

**FUNCTIONAL SYSTEM LENGTH - 2015 (1)**  
**MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

DECEMBER 2016

TABLE HM-63  
 SHEET 1 OF 3

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	711	1,730	604	31	7	3,082	-	-	-	-	-	-	3,082
Alaska	135	306	235	83	94	853	-	-	-	-	-	-	853
Arizona	543	1,090	1,401	264	147	3,445	-	-	-	-	-	-	3,445
Arkansas	98	1,904	4,801	1,821	971	9,595	-	-	845	79	364	1,287	10,883
California	1,156	1,094	1,824	1,992	5,750	11,816	-	-	-	-	-	-	11,816
Colorado	81	1,008	2,081	366	253	3,789	530	-	-	151	-	681	4,470
Connecticut	-	45	412	176	224	857	-	-	-	-	-	-	857
Delaware	49	172	174	22	18	435	-	-	-	-	-	-	435
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	342	1,360	1,042	130	73	2,946	192	444	336	101	-	1,074	4,020
Georgia	396	1,383	681	28	11	2,499	-	-	-	-	-	-	2,499
Hawaii	0	9	112	48	51	220	-	-	-	-	-	-	220
Idaho	71	436	217	17	4	746	546	513	1,759	598	440	3,855	4,601
Illinois	83	4,800	4,392	293	87	9,656	-	-	-	-	-	-	9,656
Indiana	1,214	2,293	2,070	484	162	6,223	-	-	-	-	-	-	6,223
Iowa	313	799	1,312	335	346	3,105	-	-	-	-	-	-	3,105
Kansas	989	2,363	1,185	88	23	4,647	337	1,869	4,122	1,024	496	7,848	12,495
Kentucky	79	817	1,707	175	55	2,833	-	-	-	-	-	-	2,833
Louisiana	322	1,542	1,672	531	628	4,695	-	-	-	-	-	-	4,695
Maine	138	1,016	1,268	436	424	3,281	-	-	-	-	-	-	3,281
Maryland	94	415	624	129	64	1,326	-	-	-	-	-	-	1,326
Massachusetts	-	67	95	40	41	243	-	-	586	-	28	613	856
Michigan	1,344	1,552	1,078	53	15	4,043	2,576	-	4,507	-	3,336	10,419	14,462
Minnesota	2,829	4,524	5,134	1,023	1,088	14,597	-	-	-	-	-	-	14,597
Mississippi	241	1,917	5,529	2,187	1,773	11,647	-	-	-	-	-	-	11,647
Missouri	188	2,990	8,299	3,437	1,413	16,327	-	-	-	-	-	-	16,327
Montana	429	1,353	2,432	441	213	4,868	-	-	-	-	-	-	4,868
Nebraska	1,066	919	760	128	61	2,935	1,130	827	894	278	206	3,334	6,269
Nevada	160	529	1,088	200	77	2,054	-	-	-	-	-	-	2,054
New Hampshire	50	67	63	21	30	231	-	14	794	-	-	808	1,039
New Jersey	-	20	414	31	-	465	53	129	119	5	-	307	772
New Mexico	235	464	1,807	937	949	4,391	-	-	18	-	56	74	4,466
New York	150	1,886	2,636	478	327	5,477	-	-	-	-	-	-	5,477
North Carolina	180	2,731	3,217	619	361	7,109	-	-	-	-	-	-	7,109
North Dakota	1,099	2,761	2,501	481	412	7,254	-	-	198	-	-	198	7,452
Ohio	1,882	4,920	3,433	463	304	11,001	16	-	2	-	10	28	11,029
Oklahoma	280	4,249	9,488	2,247	2,912	19,176	-	-	-	-	-	-	19,176
Oregon	63	244	1,151	373	199	2,030	1,413	1,652	1,603	403	207	5,278	7,309
Pennsylvania	202	1,600	2,965	1,202	1,403	7,372	-	-	-	-	-	-	7,372
Rhode Island	3	8	72	39	51	172	-	-	-	-	-	-	172
South Carolina	754	2,578	5,425	1,077	187	10,022	-	-	-	-	-	-	10,022
South Dakota	346	1,094	2,235	606	159	4,440	38	299	2,086	634	227	3,284	7,724
Tennessee	499	1,367	2,293	374	65	4,597	-	-	-	-	-	-	4,597
Texas	5	78	309	56	57	506	1,999	2,320	7,716	2,205	1,872	16,113	16,619
Utah	24	241	729	188	65	1,246	72	32	31	-	-	134	1,381
Vermont	69	397	749	316	320	1,852	-	-	-	-	-	-	1,852
Virginia	40	977	3,664	1,241	1,018	6,940	-	-	-	-	-	-	6,940
Washington	20	976	4,743	1,420	850	8,008	-	-	-	-	-	-	8,008
West Virginia	0	286	1,551	197	173	2,207	111	35	567	109	304	1,126	3,333
Wisconsin	856	2,137	4,653	1,149	1,076	9,870	-	-	-	-	-	-	9,870
Wyoming	272	1,170	936	189	148	2,715	13	-	-	-	4	16	2,731
U.S. Total	20,102	68,682	107,260	28,662	25,138	249,845	9,027	8,134	26,181	5,587	7,548	56,478	306,323
Puerto Rico (4)	-	-	10	75	119	203	4	3	22	-	-	30	233
Grand Total	20,102	68,682	107,270	28,737	25,257	250,048	9,032	8,137	26,204	5,587	7,548	56,508	306,556

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2015 (1)**  
**MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 2 OF 3

DECEMBER 2016

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	205	337	206	21	13	783	-	-	-	0	-	0	783
Alaska	21	62	74	20	21	198	-	-	-	-	-	-	198
Arizona	45	252	710	217	192	1,415	-	-	-	-	-	-	1,415
Arkansas	42	207	441	85	65	841	5	20	322	270	84	701	1,541
California	206	546	3,483	1,848	5,056	11,138	-	-	-	-	-	-	11,138
Colorado	10	105	765	470	315	1,665	87	10	4	35	0	137	1,802
Connecticut	0	86	569	291	727	1,673	-	-	-	-	-	-	1,673
Delaware	16	55	72	28	25	196	-	-	-	-	-	-	196
Dist. of Columbia	2	-	-	2	159	164	-	-	-	-	-	-	164
Florida	322	1,164	1,311	270	192	3,259	169	323	322	103	11	927	4,187
Georgia	264	654	457	70	66	1,510	-	-	-	-	-	-	1,510
Hawaii	5	27	86	33	2	192	-	-	-	-	-	-	192
Idaho	6	15	24	5	40	52	209	147	159	83	20	617	669
Illinois	80	508	2,075	1,044	739	4,446	-	-	-	-	-	-	4,446
Indiana	297	362	262	35	25	980	-	-	-	-	-	-	980
Iowa	6	34	137	83	189	450	-	-	-	-	-	-	450
Kansas	51	227	594	222	234	1,327	-	-	-	-	-	-	1,327
Kentucky	68	224	434	107	56	889	-	-	-	-	-	-	889
Louisiana	47	316	680	294	400	1,736	-	-	0	-	-	0	1,737
Maine	7	68	97	32	31	236	-	-	-	-	-	-	236
Maryland	32	202	697	245	254	1,431	-	-	-	-	-	-	1,431
Massachusetts	5	122	639	301	245	1,313	26	-	2,579	-	32	2,638	3,951
Michigan	36	196	258	100	73	663	1,179	-	1,802	-	1,140	4,121	4,784
Minnesota	261	568	954	489	325	2,597	-	-	-	-	-	-	2,597
Mississippi	40	174	420	181	265	1,080	-	-	-	-	-	-	1,080
Missouri	29	287	944	341	356	1,957	-	-	-	-	-	-	1,957
Montana	11	52	120	44	59	287	-	-	-	-	-	-	287
Nebraska	4	8	28	9	14	63	233	89	231	57	32	641	704
Nevada	123	266	339	81	65	874	-	-	-	-	-	-	874
New Hampshire	27	70	96	24	35	253	-	10	227	-	-	237	490
New Jersey	84	126	708	621	746	2,284	291	240	721	102	14	1,367	3,651
New Mexico	26	127	289	101	128	671	-	-	3	0	1	4	675
New York	69	1,048	2,526	844	968	5,454	-	2	-	-	-	2	5,456
North Carolina	33	849	1,750	399	250	3,281	28	11	4	-	-	43	3,324
North Dakota	12	30	119	38	45	243	-	-	26	-	-	26	269
Ohio	155	889	1,578	573	674	3,869	5	48	25	4	22	105	3,974
Oklahoma	-	105	939	484	522	2,050	-	12	89	37	-	138	2,188
Oregon	30	65	122	31	18	266	359	287	336	30	9	1,020	1,286
Pennsylvania	82	564	1,617	891	823	3,976	-	-	-	-	-	-	3,976
Rhode Island	-	18	126	95	104	343	-	-	-	-	-	-	343
South Carolina	42	220	1,141	291	74	1,767	-	-	-	-	-	-	1,767
South Dakota	4	31	149	115	105	405	-	3	11	2	1	17	422
Tennessee	236	359	377	104	72	1,148	-	-	-	-	-	-	1,148
Texas	30	137	197	57	130	551	1,057	988	3,033	687	637	6,403	6,953
Utah	5	43	59	10	6	124	2	15	-	-	-	17	140
Vermont	7	52	62	15	12	147	-	-	-	-	-	-	147
Virginia	5	320	1,354	470	317	2,466	-	-	-	-	-	-	2,466
Washington	35	299	1,103	490	613	2,540	-	-	-	-	-	-	2,540
West Virginia	1	95	201	44	34	374	61	33	33	19	18	165	539
Wisconsin	15	129	714	462	818	2,139	-	-	-	-	-	-	2,139
Wyoming	11	42	69	22	28	173	35	5	5	1	7	53	226
U.S. Total	3,148	12,741	32,173	13,152	16,725	77,939	3,747	2,242	9,933	1,431	2,028	19,381	97,320
Puerto Rico (4)	0	0	105	271	398	773	77	70	73	14	-	233	1,006
Grand Total	3,148	12,741	32,278	13,423	17,123	78,713	3,823	2,311	10,006	1,445	2,028	19,614	98,326

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2015 (1)

## MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63  
SHEET 3 OF 3

DECEMBER 2016

STATE	URBAN MAJOR AND MINOR 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	7	38	21	5	1	72	-	-	-	7	-	7	80
Alaska	24	66	115	44	63	312	-	-	-	-	-	-	312
Arizona	17	77	402	186	252	933	-	-	-	-	-	-	933
Arkansas	0	34	126	59	38	257	-	44	623	310	192	1,170	1,427
California	162	435	3,872	2,556	6,384	13,409	-	-	-	-	-	-	13,409
Colorado	3	118	633	437	400	1,591	171	36	64	23	6	301	1,892
Connecticut	0	25	394	378	1,327	2,123	0	-	-	-	-	0	2,123
Delaware	17	97	163	62	66	406	-	-	-	-	-	-	406
Dist. of Columbia	-	-	1	-	155	155	-	-	-	-	-	-	155
Florida	106	948	2,020	590	453	4,117	904	1,126	1,448	462	216	4,156	8,273
Georgia	9	90	49	16	13	178	-	-	-	-	-	-	178
Hawaii	2	13	155	111	170	450	-	-	-	-	-	-	450
Idaho	0	2	4	1	1	7	231	120	235	98	36	720	727
Illinois	74	508	1,809	1,275	1,632	5,299	-	-	-	-	-	-	5,299
Indiana	69	117	79	16	5	286	-	-	-	-	-	-	286
Iowa	2	35	125	53	142	357	-	-	-	-	-	-	357
Kansas	36	124	677	338	564	1,739	5	5	26	-	2	37	1,776
Kentucky	11	66	278	87	53	494	-	-	-	-	-	-	494
Louisiana	28	263	741	334	526	1,890	-	1	2	-	10	13	1,903
Maine	6	117	219	78	117	537	-	-	-	-	-	-	537
Maryland	20	174	826	392	387	1,800	-	-	-	-	-	-	1,800
Massachusetts	-	2	6	-	8	15	-	-	2,811	-	137	3,004	3,019
Michigan	3	9	8	6	4	31	655	-	1,634	-	1,171	3,461	3,491
Minnesota	106	489	888	319	454	2,257	-	-	-	-	-	-	2,257
Mississippi	4	99	474	300	666	1,542	-	-	-	-	-	-	1,542
Missouri	-	119	852	426	619	2,016	-	-	-	-	-	-	2,016
Montana	9	28	212	51	137	437	-	-	-	-	-	-	437
Nebraska	-	0	3	1	4	8	131	32	191	125	28	507	515
Nevada	36	177	446	217	188	1,064	-	-	-	-	-	-	1,064
New Hampshire	0	5	11	2	3	20	-	0	515	-	-	516	536
New Jersey	-	31	319	577	955	1,881	177	168	935	135	33	1,448	3,329
New Mexico	42	146	319	139	225	871	4	24	34	19	11	91	962
New York	24	438	1,942	1,250	1,583	5,239	-	-	-	1	-	1	5,239
North Carolina	24	704	1,917	439	377	3,461	74	22	36	3	1	136	3,597
North Dakota	25	8	81	66	107	288	-	-	10	-	-	10	298
Ohio	92	952	2,306	825	1,127	5,302	75	99	251	72	163	660	5,962
Oklahoma	9	15	385	252	670	1,330	9	23	183	20	6	241	1,572
Oregon	4	32	21	7	24	87	557	835	921	120	70	2,504	2,590
Pennsylvania	16	221	2,068	1,257	1,852	5,414	-	-	-	-	-	-	5,414
Rhode Island	-	10	154	131	263	557	-	-	8	-	-	8	565
South Carolina	24	232	1,295	805	524	2,879	-	-	-	-	-	-	2,879
South Dakota	0	5	79	79	125	288	0	2	44	2	-	49	337
Tennessee	49	55	68	10	57	239	-	-	-	-	-	-	239
Texas	5	69	311	98	273	758	1,522	2,495	5,652	1,804	1,844	13,317	14,075
Utah	1	9	39	21	5	75	-	-	11	-	-	11	85
Vermont	2	49	90	39	49	229	-	-	-	-	-	-	229
Virginia	0	144	1,009	518	395	2,065	-	-	-	-	-	-	2,065
Washington	6	72	580	576	1,109	2,343	-	-	-	-	-	-	2,343
West Virginia	-	7	31	13	11	62	41	74	160	115	84	473	535
Wisconsin	15	127	534	513	905	2,094	-	-	-	-	-	-	2,094
Wyoming	10	68	87	56	48	269	179	34	9	8	19	248	517
U.S. Total	1,101	7,667	29,242	16,010	25,514	79,534	4,791	5,140	15,804	3,325	4,027	33,088	112,622
Puerto Rico (4)	-	-	45	128	286	459	139	160	403	40	-	743	1,202
Grand Total	1,101	7,667	29,288	16,139	25,800	79,993	4,930	5,300	16,207	3,366	4,027	33,831	113,824

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2015

## 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. PSR is ignored for sections coded with both IRI and PSR. Some differences from other tables may be noted because these are estimated from sample data. Excludes unpaved mileage. Includes structures.
- (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) 2009 data used.