

**FUNCTIONAL SYSTEM LENGTH - 2009 1/  
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 1 OF 3

FEBRUARY 2012

STATE	RURAL MAJOR COLLECTOR												TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama 4/	15	4,288	6,142	909	375	11,729	-	-	-	-	-	-	11,729
Alaska	11	296	395	146	38	886	-	-	-	-	-	-	886
Arizona 4/	570	549	1,402	243	49	2,813	789	185	187	91	63	1,315	4,128
Arkansas 4/	-	1,171	6,050	2,589	-	9,810	-	687	699	691	718	2,795	12,605
California	131	2,196	5,123	2,004	1,210	10,664	924	100	714	109	-	1,847	12,511
Colorado 5/	-	1,014	1,344	193	1	2,552	373	652	742	235	83	2,085	4,637
Connecticut	-	88	463	233	91	875	70	5	-	-	-	75	950
Delaware	43	228	140	21	18	450	-	-	-	-	-	-	450
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida 5/	94	630	42	-	-	766	506	548	2,046	156	96	3,352	4,118
Georgia	1,767	138	7	-	1	1,913	1,463	2,095	4,581	1,145	-	9,284	11,197
Hawaii	4	6	212	75	23	320	-	-	-	-	-	-	320
Idaho	89	814	585	25	13	1,527	336	836	2,494	332	-	3,999	5,526
Illinois	621	-	-	-	-	621	1,807	2,994	4,295	3,154	-	12,249	12,870
Indiana	1,054	2,558	4,691	526	19	8,849	97	319	299	225	-	939	9,787
Iowa	637	1,614	3,875	1,018	315	7,459	283	2,670	2,382	182	-	5,517	12,976
Kansas 5/	651	1,845	1,956	4	-	4,456	110	2,185	15	5,284	536	8,130	12,586
Kentucky	38	1,213	4,869	76	23	6,219	-	-	-	-	-	-	6,219
Louisiana	178	1,734	2,011	613	141	4,677	-	-	-	-	-	-	4,677
Maine	55	596	1,550	605	411	3,218	-	-	-	-	-	-	3,218
Maryland	108	407	619	181	47	1,362	-	-	-	-	-	-	1,362
Massachusetts	743	116	145	138	1	1,143	-	-	-	-	-	-	1,143
Michigan	-	-	-	-	-	-	3,806	1,604	6,487	700	943	13,541	13,541
Minnesota 4/	5,332	5,473	4,165	730	-	15,700	-	-	-	-	-	-	15,700
Mississippi	53	1,002	8,752	1,493	314	11,614	-	-	-	-	-	-	11,614
Missouri	20	650	11,257	4,215	282	16,425	-	-	-	-	-	-	16,425
Montana	186	2,270	2,039	144	80	4,719	5	-	148	149	28	330	5,049
Nebraska	718	1,120	1,023	221	5	3,087	1,206	827	955	151	121	3,259	6,347
Nevada	309	514	1,105	53	12	1,994	-	-	-	-	-	-	1,994
New Hampshire 4/	23	179	541	169	181	1,093	-	-	1	-	-	1	1,094
New Jersey	-	16	444	111	4	576	92	9	290	-	-	391	966
New Mexico	137	398	1,458	1,146	390	3,529	-	-	-	-	-	-	3,529
New York	253	1,911	2,903	436	213	5,717	-	-	-	-	-	-	5,717
North Carolina 4/	81	3,269	4,073	69	146	7,638	31	85	225	35	-	376	8,014
North Dakota	352	1,066	1,479	79	6	2,983	1,166	1,124	1,267	651	-	4,208	7,190
Ohio 5/	485	3,382	2,702	257	44	6,870	2,560	839	1,065	-	-	4,464	11,334
Oklahoma 4/	18	2,792	9,218	3,095	4,046	19,169	-	-	-	-	-	-	19,169
Oregon	54	417	1,562	622	110	2,765	1,072	1,621	1,702	267	-	4,662	7,427
Pennsylvania 4/	66	1,429	3,694	1,087	959	7,235	-	-	-	-	-	-	7,235
Rhode Island	-	3	66	19	4	92	8	14	9	19	4	54	145
South Carolina	166	1,410	7,630	1,007	267	10,481	-	-	-	-	-	-	10,481
South Dakota 5/	111	432	1,464	563	132	2,702	2,328	218	1,700	247	552	5,045	7,747
Tennessee	721	1,649	2,407	7	301	5,085	-	-	28	-	-	28	5,113
Texas 4/	557	5,682	25,634	2,538	103	34,514	-	-	13	-	29	42	34,556
Utah	35	309	1,373	312	19	2,048	-	6	754	46	-	806	2,854
Vermont	-	240	935	485	349	2,010	-	-	-	-	-	-	2,010
Virginia	-	401	3,114	-	-	3,515	1,703	1,695	1,624	581	-	5,602	9,118
Washington	-	993	2,308	366	4	3,671	2,092	558	1,639	98	159	4,546	8,217
West Virginia	-	620	2,864	627	1,541	5,652	-	-	-	-	-	-	5,652
Wisconsin 4/	369	2,467	6,750	1,169	1,725	12,480	-	-	-	-	-	-	12,480
Wyoming	80	1,079	1,152	280	30	2,621	-	77	99	31	-	208	2,829
U.S. Total	16,937	62,676	153,732	30,901	14,049	278,294	22,825	21,953	36,458	14,579	3,332	99,147	377,441
Puerto Rico	-	-	10	75	119	203	4	3	22	-	-	30	233
Grand Total	16,937	62,676	153,742	30,975	14,169	278,498	22,829	21,956	36,480	14,579	3,332	99,177	377,675

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2009 1/

## MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63  
SHEET 2 OF 3

FEBRUARY 2012

STATE	URBAN MINOR ARTERIAL												TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama 4/	73	771	897	247	94	2,082	-	35	87	-	-	122	2,204
Alaska	6	34	127	36	38	242	-	-	-	-	-	-	242
Arizona 4/	8	64	211	94	22	399	768	273	283	33	-	1,357	1,756
Arkansas 4/	-	27	339	46	36	448	64	107	291	243	34	739	1,187
California	44	260	2,836	2,303	1,815	7,258	148	279	2,015	798	34	3,274	10,532
Colorado 5/	-	6	112	10	9	137	454	316	520	164	36	1,490	1,627
Connecticut	1	29	668	172	57	927	584	99	50	2	-	736	1,662
Delaware	5	48	97	28	15	192	-	-	-	-	-	-	192
Dist. of Columbia	-	-	1	9	155	164	-	-	-	-	-	-	164
Florida 5/	63	744	724	57	50	1,638	668	797	801	80	48	2,394	4,032
Georgia	2,357	690	225	50	-	3,323	253	205	460	60	0	979	4,301
Hawaii	0	3	49	29	35	116	-	-	2	-	-	2	119
Idaho	-	11	60	1	8	79	54	109	334	1	3	501	580
Illinois	143	20	30	1	22	216	979	983	1,555	445	-	3,962	4,178
Indiana	28	289	523	71	297	1,208	259	573	580	250	-	1,662	2,870
Iowa	30	84	417	267	571	1,369	2	82	102	-	-	186	1,555
Kansas 5/	-	68	333	179	134	714	47	130	20	261	179	637	1,351
Kentucky	10	130	785	59	22	1,006	-	-	-	-	-	-	1,006
Louisiana	10	336	805	312	421	1,885	-	-	8	-	-	8	1,893
Maine	3	47	114	45	23	232	-	-	-	-	-	-	232
Maryland	3	69	685	306	378	1,441	-	-	-	-	-	-	1,441
Massachusetts	2,366	38	847	438	66	3,755	-	-	-	-	-	-	3,755
Michigan	2	15	26	217	6	266	1,137	410	1,515	374	384	3,820	4,086
Minnesota 4/	464	741	1,003	250	71	2,529	-	-	-	-	-	-	2,529
Mississippi	-	105	555	156	131	947	-	-	-	-	-	-	947
Missouri	31	249	621	129	136	1,167	-	9	-	-	780	789	1,955
Montana	-	40	103	36	53	232	-	-	1	-	-	1	234
Nebraska	-	6	43	15	17	80	205	114	214	82	3	618	699
Nevada	73	178	264	57	45	617	-	-	-	-	-	-	617
New Hampshire 4/	11	69	209	57	37	383	-	-	100	7	-	107	490
New Jersey	-	17	928	789	1,029	2,763	59	49	526	16	70	720	3,484
New Mexico	45	44	188	83	57	418	-	-	-	188	-	188	605
New York	150	723	2,685	1,102	926	5,585	-	-	-	-	-	-	5,585
North Carolina 4/	7	508	1,586	301	160	2,562	217	70	143	80	59	569	3,131
North Dakota	-	5	9	3	1	18	75	23	111	42	5	255	273
Ohio 5/	45	348	1,008	146	128	1,675	1,207	528	448	48	-	2,231	3,906
Oklahoma 4/	23	310	909	253	535	2,030	11	-	-	-	-	11	2,041
Oregon	5	5	48	20	20	98	463	266	257	23	7	1,017	1,115
Pennsylvania 4/	13	354	2,302	753	536	3,958	-	-	-	-	-	-	3,958
Rhode Island	-	6	110	41	32	188	36	33	79	12	0	160	348
South Carolina	12	164	995	203	105	1,480	-	-	-	-	-	-	1,480
South Dakota 5/	-	20	39	30	57	146	70	24	94	12	27	227	373
Tennessee	39	278	460	102	182	1,062	362	407	407	130	40	1,346	2,408
Texas 4/	34	525	1,912	423	177	3,071	538	811	1,959	880	554	4,742	7,813
Utah	12	158	350	32	2	554	5	28	251	15	-	299	854
Vermont	-	23	37	32	12	104	6	13	9	4	8	40	144
Virginia	2	152	586	130	102	972	277	376	542	104	3	1,302	2,274
Washington	1	132	532	186	205	1,057	586	274	479	166	14	1,519	2,575
West Virginia	5	134	438	91	69	738	-	-	-	-	-	-	738
Wisconsin 4/	49	515	1,477	229	219	2,489	-	-	-	-	-	-	2,489
Wyoming	-	4	30	5	8	48	28	32	47	8	3	118	166
U.S. Total	6,173	9,598	30,340	10,630	9,327	66,068	9,560	7,456	14,291	4,528	2,292	38,128	104,196
Puerto Rico	0	0	105	271	398	773	77	70	73	14	-	233	1,006
Grand Total	6,174	9,598	30,444	10,901	9,724	66,841	9,637	7,526	14,364	4,542	2,292	38,361	105,202

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2009 1/

## MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63  
SHEET 3 OF 3

FEBRUARY 2012

STATE	URBAN COLLECTOR												TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama 4/	3	229	1,116	348	238	1,934	-	32	171	2	-	205	2,139
Alaska	-	19	184	54	81	339	8	-	-	-	-	8	347
Arizona 4/	-	36	118	154	49	357	503	220	279	90	126	1,218	1,575
Arkansas 4/	-	14	21	5	6	46	31	142	380	343	129	1,025	1,071
California	27	184	1,675	2,032	3,027	6,945	265	368	1,781	1,530	110	4,055	10,999
Colorado 5/	-	17	24	1	1	43	565	174	583	283	119	1,724	1,767
Connecticut	-	21	176	121	20	338	1,227	142	148	1	1	1,519	1,856
Delaware	3	67	181	64	52	366	1	-	-	-	-	1	368
Dist. of Columbia	-	-	0	1	155	156	-	0	-	-	-	0	157
Florida 5/	11	56	178	3	8	256	1,573	1,702	2,759	382	140	6,556	6,812
Georgia	1,392	28	25	-	-	1,445	250	133	673	48	-	1,104	2,548
Hawaii	-	9	96	129	156	390	-	-	-	-	-	-	390
Idaho	-	-	-	-	-	-	61	163	363	10	2	600	600
Illinois	113	1	-	-	-	113	994	933	1,701	495	-	4,123	4,237
Indiana	91	62	154	357	284	948	641	759	419	289	42	2,150	3,097
Iowa	3	77	261	137	386	865	6	51	91	-	-	148	1,012
Kansas 5/	-	-	176	306	259	741	2	120	14	194	351	681	1,422
Kentucky	-	45	856	64	10	975	-	-	-	-	-	-	975
Louisiana	17	218	899	349	687	2,169	-	1	3	16	-	20	2,189
Maine	-	82	179	131	138	530	-	-	-	-	-	-	530
Maryland	-	15	637	493	583	1,729	-	-	-	-	-	-	1,729
Massachusetts	2,664	-	246	2	-	2,912	-	-	-	-	-	-	2,912
Michigan	-	-	1	298	1	299	727	167	1,103	137	280	2,414	2,713
Minnesota 4/	91	579	1,046	292	180	2,188	-	-	-	-	-	-	2,188
Mississippi	5	20	895	244	285	1,448	-	-	-	-	-	-	1,448
Missouri	30	97	301	105	111	644	-	-	-	-	1,613	1,613	2,257
Montana	-	-	3	16	7	25	-	7	136	100	6	250	275
Nebraska	-	-	2	3	-	5	66	47	171	97	58	439	444
Nevada	10	89	270	122	141	632	-	-	-	-	-	-	632
New Hampshire 4/	-	41	124	70	47	282	1	-	202	18	-	221	503
New Jersey	-	2	316	581	1,151	2,050	103	161	383	61	3	710	2,760
New Mexico	-	33	177	170	167	547	-	-	-	709	-	709	1,256
New York	9	188	2,323	896	1,622	5,039	-	-	-	-	-	-	5,039
North Carolina 4/	1	479	948	260	143	1,831	225	207	394	122	105	1,053	2,884
North Dakota	-	-	3	2	-	5	62	27	110	34	10	242	247
Ohio 5/	25	134	524	106	32	821	1,996	1,069	611	129	5	3,810	4,631
Oklahoma 4/	7	55	268	257	444	1,031	10	-	-	-	-	10	1,041
Oregon	-	4	2	19	4	29	653	473	574	74	42	1,816	1,845
Pennsylvania 4/	-	142	2,370	1,464	1,357	5,333	-	-	-	-	-	-	5,333
Rhode Island	-	-	16	7	5	28	98	162	194	86	11	552	580
South Carolina	23	122	1,270	609	416	2,439	-	-	-	-	-	-	2,439
South Dakota 5/	-	-	15	15	69	99	49	9	54	19	14	145	244
Tennessee	-	5	48	14	37	104	581	534	667	208	70	2,060	2,164
Texas 4/	22	491	2,699	796	320	4,328	818	1,148	3,467	1,383	885	7,701	12,029
Utah	-	29	132	24	-	184	-	11	610	54	12	688	872
Vermont	2	1	1	3	1	8	11	50	68	25	10	166	174
Virginia	-	20	136	13	23	192	623	572	822	134	43	2,195	2,387
Washington	-	58	292	309	262	921	390	253	411	281	32	1,368	2,288
West Virginia	-	17	295	158	267	737	-	-	-	-	-	-	737
Wisconsin 4/	16	335	1,202	342	408	2,303	-	-	-	-	-	-	2,303
Wyoming	-	6	16	5	-	27	51	109	239	50	16	465	492
U.S. Total	4,564	4,126	22,896	11,949	13,642	57,177	12,591	9,949	19,581	7,405	4,236	53,761	110,937
Puerto Rico	-	-	45	128	286	459	139	160	403	40	-	743	1,202
Grand Total	4,564	4,126	22,941	12,077	13,928	57,636	12,730	10,109	19,984	7,445	4,236	54,504	112,140

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2009

## MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

HM-63 Footnotes Page:

- 1/ Some States elect to report International Roughness Index (IRI) for these systems; some report IRI for some sections and PSR for some sections. Some differences from other tables may be noted because these are estimated from sample data. Excludes unpaved mileage.
- 2/ Data are reported as the IRI in inches per mile. Reference: World Bank Technical Paper Number 46, 1986. Lower IRI represents smoother riding roadways; to obtain a comprehensive assessment of pavement condition, additional measures of pavement distress are needed.
- 3/ The "Present Serviceability Rating" (PSR) is a subjective, primarily ride-based system adapted from the "AASHO ROAD TESTS" conducted in the late 1950's and early 1960's. Reference: Highway Special Report 61E, 1962. The PSR values range from 0.1 to 5.0; higher PSR values represent smoother riding roadways.
- 4/ 2008 used.
- 5/ 2008 data used due to FHWA process status.