

FUNCTIONAL SYSTEM LENGTH - 1998 1/

MILES BY VOLUME - SERVICE FLOW RATIO - RURAL

TABLE HM-61
SHEET 1 OF 4

OCTOBER 1999

STATE	VOLUME-SERVICE FLOW RATIO (V/SF)													
	INTERSTATE							OTHER PRINCIPAL ARTERIAL						
	< 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	-	167	377	33	16	9	602	863	955	248	9	-	-	2,075
Alaska	615	300	83	-	20	11	1,029	639	166	3	-	-	-	808
Arizona	681	303	12	-	-	-	996	566	448	156	-	10	6	1,186
Arkansas	-	144	234	1	13	2	394	753	821	457	74	119	6	2,230
California	198	389	566	85	97	23	1,358	736	1,239	1,405	116	76	101	3,673
Colorado	217	318	87	45	48	55	770	683	861	418	130	45	63	2,200
Connecticut	-	38	42	17	4	2	103	32	69	104	21	25	11	262
Delaware	-	-	-	-	-	-	-	8	77	113	6	11	4	219
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	6	412	445	60	19	12	954	1,531	1,783	346	2	37	8	3,707
Georgia	179	399	191	20	1	-	790	2,007	482	266	8	14	12	2,789
Hawaii	-	-	6	-	-	-	6	-	39	61	7	18	-	125
Idaho	244	257	24	-	-	2	527	634	770	238	13	6	12	1,673
Illinois	320	896	272	2	18	10	1,518	1,661	929	19	17	-	5	2,631
Indiana	92	588	140	32	-	-	852	315	834	483	21	42	13	1,708
Iowa	113	263	216	40	1	1	634	1,819	1,433	169	5	1	-	3,427
Kansas	237	393	68	-	-	-	698	2,235	811	124	-	-	-	3,170
Kentucky	-	125	182	89	97	42	535	750	811	247	66	125	49	2,048
Louisiana	128	150	265	1	3	-	547	411	545	250	5	6	10	1,227
Maine	129	85	69	-	17	13	313	240	315	195	36	1	-	787
Maryland	-	38	94	30	40	28	230	74	199	190	49	32	3	547
Massachusetts	12	41	66	6	32	5	162	78	126	57	46	-	4	311
Michigan	116	298	270	22	27	7	740	850	1,268	459	56	68	60	2,761
Minnesota	223	102	275	25	20	36	681	1,044	1,599	679	94	93	66	3,575
Mississippi	134	282	125	9	7	-	557	1,219	552	70	2	-	8	1,851
Missouri	9	297	385	55	28	33	807	904	1,665	441	21	20	50	3,101
Montana	921	213	-	-	-	-	1,134	2,050	448	120	4	-	-	2,622
Nebraska	104	267	63	3	-	-	437	2,197	492	23	-	4	-	2,716
Nevada	363	58	32	6	21	-	480	1,095	213	64	3	14	1	1,390
New Hampshire	31	45	79	4	4	14	177	21	160	192	33	25	25	456
New Jersey	-	2	54	18	17	28	119	29	110	94	65	108	126	532
New Mexico	403	327	141	7	4	10	892	922	712	150	6	-	8	1,798
New York	62	317	319	15	77	5	795	652	902	335	33	46	30	1,998
North Carolina	-	156	345	74	33	27	635	473	1,016	521	85	64	75	2,234
North Dakota	503	27	-	-	-	-	530	2,876	53	-	-	-	-	2,929
Ohio	2	132	495	100	100	1	830	837	900	371	31	65	21	2,225
Oklahoma	97	388	184	31	11	9	720	1,599	606	159	1	1	-	2,366
Oregon	98	291	174	-	11	6	580	932	1,013	616	78	91	98	2,828
Pennsylvania	67	710	370	10	41	3	1,201	771	1,112	497	48	45	21	2,494
Rhode Island	-	-	4	15	2	1	22	42	8	12	-	3	1	66
South Carolina	-	55	438	64	69	45	671	514	571	330	17	12	10	1,454
South Dakota	398	224	7	-	-	-	629	2,044	443	44	2	6	-	2,539
Tennessee	17	221	434	3	55	3	733	531	962	264	46	8	7	1,818
Texas	840	758	386	64	112	56	2,216	3,549	2,368	811	41	74	18	6,861
Utah	442	273	55	-	-	-	770	400	289	232	17	21	50	1,009
Vermont	83	154	43	-	-	-	280	29	163	116	9	-	-	317
Virginia	-	107	340	123	89	52	711	567	690	237	18	8	31	1,551
Washington	44	158	201	57	26	16	502	949	886	193	25	14	12	2,079
West Virginia	59	222	175	-	-	-	456	662	342	63	14	-	-	1,081
Wisconsin	22	119	280	83	42	27	573	491	1,710	1,028	96	24	12	3,361
Wyoming	541	273	12	-	-	-	826	1,377	500	97	4	3	5	1,986
U.S. Total	8,750	11,782	9,125	1,249	1,222	594	32,722	45,661	35,466	13,767	1,480	1,385	1,042	98,801
Puerto Rico	4	41	44	11	1	-	101	17	49	28	-	3	1	98
Grand Total	8,754	11,823	9,169	1,260	1,223	594	32,823	45,678	35,515	13,795	1,480	1,388	1,043	98,899

**FUNCTIONAL SYSTEM LENGTH - 1998 1/
MILES BY VOLUME - SERVICE FLOW RATIO - RURAL**

TABLE HM-61
SHEET 2 OF 4

OCTOBER 1999

STATE	VOLUME SERVICE FLOW RATIO (V/SF)													
	MINOR ARTERIAL							MAJOR COLLECTOR						
	< 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	2,722	808	116	11	36	-	3,693	11,308	288	111	13	-	-	11,720
Alaska	417	9	-	-	10	-	436	1,319	90	11	-	-	1	1,421
Arizona	686	417	67	67	15	5	1,257	4,015	363	95	22	-	11	4,506
Arkansas	1,679	1,023	201	13	20	13	2,949	11,897	524	74	1	21	1	12,518
California	4,015	1,772	691	127	150	145	6,900	10,903	1,565	388	76	20	49	13,001
Colorado	2,515	517	551	6	85	7	3,681	5,672	263	45	9	1	3	5,993
Connecticut	167	214	78	33	-	6	498	917	183	84	-	27	-	1,211
Delaware	19	52	13	5	1	15	105	338	145	58	3	3	5	552
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	1,788	624	152	3	-	15	2,582	3,950	400	8	-	-	10	4,368
Georgia	4,705	747	149	-	-	1	5,602	12,473	908	202	19	9	75	13,686
Hawaii	179	118	39	7	17	15	375	244	82	26	-	-	-	352
Idaho	994	240	61	1	13	-	1,309	5,253	61	28	-	4	-	5,346
Illinois	3,647	973	209	-	-	-	4,829	13,248	914	12	-	-	17	14,191
Indiana	851	1,056	307	4	11	6	2,235	7,498	2,802	405	13	13	-	10,731
Iowa	3,511	427	18	-	-	-	3,956	13,803	476	13	-	4	-	14,296
Kansas	4,017	272	3	-	-	2	4,294	22,749	254	4	3	4	-	23,014
Kentucky	611	752	194	22	19	10	1,608	5,215	1,289	348	34	74	23	6,983
Louisiana	695	633	175	15	-	38	1,556	5,886	830	68	50	5	7	6,846
Maine	488	369	154	33	27	-	1,071	2,737	379	105	5	-	-	3,226
Maryland	196	417	268	54	3	15	953	1,224	503	69	28	22	10	1,856
Massachusetts	381	208	64	11	5	1	670	1,638	142	7	-	9	1	1,797
Michigan	1,962	1,422	579	58	55	5	4,081	14,690	2,002	276	-	-	20	16,988
Minnesota	4,916	892	409	1	44	21	6,283	15,788	353	128	18	8	17	16,312
Mississippi	3,248	648	10	5	5	-	3,916	11,553	442	89	11	2	4	12,101
Missouri	2,290	992	134	9	16	6	3,447	17,184	633	41	-	13	40	17,911
Montana	2,897	81	7	-	-	-	2,985	6,998	24	23	19	-	-	7,064
Nebraska	4,022	130	45	-	2	-	4,199	11,408	103	19	5	-	4	11,539
Nevada	671	24	8	20	1	1	725	2,095	132	7	2	-	1	2,237
New Hampshire	170	208	72	5	7	23	485	821	216	76	17	29	3	1,162
New Jersey	116	117	164	9	32	53	491	1,064	307	175	15	9	11	1,581
New Mexico	1,247	427	182	-	9	1	1,866	3,495	361	111	4	-	8	3,979
New York	2,100	1,650	306	-	56	6	4,118	4,751	1,203	118	13	5	6	6,096
North Carolina	894	1,152	770	66	60	60	3,002	6,207	1,359	634	145	79	242	8,666
North Dakota	2,507	7	-	-	-	-	2,514	11,275	-	-	-	-	-	11,275
Ohio	1,032	1,029	693	-	69	7	2,830	9,337	1,757	449	254	33	47	11,877
Oklahoma	2,367	364	15	-	-	3	2,749	20,891	406	51	-	-	-	21,348
Oregon	1,759	289	161	-	1	2	2,212	8,527	554	43	16	-	3	9,143
Pennsylvania	2,554	2,088	299	95	20	49	5,105	6,996	901	130	-	36	-	8,063
Rhode Island	46	27	3	-	-	-	76	163	11	2	-	-	-	176
South Carolina	1,806	1,213	591	7	12	32	3,661	7,212	624	257	41	4	-	8,138
South Dakota	3,271	66	9	-	5	-	3,351	12,255	179	25	5	1	-	12,465
Tennessee	1,791	1,163	447	-	9	1	3,411	4,604	619	66	13	61	-	5,363
Texas	6,843	2,421	309	41	26	3	9,643	33,382	1,879	385	2	31	5	35,684
Utah	1,055	359	68	32	19	3	1,536	3,018	232	57	1	-	6	3,314
Vermont	281	320	103	17	8	5	734	1,653	258	79	-	2	-	1,992
Virginia	1,107	1,634	656	-	24	3	3,424	7,614	1,358	690	43	34	-	9,739
Washington	1,530	346	77	7	12	5	1,977	7,553	739	66	-	22	-	8,380
West Virginia	873	414	215	7	16	9	1,534	5,257	606	122	2	-	12	5,999
Wisconsin	2,368	2,248	337	4	25	4	4,986	13,093	407	24	-	-	24	13,548
Wyoming	1,191	115	9	-	4	-	1,319	2,370	63	3	-	-	-	2,436
U.S. Total	91,197	33,494	10,188	795	949	596	137,219	393,541	30,189	6,307	902	585	666	432,190
Puerto Rico	48	107	96	22	15	1	289	505	181	85	18	6	3	798
Grand Total	91,245	33,601	10,284	817	964	597	137,508	394,046	30,370	6,392	920	591	669	432,988

**FUNCTIONAL SYSTEM LENGTH - 1998 1/
MILES BY VOLUME - SERVICE FLOW RATIO - URBAN**

TABLE HM-61
SHEET 3 OF 4

OCTOBER 1999

STATE	VOLUME-SERVICE FLOW RATIO (V/SF)																				
	INTERSTATE							OTHER FREEWAYS AND EXPRESSWAYS							OTHER PRINCIPAL ARTERIAL						
	< 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	-	57	142	27	44	33	303	1	-	10	4	2	3	20	131	441	289	45	53	38	997
Alaska	1	10	31	5	4	2	53	-	-	-	-	-	-	-	5	20	14	5	3	10	57
Arizona	34	63	42	17	7	11	174	10	39	18	6	13	14	100	121	293	370	122	57	65	1,028
Arkansas	-	42	69	6	7	23	147	18	40	33	11	1	10	113	61	242	171	35	41	30	580
California	20	38	264	113	250	384	1,069	32	181	437	170	289	288	1,397	377	1,340	2,524	633	454	516	5,844
Colorado	33	20	44	19	20	49	185	8	58	58	11	49	38	222	99	216	301	53	106	81	856
Connecticut	-	15	86	37	60	47	245	13	34	94	6	23	28	198	22	131	279	50	51	73	606
Delaware	-	-	27	3	3	8	41	-	7	2	2	-	-	11	8	43	64	10	8	1	134
Dist. of Columbia	-	1	3	1	5	2	12	-	2	3	3	8	2	18	-	14	37	19	11	14	95
Florida	3	50	208	71	67	110	509	-	78	215	16	30	30	369	227	775	1,142	239	198	101	2,682
Georgia	10	120	176	73	34	21	434	52	60	28	14	9	1	164	471	511	518	35	63	154	1,752
Hawaii	2	9	19	4	9	6	49	-	6	15	1	7	5	34	5	33	61	20	28	8	155
Idaho	5	32	29	6	7	7	86	-	-	-	-	-	-	-	47	84	73	13	19	21	257
Illinois	15	143	173	29	97	183	640	21	18	19	10	3	7	78	196	650	976	224	324	227	2,597
Indiana	4	130	138	14	7	27	320	32	62	24	5	-	11	134	107	394	537	133	224	148	1,543
Iowa	4	37	75	8	14	9	147	-	-	-	-	-	-	-	278	338	71	7	5	5	704
Kansas	20	41	80	16	9	8	174	35	42	45	3	6	3	134	143	291	152	24	18	21	649
Kentucky	1	15	109	19	33	50	227	27	30	18	3	10	5	93	33	168	210	40	77	124	652
Louisiana	19	48	92	13	37	25	234	5	5	15	4	2	3	34	102	215	204	53	67	172	813
Maine	6	23	18	1	3	1	52	2	10	5	1	-	-	18	12	61	65	9	11	16	174
Maryland	1	9	64	35	98	44	251	13	27	98	9	70	18	235	35	191	372	62	77	122	859
Massachusetts	1	62	152	44	73	72	404	9	62	81	13	34	7	206	62	363	497	153	218	262	1,555
Michigan	11	53	178	70	105	82	499	14	49	66	40	21	33	223	160	504	721	144	266	176	1,971
Minnesota	4	13	46	19	71	75	228	-	17	34	25	16	46	138	83	201	127	30	34	47	522
Mississippi	1	43	49	20	12	3	128	13	28	-	-	-	-	41	80	232	225	34	40	16	627
Missouri	4	55	120	38	103	52	372	55	86	116	21	26	15	319	131	412	375	22	52	54	1,046
Montana	29	28	-	-	-	-	57	-	-	-	-	-	-	57	39	59	58	3	10	5	174
Nebraska	2	11	21	-	9	1	44	-	6	8	-	3	-	17	90	126	124	24	24	29	417
Nevada	12	9	23	17	12	13	86	5	7	7	7	2	9	37	18	78	92	11	16	15	230
New Hampshire	-	4	23	7	3	11	48	-	7	25	1	2	5	40	8	38	82	6	33	6	173
New Jersey	-	7	121	16	68	90	302	19	30	123	31	35	73	311	34	143	464	59	132	477	1,309
New Mexico	25	46	13	4	5	15	108	3	-	-	-	-	-	3	201	159	76	26	24	31	517
New York	24	144	272	30	103	128	701	94	215	257	20	36	166	788	176	515	899	170	297	416	2,473
North Carolina	4	6	158	54	53	79	354	25	56	97	20	28	61	287	86	312	483	123	152	211	1,367
North Dakota	27	9	5	-	-	-	41	-	-	-	-	-	-	-	53	70	36	2	2	-	163
Ohio	3	37	241	81	188	191	741	40	162	113	17	30	16	378	210	662	624	153	187	130	1,966
Oklahoma	9	50	89	21	16	24	209	41	18	30	11	24	11	135	285	304	133	19	37	23	801
Oregon	12	16	36	14	35	29	142	-	3	23	3	10	13	52	85	252	252	34	18	22	663
Pennsylvania	12	89	282	27	60	79	549	56	187	143	37	39	19	481	126	572	857	240	170	286	2,251
Rhode Island	-	4	18	-	7	18	47	6	8	37	6	7	3	67	50	120	99	37	20	12	338
South Carolina	1	4	62	14	44	31	156	7	17	17	2	18	7	68	34	183	298	44	57	82	698
South Dakota	11	22	16	-	-	-	49	-	-	-	-	-	-	-	48	38	42	2	2	-	132
Tennessee	2	54	95	46	56	87	340	5	30	53	4	13	10	115	66	405	520	72	102	148	1,313
Texas	49	129	286	96	251	207	1,018	94	240	369	177	202	140	1,222	930	1,445	1,549	300	339	276	4,839
Utah	23	21	85	24	6	8	167	-	3	3	-	3	-	9	16	90	117	18	19	18	278
Vermont	6	17	17	-	-	-	40	2	10	5	-	1	1	19	2	17	47	5	20	7	98
Virginia	21	40	123	36	104	59	383	19	29	73	31	17	12	181	111	306	389	33	93	158	1,090
Washington	3	29	55	48	81	46	262	20	51	121	30	29	62	313	84	260	363	103	89	200	1,099
West Virginia	-	42	45	5	2	-	94	7	2	-	-	-	-	9	25	76	66	13	15	6	201
Wisconsin	2	44	44	14	22	36	162	7	50	61	30	20	6	174	175	397	420	106	73	149	1,320
Wyoming	65	22	-	-	-	-	87	3	-	-	-	-	-	3	104	58	35	3	4	-	204
U.S. Total	541	2,013	4,564	1,262	2,304	2,486	13,170	813	2,072	2,999	805	1,138	1,181	9,008	6,052	14,848	18,500	3,820	4,440	5,209	52,869
Puerto Rico	1	27	78	9	21	10	146	5	9	17	2	8	7	48	10	30	84	28	34	55	241
Grand Total	542	2,040	4,642	1,271	2,325	2,496	13,316	818	2,081	3,016	807	1,146	1,188	9,056	6,062	14,878	18,584	3,848	4,474	5,264	53,110

**FUNCTIONAL SYSTEM LENGTH - 1998 1/
MILES BY VOLUME - SERVICE FLOW RATIO - URBAN**

TABLE HM-6
SHEET 4 OF

OCTOBER 1999

STATE	VOLUME SERVICE FLOW RATIO (V/SF)													
	MINOR ARTERIAL							COLLECTOR						
	< 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	960	708	264	18	38	-	1,988	1,600	342	119	56	4	40	2,161
Alaska	63	60	52	4	11	12	202	150	49	20	5	-	4	228
Arizona	343	391	338	66	52	86	1,276	1,062	286	272	38	67	25	1,750
Arkansas	508	284	186	32	40	31	1,081	760	103	55	-	4	3	925
California	1,924	3,108	3,464	530	584	626	10,236	4,337	2,695	1,890	325	440	287	9,974
Colorado	445	432	349	74	97	31	1,428	671	414	187	20	9	18	1,319
Connecticut	310	518	414	84	86	71	1,483	604	373	137	20	44	12	1,190
Delaware	18	64	60	6	4	6	158	63	84	51	16	5	5	224
Dist. of Columbia	5	45	72	8	10	10	150	27	51	58	6	5	9	156
Florida	567	929	1,012	149	202	197	3,056	1,994	1,742	1,372	171	217	328	5,824
Georgia	982	1,043	721	56	63	103	2,968	747	558	497	26	64	230	2,122
Hawaii	8	33	39	6	7	15	108	81	64	89	22	34	49	339
Idaho	161	175	124	24	22	6	512	333	109	85	17	4	8	556
Illinois	631	903	1,116	260	384	512	3,806	1,482	748	724	189	138	494	3,775
Indiana	278	562	893	141	163	386	2,423	1,098	567	308	45	78	106	2,202
Iowa	449	493	280	33	86	22	1,363	496	289	130	13	17	1	946
Kansas	401	297	244	39	53	39	1,073	682	201	67	17	8	41	1,016
Kentucky	267	343	311	63	62	120	1,166	517	357	184	29	13	54	1,154
Louisiana	412	333	444	76	71	184	1,520	447	253	149	25	68	32	974
Maine	27	108	90	14	25	16	280	222	103	86	24	21	26	482
Maryland	182	280	487	99	63	85	1,196	584	299	210	46	63	119	1,321
Massachusetts	848	1,053	625	156	276	149	3,107	1,335	599	320	76	193	9	2,532
Michigan	654	845	1,024	166	252	456	3,397	1,280	636	460	39	74	52	2,541
Minnesota	462	737	521	93	106	219	2,138	797	432	224	8	43	31	1,535
Mississippi	170	225	200	38	21	18	672	456	379	115	18	4	9	981
Missouri	554	667	338	23	73	133	1,788	865	365	247	55	29	48	1,609
Montana	96	82	39	2	3	4	226	215	57	19	-	5	-	296
Nebraska	154	165	101	35	46	40	541	153	133	83	10	13	23	415
Nevada	119	184	139	25	24	32	523	413	137	97	21	54	12	734
New Hampshire	68	143	150	20	22	29	432	99	85	61	10	12	13	280
New Jersey	621	1,054	868	99	261	178	3,081	713	686	481	118	42	124	2,164
New Mexico	150	86	62	12	4	17	331	307	97	50	5	1	-	460
New York	644	1,637	1,576	414	350	375	4,996	937	1,051	1,203	137	128	584	4,040
North Carolina	433	674	729	115	185	195	2,331	948	325	245	36	50	75	1,679
North Dakota	114	84	53	8	3	5	267	147	53	21	1	2	1	225
Ohio	665	843	1,320	192	184	264	3,468	1,362	1,216	623	103	89	112	3,505
Oklahoma	1,213	412	200	50	38	7	1,920	824	138	19	1	1	-	983
Oregon	496	322	215	31	16	16	1,096	884	243	96	9	26	20	1,278
Pennsylvania	471	1,023	1,192	115	138	346	3,285	1,517	1,225	560	91	108	237	3,738
Rhode Island	58	156	117	7	11	6	355	379	119	32	-	-	-	530
South Carolina	118	291	301	81	120	82	993	694	381	220	23	71	71	1,460
South Dakota	138	80	47	5	3	-	273	138	26	24	5	1	5	199
Tennessee	349	599	811	78	82	196	2,115	699	482	297	71	37	70	1,656
Texas	1,688	2,182	1,719	402	620	306	6,917	4,392	2,084	1,589	308	340	89	8,802
Utah	87	197	150	26	27	23	510	258	125	118	31	8	9	549
Vermont	21	77	32	1	17	2	150	105	61	34	13	-	1	214
Virginia	976	334	374	57	78	127	1,946	1,480	199	100	26	37	22	1,864
Washington	624	605	535	144	70	162	2,140	964	551	319	45	76	82	2,037
West Virginia	78	125	107	28	41	38	417	332	64	34	4	8	6	448
Wisconsin	434	737	458	127	103	138	1,997	855	438	160	11	24	12	1,500
Wyoming	76	55	20	-	1	2	154	369	67	33	1	10	4	484
U.S. Total	21,520	26,783	24,983	4,332	5,298	6,123	89,039	41,874	22,141	14,574	2,386	2,789	3,612	87,376
Puerto Rico	69	118	157	31	69	65	509	239	163	133	7	15	46	603
Grand Total	21,589	26,901	25,140	4,363	5,367	6,188	89,548	42,113	22,304	14,707	2,393	2,804	3,658	87,979

1/ In 1995, updated capacity (service flow) calculation procedures were instituted in the HPMS data reporting process. The procedures are based on the Highway Capacity Manual, Third Edition, 1994, published by the Transportation Research Board. Some differences from other tables may be noted because these values are estimated from sample data and do not include structures.