

FUNCTIONAL SYSTEM LENGTH - 2009
MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

OCTOBER 2011

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	351	110	29	19	10	7	5	5	535
Alaska	-	39	352	323	206	25	59	-	-	1,004
Arizona 4/	-	561	376	37	5	3	-	-	-	982
Arkansas	5	222	133	40	17	9	6	5	5	436
California	-	213	491	266	142	77	36	29	27	1,281
Colorado	-	71	276	158	68	63	33	5	8	681
Connecticut	-	5	34	3	-	1	-	-	-	43
Delaware	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	103	458	162	16	7	2	1	0	0	646
Georgia	20	416	216	60	2	-	-	1	-	695
Hawaii	-	-	-	-	6	-	-	-	-	6
Idaho	-	141	310	39	18	7	-	6	1	522
Illinois	-	471	619	206	53	7	-	-	-	1,356
Indiana 5/	-	87	418	156	36	6	-	-	-	703
Iowa	-	146	259	129	56	25	6	4	3	628
Kansas	-	272	295	64	17	6	-	1	-	656
Kentucky	-	338	188	13	13	-	-	-	-	552
Louisiana	59	100	192	83	55	45	-	1	-	476
Maine	-	96	143	44	13	3	-	-	-	299
Maryland	1	71	101	9	1	-	-	-	-	182
Massachusetts	-	20	62	5	4	-	-	-	-	91
Michigan	-	187	245	72	33	50	6	10	4	607
Minnesota	-	94	286	92	56	46	30	14	14	633
Mississippi	-	125	282	37	32	8	2	2	-	488
Missouri	-	332	382	3	2	4	-	-	-	723
Montana	-	365	695	19	31	7	8	4	-	1,129
Nebraska	-	204	187	30	-	-	-	-	-	421
Nevada	-	350	60	18	21	3	-	-	-	452
New Hampshire	-	87	46	8	6	2	-	1	-	149
New Jersey	-	12	30	14	8	1	-	-	-	65
New Mexico	-	499	285	55	4	3	-	-	-	846
New York	2	126	502	90	42	28	29	18	4	839
North Carolina	2	190	231	62	26	11	5	1	2	528
North Dakota	-	234	256	29	-	-	-	-	-	519
Ohio	0	255	381	54	18	13	2	1	0	724
Oklahoma	-	259	271	87	33	12	8	8	6	684
Oregon	-	25	348	162	19	-	-	-	-	554
Pennsylvania	12	397	471	143	45	17	5	4	1	1,085
Rhode Island	-	1	21	-	-	-	-	-	-	22
South Carolina	-	184	279	73	13	20	9	-	3	581
South Dakota 4/	-	72	340	144	40	5	-	-	-	601
Tennessee	-	604	61	9	7	-	-	4	2	687
Texas	7	693	1,042	210	65	23	7	1	0	2,039
Utah	-	166	391	98	63	5	1	-	-	724
Vermont	-	102	139	24	8	3	-	-	4	280
Virginia	-	89	522	37	17	2	-	-	-	667
Washington	-	97	205	54	76	35	-	-	-	467
West Virginia	-	49	255	33	18	6	7	-	2	370
Wisconsin	41	115	161	80	46	23	10	1	1	437
Wyoming	-	185	471	125	32	1	1	-	-	815
U.S. Total	252	10,175	13,581	3,541	1,499	616	278	127	93	29,910
Puerto Rico	-	-	1	10	4	11	5	4	7	42
Grand Total	252	10,175	13,582	3,551	1,503	627	283	131	100	29,952

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2009
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 3 OF 4

OCTOBER 2011

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	162	99	33	27	19	13	9	9	370
Alaska	-	11	40	22	3	1	-	-	1	78
Arizona 4/	-	84	83	17	4	-	-	-	-	188
Arkansas	10	56	73	30	17	13	8	3	3	204
California	2	36	343	277	192	138	69	78	43	1,176
Colorado	-	31	101	60	49	15	5	10	-	271
Connecticut	-	35	146	65	32	13	6	3	4	304
Delaware	1	2	19	10	2	3	3	1	-	40
Dist. of Columbia	-	-	-	-	5	1	2	2	3	13
Florida	106	307	230	42	20	9	5	2	2	617
Georgia	12	332	133	45	5	-	-	-	-	515
Hawaii	-	-	12	3	11	9	8	3	2	48
Idaho	-	25	48	9	1	1	-	3	3	90
Illinois	-	110	304	206	116	41	26	19	3	825
Indiana 5/	-	27	232	126	46	19	4	8	5	467
Iowa	1	26	64	28	16	8	5	3	2	152
Kansas	1	40	77	56	36	7	1	-	-	217
Kentucky	-	55	79	43	19	13	1	-	-	210
Louisiana	53	21	111	62	43	54	22	1	4	318
Maine	-	12	35	13	6	2	-	-	-	68
Maryland	9	68	143	39	16	6	7	4	5	288
Massachusetts	5	191	238	34	8	4	2	-	-	477
Michigan	1	94	283	141	50	43	11	7	6	635
Minnesota	3	18	112	56	41	38	12	5	-	281
Mississippi	-	27	106	37	27	9	5	-	1	212
Missouri	-	100	277	51	19	5	3	3	1	459
Montana	-	18	39	-	-	1	2	2	-	62
Nebraska	-	4	40	9	5	2	2	-	-	62
Nevada	-	44	43	15	14	3	1	-	-	120
New Hampshire	-	37	33	6	0	-	-	-	-	76
New Jersey	5	57	102	87	30	28	29	11	18	362
New Mexico	-	42	86	17	8	3	-	-	-	156
New York	37	72	398	132	71	60	36	26	31	826
North Carolina	14	185	255	82	42	19	7	4	2	596
North Dakota	-	9	34	7	1	-	-	-	-	51
Ohio	-	185	458	115	49	27	9	3	3	850
Oklahoma	-	53	92	46	22	8	9	10	11	249
Oregon	2	3	92	57	16	4	-	-	1	173
Pennsylvania	16	130	288	163	57	27	8	5	1	679
Rhode Island	-	9	25	14	1	-	-	-	-	49
South Carolina	-	75	117	43	18	5	2	1	-	261
South Dakota 4/	-	9	29	25	6	2	5	-	-	76
Tennessee	-	236	116	34	12	9	3	3	3	416
Texas	10	163	497	258	149	74	26	9	1	1,177
Utah	-	53	94	35	25	4	-	-	-	211
Vermont	-	19	20	1	-	-	-	-	-	40
Virginia	4	20	203	101	68	43	8	3	2	448
Washington	-	37	157	59	19	19	5	2	-	298
West Virginia	-	25	117	19	8	7	6	1	-	183
Wisconsin	26	36	83	58	32	10	12	6	1	238
Wyoming	-	8	37	27	13	4	6	-	1	96
U.S. Total	317	3,397	6,843	2,915	1,476	831	394	249	172	16,278
Puerto Rico	2	-	30	74	47	44	28	7	6	236
Grand Total	319	3,397	6,873	2,989	1,523	875	422	256	178	16,514

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2009
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 4 OF 4

OCTOBER 2011

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	4	11	11	6	4	2	0	0	0	35	139	311	371	103	59	36	15	10	13	919
Alaska	-	-	-	-	-	-	-	-	-	-	-	2	14	14	17	11	2	6	3	69
Arizona 4/	1	115	45	4	7	4	1	-	-	176	382	68	166	187	223	157	105	55	56	1,017
Arkansas	8	10	38	15	10	9	9	7	8	105	70	21	164	131	87	68	35	26	38	569
California	2	25	454	383	313	196	89	49	25	1,534	22	28	282	552	946	1,253	1,027	1,021	1,332	6,441
Colorado	-	6	117	83	60	25	14	4	2	311	3	23	154	175	230	218	127	76	129	1,132
Connecticut	-	18	110	68	21	14	4	2	2	239	-	-	31	151	173	124	85	50	69	683
Delaware	-	2	20	6	2	1	-	-	-	31	1	17	76	28	18	14	7	4	11	175
Dist. of Columbia	-	-	-	1	5	1	-	6	4	17	-	-	-	1	2	5	9	87	104	104
Florida	138	145	223	39	21	13	6	3	3	453	473	748	1,371	447	222	126	66	48	119	3,147
Georgia	-	61	66	15	4	2	-	-	-	148	18	667	934	183	63	28	9	4	6	1,894
Hawaii	-	-	4	9	4	8	3	3	3	34	-	16	43	29	45	38	26	14	17	228
Idaho	-	-	-	-	-	-	-	-	-	-	87	12	131	79	46	38	15	16	13	350
Illinois	-	13	26	16	19	16	3	1	4	98	-	69	504	885	492	412	262	176	339	3,139
Indiana 5/	-	23	51	32	24	10	5	8	11	164	1	131	493	334	301	224	146	112	133	1,874
Iowa	-	-	-	-	-	-	-	-	-	-	60	33	166	164	105	80	51	44	101	744
Kansas	1	25	95	50	10	2	4	-	-	186	20	38	172	104	106	162	98	71	34	785
Kentucky	-	15	41	3	7	-	-	-	-	66	-	55	209	285	105	77	32	11	19	793
Louisiana	5	-	14	6	6	4	12	2	2	46	31	4	167	167	154	109	134	112	171	1,018
Maine	-	5	8	3	3	1	-	-	1	21	-	6	30	30	25	15	12	11	11	140
Maryland	8	54	137	52	22	11	4	2	4	286	6	59	245	162	133	125	82	58	211	1,075
Massachusetts	1	55	150	62	20	10	9	3	2	311	-	26	118	195	314	365	293	250	287	1,848
Michigan	-	45	137	101	23	12	7	3	2	330	-	75	301	332	349	331	248	228	435	2,299
Minnesota	1	13	69	46	23	10	8	4	0	173	111	44	220	78	67	61	42	23	17	553
Mississippi	-	12	34	7	5	2	6	-	1	67	-	41	295	205	137	104	80	56	104	1,022
Missouri	-	60	221	79	30	8	8	2	1	409	195	62	350	246	136	74	45	27	52	992
Montana	-	-	-	-	-	-	-	-	-	-	3	4	39	38	30	25	13	12	23	184
Nebraska	-	7	7	5	3	5	5	-	-	32	13	10	40	35	74	87	53	65	89	453
Nevada	1	20	17	9	14	4	2	-	2	68	2	88	86	55	23	15	9	4	10	290
New Hampshire	-	30	20	2	1	0	-	-	-	52	-	27	87	34	24	21	9	4	14	221
New Jersey	1	39	149	114	47	24	11	10	8	402	91	6	90	207	298	267	208	150	388	1,614
New Mexico	-	-	5	-	-	-	-	-	-	5	41	46	186	129	119	70	47	35	34	666
New York	22	16	179	222	132	97	59	24	38	767	112	30	436	498	387	250	157	134	859	2,751
North Carolina	33	95	214	67	31	15	7	3	4	436	183	110	641	347	210	117	70	45	96	1,636
North Dakota	-	-	-	-	-	-	-	-	-	-	-	10	22	34	36	23	15	13	16	169
Ohio	9	44	236	85	52	32	12	9	4	474	419	46	505	416	330	267	155	108	182	2,008
Oklahoma	-	9	108	32	17	16	1	6	2	191	7	30	174	177	154	127	113	92	183	1,050
Oregon	-	7	20	26	2	2	-	-	-	57	-	25	170	168	124	123	53	56	41	760
Pennsylvania	21	67	229	116	64	36	16	4	2	534	423	93	493	534	492	351	216	127	113	2,419
Rhode Island	-	-	35	38	10	5	-	1	-	89	-	-	5	25	72	81	57	50	72	362
South Carolina	-	6	54	20	6	3	1	-	-	90	-	14	262	370	203	102	41	27	33	1,052
South Dakota 4/	-	-	5	4	1	2	-	-	-	12	22	1	11	16	21	21	11	14	14	120
Tennessee	-	57	56	19	8	6	2	2	3	153	-	273	595	249	166	101	50	39	76	1,549
Texas	169	102	506	315	236	97	34	11	6	1,306	1,965	209	1,207	941	662	424	208	83	85	3,818
Utah	-	3	14	2	2	1	-	-	-	22	-	36	159	76	46	26	10	5	6	364
Vermont	-	-	12	3	1	-	4	-	-	20	-	-	18	19	11	13	10	9	21	101
Virginia	1	14	148	80	21	13	10	2	2	290	25	8	320	330	218	168	89	77	84	1,294
Washington	1	24	236	69	26	10	2	5	5	377	-	12	155	238	203	188	122	116	294	1,328
West Virginia	-	-	1	2	2	2	2	1	1	11	-	13	139	82	41	21	17	11	9	333
Wisconsin	38	13	100	82	75	22	8	8	0	308	716	36	196	198	204	156	127	80	152	1,149
Wyoming	-	-	-	3	-	-	-	-	-	3	13	5	63	40	34	17	16	7	17	199
U.S. Total	467	1,268	4,422	2,401	1,393	752	368	185	152	10,942	5,654	3,688	13,106	10,522	8,736	7,312	4,940	3,879	6,718	58,901
Puerto Rico	2	-	-	3	9	12	11	7	8	50	13	-	4	26	53	65	74	55	111	388
Grand Total	469	1,268	4,422	2,404	1,402	764	379	192	160	10,992	5,667	3,688	13,110	10,548	8,789	7,377	5,014	3,934	6,829	59,289

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2009

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.
- 2/ May include sections entirely on structures and unpaved miles.
- 3/ Estimated from sample data. 2008 used for Alabama, Arizona, Arkansas, Florida, Kansas, Minnesota, New Hampshire, North Carolina, Ohio, Oklahoma, Pennsylvania, South Dakota, Texas, and Wisconsin.
- 4/ 2008 data.
- 5/ Excludes 823 miles of Federal agency owned roads plus 71 miles of other non-Federal agency owned roads.