

**FUNCTIONAL SYSTEM LENGTH - 2015**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL**

TABLE HM-64  
SHEET 1 OF 4

DECEMBER 2016

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	1	363	141	34	20	7	3	1	2	571
Alaska	-	200	359	163	118	73	40	24	25	1,002
Arizona	1	497	290	75	32	11	4	2	4	916
Arkansas	0	194	137	41	18	8	5	3	3	409
California	-	614	383	118	51	21	9	5	9	1,209
Colorado	-	141	252	129	58	30	21	9	9	648
Connecticut	-	12	10	4	2	0	0	0	0	29
Delaware	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	105	376	206	18	8	3	1	0	0	612
Georgia	1	239	201	55	22	10	4	2	2	534
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	-	275	172	41	16	7	4	3	3	521
Illinois	-	665	444	119	16	-	-	-	-	1,243
Indiana	141	377	141	40	27	18	11	6	7	627
Iowa	7	246	233	81	28	9	4	2	2	605
Kansas	-	427	161	32	12	4	2	1	1	639
Kentucky	1	444	116	31	16	9	3	1	1	622
Louisiana	6	194	127	85	69	32	13	4	3	527
Maine	-	203	70	20	4	2	0	0	0	299
Maryland	0	49	74	11	4	1	1	0	1	142
Massachusetts	-	19	32	7	2	1	0	0	1	64
Michigan	5	214	220	60	31	17	11	5	3	561
Minnesota	-	191	274	65	30	16	10	5	3	594
Mississippi	2	338	137	31	20	13	7	4	4	552
Missouri	-	470	291	48	17	9	4	2	0	842
Montana	-	411	552	87	24	12	5	2	2	1,094
Nebraska	8	266	99	26	11	3	1	1	1	407
Nevada	0	388	30	11	8	7	2	1	0	448
New Hampshire	-	120	20	2	0	0	-	-	-	142
New Jersey	-	22	18	3	1	1	1	0	0	45
New Mexico	1	562	200	46	22	8	4	2	1	845
New York	20	273	349	77	35	17	12	9	11	783
North Carolina	10	310	162	36	19	10	2	1	1	541
North Dakota	-	237	231	33	7	3	0	0	0	511
Ohio	1	324	221	52	23	12	5	3	2	642
Oklahoma	-	285	240	57	28	18	9	6	3	646
Oregon	0	247	176	50	13	5	2	1	1	495
Pennsylvania	0	431	488	110	41	25	8	4	4	1,112
Rhode Island	-	14	3	0	0	-	0	0	0	18
South Carolina	-	116	281	85	58	3	2	0	1	546
South Dakota	-	231	290	43	17	7	3	0	0	591
Tennessee	10	490	54	10	5	3	1	0	0	564
Texas	-	724	945	210	67	30	11	7	6	2,001
Utah	1	388	239	41	10	4	1	1	0	683
Vermont	0	204	46	5	2	1	0	0	-	258
Virginia	0	161	234	49	18	5	2	0	0	469
Washington	-	174	140	50	27	16	9	7	6	429
West Virginia	11	118	143	19	9	5	3	1	1	298
Wisconsin	0	194	169	60	36	26	18	6	4	512
Wyoming	-	362	306	71	39	17	6	4	3	808
U.S. Total	333	13,800	10,107	2,540	1,141	540	263	134	132	28,657
Puerto Rico (4)	-	-	1	10	4	11	5	4	7	42
Grand Total	333	13,800	10,108	2,550	1,145	551	268	138	139	28,699

For footnotes, see Footnotes Page.



**FUNCTIONAL SYSTEM LENGTH - 2015**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

TABLE HM-64  
SHEET 3 OF 4

DECEMBER 2016

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	2	218	109	32	25	16	11	8	8	427
Alaska	-	17	40	11	5	3	2	1	1	79
Arizona	0	148	71	21	8	3	1	1	0	252
Arkansas	0	90	101	39	22	18	11	6	6	293
California	0	349	448	150	110	76	48	26	34	1,241
Colorado	-	67	121	60	32	12	5	3	4	304
Connecticut	-	130	104	40	21	11	5	4	3	317
Delaware	5	3	21	7	2	1	0	0	0	36
Dist. of Columbia	-	-	-	-	5	2	0	1	4	12
Florida	98	314	273	51	24	10	5	1	1	680
Georgia	2	357	216	66	34	17	9	6	5	710
Hawaii	-	1	12	9	10	9	5	4	4	55
Idaho	-	36	34	11	5	3	1	1	1	90
Illinois	-	256	469	113	79	17	6	1	2	942
Indiana	94	148	105	64	36	21	14	8	10	404
Iowa	4	50	75	23	11	7	3	2	1	172
Kansas	3	101	69	29	16	9	5	2	1	232
Kentucky	-	114	65	18	12	6	3	2	2	220
Louisiana	1	105	90	54	49	51	23	17	15	403
Maine	-	33	19	6	3	2	1	1	1	66
Maryland	1	115	132	33	19	13	8	7	10	337
Massachusetts	2	300	140	21	11	8	5	6	15	508
Michigan	3	182	264	90	52	41	25	17	13	683
Minnesota	9	71	130	52	24	15	10	4	6	312
Mississippi	-	131	63	22	16	11	5	3	2	253
Missouri	0	256	179	46	25	16	8	4	3	538
Montana	-	39	44	7	3	2	1	0	1	98
Nebraska	6	20	25	8	4	2	1	1	-	61
Nevada	0	79	31	18	12	6	2	1	0	150
New Hampshire	-	64	14	3	1	1	0	0	-	83
New Jersey	1	128	138	42	23	16	10	11	17	386
New Mexico	0	102	27	10	8	4	1	1	1	153
New York	22	209	378	116	68	46	33	22	48	919
North Carolina	34	267	273	82	37	15	6	3	2	686
North Dakota	-	17	30	8	3	2	0	-	0	60
Ohio	0	349	355	96	61	36	16	9	9	931
Oklahoma	0	71	119	39	21	15	9	5	8	286
Oregon	-	81	106	22	9	7	5	3	2	234
Pennsylvania	7	211	321	88	58	33	16	12	10	748
Rhode Island	-	19	23	5	2	1	1	1	1	52
South Carolina	-	48	128	65	37	19	5	2	0	304
South Dakota	-	11	50	14	7	4	1	0	0	88
Tennessee	4	371	96	29	15	7	4	2	3	526
Texas	1	315	568	235	142	82	38	21	14	1,415
Utah	0	89	96	37	16	10	4	1	0	253
Vermont	2	35	19	4	1	1	0	-	-	60
Virginia	15	152	289	104	48	26	12	6	3	638
Washington	-	113	122	46	20	12	7	7	7	335
West Virginia	3	101	91	21	14	8	3	1	2	241
Wisconsin	-	105	96	78	37	23	14	6	5	363
Wyoming	-	26	45	18	7	4	2	1	2	106
U.S. Total	321	6,615	6,835	2,260	1,310	777	411	249	285	18,742
Puerto Rico (4)	2	-	30	74	47	44	28	7	6	236
Grand Total	323	6,615	6,865	2,334	1,357	821	439	256	291	18,978

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2015**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

TABLE HM-64  
SHEET 4 OF 4

DECEMBER 2016

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	0	11	8	4	1	1	1	0	0	26	132	427	441	123	65	44	25	16	24	1,165
Alaska	-	-	-	-	-	-	-	-	-	-	-	10	43	24	17	13	9	6	13	136
Arizona	22	72	87	19	9	4	1	0	1	192	181	87	176	122	91	59	38	27	62	662
Arkansas	6	16	42	19	12	8	6	5	3	110	29	41	182	119	85	55	37	24	57	601
California	-	317	569	265	169	107	58	38	53	1,576	-	195	504	635	738	779	698	643	2,388	6,579
Colorado	-	27	136	67	42	25	13	7	7	324	0	55	188	161	180	158	100	79	145	1,068
Connecticut	-	51	112	40	18	10	4	3	7	244	-	4	61	97	109	95	71	57	217	710
Delaware	2	7	16	5	1	0	0	0	0	30	5	26	83	31	18	11	6	5	10	189
Dist. of Columbia	-	-	-	2	3	4	2	2	3	16	-	-	-	-	-	2	1	3	101	107
Florida	39	188	252	46	23	13	6	4	2	533	171	868	1,644	607	320	158	83	50	73	3,805
Georgia	30	42	42	19	14	8	4	2	2	133	299	531	853	262	141	74	40	29	77	2,006
Hawaii	-	-	4	6	7	5	3	3	5	34	-	20	48	43	37	40	24	18	36	265
Idaho	-	-	-	-	-	-	-	-	-	-	67	64	122	63	40	33	26	18	38	405
Illinois	-	6	49	17	17	8	12	-	-	109	-	196	719	670	569	347	216	186	247	3,150
Indiana	41	43	36	22	13	7	3	3	2	129	619	220	332	159	112	82	52	37	64	1,057
Iowa	-	-	-	-	-	-	-	-	-	-	58	68	183	168	130	94	57	48	101	848
Kansas	0	76	67	17	13	7	3	4	1	187	13	72	104	44	36	24	15	13	16	325
Kentucky	3	33	17	7	5	3	2	1	0	70	104	130	168	74	52	38	18	15	26	522
Louisiana	0	7	10	8	10	14	10	7	7	72	90	85	204	144	122	107	83	69	169	984
Maine	-	4	8	1	2	2	0	1	0	18	-	7	47	21	16	11	9	5	18	134
Maryland	1	79	131	36	23	14	7	4	9	303	14	160	320	161	126	94	69	50	189	1,169
Massachusetts	2	105	108	35	21	16	10	7	18	320	117	36	205	266	274	266	202	172	442	1,863
Michigan	0	89	158	54	25	12	8	6	5	356	31	122	458	370	313	265	202	167	432	2,330
Minnesota	3	28	65	29	14	10	5	4	5	159	23	175	270	119	70	46	24	22	59	785
Mississippi	-	17	29	8	5	3	2	1	1	64	7	115	257	158	108	80	56	40	135	949
Missouri	4	152	199	57	29	18	10	5	5	475	29	117	305	144	101	73	45	31	58	873
Montana	-	-	-	-	-	-	-	-	-	-	6	25	65	45	31	21	16	12	32	248
Nebraska	23	18	39	15	8	7	5	4	8	104	119	16	42	34	36	34	26	24	64	276
Nevada	0	28	9	8	7	2	1	0	0	55	4	124	111	46	28	17	9	7	12	354
New Hampshire	-	56	14	3	1	0	0	0	0	74	1	43	67	35	21	14	10	8	22	221
New Jersey	1	128	183	53	29	21	14	8	16	452	3	86	292	237	225	208	155	141	456	1,801
New Mexico	-	1	8	2	0	0	-	-	-	11	72	90	145	93	83	66	42	30	63	612
New York	4	54	244	134	99	89	63	47	79	810	33	76	626	477	366	287	212	184	836	3,065
North Carolina	30	130	201	56	25	12	4	2	4	435	60	131	685	408	261	150	83	55	143	1,917
North Dakota	-	-	-	-	-	-	-	-	-	-	-	18	46	35	29	21	12	8	19	188
Ohio	2	174	249	66	39	25	12	7	8	579	17	182	572	396	321	260	180	140	358	2,411
Oklahoma	3	35	79	29	20	16	7	4	5	195	65	82	195	168	147	132	108	95	176	1,104
Oregon	-	23	21	7	2	1	1	0	1	57	5	98	256	155	100	71	48	37	85	851
Pennsylvania	2	77	195	99	68	41	22	11	11	524	9	150	605	479	408	338	227	186	410	2,804
Rhode Island	0	8	31	15	10	6	4	2	3	80	1	2	20	30	49	51	41	41	108	341
South Carolina	-	10	43	18	6	3	3	0	0	84	-	28	272	321	233	127	39	26	21	1,064
South Dakota	-	1	9	4	2	1	1	0	0	18	0	6	28	21	17	14	14	10	23	134
Tennessee	9	64	50	16	10	6	4	2	2	155	45	532	588	238	129	94	52	41	75	1,750
Texas	7	189	583	311	196	122	57	23	20	1,503	128	488	1,566	1,014	741	588	381	307	870	5,955
Utah	11	14	13	4	1	1	0	0	0	33	113	98	208	96	58	35	18	13	13	537
Vermont	0	3	8	2	1	1	0	0	0	16	5	10	34	19	13	9	6	5	13	108
Virginia	14	67	160	57	26	19	8	4	4	345	41	98	497	353	251	181	113	78	115	1,684
Washington	-	113	181	55	25	15	8	7	13	417	19	47	249	243	182	157	108	96	339	1,421
West Virginia	-	0	3	2	2	2	2	1	2	14	6	26	154	84	53	34	22	15	20	409
Wisconsin	-	40	86	80	59	32	14	7	11	329	3	85	279	293	303	268	167	144	401	1,940
Wyoming	-	1	0	0	0	0	0	-	0	3	12	23	68	40	27	16	11	10	22	217
U.S. Total	261	2,602	4,555	1,819	1,111	725	401	237	327	11,777	2,756	6,396	15,586	10,147	7,984	6,240	4,307	3,543	9,895	64,099
Puerto Rico (4)	2	-	-	3	9	12	11	7	8	50	13	-	4	26	53	65	74	55	111	388
Grand Total	263	2,602	4,555	1,822	1,120	737	412	244	335	11,827	2,769	6,396	15,590	10,173	8,037	6,305	4,381	3,598	10,006	64,487

For footnotes, see Footnotes Page.

# **FUNCTIONAL SYSTEM LENGTH - 2015**

## **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) May include unpaved miles.
- (3) Estimated from sample data.
- (4) 2009 data.