

FUNCTIONAL SYSTEM LENGTH - 2006
MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

OCTOBER 2007

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	-	371	120	25	11	-	12	-	5	544
Alaska	-	33	212	356	248	73	59	6	26	1,013
Arizona	-	619	324	33	5	-	-	-	-	981
Arkansas	1	265	112	50	13	7	10	1	3	461
California	-	272	523	228	144	65	14	22	13	1,281
Colorado	-	80	303	155	90	40	17	-	-	685
Connecticut	-	1	33	6	2	1	-	-	-	43
Delaware	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	-	463	286	-	-	-	-	-	-	749
Georgia	-	435	246	28	6	-	-	-	-	715
Hawaii	-	-	-	1	5	-	-	-	-	6
Idaho	-	26	380	83	29	1	-	2	-	521
Illinois	-	389	684	196	78	12	-	-	-	1,359
Indiana 4/	-	149	542	114	33	15	-	-	-	853
Iowa	-	77	275	169	69	26	6	3	3	628
Kansas	10	212	372	30	12	19	-	-	-	645
Kentucky	-	204	224	74	37	15	-	-	-	554
Louisiana	56	163	137	77	62	4	13	16	6	478
Maine	-	99	145	34	15	5	1	-	-	299
Maryland	1	60	107	9	4	1	1	-	-	182
Massachusetts	-	13	39	23	-	16	-	-	-	91
Michigan	-	76	187	144	71	52	42	9	27	608
Minnesota 5/	-	33	350	159	102	16	15	-	-	675
Mississippi	-	45	338	33	24	18	4	18	9	489
Missouri	-	358	398	28	11	4	-	-	-	799
Montana	-	402	623	53	29	16	5	1	1	1,130
Nebraska	-	233	140	24	17	6	-	-	-	420
Nevada	-	380	48	16	6	-	-	-	-	450
New Hampshire	-	53	51	8	2	1	-	6	29	150
New Jersey	-	6	22	15	11	6	4	2	-	66
New Mexico	-	549	257	33	3	3	-	-	-	845
New York	-	58	474	105	83	50	28	26	13	837
North Carolina	-	67	294	69	52	22	16	1	-	521
North Dakota	-	168	246	80	9	16	-	-	-	519
Ohio	-	293	385	32	11	2	-	-	-	723
Oklahoma	2	191	346	94	22	21	7	-	-	681
Oregon	-	38	435	79	2	-	-	-	-	554
Pennsylvania	1	345	444	184	62	26	5	1	3	1,070
Rhode Island	-	1	21	-	-	-	-	-	-	22
South Carolina	-	158	268	62	47	33	10	3	-	581
South Dakota	-	78	329	177	26	-	-	-	-	610
Tennessee	-	588	84	6	9	1	-	-	-	688
Texas	-	473	1,298	326	59	23	-	-	-	2,179
Utah	-	135	399	95	58	22	-	8	4	721
Vermont	-	142	110	21	3	1	-	4	-	281
Virginia	-	94	511	42	17	2	-	-	-	666
Washington	-	118	189	50	29	53	25	-	4	468
West Virginia	-	79	200	31	37	21	-	1	8	377
Wisconsin	-	100	231	95	25	14	4	9	1	479
Wyoming	-	188	455	139	16	6	-	10	1	815
U.S. Total	71	9,380	14,197	3,891	1,706	735	298	149	156	30,512
Puerto Rico	1	-	-	1	10	15	1	1	-	28
Grand Total	72	9,380	14,197	3,892	1,716	750	299	150	156	30,540

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2006

MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 2 OF 4

OCTOBER 2007

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) 1/																			
	OTHER PRINCIPAL ARTERIAL										MINOR ARTERIAL 3/									
	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	-	581	1,359	143	38	15	4	1	2	2,143	-	246	2,798	391	193	101	35	49	12	3,825
Alaska	155	43	193	118	53	51	64	21	108	651	155	5	27	34	50	48	124	-	-	288
Arizona	4	519	398	123	86	22	15	-	-	1,163	36	534	484	180	108	18	-	-	-	1,324
Arkansas	1	217	973	670	246	82	23	23	7	2,241	-	2	1,045	822	581	360	137	-	8	2,955
California	4	449	1,741	762	368	114	22	11	31	3,498	-	112	1,976	2,256	966	615	326	43	323	6,617
Colorado	-	228	1,125	439	343	78	51	26	29	2,319	173	127	1,247	1,021	542	298	48	216	87	3,586
Connecticut	-	6	47	58	38	10	3	1	1	164	-	-	34	94	73	43	4	-	-	248
Delaware	-	4	99	50	13	1	-	-	-	167	-	1	49	36	10	1	2	4	1	104
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	908	1,635	222	57	11	15	8	-	2,856	-	547	1,706	125	24	-	-	-	-	2,402
Georgia	-	1,537	1,016	75	5	2	-	-	-	2,635	-	1,529	3,195	331	154	-	-	-	-	5,209
Hawaii	-	-	12	27	33	25	9	1	3	110	-	-	6	87	45	123	11	1	25	298
Idaho	-	53	1,034	375	193	35	21	3	1	1,715	18	57	851	234	156	33	8	-	-	1,339
Illinois	-	137	860	560	428	192	90	51	16	2,334	-	781	1,899	710	606	346	-	372	-	4,714
Indiana 4/	-	324	789	350	138	94	33	10	3	1,741	-	399	886	406	364	123	21	37	-	2,236
Iowa	39	416	1,088	740	474	328	213	92	75	3,426	29	678	1,173	526	403	558	176	180	188	3,882
Kansas	53	950	1,772	248	18	19	-	4	2	3,013	-	561	2,728	942	35	11	9	-	2	4,288
Kentucky	-	470	1,232	467	160	8	1	1	2	2,341	-	-	823	717	128	52	3	-	2	1,725
Louisiana	12	89	377	210	135	85	32	26	26	980	-	64	867	216	72	212	55	30	73	1,589
Maine	-	98	351	145	81	58	32	9	11	785	-	79	309	271	118	105	75	24	35	1,016
Maryland	9	120	234	50	18	7	3	-	1	433	-	40	563	165	28	10	9	26	-	841
Massachusetts	-	88	18	43	13	4	-	-	-	166	-	-	114	108	154	6	12	8	4	406
Michigan	-	599	1,051	501	221	94	54	24	42	2,586	221	1,275	1,961	646	494	148	42	7	350	4,923
Minnesota 5/	18	930	1,534	694	405	73	17	4	7	3,664	-	1,171	2,386	1,679	915	665	51	58	7	6,932
Mississippi	-	182	841	259	284	148	54	80	62	1,910	-	94	1,131	906	475	297	521	104	159	3,687
Missouri	5	404	1,347	670	411	236	110	70	9	3,257	-	57	956	1,857	826	117	164	119	54	4,150
Montana	-	485	1,587	391	122	25	9	2	-	2,621	-	302	1,887	625	102	15	1	-	52	2,984
Nebraska	-	623	1,166	325	251	221	43	52	13	2,694	-	1,161	1,514	742	428	216	31	63	14	4,169
Nevada	-	1,116	281	11	1	-	1	-	-	1,410	26	345	308	17	42	-	-	-	-	712
New Hampshire	-	44	167	69	38	21	6	4	9	358	-	73	207	86	20	24	17	13	26	466
New Jersey	8	-	48	85	46	46	12	6	3	246	-	12	24	119	61	48	22	18	10	314
New Mexico	11	915	572	222	78	31	6	4	2	1,830	8	496	723	201	231	53	81	-	142	1,927
New York	81	83	796	366	114	40	30	10	15	1,454	-	100	1,838	779	590	270	50	35	95	3,757
North Carolina	-	143	1,125	320	204	99	51	29	29	2,000	-	-	816	957	346	258	164	21	89	2,651
North Dakota	-	400	1,196	553	390	298	53	13	30	2,933	-	282	922	361	578	324	34	15	-	2,516
Ohio	-	354	1,039	314	183	59	11	4	1	1,965	-	291	1,563	259	378	101	45	14	4	2,655
Oklahoma	1	250	876	589	267	121	84	71	60	2,318	-	271	1,152	531	440	91	96	91	14	2,686
Oregon	9	322	1,470	582	288	80	18	5	11	2,776	-	244	901	711	321	92	54	34	2	2,359
Pennsylvania	3	182	843	485	241	113	36	17	20	1,937	-	105	1,484	1,181	669	689	170	126	116	4,540
Rhode Island	-	-	2	7	11	9	7	8	5	49	-	-	2	11	22	15	10	2	3	65
South Carolina	-	66	826	226	124	57	3	3	2	1,307	-	78	1,698	969	416	112	8	-	8	3,289
South Dakota	-	374	1,319	339	189	125	66	81	42	2,535	-	352	871	186	778	446	423	183	106	3,345
Tennessee	-	786	873	149	31	15	5	4	4	1,867	-	1,034	1,307	351	421	22	5	-	62	3,202
Texas	9	739	3,467	1,999	590	106	31	20	3	6,955	-	592	4,293	3,394	1,151	336	-	7	5	9,778
Utah	-	40	406	220	185	86	25	17	7	986	-	112	374	311	368	165	71	18	24	1,443
Vermont	-	10	198	35	24	35	9	3	5	319	-	2	170	159	134	125	74	44	19	727
Virginia	-	73	887	357	70	41	21	2	2	1,453	10	-	1,463	1,653	176	53	109	-	-	3,454
Washington	-	318	1,109	322	118	58	27	25	3	1,980	-	141	682	328	465	144	63	36	32	1,891
West Virginia	3	59	491	292	138	33	11	10	5	1,039	-	-	542	445	252	46	15	15	36	1,351
Wisconsin	-	941	1,130	642	290	104	54	17	9	3,187	-	1,579	1,672	559	530	199	109	172	8	4,828
Wyoming	5	153	957	620	179	58	4	11	1	1,983	-	38	402	322	265	85	20	42	47	1,221
U.S. Total	430	17,828	43,957	17,519	8,431	3,673	1,489	884	719	94,500	455	15,969	56,029	30,017	16,680	8,243	3,505	2,227	2,244	134,914
Puerto Rico	3	-	1	6	20	6	8	3	6	50	38	-	-	1	8	21	28	44	92	194
Grand Total	433	17,828	43,958	17,525	8,451	3,679	1,497	887	725	94,550	493	15,969	56,029	30,018	16,688	8,264	3,533	2,271	2,336	135,108

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2006
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 3 OF 4

OCTOBER 2007

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	161	101	27	20	20	11	14	7	361
Alaska	-	11	29	18	10	-	-	-	-	68
Arizona	-	58	86	30	14	-	-	-	-	188
Arkansas	-	33	80	34	18	18	6	2	3	194
California	2	84	358	219	255	111	107	37	7	1,178
Colorado	-	15	110	73	37	19	11	3	-	268
Connecticut	-	28	151	70	33	9	7	2	2	302
Delaware	1	5	16	13	2	2	1	1	-	40
Dist. of Columbia	-	-	-	2	3	1	1	-	5	12
Florida	1	315	376	16	7	6	1	-	-	721
Georgia	-	365	133	22	8	1	-	-	-	529
Hawaii	-	-	7	12	11	6	7	5	1	49
Idaho	-	7	53	16	5	-	-	4	5	90
Illinois	-	119	265	205	118	64	27	8	4	810
Indiana 4/	-	15	153	70	42	30	5	1	-	316
Iowa	2	8	58	30	22	15	8	5	6	152
Kansas	20	19	109	57	12	1	-	-	-	198
Kentucky	-	57	77	41	29	2	3	-	-	209
Louisiana	53	47	87	45	55	51	20	3	9	317
Maine	-	7	40	13	6	-	2	-	-	68
Maryland	10	49	144	50	15	10	8	6	6	288
Massachusetts	5	63	255	94	30	32	2	1	-	477
Michigan	1	67	257	147	76	39	14	14	18	632
Minnesota 5/	-	11	118	52	32	22	2	-	-	237
Mississippi	-	26	95	29	21	15	5	5	1	197
Missouri	-	99	204	40	17	10	3	5	3	381
Montana	-	6	41	5	5	3	1	2	-	63
Nebraska	-	9	19	11	7	9	4	1	1	61
Nevada	-	39	28	20	17	13	2	-	-	119
New Hampshire	-	27	33	5	-	-	-	1	8	74
New Jersey	5	12	82	106	71	27	33	13	17	361
New Mexico	-	53	69	12	10	7	2	1	1	155
New York	13	51	348	161	139	44	32	30	39	844
North Carolina	-	49	260	138	71	23	12	5	2	560
North Dakota	-	8	33	8	3	-	-	-	-	52
Ohio	-	234	448	103	42	14	4	3	2	850
Oklahoma	1	49	108	30	22	13	7	7	13	249
Oregon	1	15	122	27	7	1	-	-	-	172
Pennsylvania	13	121	295	154	58	24	13	5	3	673
Rhode Island	-	9	25	13	2	-	-	-	-	49
South Carolina	-	71	131	39	16	3	1	-	-	261
South Dakota	-	8	28	16	12	4	1	-	-	69
Tennessee	-	224	134	28	14	7	1	6	1	415
Texas	3	52	449	290	166	71	22	2	-	1,052
Utah	-	51	60	33	49	19	4	1	-	217
Vermont	-	6	21	3	3	7	-	-	-	40
Virginia	4	29	179	126	72	23	12	4	2	447
Washington	-	102	91	34	19	15	16	8	12	297
West Virginia	-	37	90	25	16	4	5	1	1	179
Wisconsin	3	30	102	81	21	16	10	1	-	261
Wyoming	-	15	31	26	9	11	2	-	3	97
U.S. Total	139	2,976	6,589	2,919	1,749	842	435	207	182	15,899
Puerto Rico	1	-	11	36	58	71	23	27	7	233
Grand Total	140	2,976	6,600	2,955	1,807	913	458	234	189	16,132

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2006
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
 SHEET 4 OF 4

OCTOBER 2007

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	-	7	21	2	3	-	-	-	-	33	1	219	577	161	68	48	9	6	7	1,095
Alaska	-	-	-	-	-	-	-	-	-	-	-	2	14	17	10	2	3	3	3	61
Arizona	1	85	63	11	5	2	-	-	-	166	457	82	170	180	196	128	86	45	56	943
Arkansas	1	9	32	17	9	13	11	-	-	99	4	14	135	152	121	72	47	29	26	596
California	4	77	479	422	231	186	96	37	10	1,538	49	46	309	589	955	1,183	988	890	1,272	6,232
Colorado	-	18	151	64	50	24	6	1	2	316	3	19	188	207	271	198	133	76	100	1,192
Connecticut	-	13	96	83	21	14	5	2	3	237	-	-	39	138	162	131	83	48	84	685
Delaware	-	-	9	12	1	1	-	-	-	23	1	9	83	41	19	10	6	5	10	183
Dist. of Columbia	-	-	-	2	5	3	2	3	4	19	-	-	-	-	2	9	10	81	102	102
Florida	-	100	430	35	5	4	4	-	-	578	4	535	1,765	727	311	124	50	31	30	3,573
Georgia	-	62	41	7	2	3	-	-	-	115	6	763	896	172	59	34	9	-	-	1,933
Hawaii	-	-	4	6	5	6	5	4	4	34	-	14	25	28	38	43	36	14	30	228
Idaho	-	-	-	-	-	-	-	-	-	-	48	8	72	69	43	45	17	16	21	291
Illinois	-	-	10	30	24	28	5	1	3	101	1	50	465	682	552	479	310	210	304	3,052
Indiana 4/	-	16	42	37	14	14	7	5	1	136	6	55	245	325	271	246	144	112	134	1,532
Iowa	-	-	-	-	-	-	-	-	-	-	67	32	168	148	98	81	56	51	106	740
Kansas	10	10	136	24	5	2	2	1	1	181	101	41	240	54	56	61	59	46	125	682
Kentucky	-	1	47	4	11	2	-	-	-	65	-	42	252	213	117	81	42	18	20	785
Louisiana	6	-	18	6	2	8	7	-	2	43	27	30	176	179	134	116	116	99	186	1,036
Maine	-	1	10	4	2	1	1	1	1	20	-	7	34	27	18	16	14	11	14	141
Maryland	8	33	132	59	25	17	8	6	6	286	14	40	222	163	159	116	85	60	217	1,062
Massachusetts	2	182	90	28	2	6	1	1	-	310	-	1,629	18	38	45	43	26	19	28	1,846
Michigan	-	56	138	53	45	23	6	-	7	328	28	85	377	276	357	362	214	257	359	2,287
Minnesota 5/	-	8	89	40	23	12	3	-	-	175	9	31	192	118	103	63	20	20	22	569
Mississippi	-	11	35	9	7	-	7	-	1	70	-	22	180	180	179	146	110	80	73	972
Missouri	5	30	150	75	43	23	12	2	4	339	74	27	205	203	322	89	47	46	49	988
Montana	-	-	-	-	-	-	-	-	-	-	1	4	35	36	36	23	17	11	20	182
Nebraska	-	4	1	1	5	7	2	1	1	22	38	9	42	42	54	78	69	53	87	434
Nevada	24	12	18	11	3	2	-	-	-	46	47	95	75	37	15	8	5	6	5	246
New Hampshire	-	24	22	5	-	-	-	-	-	51	-	18	79	45	30	20	10	6	13	221
New Jersey	1	9	105	125	78	44	27	9	5	402	99	1	71	208	302	264	194	169	397	1,606
New Mexico	-	-	5	-	-	-	-	-	-	5	41	59	149	149	114	67	54	34	41	667
New York	8	22	182	226	121	96	56	33	48	784	99	24	430	499	407	264	149	137	841	2,751
North Carolina	-	13	193	72	52	30	13	6	9	388	39	32	648	348	282	169	92	55	118	1,744
North Dakota	-	-	-	-	-	-	-	-	-	-	-	1	21	56	28	17	17	13	15	168
Ohio	-	50	234	95	64	24	10	2	5	484	-	259	620	473	410	244	148	100	160	2,414
Oklahoma	-	7	100	22	22	14	5	8	14	192	4	34	174	183	153	127	100	95	177	1,043
Oregon	-	5	34	12	1	3	-	-	-	55	6	36	198	162	139	91	53	35	36	750
Pennsylvania	3	57	185	131	79	50	22	9	10	543	7	80	486	583	576	444	292	187	189	2,837
Rhode Island	-	-	35	35	10	5	-	1	-	86	-	-	5	23	72	81	56	51	72	360
South Carolina	-	6	47	16	5	17	-	-	1	92	-	22	331	303	201	88	46	32	41	1,064
South Dakota	-	-	6	-	2	2	-	-	1	11	-	-	14	34	27	23	12	11	11	132
Tennessee	-	47	44	22	10	7	2	1	3	136	-	282	612	245	155	100	49	35	69	1,547
Texas	8	50	409	373	228	108	28	8	4	1,208	50	65	924	1,049	986	667	421	364	582	5,058
Utah	-	1	7	5	1	-	-	-	-	14	16	45	138	72	45	28	13	4	4	349
Vermont	-	2	6	5	2	1	5	-	-	21	-	-	33	14	17	16	8	7	9	104
Virginia	3	3	122	66	22	11	10	2	2	238	31	5	300	311	202	150	92	70	84	1,214
Washington	-	62	192	71	19	14	6	5	4	373	35	27	169	223	223	167	126	103	238	1,276
West Virginia	-	-	3	3	1	-	1	-	-	8	29	14	129	70	33	21	12	7	8	294
Wisconsin	-	10	101	87	48	30	7	2	-	285	310	66	270	291	268	237	172	135	160	1,599
Wyoming	-	-	-	3	-	-	-	-	-	3	13	5	57	43	33	21	14	9	16	198
U.S. Total	84	1,103	4,274	2,416	1,313	857	382	154	160	10,659	1,765	4,985	13,057	10,586	9,472	7,342	4,941	3,931	6,750	61,064
Puerto Rico	2	-	3	15	8	13	12	2	11	64	37	-	3	19	63	71	79	63	56	354
Grand Total	86	1,103	4,277	2,431	1,321	870	394	156	171	10,723	1,802	4,985	13,060	10,605	9,535	7,413	5,020	3,994	6,806	61,418

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2006

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.
- 4/ Excludes 788 miles of Federal agency owned roads.
- 5/ Includes 274 miles of miscoded non-Interstate functional system length or rural/urban categorization or both.