1,358	726	1,321	1,148	146	230	79	3,650	732	1,754	1,505	377	499	141	5,008
Colorado	375	193	109	6	-	-	683	839	473	320	74	74	86	1,866	1,214	666	429	80	74	86	2,549
Connecticut	-	14	14	10	1	4	43	10	61	80	-	2	4	157	10	75	94	10	3	8	200
Delaware	-	-	-	-	-	-	-	11	71	93	17	12	7	211	11	71	93	17	12	7	211
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	327	490	34	74	24	949	336	1,139	181	31	68	55	1,810	336	1,466	671	65	142	79	2,759
Georgia	129	341	306	6	24	-	806	1,766	583	161	24	9	-	2,543	1,895	924	467	30	33	-	3,349
Hawaii	-	-	6	-	-	-	6	-	82	58	5	14	1	160	-	82	64	5	14	1	166
Idaho	238	275	11	-	-	2	526	1,015	554	47	9	3	22	1,650	1,253	829	58	9	3	24	2,176
Illinois	323	782	352	17	-	29	1,503	1,194	577	34	13	2	-	1,820	1,517	1,359	386	30	2	29	3,323
Indiana	91	598	159	-	4	-	852	300	774	242	4	-	4	1,329	391	1,372	401	4	9	4	2,181
Iowa	31	327	232	37	-	1	628	1,021	905	98	-	-	-	2,024	1,052	1,232	330	37	-	1	2,652
Kansas	210	446	19	-	-	-	675	2,062	517	33	-	-	-	2,612	2,272	963	52	-	-	-	3,287
Kentucky	-	139	338	60	13	1	551	778	561	289	53	7	34	1,722	778	700	627	113	20	35	2,273
Louisiana	42	200	279	35	1	-	557	353	686	126	18	1	1	1,185	395	886	405	53	2	1	1,742
Maine	143	115	49	6	-	-	313	170	448	162	1	7	-	788	313	563	211	7	-	-	1,101
Maryland	26	46	23	17	24	47	183	87	168	159	6	8	13	441	113	214	182	23	32	60	624
Massachusetts	10	26	40	-	1	14	91	54	40	54	15	-	-	163	64	66	94	15	1	14	254
Michigan	47	289	260	14	-	-	610	643	1,113	343	1	20	22	2,142	690	1,402	603	15	20	22	2,752
Minnesota	161	181	208	63	27	43	683	645	1,447	433	50	6	3	2,584	806	1,628	641	113	33	46	3,267
Mississippi	58	323	43	38	19	-	481	766	485	229	-	-	-	1,480	824	808	272	38	19	-	1,961
Missouri 3/	24	255	395	54	57	21	806	575	1,684	305	-	2	26	2,592	599	1,939	700	54	59	47	3,398
Montana	906	224	-	-	-	-	1,130	1,984	576	52	-	5	-	2,617	2,890	800	52	-	5	-	3,747
Nebraska	104	242	83	-	-	-	429	1,786	450	13	-	-	-	2,249	1,890	692	96	-	-	-	2,678
Nevada	346	67	36	2	2	27	480	1,087	216	70	14	12	37	1,436	1,433	283	106	16	14	64	1,916
New Hampshire	28	72	52	17	11	5	185	69	186	195	11	12	3	476	97	258	247	28	23	8	661
New Jersey	-	12	20	6	16	11	65	8	65	59	22	58	16	228	8	77	79	28	74	27	293
New Mexico	302	374	184	-	-	7	867	1,067	546	70	-	-	32	1,715	1,369	920	254	-	-	39	2,582
New York	109	325	365	48	64	35	946	538	908	268	27	55	24	1,820	647	1,233	633	75	119	59	2,766
North Carolina	-	87	267	51	122	118	645	185	1,033	749	65	60	147	2,239	185	1,120	1,016	116	182	265	2,884
North Dakota	369	162	-	-	-	-	531	1,987	101	-	-	-	-	2,088	2,356	263	-	-	-	-	2,619
Ohio	41	146	364	67	82	21	721	651	720	178	29	2	4	1,584	692	866	542	96	84	25	2,305
Oklahoma	63	391	194	26	8	1	683	1,371	632	52	-	-	-	2,055	1,434	1,023	246	26	8	1	2,738
Oregon	97	264	198	7	13	1	580	936	1,003	551	68	49	55	2,662	1,033	1,267	749	75	62	56	3,242
Pennsylvania	67	585	378	36	31	9	1,106	642	897	336	31	6	-	1,912	709	1,482	714	67	37	9	3,018
Rhode Island	-	-	6	11	1	1	18	23	18	5	-	-	-	46	23	18	5	6	11	1	64
South Carolina	-	22	360	106	146	34	668	355	638	252	8	8	40	1,301	355	660	612	114	154	74	1,969
South Dakota	264	356	9	-	-	-	629	1,831	313	41	15	-	-	2,200	2,095	669	50	15	-	-	2,829
Tennessee	13	175	373	26	82	13	682	488	607	238	47	45	10	1,435	501	782	611	73	127	23	2,117
Texas	916	612	531	58	72	3	2,192	3,270	2,478	594	102	25	11	6,480	4,186	3,090	1,125	160	97	14	8,672
Utah	349	307	111	1	-	1	769	302	498	119	5	13	76	1,013	651	805	230	6	13	77	1,782
Vermont	95	110	75	-	1	-	281	32	177	106	-	4	-	319	127	287	181	-	5	-	600
Virginia	56	249	326	6	31	-	668	962	298	92	-	-	9	1,361	1,018	547	418	6	31	9	2,029
Washington	6	290	156	25	19	5	501	794	1,018	227	31	18	32	2,120	800	1,308	383	56	37	37	2,621
West Virginia	91	223	142	-	-	-	456	507	419	107	2	32	6	1,073	598	642	249	2	32	6	1,529
Wisconsin	-	34	321	112	48	-	515	336	1,827	312	-	16	55	2,546	336	1,861	633	112	64	55	3,061
Wyoming	532	275	20	-	-	-	827	1,407	342	171	21	7	8	1,956	1,939	617	191	21	7	8	2,783
U.S. Total	7,467	11,893	9,244	1,337	1,392	607	31,940	38,265	32,072	10,356	1,106	946	978	83,723	45,732	43,965	19,600	2,443	2,338	1,585	115,663
Puerto Rico	3	6	12	-	8	2	31	13	14	-	-	-	-	27	16	20	12	-	8	2	58
Grand Total	7,470	11,899	9,256	1,337	1,400	609	31,971	38,278	32,086	10,356	1,106	946	978	83,750	45,748	43,985	19,612	2,443	2,346	1,587	115,721

For footnotes, see Footnotes Page.

**NATIONAL HIGHWAY SYSTEM LENGTH - 2003**  
**MILES BY VOLUME - SERVICE FLOW RATIO - URBAN 1/**

TABLE HM-42  
 SHEET 2 OF 2

OCTOBER 2004

STATE	VOLUME-SERVICE FLOW RATIO (V/SF)																				
	INTERSTATE SYSTEM							OTHER							TOTAL						
	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL	< 0.21	0.21-0.40	0.41-0.70	0.71-0.79	0.80-0.95	> 0.95	TOTAL
Alabama	-	37	131	29	36	58	291	70	310	225	28	25	29	687	70	347	356	57	61	87	978
Alaska	6	35	25	1	3	-	70	18	24	15	5	6	8	76	24	59	40	6	9	8	146
Arizona	1	47	63	15	19	42	187	33	150	161	46	48	10	448	34	197	224	61	67	52	635
Arkansas	-	36	70	33	18	31	188	72	61	76	4	20	16	249	72	97	146	37	38	47	437
California 2/	-	36	141	137	290	497	1,101	57	200	434	95	289	434	1,509	57	236	575	232	579	931	2,610
Colorado	29	64	78	20	20	45	256	90	201	281	39	93	35	739	119	265	359	59	113	80	995
Connecticut	-	12	89	48	110	43	302	18	98	202	52	50	40	460	18	110	291	100	160	83	762
Delaware	-	-	15	11	11	3	40	3	9	41	7	4	4	68	3	9	56	18	15	7	108
Dist. of Columbia	-	-	6	1	-	5	12	-	3	31	8	19	8	69	-	3	37	9	19	13	81
Florida	2	17	199	34	129	115	496	55	279	451	122	105	47	1,059	57	296	650	156	234	162	1,555
Georgia	5	61	180	83	63	44	436	302	330	157	5	2	18	814	307	391	337	88	65	62	1,250
Hawaii	2	8	21	6	5	6	48	5	25	73	8	5	8	124	7	33	94	14	10	14	172
Idaho	5	29	22	7	8	14	85	17	39	34	2	6	5	103	22	68	56	9	14	19	188
Illinois	5	146	132	47	52	275	657	126	394	804	98	202	55	1,679	131	540	936	145	254	330	2,336
Indiana	6	93	136	16	43	23	317	29	129	136	34	33	6	367	35	222	272	50	76	29	684
Iowa	2	22	77	9	30	13	153	162	178	58	3	7	-	408	164	200	135	12	37	13	561
Kansas	10	58	72	9	10	21	180	72	102	45	5	7	12	243	82	160	117	14	17	33	423
Kentucky	-	17	66	34	48	45	210	20	132	131	28	46	36	393	20	149	197	62	94	81	603
Louisiana	19	11	95	36	18	58	237	45	129	125	16	69	100	484	64	140	220	52	87	158	721
Maine	14	21	15	3	1	-	54	7	74	44	4	4	2	135	21	95	59	7	5	2	189
Maryland	1	15	54	30	85	112	297	11	91	272	27	49	49	499	12	106	326	57	134	161	796
Massachusetts	4	64	170	51	76	112	477	55	341	478	86	153	103	1,216	59	405	648	137	229	215	1,693
Michigan	13	72	269	65	127	86	632	82	313	663	102	125	63	1,348	95	385	932	167	252	149	1,980
Minnesota	5	9	34	13	61	108	230	47	96	143	31	75	82	474	52	105	177	44	136	190	704
Mississippi	11	47	79	21	23	23	204	71	150	114	20	14	24	393	82	197	193	41	37	47	597
Missouri 3/	5	43	103	59	77	87	374	58	173	264	49	31	34	609	63	216	367	108	108	121	983
Montana	21	37	3	-	-	-	61	10	24	29	3	-	-	66	31	61	32	3	-	-	127
Nebraska	2	7	26	6	8	4	53	31	84	88	12	16	13	244	33	91	114	18	24	17	297
Nevada	12	4	12	21	15	14	78	6	29	29	9	20	11	104	18	33	41	30	35	25	182
New Hampshire	4	2	21	9	4	11	51	6	31	53	8	8	8	114	10	33	74	17	12	19	165
New Jersey	1	18	87	50	68	142	366	88	192	418	130	176	358	1,362	89	210	505	180	244	500	1,728
New Mexico	18	50	40	9	8	7	132	102	80	27	2	6	1	218	120	130	67	11	14	8	350
New York	23	126	230	81	72	195	727	96	331	724	103	117	270	1,641	119	457	954	184	189	465	2,368
North Carolina	-	3	96	65	78	132	374	37	88	213	39	81	38	496	37	91	309	104	159	170	870
North Dakota	18	16	7	-	-	-	41	27	21	12	-	1	-	61	45	37	19	-	1	-	102
Ohio	8	48	253	103	225	210	847	258	451	351	70	58	25	1,213	266	499	604	173	283	235	2,060
Oklahoma	9	68	88	24	28	30	247	98	150	61	11	16	31	367	107	218	149	35	44	61	614
Oregon	10	17	39	12	39	28	145	32	77	143	31	33	36	352	42	94	182	43	72	64	497
Pennsylvania	18	83	307	73	70	100	651	157	625	707	73	157	77	1,796	175	708	1,014	146	227	177	2,447
Rhode Island	-	-	20	-	3	26	49	10	36	68	7	20	9	150	10	36	88	7	23	35	199
South Carolina	2	3	64	26	27	33	155	24	107	202	52	48	39	472	26	110	266	78	75	72	627
South Dakota	3	33	14	-	-	-	50	17	19	17	3	2	3	61	20	52	31	3	2	3	111
Tennessee	3	41	170	25	51	100	390	53	282	249	44	69	24	721	56	323	419	69	120	124	1,111
Texas	39	123	278	122	220	260	1,042	468	845	1,310	216	294	535	3,668	507	968	1,588	338	514	795	4,710
Utah	6	16	60	20	32	33	167	7	79	100	13	17	9	225	13	95	160	33	49	42	392
Vermont	4	15	19	-	2	-	40	6	16	23	2	4	5	56	10	31	42	2	6	5	96
Virginia	19	29	182	30	75	78	413	86	315	354	67	82	52	956	105	344	536	97	157	130	1,369
Washington	-	22	98	28	80	35	263	58	167	160	44	66	29	524	58	189	258	72	146	64	787
West Virginia	-	34	55	3	2	-	94	11	55	29	12	7	2	116	11	89	84	15	9	2	210
Wisconsin	-	21	111	34	37	26	229	52	339	302	54	47	51	845	52	360	413	88	84	77	1,074
Wyoming	50	37	1	-	-	-	88	53	23	6	-	-	-	82	103	60	7	-	-	-	170
U.S. Total	415	1,853	4,623	1,559	2,507	3,330	14,287	3,318	8,497	11,133	1,929	2,832	2,854	30,563	3,733	10,350	15,756	3,488	5,339	6,184	44,850
Puerto Rico	4	41	113	20	28	27	233	12	14	40	8	19	12	105	16	55	153	28	47	39	338
Grand Total	419	1,894	4,736	1,579	2,535	3,357	14,520	3,330	8,511	11,173	1,937	2,851	2,866	30,668	3,749	10,405	15,909	3,516	5,386	6,223	45,188

For footnotes, see Footnotes Page.

# NATIONAL HIGHWAY SYSTEM LENGTH - 2003

## MILES BY VOLUME - SERVICE FLOW RATIO

HM-42 Footnotes Page:

- 1/ In 2001, updated capacity (service flow) calculation procedures were instituted in the HPMS data reporting process. The procedures are based on the Highway Capacity Manual published by the Transportation Research Board. For multilane facilities volume-service flow ratio is determined by dividing the peak traffic in the peak direction by the capacity. For all other facilities the ratio is determined by dividing the peak traffic by the capacity. Peak traffic is estimated as  $AADT * K$ , where K is the design hour volume (DHV) as a percent of AADT. Some differences from other tables may be noted because these are estimated from sample data and do not include samples entirely on street.
- 2/ California has been asked to review their 2003 data and may resubmit pending the resolution of review findings.
- 3/ 2002 data used.