

**FUNCTIONAL SYSTEM LENGTH - 2017**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL**

TABLE HM-64  
SHEET 1 OF 4

August 23, 2018

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	INTERSTATE									TOTAL REPORTED
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	
Alabama	9	354	139	35	18	12	2	1	1	562
Alaska	1	204	341	157	114	78	45	26	35	1,001
Arizona	16	537	221	71	35	19	8	5	3	900
Arkansas	1	218	147	37	16	10	4	2	3	438
California	3	437	392	155	92	49	24	13	21	1,183
Colorado	-	134	270	127	49	31	22	10	4	648
Connecticut	-	17	7	3	1	0	0	0	0	29
Delaware	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	35	537	127	10	5	3	0	0	0	682
Georgia	-	216	209	65	26	12	5	2	2	537
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	-	270	180	40	18	7	3	1	1	520
Illinois	-	716	390	76	29	18	8	4	3	1,243
Indiana	42	450	171	42	26	17	9	6	7	728
Iowa	20	246	219	67	33	15	6	3	2	591
Kansas	-	397	173	45	15	6	2	1	0	639
Kentucky	23	419	121	28	14	10	3	1	1	598
Louisiana	13	183	132	87	67	32	12	4	2	520
Maine	0	151	79	28	14	4	2	0	0	279
Maryland	-	63	59	13	4	1	1	0	1	142
Massachusetts	-	36	22	3	1	0	0	0	1	63
Michigan	6	219	224	57	29	18	7	4	3	561
Minnesota	-	227	267	41	28	12	6	4	2	588
Mississippi	-	375	118	32	22	13	6	2	1	569
Missouri	-	545	230	38	15	8	4	1	0	842
Montana	19	556	391	69	29	12	7	5	7	1,075
Nebraska	0	240	125	29	12	5	2	1	1	414
Nevada	-	395	32	7	4	4	4	1	0	447
New Hampshire	-	116	22	3	1	-	-	-	-	142
New Jersey	-	21	21	1	1	1	0	0	-	45
New Mexico	2	532	214	58	26	9	3	2	2	845
New York	2	306	323	86	42	19	10	7	8	801
North Carolina	0	325	151	33	21	13	5	2	1	551
North Dakota	-	282	185	31	8	2	1	0	0	510
Ohio	-	350	197	51	19	12	6	3	3	643
Oklahoma	0	307	245	46	23	12	7	4	2	646
Oregon	-	244	177	52	15	4	2	1	1	495
Pennsylvania	-	451	435	104	52	22	11	6	6	1,086
Rhode Island	-	15	3	0	-	-	-	-	-	18
South Carolina	-	181	239	61	31	20	8	4	3	546
South Dakota	-	221	294	47	17	7	4	1	0	591
Tennessee	0	528	85	16	9	4	1	1	0	644
Texas	11	946	793	160	56	21	8	3	2	1,990
Utah	0	329	277	59	12	4	2	1	1	684
Vermont	1	192	52	7	3	1	1	0	-	255
Virginia	-	252	271	45	17	9	2	1	0	598
Washington	-	170	145	41	28	18	10	8	9	429
West Virginia	1	143	135	21	10	5	3	1	1	319
Wisconsin	-	221	140	70	40	24	7	5	5	512
Wyoming	-	483	215	57	30	14	4	3	2	807
U.S. Total	205	14,755	9,406	2,415	1,177	617	288	153	145	28,957
Puerto Rico	6	1	7	7	2	3	2	3	13	38
Grand Total	211	14,756	9,413	2,422	1,179	620	290	156	159	28,995



**FUNCTIONAL SYSTEM LENGTH - 2017**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

TABLE HM-64  
SHEET 3 OF 4

August 23, 2018

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	INTERSTATE									TOTAL REPORTED
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	
Alabama	4	246	82	34	26	18	12	7	4	429
Alaska	1	14	40	13	7	2	1	0	1	78
Arizona	3	152	60	21	10	3	2	1	0	249
Arkansas	-	105	105	43	20	16	8	6	8	310
California	2	243	412	213	147	99	59	43	53	1,268
Colorado	-	57	123	54	38	16	8	5	3	304
Connecticut	-	154	102	32	16	7	3	2	1	317
Delaware	1	3	19	9	3	2	2	1	1	40
District of Columbia	0	-	1	-	4	-	2	-	4	12
Florida	78	382	234	45	23	10	4	1	1	700
Georgia	-	334	236	72	33	18	8	5	4	710
Hawaii	-	1	13	11	10	9	6	3	3	55
Idaho	0	44	36	6	3	1	1	0	0	91
Illinois	-	335	395	93	53	32	16	9	7	942
Indiana	66	187	104	56	31	21	12	7	7	425
Iowa	6	57	66	21	10	6	4	3	2	170
Kansas	1	117	63	24	15	10	3	1	1	234
Kentucky	4	107	67	18	11	9	3	1	2	217
Louisiana	10	103	87	51	50	50	25	17	13	395
Maine	0	50	23	7	5	1	0	0	0	87
Maryland	0	141	120	27	15	11	6	5	12	338
Massachusetts	2	321	122	24	12	12	6	4	10	510
Michigan	3	173	269	86	58	41	23	17	15	682
Minnesota	0	86	140	47	21	16	7	4	4	325
Mississippi	-	146	48	22	15	11	5	3	3	253
Missouri	-	308	137	41	24	15	7	4	2	538
Montana	1	41	41	7	3	3	1	1	1	97
Nebraska	1	22	28	9	4	3	1	1	1	68
Nevada	-	75	39	17	13	8	2	1	1	155
New Hampshire	-	65	14	3	1	0	-	0	0	83
New Jersey	-	134	133	41	25	15	11	11	16	387
New Mexico	0	97	41	9	3	2	1	0	0	153
New York	9	225	374	127	65	44	33	23	40	931
North Carolina	0	304	252	80	42	20	12	6	4	721
North Dakota	-	22	26	7	4	1	1	0	0	61
Ohio	1	384	319	95	54	37	19	10	12	930
Oklahoma	3	89	109	34	19	14	8	5	6	283
Oregon	-	75	107	25	12	8	4	2	1	234
Pennsylvania	-	241	299	93	64	37	20	11	10	775
Rhode Island	0	19	24	5	2	1	1	0	0	52
South Carolina	-	85	118	39	27	16	10	5	4	304
South Dakota	-	16	49	14	5	2	1	0	0	88
Tennessee	3	382	100	36	17	10	4	2	2	554
Texas	16	428	543	216	135	72	27	13	7	1,442
Utah	0	70	112	38	18	10	3	2	1	253
Vermont	-	46	12	3	2	1	0	0	0	64
Virginia	13	152	223	68	33	20	7	4	2	508
Washington	-	113	124	43	22	11	7	6	8	335
West Virginia	-	102	85	20	14	7	3	2	1	235
Wisconsin	-	104	107	59	46	24	12	7	5	364
Wyoming	-	36	35	17	8	4	3	1	2	106
U.S. Total	232	7,192	6,417	2,174	1,295	806	428	263	287	18,861
Puerto Rico	24	2	44	44	35	27	18	14	48	233
Grand Total	256	7,194	6,461	2,218	1,330	833	446	277	335	19,094

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2017**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

August 23, 2018

TABLE HM-64  
 SHEET 4 OF 4

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)																			
	OTHER FREEWAYS AND EXPRESSWAYS										OTHER PRINCIPAL ARTERIAL									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	3	9	8	5	2	2	1	0	0	26	27	397	495	150	79	51	34	19	47	1,273
Alaska	-	-	-	-	-	-	-	-	-	-	5	13	35	28	19	12	9	7	11	134
Arizona	5	90	76	23	12	5	2	1	1	210	221	90	139	107	95	72	51	36	34	623
Arkansas	0	7	39	20	13	7	7	5	3	101	20	41	179	121	82	58	35	27	64	606
California	8	251	504	292	193	117	72	45	67	1,542	309	127	542	702	854	872	729	658	1,970	6,453
Colorado	-	51	145	52	33	21	10	6	6	324	0	63	228	188	170	134	86	65	134	1,068
Connecticut	-	83	105	27	16	8	3	2	1	244	-	19	143	148	124	98	61	40	78	712
Delaware	-	7	21	6	3	1	0	0	0	39	3	27	91	35	19	13	8	6	14	212
District of Columbia	0	-	2	-	6	-	4	-	4	16	1	-	0	-	9	-	24	-	73	105
Florida	72	165	247	46	23	12	5	4	3	503	133	986	1,641	557	283	163	82	52	77	3,842
Georgia	1	45	72	23	18	10	5	2	2	176	10	464	1,002	371	198	111	66	46	109	2,367
Hawaii	-	0	4	6	6	5	4	3	4	34	2	22	43	39	41	35	25	16	43	264
Idaho	1	11	10	2	1	1	1	0	0	28	94	56	111	53	35	26	16	12	28	337
Illinois	-	10	42	27	13	14	7	2	2	117	0	135	689	555	442	350	117	230	183	2,888
Indiana	16	60	45	25	15	9	5	3	3	165	81	247	417	245	192	153	99	78	168	1,598
Iowa	-	-	-	-	-	-	-	-	-	-	80	84	188	154	119	90	52	40	100	828
Kansas	0	74	66	22	11	9	4	2	2	191	9	68	102	46	33	24	13	10	15	310
Kentucky	6	34	17	7	5	3	2	1	0	69	41	154	194	82	53	41	27	16	38	605
Louisiana	0	7	12	5	9	15	9	7	8	72	120	69	203	148	124	106	77	72	154	953
Maine	-	3	7	2	2	2	1	1	1	18	2	10	43	30	21	11	9	7	15	146
Maryland	0	90	134	37	18	13	6	4	8	311	7	156	275	129	98	83	58	51	153	1,003
Massachusetts	2	148	103	27	14	8	8	3	11	322	37	47	245	277	282	271	207	174	440	1,944
Michigan	0	84	157	56	25	15	7	6	6	355	3	145	460	387	325	273	206	171	396	2,362
Minnesota	2	52	98	35	15	9	5	3	2	219	1	146	224	97	55	35	21	12	25	616
Mississippi	-	14	30	8	5	3	2	1	1	64	1	124	273	156	109	81	52	39	117	950
Missouri	3	186	176	58	30	21	9	5	5	491	2	137	273	133	97	73	50	35	69	867
Montana	-	-	-	-	-	-	-	-	-	-	5	24	61	41	31	24	17	15	38	252
Nebraska	7	16	45	17	11	9	7	6	13	124	57	13	45	30	29	25	22	22	76	269
Nevada	-	22	9	7	8	4	2	0	0	53	6	117	93	48	38	26	18	9	19	368
New Hampshire	-	56	14	2	1	1	0	0	0	74	0	57	66	29	18	13	10	7	23	224
New Jersey	-	133	177	58	29	18	15	8	15	453	1	123	340	228	215	200	154	140	401	1,801
New Mexico	-	1	5	5	0	0	0	-	-	12	4	90	163	108	94	77	47	34	68	681
New York	79	41	214	134	97	79	57	44	70	737	144	87	654	473	358	292	207	185	753	3,009
North Carolina	1	175	182	63	31	18	7	4	5	486	78	152	646	405	265	158	100	61	128	1,915
North Dakota	-	-	-	-	-	-	-	-	-	-	1	24	58	35	28	19	13	9	23	209
Ohio	1	175	235	71	37	27	13	10	11	578	21	207	596	386	314	248	163	130	382	2,425
Oklahoma	1	40	81	34	23	13	6	4	3	204	14	70	208	174	176	142	108	85	195	1,158
Oregon	4	23	22	7	3	2	1	1	1	59	20	85	258	155	118	82	51	32	55	836
Pennsylvania	-	94	229	102	59	43	18	10	9	565	-	176	629	486	435	324	222	177	349	2,798
Rhode Island	1	14	30	16	10	4	3	1	2	80	6	7	21	28	44	48	39	39	112	337
South Carolina	0	16	37	13	7	5	2	1	2	84	-	51	337	247	172	117	58	33	49	1,064
South Dakota	-	1	7	4	3	1	1	0	0	18	-	6	30	24	25	17	14	12	10	137
Tennessee	1	74	51	20	13	6	3	3	2	172	76	517	650	244	153	93	60	40	77	1,834
Texas	118	193	508	265	163	95	37	15	10	1,286	419	625	1,477	919	696	543	385	318	769	5,731
Utah	-	19	20	6	3	1	0	0	0	49	7	108	246	119	75	43	24	15	20	649
Vermont	0	3	8	2	1	1	0	0	0	16	3	15	42	22	15	10	5	10	123	
Virginia	3	79	178	50	22	13	6	2	1	352	23	54	367	277	219	164	105	69	75	1,330
Washington	0	113	187	50	28	14	8	7	15	421	24	50	250	227	195	155	110	99	332	1,419
West Virginia	0	0	3	3	2	2	1	2	1	14	3	21	163	81	51	31	16	15	19	396
Wisconsin	-	56	82	82	59	30	12	5	12	340	0	90	247	287	317	262	189	149	401	1,942
Wyoming	-	1	0	1	0	0	0	-	0	3	4	35	70	33	22	16	12	9	21	218
U.S. Total	336	2,826	4,444	1,822	1,101	699	381	230	313	11,816	2,127	6,629	15,951	10,045	8,059	6,368	4,479	3,578	9,081	64,189
Puerto Rico	55	-	-	0	0	0	0	-	1	1	318	-	2	5	8	11	10	9	32	77
Grand Total	390	2,826	4,444	1,822	1,101	699	382	230	314	11,817	2,445	6,629	15,953	10,049	8,067	6,380	4,489	3,586	9,112	64,266

For footnotes, see Footnotes Page.

# **FUNCTIONAL SYSTEM LENGTH - 2017**

## **MILES BY MEASURED PAVEMENT ROUGHNESS**

HM-64 Footnotes Page:

- (1) Data are reported as the International Roughness Index (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. Includes structures.
- (2) Includes unpaved miles and bridges.
- (3) Estimated from sample data.