

FUNCTIONAL SYSTEM LENGTH - 2002
MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

OCTOBER 2003

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	-	258	260	45	31	10	-	-	-	604
Alaska	-	31	348	328	190	132	-	-	-	1,029
Arizona	-	796	191	10	-	-	-	-	-	997
Arkansas	5	106	175	50	29	30	34	25	11	460
California	-	55	551	369	136	143	51	31	22	1,358
Colorado	-	-	201	261	195	48	45	11	9	770
Connecticut	-	2	30	9	-	1	-	-	-	42
Delaware	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	-	800	137	-	14	-	-	-	-	951
Georgia	-	541	229	32	4	-	-	-	-	806
Hawaii	-	-	-	-	6	-	-	-	-	6
Idaho	-	31	351	95	29	12	2	5	1	526
Illinois	-	335	833	246	62	34	-	-	-	1,510
Indiana	-	117	562	115	44	14	-	-	-	852
Iowa	-	71	322	151	59	21	4	4	2	634
Kansas	-	284	335	62	10	-	-	3	2	696
Kentucky	6	238	144	26	76	43	-	-	-	527
Louisiana	54	106	162	118	105	37	22	-	7	557
Maine	-	88	182	39	3	1	-	-	-	313
Maryland	1	16	162	40	7	1	1	-	-	227
Massachusetts	-	-	69	62	6	24	-	-	1	162
Michigan	-	10	239	159	143	115	57	14	5	742
Minnesota	-	128	326	200	15	12	-	-	-	681
Mississippi	-	75	223	101	105	19	21	8	5	557
Missouri	-	160	267	229	120	27	3	-	-	806
Montana	-	303	626	116	54	20	15	-	1	1,135
Nebraska	-	234	78	50	47	28	-	-	-	437
Nevada	-	398	48	23	11	-	-	-	-	480
New Hampshire	-	30	143	3	-	-	-	-	-	176
New Jersey	-	2	55	27	8	7	10	6	4	119
New Mexico	-	528	334	22	8	-	-	-	-	892
New York	15	116	542	110	49	55	26	27	6	931
North Carolina	-	35	331	127	43	64	18	13	19	650
North Dakota	-	265	187	65	13	-	-	-	-	530
Ohio	-	527	237	48	15	-	-	-	2	829
Oklahoma	-	163	304	136	80	35	3	-	1	722
Oregon	-	29	223	284	35	10	1	-	-	582
Pennsylvania	1	192	637	248	83	25	13	6	2	1,206
Rhode Island	-	-	16	5	-	-	-	-	-	21
South Carolina	-	238	270	96	39	5	-	6	28	682
South Dakota	1	28	374	177	18	28	3	-	-	628
Tennessee	-	554	173	3	3	1	1	-	-	735
Texas	-	326	1,347	372	131	14	-	6	1	2,197
Utah	-	203	310	105	54	39	38	7	15	771
Vermont	-	84	147	30	6	9	-	4	-	280
Virginia	-	65	606	50	2	6	-	-	-	729
Washington	-	171	204	90	33	4	-	-	-	502
West Virginia	-	98	237	33	56	23	2	6	-	455
Wisconsin	1	160	300	79	25	14	-	-	-	578
Wyoming	-	287	435	50	31	22	2	-	-	827
U.S. Total	84	9,284	14,463	5,096	2,233	1,133	372	182	144	32,907
Puerto Rico	-	-	2	19	55	22	5	5	4	112
Grand Total	84	9,284	14,465	5,115	2,288	1,155	377	187	148	33,019

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2002
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
SHEET 3 OF 4

OCTOBER 2003

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	-	74	120	41	33	30	3	-	-	301
Alaska	-	14	25	5	4	3	1	-	-	52
Arizona	-	83	46	31	9	1	1	1	-	172
Arkansas	1	9	60	35	30	22	14	12	7	189
California	2	30	180	170	225	250	132	77	33	1,097
Colorado	-	1	50	52	36	28	16	-	2	185
Connecticut	-	7	134	84	40	21	8	5	4	303
Delaware	1	5	16	13	2	2	1	1	-	40
Dist. of Columbia	-	6	-	-	-	2	1	1	2	12
Florida	6	269	194	26	16	8	1	-	-	514
Georgia	1	298	120	18	2	-	-	-	-	438
Hawaii	-	-	7	3	10	10	10	5	4	49
Idaho	-	2	52	12	10	1	4	5	-	86
Illinois	1	63	224	164	123	30	51	1	1	657
Indiana	-	10	145	77	51	24	7	2	1	317
Iowa	-	8	46	29	23	19	11	5	6	147
Kansas	-	11	75	63	23	5	1	-	-	178
Kentucky	-	81	88	19	33	-	5	3	-	229
Louisiana	55	28	35	62	52	38	12	6	4	237
Maine	-	2	44	8	1	-	-	-	-	55
Maryland	9	10	125	53	24	10	6	8	5	241
Massachusetts	-	2	195	125	29	42	7	3	-	403
Michigan	1	3	106	142	82	68	45	18	35	499
Minnesota	-	26	114	52	26	7	-	-	-	232
Mississippi	-	-	35	37	34	18	5	-	-	129
Missouri	-	20	166	76	50	36	15	6	4	373
Montana	-	1	28	11	8	4	2	1	-	55
Nebraska	-	3	19	5	10	4	2	1	1	45
Nevada	-	30	15	11	6	15	2	-	-	79
New Hampshire	-	12	29	7	-	-	-	-	-	48
New Jersey	7	1	80	105	30	39	26	14	10	305
New Mexico	-	29	46	19	4	3	6	-	1	108
New York	19	50	317	118	63	51	30	32	48	709
North Carolina	-	17	159	80	42	32	9	8	22	369
North Dakota	-	19	14	6	2	-	-	-	-	41
Ohio	-	351	298	64	18	7	5	-	1	744
Oklahoma	-	12	63	29	34	21	19	17	13	208
Oregon	1	5	30	58	40	8	4	-	-	145
Pennsylvania	13	36	239	156	61	22	14	6	5	539
Rhode Island	-	-	28	15	5	-	1	-	-	49
South Carolina	-	31	77	26	9	3	1	-	14	161
South Dakota	-	1	13	18	8	8	-	-	-	48
Tennessee	-	149	138	29	12	5	5	1	1	340
Texas	-	48	367	303	205	83	27	4	-	1,037
Utah	-	34	45	45	34	8	3	-	-	169
Vermont	-	6	20	4	2	7	1	-	-	40
Virginia	1	7	140	128	71	29	11	1	2	389
Washington	1	87	92	27	17	24	8	3	3	261
West Virginia	-	23	49	8	5	4	4	1	-	94
Wisconsin	4	22	75	37	13	12	3	-	-	162
Wyoming	-	25	30	12	12	5	2	1	-	87
U.S. Total	123	2,061	4,813	2,718	1,679	1,069	549	249	229	13,367
Puerto Rico	1	-	1	35	47	43	12	10	3	151
Grand Total	124	2,061	4,814	2,753	1,726	1,112	561	259	232	13,518

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2002
MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN

TABLE HM-64
 SHEET 4 OF 4

OCTOBER 2003

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	-	-	16	1	2	1	-	-	-	20	-	276	515	143	62	20	7	1	2	1,026
Alaska	-	-	-	-	-	-	-	-	-	-	-	8	12	14	12	5	3	1	2	57
Arizona	1	2	82	44	17	7	1	1	-	154	601	64	97	91	79	40	17	6	5	399
Arkansas	-	1	24	14	14	19	9	3	-	87	99	-	35	107	85	96	48	43	69	483
California	5	9	222	291	374	273	130	60	65	1,424	54	28	226	537	943	1,179	992	905	1,199	6,009
Colorado	-	-	55	67	60	23	14	9	-	228	-	8	124	251	118	88	56	168	78	891
Connecticut	-	15	92	78	23	15	5	3	3	234	1	-	31	135	174	143	95	45	78	701
Delaware	-	-	7	5	1	1	-	-	-	14	1	8	57	26	14	9	6	4	10	134
Dist. of Columbia	-	-	-	-	3	2	6	2	9	22	-	-	-	-	-	7	5	78	90	90
Florida	2	195	222	27	18	4	2	-	-	468	25	537	1,255	404	238	106	48	29	32	2,649
Georgia	-	63	42	8	4	2	-	-	-	119	1	509	727	190	79	26	10	5	5	1,551
Hawaii	-	-	4	6	9	9	3	-	2	33	15	-	11	20	30	38	17	8	19	143
Idaho	-	-	-	-	-	-	-	-	-	-	23	3	51	51	44	29	31	14	20	243
Illinois	-	-	8	28	34	14	2	2	1	89	1	56	628	638	492	355	136	133	223	2,661
Indiana	-	20	40	44	13	7	7	4	1	136	8	60	281	322	279	246	124	95	124	1,531
Iowa	-	-	-	-	-	-	-	-	-	-	48	31	153	110	95	75	54	52	120	690
Kansas	5	20	56	23	11	10	7	4	1	132	257	16	90	57	40	48	33	38	65	387
Kentucky	-	6	60	8	7	7	-	-	-	88	-	15	263	160	101	60	31	12	21	663
Louisiana	2	1	8	2	5	10	3	1	2	32	15	13	137	110	92	102	100	107	184	845
Maine	-	-	10	5	2	1	1	-	-	19	-	2	66	56	23	19	3	3	2	174
Maryland	8	11	109	46	29	17	6	3	5	226	3	49	176	166	139	102	71	51	109	863
Massachusetts	-	-	67	56	38	10	27	4	7	209	2	1	9	104	192	306	365	242	317	1,536
Michigan	-	1	57	38	35	37	19	8	24	219	-	7	115	175	251	393	268	267	508	1,984
Minnesota	-	23	62	32	25	8	-	-	-	150	-	60	200	132	71	40	13	6	24	546
Mississippi	-	2	28	6	5	-	-	-	-	41	-	19	168	131	129	88	42	34	70	681
Missouri	4	5	49	43	80	42	33	31	39	322	355	2	37	66	75	106	89	83	246	704
Montana	-	-	-	-	-	-	-	-	-	-	41	2	27	23	22	17	11	12	20	134
Nebraska	-	-	1	2	4	8	2	-	-	17	71	6	17	36	49	57	43	50	85	343
Nevada	-	23	21	8	-	1	-	-	-	53	-	36	94	43	24	14	7	5	8	231
New Hampshire	-	11	27	1	2	-	-	-	-	41	-	16	70	31	14	3	11	11	11	170
New Jersey	1	1	101	93	63	25	19	7	6	315	25	2	145	245	232	178	91	81	322	1,296
New Mexico	-	-	8	3	-	-	-	-	-	11	26	36	87	88	81	75	49	32	66	514
New York	26	36	247	136	114	111	54	29	45	772	136	15	303	299	271	180	156	168	939	2,331
North Carolina	-	5	142	64	34	19	12	6	8	290	-	5	339	296	262	187	105	50	117	1,361
North Dakota	-	-	-	-	-	-	-	-	-	-	-	7	35	38	24	25	16	10	10	165
Ohio	-	113	144	68	34	22	8	2	3	394	-	106	480	430	334	235	148	103	138	1,974
Oklahoma	2	11	73	28	22	12	9	5	2	162	254	18	93	102	88	69	58	60	68	556
Oregon	-	-	2	21	25	3	1	-	-	52	9	2	72	144	198	120	46	34	30	646
Pennsylvania	3	25	158	123	91	43	33	19	7	499	7	21	316	421	479	433	235	177	173	2,255
Rhode Island	-	-	25	24	11	5	3	1	-	69	-	-	15	67	102	68	41	29	29	351
South Carolina	-	7	35	15	5	7	1	-	1	71	-	14	192	196	107	79	41	24	50	703
South Dakota	-	-	-	-	-	-	-	-	-	-	99	-	6	2	8	8	2	6	2	34
Tennessee	-	15	65	19	9	8	2	3	1	122	85	170	532	233	134	75	34	28	36	1,242
Texas	5	45	380	307	256	117	25	10	6	1,146	268	50	739	1,015	912	651	397	309	655	4,728
Utah	-	-	7	1	-	-	-	-	-	8	28	28	108	65	27	15	9	-	2	254
Vermont	-	-	5	5	3	1	4	-	-	18	-	1	20	13	20	18	10	5	11	98
Virginia	13	1	100	74	20	12	8	4	2	221	38	2	151	257	233	143	94	62	72	1,014
Washington	5	41	138	57	31	18	8	9	7	309	812	23	101	71	32	26	17	9	19	298
West Virginia	-	2	2	1	2	2	-	-	-	9	-	11	63	57	25	26	11	5	6	204
Wisconsin	-	15	75	43	42	13	3	2	1	194	2	40	162	234	215	203	151	121	151	1,277
Wyoming	-	2	-	-	1	-	-	-	-	3	12	49	70	31	16	18	5	2	2	196
U.S. Total	82	727	3,076	1,965	1,578	946	467	232	251	9,242	3,422	2,432	9,701	8,633	7,766	6,653	4,446	3,753	6,632	50,016
Puerto Rico	2	-	-	10	5	11	16	1	7	50	43	-	-	14	28	49	46	29	32	198
Grand Total	84	727	3,076	1,975	1,583	957	483	233	258	9,292	3,465	2,432	9,701	8,647	7,794	6,702	4,492	3,782	6,664	50,214

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2002

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 represent 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.