

FUNCTIONAL SYSTEM LENGTH - 2019
MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

September 30, 2020

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	0	431	86	24	15	6	3	1	4	571
Alaska	10	249	341	150	102	67	36	21	24	991
Arizona	6	539	223	79	33	16	7	4	8	910
Arkansas	-	232	137	35	16	9	5	3	3	439
California	1	563	364	139	76	34	17	9	12	1,213
Colorado	-	124	299	115	43	27	21	12	6	648
Connecticut	-	16	7	3	2	0	0	0	0	29
Delaware	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	0	600	98	8	5	3	2	1	1	717
Georgia	-	236	211	56	19	7	4	1	2	537
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	0	329	140	27	12	6	2	1	2	519
Illinois	-	714	348	94	41	24	10	6	6	1,243
Indiana	1	306	283	86	56	21	14	8	11	784
Iowa	5	311	211	55	21	7	3	1	2	610
Kansas	1	381	176	53	18	7	3	1	1	640
Kentucky	0	499	137	35	19	13	4	2	3	711
Louisiana	10	200	118	85	65	33	12	4	2	520
Maine	-	155	67	25	17	8	4	2	1	279
Maryland	-	65	59	10	5	2	1	0	1	142
Massachusetts	-	37	16	5	2	1	1	0	1	63
Michigan	4	190	246	58	30	16	9	5	5	558
Minnesota	-	174	296	56	31	17	9	4	2	588
Mississippi	-	400	107	30	19	13	6	2	2	578
Missouri	-	595	189	34	12	6	3	2	1	842
Montana	-	576	392	71	29	14	5	3	4	1,094
Nebraska	-	188	167	33	12	8	4	1	2	415
Nevada	-	409	30	8	5	3	2	1	0	457
New Hampshire	-	111	24	4	2	1	0	0	-	142
New Jersey	-	18	21	3	1	1	0	0	0	45
New Mexico	-	522	195	60	32	17	6	4	6	843
New York	6	366	277	75	37	21	7	6	8	798
North Carolina	5	402	108	21	14	7	5	1	1	559
North Dakota	-	360	119	20	7	1	1	0	0	510
Ohio	-	362	183	49	23	14	5	2	4	643
Oklahoma	19	255	259	60	26	16	7	5	4	631
Oregon	-	293	146	36	13	4	1	1	1	495
Pennsylvania	-	562	319	90	46	24	11	7	8	1,066
Rhode Island	-	15	2	0	0	0	-	-	0	18
South Carolina	-	339	109	35	23	17	10	6	7	546
South Dakota	2	184	343	39	12	8	2	1	0	589
Tennessee	0	491	110	21	12	6	3	2	0	645
Texas	2	911	796	184	66	26	9	4	3	1,998
Utah	-	336	257	68	17	4	1	0	0	685
Vermont	1	170	66	10	5	3	1	0	0	255
Virginia	-	284	257	38	11	5	2	0	0	598
Washington	-	194	136	41	24	11	9	8	7	429
West Virginia	-	172	106	20	10	5	4	1	2	319
Wisconsin	-	229	167	55	32	18	6	3	2	513
Wyoming	-	510	203	53	26	8	5	2	1	807
U.S. Total	73	15,607	8,948	2,357	1,146	584	281	149	159	29,231
Puerto Rico	5	1	8	5	4	4	2	5	14	42
Grand Total	78	15,607	8,956	2,362	1,150	588	283	154	173	29,273

FUNCTIONAL SYSTEM LENGTH - 2019
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 3 OF 4

September 30, 2020

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	270	70	29	21	15	9	6	12	432
Alaska	0	37	25	9	4	2	1	0	0	79
Arizona	4	142	67	20	9	5	3	1	2	249
Arkansas	-	108	105	40	25	13	8	5	6	310
California	4	285	413	209	145	86	47	25	27	1,238
Colorado	-	66	113	49	40	18	9	5	4	304
Connecticut	-	156	107	29	15	7	3	1	1	318
Delaware	2	7	12	9	5	1	2	1	1	38
District of Columbia	0	-	2	2	2	2	1	1	3	12
Florida	-	458	214	43	25	17	10	6	6	778
Georgia	-	393	186	65	31	16	10	4	5	710
Hawaii	-	1	12	10	11	9	5	3	4	55
Idaho	-	52	29	5	3	1	1	0	0	92
Illinois	3	325	367	88	61	38	27	15	17	939
Indiana	1	127	167	82	55	29	13	8	10	491
Iowa	11	64	70	19	9	7	3	2	2	175
Kansas	2	109	65	28	15	9	4	2	2	234
Kentucky	1	118	68	19	13	7	4	2	1	232
Louisiana	18	128	78	48	46	47	23	13	13	395
Maine	-	59	18	5	2	2	1	0	0	87
Maryland	0	131	125	30	17	11	6	6	12	338
Massachusetts	4	330	101	27	18	13	6	3	5	502
Michigan	3	137	301	89	53	38	24	15	16	673
Minnesota	0	76	144	45	25	16	9	4	6	325
Mississippi	-	155	47	17	14	11	5	2	2	253
Missouri	-	306	136	39	25	17	7	4	4	538
Montana	-	49	36	5	4	2	1	0	1	98
Nebraska	-	18	30	11	5	3	1	1	1	69
Nevada	-	78	39	22	15	6	2	1	0	163
New Hampshire	-	70	10	2	1	0	-	-	-	83
New Jersey	-	122	151	34	26	15	12	9	17	387
New Mexico	-	99	34	9	6	4	3	1	2	156
New York	13	228	347	141	70	48	29	19	38	920
North Carolina	9	397	240	75	35	17	7	4	3	778
North Dakota	-	30	23	5	2	1	0	0	-	61
Ohio	-	436	283	89	48	34	19	10	12	931
Oklahoma	15	71	112	38	21	13	7	5	5	272
Oregon	-	111	82	19	10	6	4	2	1	234
Pennsylvania	0	285	261	96	56	38	27	14	21	797
Rhode Island	-	27	16	4	2	2	1	0	0	52
South Carolina	-	164	82	26	15	6	3	1	7	304
South Dakota	0	11	50	16	6	3	2	0	0	88
Tennessee	0	348	131	41	19	7	4	2	3	557
Texas	3	388	567	233	141	77	31	13	6	1,456
Utah	-	77	114	37	14	7	3	1	1	253
Vermont	-	40	19	3	1	1	0	0	0	64
Virginia	1	159	234	67	29	17	9	3	2	521
Washington	-	140	111	41	19	12	6	4	3	335
West Virginia	0	124	64	17	11	8	5	2	3	235
Wisconsin	2	103	109	63	48	25	10	3	2	364
Wyoming	-	43	35	13	6	4	2	2	1	106
U.S. Total	97	7,660	6,219	2,160	1,297	793	427	233	290	19,080
Puerto Rico	19	3	49	42	39	29	19	18	39	238
Grand Total	116	7,663	6,268	2,201	1,336	822	447	252	329	19,318

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2019
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 4 OF 4

September 30, 2020

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	12	11	5	3	1	0	0	1	33	22	486	479	130	66	39	24	18	52	1,293
Alaska	-	-	-	-	-	-	-	-	-	-	0	22	53	28	15	10	4	3	5	140
Arizona	12	113	78	24	15	7	1	1	1	240	223	63	143	125	101	78	51	35	35	632
Arkansas	1	11	38	19	11	9	6	6	2	102	14	58	194	122	79	63	34	26	40	615
California	23	276	529	265	174	94	52	27	29	1,445	394	215	554	631	774	814	690	644	1,909	6,232
Colorado	0	64	138	55	31	16	9	6	5	324	0	71	248	196	160	122	80	64	127	1,068
Connecticut	-	78	110	29	14	7	3	1	2	244	-	16	159	153	117	87	60	40	81	712
Delaware	0	3	19	11	3	1	0	0	0	39	3	25	86	39	21	13	9	6	12	211
District of Columbia	1	-	1	2	2	2	1	1	4	15	3	-	0	0	2	6	6	9	81	104
Florida	-	250	236	51	24	14	6	3	3	587	90	972	1,619	605	300	170	87	51	76	3,881
Georgia	2	77	45	18	15	9	5	2	4	174	4	601	1,020	366	163	87	46	29	40	2,351
Hawaii	-	1	5	6	6	5	3	3	6	34	1	23	48	39	37	32	23	16	49	268
Idaho	4	11	8	2	1	1	1	1	0	25	186	44	76	38	24	20	11	9	15	238
Illinois	0	21	36	17	15	11	7	5	4	118	11	153	722	558	434	320	209	159	322	2,878
Indiana	2	37	46	30	24	11	5	3	3	160	24	184	532	325	235	166	104	80	122	1,749
Iowa	-	-	-	-	-	-	-	-	-	-	25	92	209	179	127	88	57	43	93	890
Kansas	0	69	73	22	12	7	4	2	2	193	1	72	82	42	34	27	15	12	21	305
Kentucky	-	23	17	10	7	4	2	1	1	64	7	113	241	112	66	41	24	16	28	640
Louisiana	1	7	12	10	24	19	10	8	9	100	102	72	187	127	103	90	69	61	134	843
Maine	0	2	5	2	2	1	1	1	2	16	2	14	31	22	17	14	9	6	15	129
Maryland	0	99	128	33	19	12	7	5	9	311	5	162	278	133	97	74	59	51	166	1,019
Massachusetts	2	155	102	26	11	9	5	4	9	322	33	48	264	269	270	269	197	163	465	1,945
Michigan	0	75	167	53	25	13	8	7	6	353	24	134	440	393	328	275	207	164	397	2,340
Minnesota	1	57	93	34	16	9	4	3	2	219	12	146	220	97	53	32	18	13	28	606
Mississippi	-	12	30	9	5	3	2	1	1	64	1	139	283	160	106	76	51	38	98	951
Missouri	-	187	174	57	29	25	10	6	7	494	0	131	272	136	95	75	48	34	75	866
Montana	-	-	-	-	-	-	-	-	-	-	-	28	64	40	33	24	15	15	37	257
Nebraska	1	15	50	21	13	8	6	5	12	130	9	16	44	38	36	38	29	27	89	317
Nevada	1	22	11	9	7	3	1	1	0	54	1	116	99	52	42	28	14	9	18	378
New Hampshire	-	58	12	2	1	1	0	0	0	74	0	64	68	30	17	13	8	5	19	223
New Jersey	-	146	181	46	26	20	12	8	14	453	-	121	374	217	200	181	149	140	416	1,799
New Mexico	-	1	3	4	2	0	1	0	0	12	1	85	163	107	86	75	50	37	98	701
New York	25	52	238	131	99	83	60	50	74	786	101	96	661	484	378	304	224	201	714	3,063
North Carolina	14	179	166	45	23	13	6	4	3	437	97	200	626	417	267	159	87	55	94	1,905
North Dakota	-	-	-	-	-	-	-	-	-	-	1	30	54	36	28	17	13	10	19	207
Ohio	-	170	232	75	41	26	16	10	11	580	5	213	618	372	292	235	169	136	404	2,440
Oklahoma	15	35	74	28	17	11	8	3	3	177	440	64	217	137	96	71	46	37	69	738
Oregon	5	17	24	9	3	2	2	0	0	57	4	94	252	161	116	81	51	33	58	847
Pennsylvania	-	102	217	100	55	35	19	10	17	557	4	203	649	498	422	337	222	155	382	2,868
Rhode Island	4	21	18	10	5	3	2	1	1	61	12	6	21	31	43	49	41	37	102	331
South Carolina	3	19	35	13	5	6	2	1	1	82	4	73	328	233	167	108	58	37	56	1,060
South Dakota	-	0	5	6	3	2	1	1	0	18	9	8	30	23	17	17	15	9	8	128
Tennessee	0	74	52	17	15	7	4	2	3	173	71	512	640	240	157	94	62	44	85	1,836
Texas	35	222	547	282	165	92	37	14	9	1,367	124	631	1,557	976	757	577	416	346	860	6,119
Utah	-	20	18	7	3	1	0	-	-	49	6	121	249	118	68	43	21	14	20	654
Vermont	0	2	9	3	1	1	0	-	0	16	4	21	44	22	13	9	4	2	7	122
Virginia	1	85	175	53	23	13	4	2	2	358	2	56	369	289	222	161	101	71	82	1,350
Washington	3	119	185	52	27	15	8	6	7	419	29	59	268	239	215	171	120	94	246	1,414
West Virginia	-	0	3	3	1	2	1	1	3	14	33	43	132	69	41	28	15	11	33	373
Wisconsin	8	42	103	71	65	34	11	5	4	334	44	42	239	286	338	294	219	166	321	1,906
Wyoming	-	2	0	0	-	0	-	0	-	3	22	37	72	35	21	16	10	9	18	217
U.S. Total	165	3,044	4,463	1,778	1,082	667	354	221	275	11,885	2,210	6,996	16,277	10,175	7,898	6,221	4,357	3,492	8,743	64,158
Puerto Rico	4	0	8	7	5	5	5	5	17	52	9	0	7	21	43	55	50	47	167	390
Grand Total	169	3,045	4,471	1,785	1,088	672	359	226	292	11,937	2,219	6,996	16,284	10,195	7,940	6,276	4,408	3,538	8,910	64,547

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2019

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.