

**FUNCTIONAL SYSTEM LENGTH - 2016 (1)**  
**MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
 SHEET 1 OF 3

September 18, 2017

STATE	RURAL MAJOR COLLECTOR												TOTAL REPORTED
	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	1,322	4,677	4,377	761	764	11,900	-	-	-	-	-	-	11,900
Alaska	97	243	199	71	115	725	-	-	-	-	-	-	725
Arizona	557	1,068	1,398	233	122	3,378	-	1	-	0	9	11	3,390
Arkansas	-	-	-	-	-	-	-	-	816	-	83	374	1,272
California	108	1,448	4,282	1,585	3,383	10,807	-	-	-	-	-	-	10,807
Colorado	44	1,043	2,398	520	426	4,431	23	-	-	-	-	23	4,454
Connecticut	11	189	414	113	129	857	-	-	-	-	-	-	857
Delaware	63	150	176	25	14	428	-	-	-	-	-	-	428
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	589	908	472	41	21	2,031	339	625	933	98	-	1,994	4,025
Georgia	207	1,997	1,648	90	28	3,970	-	-	-	-	-	-	3,970
Hawaii	0	9	111	51	49	220	-	-	-	-	-	-	220
Idaho	133	356	199	16	8	713	568	646	1,565	750	276	3,806	4,517
Illinois	561	4,673	3,129	481	8	8,853	-	-	-	-	-	-	8,853
Indiana	984	2,219	2,040	521	156	5,919	-	-	-	-	-	-	5,919
Iowa	-	0	0	-	-	0	-	-	-	-	-	-	0
Kansas	826	2,281	1,418	91	20	4,636	327	1,843	4,108	1,025	487	7,791	12,427
Kentucky	120	1,617	2,854	272	103	4,966	-	-	-	-	-	-	4,966
Louisiana	316	1,492	1,670	558	658	4,693	-	-	-	-	-	-	4,693
Maine	44	417	1,688	648	425	3,222	-	-	-	-	-	-	3,222
Maryland	178	397	556	83	67	1,282	-	-	-	-	-	-	1,282
Massachusetts	-	103	97	37	41	277	53	-	195	-	299	547	824
Michigan	-	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota	1,372	3,809	3,547	574	355	9,658	-	-	-	-	-	-	9,658
Mississippi	161	1,819	5,424	2,245	2,007	11,657	-	-	-	-	-	-	11,657
Missouri	93	2,453	8,799	3,457	1,565	16,366	-	-	-	-	-	-	16,366
Montana	397	1,420	2,212	512	255	4,796	-	-	-	-	-	-	4,796
Nebraska	869	811	554	157	31	2,422	1,014	1,040	863	278	361	3,556	5,978
Nevada	167	536	1,074	196	76	2,050	-	-	-	-	-	-	2,050
New Hampshire	95	225	388	99	234	1,041	-	-	0	-	-	0	1,042
New Jersey	-	21	395	31	-	446	47	124	153	5	-	328	775
New Mexico	101	306	2,010	1,103	940	4,461	-	-	2	-	-	2	4,463
New York	264	1,218	1,854	350	159	3,845	-	-	-	-	-	-	3,845
North Carolina	193	2,279	2,702	430	339	5,942	132	3	4	-	98	237	6,179
North Dakota	-	0	1	-	0	2	-	-	291	71	-	362	364
Ohio	1,798	3,904	2,821	375	179	9,077	61	22	624	773	479	1,959	11,036
Oklahoma	110	3,831	9,573	1,441	3,347	18,303	296	-	55	165	322	839	19,142
Oregon	39	124	822	365	221	1,570	1,680	2,237	1,472	115	264	5,768	7,338
Pennsylvania	275	1,668	2,831	1,077	1,415	7,266	-	-	-	-	-	-	7,266
Rhode Island	-	5	75	41	46	167	-	-	-	-	-	-	167
South Carolina	908	2,393	4,769	1,206	739	10,015	-	-	-	-	-	-	10,015
South Dakota	251	1,315	3,173	962	491	6,192	413	7	1,081	5	3	1,509	7,702
Tennessee	697	1,582	2,080	224	79	4,661	22	-	294	23	-	339	5,000
Texas	5	131	106	-	-	242	2,169	2,064	6,863	5,101	3,230	19,426	19,668
Utah	56	469	1,493	447	192	2,657	-	44	176	-	-	220	2,877
Vermont	53	373	761	303	391	1,882	-	-	-	-	-	-	1,882
Virginia	52	1,295	3,721	1,444	902	7,413	-	-	-	-	-	-	7,413
Washington	55	1,116	4,618	1,516	711	8,017	-	-	-	-	-	-	8,017
West Virginia	6	794	2,610	787	875	5,072	106	10	235	62	35	449	5,521
Wisconsin	1,411	2,665	4,681	1,633	1,617	12,008	-	-	-	-	-	-	12,008
Wyoming	245	1,183	861	175	129	2,594	3	148	-	-	-	151	2,745
U.S. Total	15,833	63,031	103,082	27,349	23,835	233,130	7,254	8,812	19,731	8,555	6,238	50,590	283,720
Puerto Rico (4)	-	-	10	75	119	203	4	3	22	-	-	30	233
Grand Total	15,833	63,031	103,092	27,424	23,954	233,333	7,258	8,815	19,753	8,555	6,238	50,620	283,953

For footnotes, see Footnotes Page.

## FUNCTIONAL SYSTEM LENGTH - 2016 (1)

### MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63  
SHEET 2 OF 3

September 18, 2017

STATE	URBAN MINOR ARTERIAL													TOTAL REPORTED
	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	234	672	827	218	252	2,203	-	-	-	-	-	-	2,203	
Alaska	18	46	60	19	16	158	-	-	-	-	-	-	158	
Arizona	37	190	715	211	157	1,310	-	-	0	-	3	3	1,313	
Arkansas	-	1	19	14	7	41	17	51	345	269	51	733	774	
California	62	938	4,147	2,216	3,045	10,408	-	-	-	-	-	-	10,408	
Colorado	12	167	714	409	494	1,796	2	-	-	-	-	2	1,799	
Connecticut	29	232	801	322	289	1,674	-	-	-	-	-	-	1,674	
Delaware	12	56	81	27	28	204	-	-	-	-	-	-	204	
District of Columbia	-	-	7	18	136	161	-	-	-	-	-	-	161	
Florida	299	953	939	164	127	2,483	356	456	719	113	83	1,726	4,209	
Georgia	362	799	575	85	73	1,893	-	-	-	-	-	-	1,893	
Hawaii	4	25	74	38	51	192	-	-	-	-	-	-	192	
Idaho	4	18	29	7	3	62	187	122	152	83	21	564	625	
Illinois	73	585	2,211	839	434	4,143	-	-	-	-	-	-	4,143	
Indiana	308	519	932	325	314	2,398	-	-	-	-	-	-	2,398	
Iowa	-	1	1	0	1	3	-	-	-	-	-	-	3	
Kansas	74	226	566	232	250	1,347	-	-	-	-	-	-	1,347	
Kentucky	78	299	556	150	85	1,167	-	-	-	-	-	-	1,167	
Louisiana	40	312	716	308	381	1,759	-	-	0	-	-	0	1,759	
Maine	0	33	137	55	36	262	-	-	-	-	-	-	262	
Maryland	82	266	726	219	266	1,559	-	-	-	-	-	-	1,559	
Massachusetts	10	113	594	293	239	1,250	226	-	1,124	-	948	2,298	3,549	
Michigan	-	-	-	-	-	-	-	7	-	1	0	8	8	
Minnesota	78	83	101	31	42	336	-	-	-	-	-	-	336	
Mississippi	39	171	415	205	250	1,080	-	-	-	-	-	-	1,080	
Missouri	31	269	959	353	347	1,960	-	-	-	-	-	-	1,960	
Montana	7	67	108	46	62	290	-	-	-	-	-	-	290	
Nebraska	13	29	73	29	35	178	172	141	148	43	25	529	707	
Nevada	130	249	346	86	67	878	-	-	-	-	-	-	878	
New Hampshire	37	106	189	67	87	485	-	-	5	-	-	5	490	
New Jersey	62	121	693	640	692	2,208	388	240	686	71	15	1,401	3,609	
New Mexico	11	106	355	113	148	733	-	-	-	-	-	-	733	
New York	48	598	1,197	435	676	2,954	-	1	0	-	-	1	2,955	
North Carolina	30	844	1,646	392	242	3,154	21	1	-	-	-	22	3,176	
North Dakota	-	-	1	-	-	1	5	-	43	1	-	49	49	
Ohio	130	671	1,075	378	421	2,675	313	169	427	140	243	1,293	3,967	
Oklahoma	6	87	804	388	574	1,859	51	89	165	44	8	357	2,217	
Oregon	23	50	70	25	14	183	407	337	322	24	12	1,101	1,284	
Pennsylvania	87	645	1,624	815	782	3,953	-	-	-	-	-	-	3,953	
Rhode Island	-	18	136	83	102	339	-	-	-	-	-	-	339	
South Carolina	46	303	1,031	214	143	1,736	-	-	-	-	-	-	1,736	
South Dakota	2	30	164	116	98	411	1	-	13	1	-	15	426	
Tennessee	221	415	266	79	100	1,080	170	248	715	135	50	1,318	2,398	
Texas	2	27	27	9	27	92	1,268	963	3,172	662	909	6,974	7,066	
Utah	7	70	192	63	54	386	-	34	245	-	4	283	669	
Vermont	8	57	59	11	11	147	-	-	-	-	-	-	147	
Virginia	8	332	1,255	400	239	2,234	-	-	-	-	-	-	2,234	
Washington	64	384	1,170	468	630	2,716	-	-	-	-	-	-	2,716	
West Virginia	4	147	346	107	85	691	6	3	20	1	1	31	722	
Wisconsin	35	232	732	487	1,123	2,609	-	-	-	-	-	-	2,609	
Wyoming	6	31	41	9	12	98	49	56	21	12	11	149	247	
U.S. Total	2,876	12,594	30,502	12,218	13,749	71,938	3,639	2,917	8,323	1,599	2,385	18,864	90,802	
Puerto Rico (4)	0	0	105	27	398	773	77	70	73	14	-	233	1,006	
Grand Total	2,876	12,594	30,607	12,488	14,146	72,712	3,716	2,987	8,396	1,613	2,385	19,097	91,808	

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2016 (1)**  
**MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 3 OF 3

September 18, 2017

STATE	URBAN MAJOR AND MINOR COLLECTOR													TOTAL REPORTED
	INTERNATIONAL ROUGHNESS INDEX (2)						PRESENT SERVICEABILITY RATING (3)						TOTAL	
	<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	109	736	1,580	555	722	3,702	-	-	-	-	-	-	3,702	
Alaska	17	70	106	38	54	286	-	-	-	-	-	-	286	
Arizona	24	46	328	171	268	836	-	-	-	-	-	-	836	
Arkansas	-	-	2	1	0	3	12	69	681	377	190	1,329	1,332	
California	25	530	3,418	2,619	5,202	11,794	-	-	-	-	-	-	11,794	
Colorado	15	155	745	411	564	1,890	2	-	-	0	-	2	1,893	
Connecticut	10	100	886	472	660	2,128	-	-	-	-	-	-	2,128	
Delaware	11	88	172	63	80	412	-	-	-	-	-	-	412	
District of Columbia	-	-	3	10	139	153	-	-	-	-	-	-	153	
Florida	118	1,057	2,191	679	713	4,758	674	1,018	1,479	145	215	3,532	8,290	
Georgia	22	150	113	4	5	292	-	-	-	-	-	-	292	
Hawaii	3	11	157	114	165	451	-	-	-	-	-	-	451	
Idaho	0	2	2	0	1	5	184	95	262	83	34	658	663	
Illinois	108	729	1,711	1,611	1,606	5,766	-	-	-	-	-	-	5,766	
Indiana	33	141	168	39	48	429	-	-	-	-	-	-	429	
Iowa	-	-	-	0	-	0	-	-	-	-	-	-	0	
Kansas	32	148	717	351	660	1,908	-	-	17	-	2	19	1,927	
Kentucky	22	186	770	262	233	1,472	-	-	-	-	-	-	1,472	
Louisiana	23	251	718	359	530	1,882	-	1	2	-	10	13	1,895	
Maine	0	51	279	167	135	633	-	-	-	-	-	-	633	
Maryland	21	230	843	428	562	2,084	-	-	-	-	-	-	2,084	
Massachusetts	-	26	82	37	23	168	473	-	1,273	-	1,000	2,746	2,913	
Michigan	-	-	-	-	-	-	-	-	0	0	-	1	1	
Minnesota	10	13	26	13	11	73	-	-	-	-	-	-	73	
Mississippi	2	90	469	318	685	1,564	-	-	-	-	-	-	1,564	
Missouri	-	124	868	421	616	2,029	-	-	-	-	-	-	2,029	
Montana	6	32	117	67	202	425	-	-	-	-	-	-	425	
Nebraska	0	1	5	1	3	10	151	67	170	92	40	519	529	
Nevada	31	178	437	223	193	1,062	-	-	-	-	-	-	1,062	
New Hampshire	1	88	205	90	145	529	-	-	7	-	-	7	536	
New Jersey	4	34	377	587	971	1,973	200	123	732	254	33	1,342	3,315	
New Mexico	49	149	442	193	297	1,131	0	-	-	-	-	0	1,131	
New York	16	460	1,867	1,181	1,438	4,961	-	-	0	-	-	0	4,962	
North Carolina	19	667	1,946	420	349	3,401	7	8	3	-	-	18	3,419	
North Dakota	-	-	-	-	-	-	-	-	9	-	-	9	9	
Ohio	66	655	1,609	546	872	3,748	527	268	618	292	506	2,211	5,959	
Oklahoma	8	16	359	209	642	1,233	56	69	230	25	15	395	1,628	
Oregon	3	27	23	11	18	81	755	885	730	127	34	2,533	2,614	
Pennsylvania	30	244	2,198	1,371	1,853	5,696	-	-	-	-	-	-	5,696	
Rhode Island	-	6	166	125	249	547	-	-	-	-	-	-	547	
South Carolina	77	358	1,249	515	576	2,776	-	-	-	-	-	-	2,776	
South Dakota	0	5	87	89	130	310	-	-	19	2	-	21	332	
Tennessee	80	94	58	12	2	247	422	632	1,531	496	164	3,244	3,491	
Texas	-	8	18	40	89	154	2,067	2,589	5,576	1,842	2,311	14,385	14,539	
Utah	3	63	270	205	270	810	-	119	707	2	8	836	1,646	
Vermont	1	43	98	41	54	237	-	-	-	-	-	-	237	
Virginia	3	177	1,157	494	335	2,167	-	-	-	-	-	-	2,167	
Washington	7	198	1,063	538	1,097	2,903	-	-	-	-	-	-	2,903	
West Virginia	1	66	305	170	261	804	10	63	29	30	17	149	953	
Wisconsin	39	62	554	493	1,480	2,627	-	-	-	-	-	-	2,627	
Wyoming	5	60	38	3	7	112	166	128	109	59	15	476	589	
U.S. Total	1,056	8,626	31,000	16,767	25,215	82,663	5,707	6,134	14,184	3,827	4,594	34,446	117,109	
Puerto Rico (4)	-	-	45	128	286	459	139	160	403	40	-	743	1,202	
Grand Total	1,056	8,626	31,045	16,895	25,500	83,122	5,846	6,294	14,587	3,867	4,594	35,189	118,312	

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2016 (1)

## 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.