

**FUNCTIONAL SYSTEM LENGTH - 2002 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63
SHEET 1 OF 3

OCTOBER 2003

STATE	RURAL MAJOR COLLECTOR												
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						TOTAL
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama	83	563	248	88	2	984	722	2,173	5,280	1,933	884	10,992	11,976
Alaska	23	55	526	143	79	826	-	-	-	-	-	-	826
Arizona	521	611	1,477	83	-	2,692	1,057	244	153	79	70	1,603	4,295
Arkansas	-	326	3,694	3,168	1,396	8,584	341	227	1,150	892	540	3,150	11,734
California	96	2,904	5,965	2,025	1,837	12,827	-	-	12	-	-	12	12,839
Colorado	-	1,184	1,627	360	-	3,171	487	509	768	227	215	2,206	5,377
Connecticut	-	66	597	94	131	888	38	-	-	-	-	38	926
Delaware	15	222	223	63	30	553	-	-	-	-	-	-	553
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	218	383	136	-	-	737	1,017	1,017	1,215	367	-	3,616	4,353
Georgia	884	103	13	-	-	1,000	5,371	4,357	2,670	-	-	12,398	13,398
Hawaii	-	1	94	57	40	192	29	6	71	59	7	172	364
Idaho	40	613	535	239	17	1,444	15	19	255	1,644	459	2,392	3,836
Illinois	416	-	-	-	-	416	3,863	1,482	5,644	1,330	1,003	13,322	13,738
Indiana	1,082	3,181	2,423	899	140	7,725	485	313	1,178	496	543	3,015	10,740
Iowa	98	351	307	90	191	1,037	1,123	5,659	4,880	333	-	11,995	13,032
Kansas	545	2,420	1,492	2	-	4,459	256	1,759	221	3,055	2,841	8,132	12,591
Kentucky	-	1,134	5,447	381	6	6,968	-	-	-	-	-	-	6,968
Louisiana	485	1,610	2,250	495	149	4,989	-	-	-	-	2	2	4,991
Maine	-	458	2,670	130	5	3,263	-	-	-	-	-	-	3,263
Maryland	1	628	800	170	251	1,850	-	-	-	-	-	-	1,850
Massachusetts	-	-	253	168	2	423	125	51	798	293	109	1,376	1,799
Michigan	-	-	-	-	-	-	5,410	1,747	4,261	2,721	1,549	15,688	15,688
Minnesota	3,119	5,685	5,884	153	596	15,437	-	-	-	-	-	-	15,437
Mississippi	213	261	1,759	493	1,630	4,356	1,223	1,341	2,872	1,211	631	7,278	11,634
Missouri	-	6,213	8,379	2,961	357	17,910	-	-	-	-	-	-	17,910
Montana	61	2,152	1,896	153	73	4,335	-	5	273	164	120	562	4,897
Nebraska	444	819	1,316	371	176	3,126	1,250	504	1,260	264	248	3,526	6,652
Nevada	206	496	338	3	42	1,085	-	-	1,073	-	-	-	1,073
New Hampshire	53	252	756	93	36	1,190	-	-	-	-	-	-	1,190
New Jersey	-	21	31	-	-	52	404	144	761	142	55	1,506	1,558
New Mexico	168	776	1,805	672	360	3,781	-	-	-	-	-	-	3,781
New York	127	3,158	1,901	355	10	5,551	276	193	109	-	-	578	6,129
North Carolina	-	1,681	2,227	331	378	4,617	2,197	601	988	206	92	4,084	8,701
North Dakota	174	1,346	1,388	-	-	2,908	1,090	1,377	854	672	87	4,080	6,988
Ohio	1,693	4,891	2,218	180	11	8,993	170	330	1,262	1,097	30	2,889	11,882
Oklahoma	56	3,656	6,962	1,955	3,639	16,268	389	-	-	-	-	389	16,657
Oregon	-	285	1,062	182	63	1,592	1,450	2,191	2,521	450	71	6,683	8,275
Pennsylvania	17	1,518	4,292	1,202	1,056	8,085	-	-	-	-	-	-	8,085
Rhode Island	-	9	86	9	6	110	31	9	2	16	7	65	175
South Carolina	157	3,147	3,656	534	634	8,128	-	-	-	-	-	-	8,128
South Dakota	-	1,206	-	-	-	1,206	624	554	3,131	180	1,570	6,059	7,265
Tennessee	148	120	291	-	-	559	2,473	1,246	1,038	-	-	4,757	5,316
Texas	371	4,640	23,329	6,122	1,635	36,097	-	-	2	-	-	2	36,099
Utah	49	1,283	1,905	116	-	1,905	83	64	624	182	94	1,047	2,952
Vermont	-	488	756	487	278	2,009	-	-	-	-	-	-	2,009
Virginia	-	247	1,865	16	-	2,128	2,013	1,742	3,268	355	234	7,612	9,740
Washington	84	1,236	2,757	270	49	4,396	969	784	1,355	193	512	3,813	8,209
West Virginia	-	703	2,913	1,374	983	5,973	-	-	31	-	-	31	6,004
Wisconsin	505	2,824	8,034	571	1,731	13,665	-	-	-	-	-	-	13,665
Wyoming	249	1,016	951	47	-	2,263	-	53	141	35	-	229	2,492
U.S. Total	12,401	66,116	118,912	27,305	18,019	242,753	34,981	30,701	50,121	18,596	11,973	146,372	389,125
Puerto Rico	-	-	45	35	34	114	128	341	223	-	-	692	806
Grand Total	12,401	66,116	118,957	27,340	18,053	242,867	35,109	31,042	50,344	18,596	11,973	147,064	389,931

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2002 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63
SHEET 2 OF 3

OCTOBER 2003

STATE	URBAN MINOR ARTERIAL												TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama	52	439	491	21	-	1,003	106	202	659	77	27	1,071	2,074
Alaska	-	51	103	43	9	206	-	-	-	-	-	-	206
Arizona	20	51	225	39	22	357	509	199	181	19	4	912	1,269
Arkansas	-	32	221	57	42	352	87	132	127	384	3	733	1,085
California	18	255	3,435	3,602	2,673	9,983	3	48	196	15	5	267	10,250
Colorado	19	-	87	24	22	152	340	282	472	109	51	1,254	1,406
Connecticut	-	35	672	143	71	921	497	86	124	21	8	736	1,657
Delaware	-	19	99	16	24	158	-	1	-	-	-	1	159
Dist. of Columbia	-	-	-	-	-	-	170	3	1	-	-	174	174
Florida	148	615	641	40	92	1,536	790	456	316	13	-	1,575	3,111
Georgia	1,958	595	203	8	8	2,772	229	114	87	-	-	430	3,202
Hawaii	-	1	8	4	3	16	17	5	51	4	6	83	99
Idaho	-	19	27	4	6	56	63	47	141	217	40	508	564
Illinois	427	-	26	-	6	459	805	748	1,162	490	236	3,441	3,900
Indiana	1	173	83	26	36	319	380	762	579	241	167	2,129	2,448
Iowa	-	23	41	12	21	97	42	610	623	-	-	1,275	1,372
Kansas	1	14	299	188	301	803	25	56	39	89	61	270	1,073
Kentucky	-	162	858	92	42	1,154	-	-	-	-	-	-	1,154
Louisiana	48	196	497	323	376	1,440	-	9	31	9	-	49	1,489
Maine	1	42	205	31	3	282	-	-	-	-	-	-	282
Maryland	2	60	479	180	393	1,114	-	-	-	-	-	-	1,114
Massachusetts	-	7	522	330	196	1,055	43	185	938	719	161	2,046	3,101
Michigan	-	-	-	1	-	1	1,161	422	1,063	277	387	3,310	3,311
Minnesota	56	503	1,197	201	180	2,137	-	-	-	-	-	-	2,137
Mississippi	-	34	216	21	8	279	162	81	84	38	40	405	684
Missouri	5	43	253	145	93	539	256	179	449	281	74	1,239	1,778
Montana	-	12	38	6	4	60	3	11	63	65	24	166	226
Nebraska	10	-	17	3	11	41	156	78	199	50	24	507	548
Nevada	75	154	166	85	33	513	3	-	10	-	-	13	526
New Hampshire	24	73	211	58	58	424	-	-	5	3	2	10	434
New Jersey	-	47	281	120	194	642	633	167	1,066	409	94	2,369	3,011
New Mexico	19	27	160	59	40	305	-	-	-	36	-	36	341
New York	42	681	1,415	715	456	3,309	357	961	350	39	-	1,707	5,016
North Carolina	-	280	379	86	94	839	726	216	350	148	71	1,511	2,350
North Dakota	-	5	11	-	-	16	69	5	110	38	10	232	248
Ohio	204	660	1,180	132	72	2,248	63	413	600	194	75	1,345	3,593
Oklahoma	13	163	774	420	509	1,879	5	-	-	-	-	5	1,884
Oregon	6	3	149	38	46	242	295	224	206	45	9	779	1,021
Pennsylvania	9	223	1,843	796	437	3,308	-	-	-	-	-	-	3,308
Rhode Island	-	16	139	23	6	184	60	29	72	7	1	169	353
South Carolina	33	132	595	121	106	987	-	-	-	-	1	1	988
South Dakota	-	4	-	-	-	4	51	32	100	20	48	251	255
Tennessee	17	41	9	3	7	77	827	454	648	109	23	2,061	2,138
Texas	14	389	1,729	464	173	2,769	458	719	1,732	791	341	4,041	6,810
Utah	31	90	175	6	-	302	36	38	131	1	3	209	511
Vermont	-	30	32	17	8	87	10	18	13	5	20	66	153
Virginia	-	23	488	161	124	796	393	237	464	41	57	1,192	1,988
Washington	38	82	159	8	9	296	523	265	686	274	96	1,844	2,140
West Virginia	7	50	227	78	53	415	-	1	2	-	-	3	418
Wisconsin	30	481	1,177	184	173	2,045	-	-	-	-	-	-	2,045
Wyoming	-	9	26	4	3	42	23	34	45	7	4	113	155
U.S. Total	3,328	7,044	22,268	9,138	7,243	49,021	10,376	8,529	14,175	5,285	2,173	40,538	89,559
Puerto Rico	-	-	35	44	39	118	86	166	122	17	5	396	514
Grand Total	3,328	7,044	22,303	9,182	7,282	49,139	10,462	8,695	14,297	5,302	2,178	40,934	90,073

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2002 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63
SHEET 3 OF 3

OCTOBER 2003

STATE	URBAN COLLECTOR												TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/						PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-170	171-220	>220	TOTAL	>3.9	3.5-3.9	2.6-3.4	2.1-2.5	<=2.0	TOTAL	
Alabama	-	9	87	-	-	96	116	473	1,037	347	103	2,076	2,172
Alaska	5	20	102	38	55	220	-	-	-	-	-	-	220
Arizona	1	2	109	62	-	174	725	324	301	74	61	1,485	1,659
Arkansas	-	-	6	2	11	19	87	100	178	444	38	847	866
California	41	99	2,332	2,992	4,367	9,831	20	35	169	39	8	271	10,102
Colorado	14	7	1	-	-	22	298	292	478	148	72	1,288	1,310
Connecticut	-	13	180	98	57	348	986	199	181	29	8	1,403	1,751
Delaware	4	26	93	58	33	214	3	-	1	-	-	4	218
Dist. of Columbia	-	-	-	-	-	-	140	11	-	-	-	151	151
Florida	20	47	101	6	-	174	1,853	1,662	1,706	194	39	5,454	5,628
Georgia	1,891	35	-	-	3	1,929	189	29	10	-	-	228	2,157
Hawaii	-	-	11	4	7	22	46	39	133	66	30	314	336
Idaho	-	-	-	-	-	-	28	45	125	273	82	553	553
Illinois	156	3	-	-	-	159	839	431	1,311	695	531	3,807	3,966
Indiana	-	-	2	-	-	2	414	461	582	394	326	2,177	2,179
Iowa	-	1	-	-	2	3	49	349	523	12	1	934	937
Kansas	-	-	116	150	415	681	4	63	46	54	127	294	975
Kentucky	-	32	673	259	156	1,120	-	-	-	-	-	-	1,120
Louisiana	-	135	468	349	426	1,378	-	3	7	5	-	15	1,393
Maine	-	49	303	107	19	478	-	-	-	-	-	-	478
Maryland	1	5	344	340	569	1,259	-	-	-	-	-	-	1,259
Massachusetts	-	-	206	-	1	207	70	331	1,132	727	66	2,326	2,533
Michigan	-	-	-	1	-	1	779	231	776	177	431	2,394	2,395
Minnesota	-	187	486	299	546	1,518	-	-	-	-	-	-	1,518
Mississippi	-	20	7	6	22	55	289	173	259	108	105	934	989
Missouri	-	4	1	-	8	13	224	213	629	360	119	1,545	1,558
Montana	-	2	-	2	6	10	10	3	132	97	50	292	302
Nebraska	-	-	-	-	3	3	98	29	172	82	22	403	406
Nevada	19	44	211	142	76	492	5	-	247	-	7	259	751
New Hampshire	16	36	130	43	42	267	-	-	7	4	3	14	281
New Jersey	-	24	78	8	-	110	475	96	1,004	321	141	2,037	2,147
New Mexico	-	6	162	61	72	301	-	-	-	139	-	139	440
New York	-	96	244	11	73	424	866	1,659	853	215	19	3,612	4,036
North Carolina	-	87	109	53	28	277	548	189	365	119	133	1,354	1,631
North Dakota	-	2	5	1	-	8	56	4	145	34	16	255	263
Ohio	104	168	616	11	35	934	164	309	1,547	292	207	2,519	3,453
Oklahoma	-	16	345	173	420	954	4	-	-	-	-	4	958
Oregon	-	-	14	26	3	43	362	196	449	129	77	1,213	1,256
Pennsylvania	-	93	1,517	1,021	1,131	3,762	-	-	-	-	-	-	3,762
Rhode Island	-	4	4	-	-	8	124	102	179	75	40	520	528
South Carolina	21	69	643	377	347	1,457	-	-	-	-	-	-	1,457
South Dakota	-	-	-	-	-	-	37	15	83	8	49	192	192
Tennessee	-	-	9	1	-	10	671	307	592	95	8	1,673	1,683
Texas	-	115	897	197	218	1,427	685	1,173	3,020	1,725	734	7,337	8,764
Utah	-	4	19	17	3	43	100	87	305	7	-	499	542
Vermont	-	-	-	-	1	1	15	57	44	29	62	207	208
Virginia	-	11	61	2	20	94	360	281	909	79	109	1,738	1,832
Washington	-	9	6	3	-	18	508	250	728	385	151	2,022	2,040
West Virginia	2	5	138	83	209	437	1	-	2	1	1	5	442
Wisconsin	16	249	855	221	136	1,477	-	-	-	-	-	-	1,477
Wyoming	-	1	10	-	-	11	55	104	227	53	30	469	480
U.S. Total	2,311	1,735	11,701	7,224	9,520	32,491	12,303	10,325	20,594	8,035	4,006	55,263	87,754
Puerto Rico	-	-	14	11	2	27	147	180	213	21	7	568	595
Grand Total	2,311	1,735	11,715	7,235	9,522	32,518	12,450	10,505	20,807	8,056	4,013	55,831	88,349

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2002

MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

HM-63 Footnotes Page:

- 1/ Some States elect to report International Roughness Index (IRI) for these systems; some report IRI for some sections and PSR for some sections. Some differences from other tables may be noted because these are estimated from sample data.
- 2/ Data are reported as the 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.
- 3/ The "Present Serviceability Rating" (PSR) is a subjective, primarily ride-based system adapted from the "AASHO ROAD TESTS" conducted in the late 1950's and early 1960's. Reference: Highway Special Report 61E, 1962. The PSR values range from 0.1 to 5.0; higher PSR values represent smoother riding roadways.