

FUNCTIONAL SYSTEM LENGTH - 2018
MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

August 30, 2019

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	3	409	104	22	16	9	3	2	2	567
Alaska	-	204	330	152	113	86	49	30	38	1,002
Arizona	2	538	223	78	38	16	11	5	5	915
Arkansas	-	235	139	33	15	9	3	3	3	439
California	9	520	369	144	76	33	16	8	11	1,177
Colorado	-	135	288	117	39	25	23	15	6	648
Connecticut	-	17	6	3	1	1	0	0	0	29
Delaware	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	0	601	97	7	6	3	2	1	1	717
Georgia	-	215	224	57	23	9	6	2	2	537
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	1	309	152	32	16	7	3	1	2	522
Illinois	-	741	365	76	31	17	6	4	4	1,243
Indiana	13	433	189	65	31	19	13	9	12	771
Iowa	26	288	205	57	22	7	3	2	2	585
Kansas	-	391	179	44	16	6	2	1	0	639
Kentucky	2	504	137	32	19	10	4	1	2	709
Louisiana	7	193	134	87	65	29	11	4	2	526
Maine	-	154	76	26	13	6	2	1	1	279
Maryland	-	66	57	11	5	1	0	0	1	142
Massachusetts	-	34	22	4	2	1	0	1	0	64
Michigan	4	182	238	67	34	20	9	6	3	558
Minnesota	0	192	295	50	29	11	5	3	3	588
Mississippi	-	387	115	31	22	13	6	2	2	578
Missouri	-	585	200	31	14	7	3	1	1	842
Montana	-	573	397	68	29	14	5	3	4	1,094
Nebraska	3	213	145	25	15	9	3	1	1	412
Nevada	7	400	28	10	3	3	3	1	1	450
New Hampshire	-	112	24	4	2	1	-	-	-	142
New Jersey	-	17	23	3	1	0	0	1	-	45
New Mexico	-	561	176	55	27	14	5	2	3	843
New York	11	316	305	85	44	19	8	6	8	793
North Carolina	1	386	123	23	15	7	4	2	0	560
North Dakota	-	253	204	37	10	3	1	1	0	510
Ohio	-	346	196	56	23	12	5	2	3	643
Oklahoma	1	286	261	49	24	13	6	5	3	645
Oregon	-	280	158	37	13	4	1	1	1	495
Pennsylvania	-	519	365	89	56	20	9	8	9	1,074
Rhode Island	-	15	2	0	0	0	0	0	0	18
South Carolina	-	360	132	30	14	6	2	1	1	546
South Dakota	-	219	313	36	13	6	3	1	-	591
Tennessee	0	519	92	14	10	5	2	2	0	644
Texas	1	894	821	181	62	27	8	4	3	2,000
Utah	-	378	236	52	11	5	2	1	1	684
Vermont	1	176	60	11	6	2	1	0	0	255
Virginia	-	272	268	40	11	6	1	0	0	598
Washington	-	170	145	41	28	18	10	8	9	429
West Virginia	0	159	111	24	12	6	4	1	2	319
Wisconsin	-	247	136	46	42	23	8	6	4	512
Wyoming	-	483	211	62	28	14	5	2	3	807
U.S. Total	92	15,486	9,074	2,302	1,143	585	279	160	158	29,188
Puerto Rico (4)	-	-	1	10	4	11	5	4	7	42
Grand Total	92	15,486	9,075	2,312	1,147	596	284	164	165	29,230

FUNCTIONAL SYSTEM LENGTH - 2018
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 3 OF 4

August 30, 2019

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	260	76	31	24	18	11	6	6	432
Alaska	-	28	28	12	5	3	1	0	1	79
Arizona	2	147	59	23	12	5	3	1	1	250
Arkansas	-	117	103	39	22	13	7	5	4	310
California	14	262	431	214	153	90	47	31	28	1,256
Colorado	-	67	118	51	37	16	8	4	3	304
Connecticut	-	152	103	32	15	8	3	2	3	318
Delaware	-	5	17	7	5	3	2	1	1	41
District of Columbia	0	-	1	-	4	-	2	-	4	12
Florida	-	448	235	39	22	16	9	5	4	778
Georgia	-	370	208	69	30	16	9	4	4	710
Hawaii	-	1	12	12	9	10	5	3	3	55
Idaho	0	51	29	6	4	2	1	0	0	93
Illinois	1	322	389	90	57	37	22	13	12	940
Indiana	3	188	129	69	46	30	15	10	12	500
Iowa	13	61	64	20	9	5	2	2	2	165
Kansas	1	119	57	26	16	9	4	2	1	234
Kentucky	1	118	66	20	14	7	3	2	1	231
Louisiana	11	108	91	53	48	49	26	13	11	400
Maine	-	53	20	7	3	3	0	0	0	87
Maryland	0	137	124	29	15	10	6	6	11	338
Massachusetts	0	317	112	31	18	13	8	4	6	508
Michigan	3	125	295	89	58	44	24	18	19	673
Minnesota	0	79	143	49	23	15	8	4	5	325
Mississippi	-	148	48	24	16	10	4	2	1	253
Missouri	-	310	137	39	24	16	7	4	3	538
Montana	-	41	42	6	4	2	1	0	1	98
Nebraska	2	19	26	10	6	3	1	1	1	67
Nevada	8	72	39	19	14	5	3	2	1	155
New Hampshire	-	65	14	3	1	0	0	-	-	83
New Jersey	-	128	150	34	22	17	12	9	15	387
New Mexico	-	105	29	9	6	4	1	1	1	156
New York	48	231	353	131	66	44	26	16	23	890
North Carolina	5	353	230	81	41	21	9	3	2	740
North Dakota	-	18	28	8	4	2	1	0	0	61
Ohio	-	383	318	103	57	33	16	10	11	931
Oklahoma	1	86	112	38	17	14	8	5	5	285
Oregon	-	102	89	19	10	7	4	2	1	234
Pennsylvania	-	279	284	87	52	33	21	14	18	788
Rhode Island	-	17	26	5	2	1	0	0	1	52
South Carolina	-	152	86	29	20	9	4	2	2	304
South Dakota	-	14	51	12	5	3	1	0	0	88
Tennessee	0	366	112	40	19	9	6	2	3	557
Texas	5	410	549	224	135	80	34	15	7	1,453
Utah	-	81	109	34	15	9	3	2	1	253
Vermont	-	43	16	3	2	0	0	0	0	64
Virginia	0	154	235	69	28	19	8	4	2	521
Washington	-	113	124	43	22	11	7	6	8	335
West Virginia	0	118	64	21	13	9	5	2	3	235
Wisconsin	3	117	105	52	41	26	8	7	6	363
Wyoming	-	38	29	17	11	5	2	2	2	106
U.S. Total	124	7,499	6,315	2,179	1,302	814	419	248	260	19,035
Puerto Rico (4)	2	-	30	74	47	44	28	7	6	236
Grand Total	126	7,499	6,345	2,253	1,349	858	447	255	266	19,271

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2018
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

August 30, 2019

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	1	11	9	4	2	1	1	0	0	29	13	435	491	151	79	44	31	20	38	1,288
Alaska	-	-	-	-	-	-	-	-	-	-	1	14	39	28	18	15	7	7	7	139
Arizona	6	87	80	21	12	5	2	1	1	209	230	79	134	112	99	79	48	35	31	618
Arkansas	1	11	38	19	11	9	6	6	3	102	20	57	191	120	78	62	34	26	43	610
California	5	303	548	291	183	103	56	33	29	1,545	36	150	554	747	857	968	759	722	1,904	6,660
Colorado	-	68	139	52	29	18	8	5	6	324	0	75	253	193	161	123	78	59	126	1,068
Connecticut	-	79	110	29	13	9	2	1	1	244	-	17	150	147	121	92	60	43	82	712
Delaware	1	4	22	7	3	1	1	0	0	38	1	18	89	41	20	14	9	6	16	213
District of Columbia	-	-	2	-	6	0	4	-	4	15	-	-	0	-	9	0	24	0	73	107
Florida	-	218	249	54	26	15	6	4	3	574	8	931	1,673	620	308	181	92	57	87	3,951
Georgia	6	57	64	19	15	10	4	1	2	171	77	580	981	326	170	99	57	38	62	2,313
Hawaii	-	0	7	7	6	5	2	2	4	34	-	19	40	45	37	41	24	18	44	269
Idaho	8	8	9	1	1	1	1	0	-	21	152	56	86	40	24	22	11	9	13	259
Illinois	3	20	37	15	15	12	8	5	4	115	14	161	737	538	431	315	218	161	312	2,873
Indiana	21	44	38	28	15	9	6	3	3	146	623	273	350	176	123	85	55	39	52	1,152
Iowa	-	-	-	-	-	-	-	-	-	-	22	92	200	169	130	93	57	44	107	893
Kansas	0	76	64	21	12	8	5	2	2	191	0	75	84	45	36	26	17	11	16	311
Kentucky	1	32	13	8	5	3	2	1	0	64	33	154	196	85	64	41	23	19	32	614
Louisiana	0	8	11	7	12	11	9	7	7	72	105	81	206	142	122	107	80	75	156	968
Maine	-	3	6	2	2	2	1	1	1	17	0	14	32	23	17	14	8	5	17	129
Maryland	0	88	133	36	20	12	6	5	7	308	16	156	285	131	94	78	56	51	157	1,008
Massachusetts	1	156	104	24	12	9	5	4	8	322	28	46	257	270	275	278	196	170	457	1,947
Michigan	2	85	155	55	23	14	7	7	5	351	5	138	453	397	328	276	210	165	391	2,358
Minnesota	0	56	93	35	17	9	5	3	3	221	2	151	223	96	56	34	17	13	26	615
Mississippi	-	13	30	9	5	3	2	1	1	64	0	115	282	170	113	74	52	37	105	949
Missouri	3	184	173	60	29	23	10	6	6	491	1	128	281	130	100	72	48	39	71	868
Montana	-	-	-	-	-	-	-	-	-	-	4	27	58	42	31	24	17	16	40	254
Nebraska	15	15	43	19	8	8	6	4	13	115	79	12	41	29	27	28	24	20	65	247
Nevada	-	23	9	11	6	3	1	0	0	53	12	119	107	47	31	27	13	9	13	365
New Hampshire	-	56	14	2	2	1	0	0	-	74	0	63	67	28	19	12	8	6	21	223
New Jersey	-	140	179	56	25	20	12	7	14	453	-	141	356	216	197	184	151	136	418	1,799
New Mexico	-	1	4	4	2	0	0	-	0	12	29	91	152	101	90	71	45	34	88	672
New York	42	51	247	134	98	80	56	42	66	774	112	90	660	480	367	291	208	193	759	3,049
North Carolina	18	184	164	48	25	16	8	5	5	455	31	184	640	423	269	171	95	62	120	1,964
North Dakota	-	-	-	-	-	-	-	-	-	-	1	23	53	38	32	17	13	9	23	207
Ohio	1	173	235	78	38	24	13	9	9	580	12	205	562	379	308	251	177	138	415	2,435
Oklahoma	13	43	80	28	17	12	6	3	3	192	669	44	149	88	74	51	29	24	47	506
Oregon	0	22	25	9	3	2	2	0	0	63	2	97	254	162	117	81	51	33	58	853
Pennsylvania	-	94	226	102	57	39	19	11	18	568	-	181	649	496	439	332	224	167	372	2,860
Rhode Island	2	19	25	14	9	4	3	2	3	79	18	5	19	26	43	49	41	37	104	324
South Carolina	-	18	36	13	6	6	2	1	1	84	-	56	339	246	172	111	58	34	49	1,064
South Dakota	-	0	7	5	4	1	1	0	0	18	8	6	33	22	20	17	13	10	8	129
Tennessee	0	73	49	19	13	8	5	2	3	173	67	457	672	254	160	100	69	42	83	1,835
Texas	54	194	500	280	183	101	46	21	16	1,342	74	626	1,510	933	703	567	409	332	1,019	6,101
Utah	-	18	19	7	3	1	0	0	0	49	11	115	249	116	69	41	21	13	22	648
Vermont	0	2	10	3	1	1	-	-	0	16	3	12	41	24	14	11	6	4	11	124
Virginia	1	79	172	48	27	15	5	3	1	351	23	58	369	277	218	161	102	73	74	1,332
Washington	-	113	187	50	28	15	8	7	15	421	21	52	255	230	200	162	117	97	309	1,422
West Virginia	0	0	3	3	2	2	1	2	1	14	3	32	148	81	51	32	17	15	20	396
Wisconsin	-	69	91	70	52	36	13	5	7	342	22	82	277	296	316	274	205	148	328	1,927
Wyoming	-	2	0	0	-	0	-	0	-	3	17	39	73	34	21	15	11	8	19	219
U.S. Total	204	2,999	4,456	1,811	1,083	685	366	220	276	11,896	2,608	6,829	16,002	10,012	7,858	6,310	4,395	3,528	8,912	63,846
Puerto Rico (4)	2	-	-	3	9	12	11	7	8	50	13	-	4	26	53	65	74	55	111	388
Grand Total	206	2,999	4,456	1,814	1,092	697	377	227	284	11,946	2,621	6,829	16,006	10,038	7,911	6,375	4,469	3,583	9,023	64,234

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2018

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.
- (4) 2009 data.