

**FUNCTIONAL SYSTEM LENGTH - 2003 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

OCTOBER 2004

TABLE HM-63
SHEET 1 OF 3

STATE	RURAL MAJOR 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	44	561	452	82	-	1,139	-	721	2,138	5,100	1,986	893	10,838	11,977
Alaska	17	55	514	134	81	801	-	-	-	-	-	10	10	811
Arizona	810	509	1,239	86	-	2,644	935	175	178	85	66	1,439	4,083	4,083
Arkansas	-	326	3,738	3,156	1,405	8,625	119	957	1,261	460	538	3,335	11,960	11,960
California	106	3,141	6,283	2,006	1,260	12,796	-	-	-	-	-	-	-	12,796
Colorado	-	747	1,809	473	152	3,181	415	413	695	258	205	1,986	5,167	5,167
Connecticut	-	63	435	232	142	872	37	8	-	-	-	45	917	917
Delaware	15	257	198	54	30	554	-	-	-	-	-	-	554	554
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	344	503	115	-	-	962	1,204	986	874	224	104	3,392	4,354	4,354
Georgia	884	96	14	-	-	994	5,461	4,266	2,663	-	-	12,390	13,384	13,384
Hawaii	-	36	176	56	54	322	18	7	12	-	6	43	365	365
Idaho	87	624	507	246	6	1,470	16	19	312	1,703	406	2,456	3,926	3,926
Illinois	662	-	-	-	-	662	3,533	1,341	6,026	1,159	1,003	13,062	13,724	13,724
Indiana	1,039	2,932	2,861	826	254	7,912	454	288	1,002	475	615	2,834	10,746	10,746
Iowa	-	23	14	-	13	50	1,174	6,162	5,121	353	-	12,810	12,860	12,860
Kansas	19	2,600	1,857	1	-	4,477	258	2,026	143	3,058	2,852	8,337	12,814	12,814
Kentucky	-	786	4,831	500	15	6,132	-	-	-	-	-	-	6,132	6,132
Louisiana	470	1,682	2,152	574	168	5,046	-	-	-	-	2	2	5,048	5,048
Maine	110	541	1,882	517	213	3,263	-	-	-	-	-	-	3,263	3,263
Maryland	-	500	693	205	238	1,636	-	-	-	-	-	-	1,636	1,636
Massachusetts	-	-	209	46	-	255	88	27	451	196	120	882	1,137	1,137
Michigan	-	-	-	-	-	-	4,644	1,533	4,113	2,596	1,499	14,385	14,385	14,385
Minnesota	2,259	5,714	6,430	321	803	15,527	-	-	-	-	-	-	15,527	15,527
Mississippi	207	264	1,919	585	1,922	4,897	1,022	880	2,916	1,045	614	6,477	11,374	11,374
Missouri 4/	-	6,213	8,379	2,961	357	17,910	-	-	-	-	-	-	17,910	17,910
Montana	66	2,304	2,107	164	36	4,677	5	-	133	162	109	409	5,086	5,086
Nebraska	446	824	1,247	405	226	3,148	1,475	321	1,047	241	471	3,555	6,703	6,703
Nevada	212	736	1,106	62	43	2,159	-	-	-	-	-	-	2,159	2,159
New Hampshire	108	228	719	197	1	1,253	-	-	-	-	-	-	1,253	1,253
New Jersey	-	16	662	163	9	850	42	4	5	-	9	60	910	910
New Mexico	148	535	1,850	909	270	3,712	-	-	-	-	-	-	3,712	3,712
New York	116	3,057	1,851	261	12	5,297	235	489	110	-	-	834	6,131	6,131
North Carolina	-	1,771	2,379	362	395	4,907	1,968	619	888	190	96	3,761	8,668	8,668
North Dakota	379	1,161	1,354	-	-	2,894	1,088	1,372	922	669	87	4,138	7,032	7,032
Ohio	1,447	3,505	3,144	172	11	8,279	133	216	1,601	972	-	2,922	11,201	11,201
Oklahoma	40	3,506	7,297	2,104	3,337	16,284	453	-	-	-	-	453	16,737	16,737
Oregon	-	283	1,047	181	81	1,592	1,839	2,139	2,136	352	71	6,537	8,129	8,129
Pennsylvania	16	1,416	3,838	1,079	1,033	7,382	-	-	-	-	-	-	7,382	7,382
Rhode Island	-	9	82	4	-	95	12	12	4	19	4	51	146	146
South Carolina	45	3,360	3,796	432	495	8,128	-	-	-	-	-	-	8,128	8,128
South Dakota	468	950	2,968	554	606	5,546	476	334	1,242	-	63	2,115	7,661	7,661
Tennessee	309	1,225	1,173	337	35	3,079	706	851	440	56	-	2,053	5,132	5,132
Texas	832	5,634	23,885	4,888	794	36,033	-	-	1	-	-	1	36,034	36,034
Utah	3	455	1,381	114	-	1,953	83	56	592	170	88	989	2,942	2,942
Vermont	-	448	788	470	302	2,008	-	-	-	-	-	-	2,008	2,008
Virginia	-	215	1,771	15	-	2,001	1,771	1,803	2,789	640	362	7,365	9,366	9,366
Washington	43	1,002	2,964	352	49	4,410	1,264	726	1,299	157	361	3,807	8,217	8,217
West Virginia	13	913	3,049	840	1,153	5,968	-	-	31	-	-	31	5,999	5,999
Wisconsin	258	3,073	7,528	605	1,869	13,333	-	-	-	-	-	-	13,333	13,333
Wyoming	228	1,065	931	36	-	2,260	-	72	134	29	-	235	2,495	2,495
U.S. Total	12,250	65,864	125,624	27,767	17,870	249,375	31,649	30,240	44,241	17,255	10,654	134,039	383,414	383,414
Puerto Rico	-	-	11	4	4	19	49	154	129	27	-	359	378	378
Grand Total	12,250	65,864	125,635	27,771	17,874	249,394	31,698	30,394	44,370	17,282	10,654	134,398	383,792	383,792

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2003 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63
SHEET 2 OF 3

OCTOBER 2004

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	110	430	540	23	1	1,104	106	196	590	64	27	983	2,087
Alaska	-	54	100	43	8	205	-	-	-	-	-	-	205
Arizona	37	61	159	70	52	379	479	152	153	21	-	805	1,184
Arkansas	-	29	240	90	70	429	73	123	186	221	56	659	1,088
California	25	250	3,498	3,548	2,641	9,962	3	63	208	10	-	284	10,246
Colorado	-	25	132	60	19	236	408	226	496	113	52	1,295	1,531
Connecticut	-	37	710	158	59	964	496	80	122	18	2	718	1,682
Delaware	-	18	95	24	22	159	-	1	-	-	-	1	160
Dist. of Columbia	-	-	-	-	-	-	136	29	7	-	-	172	172
Florida	124	700	625	77	71	1,597	797	433	301	5	3	1,539	3,136
Georgia	2,024	484	247	12	8	2,775	231	125	61	-	-	417	3,192
Hawaii	-	3	35	5	2	45	13	3	34	2	-	52	97
Idaho	1	11	31	4	6	53	59	31	136	227	36	489	542
Illinois	404	-	32	-	7	443	1,085	615	1,197	441	160	3,498	3,941
Indiana	1	174	86	42	75	378	399	745	504	226	193	2,067	2,445
Iowa	5	11	34	12	17	79	43	678	684	-	-	1,405	1,484
Kansas	-	41	442	252	202	937	15	25	4	43	52	139	1,076
Kentucky	-	108	841	52	24	1,025	-	-	-	-	-	-	1,025
Louisiana	25	197	473	308	379	1,382	-	9	82	10	4	105	1,487
Maine	9	40	114	60	58	281	-	-	-	-	-	-	281
Maryland	5	108	519	306	414	1,352	-	-	-	-	-	-	1,352
Massachusetts	-	5	734	358	79	1,176	45	234	1,170	908	222	2,579	3,755
Michigan	-	-	-	2	-	2	1,099	419	1,149	314	463	3,444	3,446
Minnesota	73	279	1,172	340	260	2,124	-	-	-	-	-	-	2,124
Mississippi	-	64	246	43	24	377	144	87	154	42	51	478	855
Missouri 4/	5	43	253	145	93	539	256	179	449	281	74	1,239	1,778
Montana	-	10	56	5	12	83	3	10	64	71	16	164	247
Nebraska	10	-	21	10	15	56	180	60	212	88	18	558	614
Nevada	83	132	197	86	28	526	-	-	-	-	-	-	526
New Hampshire	24	97	200	55	61	437	-	-	-	-	-	-	437
New Jersey	-	85	895	720	1,105	2,805	21	44	96	233	33	427	3,232
New Mexico	15	34	229	108	81	467	-	-	-	73	-	73	540
New York	37	677	1,558	673	423	3,368	285	808	502	54	-	1,649	5,017
North Carolina	-	300	429	104	76	909	699	213	338	136	74	1,460	2,369
North Dakota	-	5	10	-	-	15	68	19	107	31	8	233	248
Ohio	94	739	1,215	179	83	2,310	56	460	674	199	147	1,536	3,846
Oklahoma	16	186	787	462	604	2,055	2	-	-	-	-	2	2,057
Oregon	5	4	164	46	44	263	314	221	207	41	11	794	1,057
Pennsylvania	9	314	2,198	776	499	3,796	-	-	-	-	-	-	3,796
Rhode Island	-	23	145	27	9	204	41	41	54	11	11	158	362
South Carolina	18	151	608	108	108	993	-	-	-	-	-	-	993
South Dakota	-	61	-	-	-	61	64	7	100	13	66	250	311
Tennessee	42	240	433	56	46	817	413	328	667	85	13	1,506	2,323
Texas	16	450	1,744	394	143	2,747	496	549	1,767	627	302	3,741	6,488
Utah	13	94	201	10	-	318	37	39	104	1	8	189	507
Vermont	-	32	34	17	7	90	8	15	15	5	18	61	151
Virginia	-	50	452	194	117	813	310	271	580	51	54	1,266	2,079
Washington	8	96	160	9	3	276	572	287	604	270	109	1,842	2,118
West Virginia	3	83	208	66	30	390	-	-	1	-	-	1	391
Wisconsin	33	567	1,297	212	179	2,288	-	-	-	-	-	-	2,288
Wyoming	-	6	27	3	3	39	27	32	52	6	3	120	159
U.S. Total	3,274	7,608	24,626	10,354	8,267	54,129	9,483	7,857	13,831	4,941	2,286	38,398	92,527
Puerto Rico	-	-	104	120	140	364	95	219	183	16	5	518	882
Grand Total	3,274	7,608	24,730	10,474	8,407	54,493	9,578	8,076	14,014	4,957	2,291	38,916	93,409

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2003 1/
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63
SHEET 3 OF 3

OCTOBER 2004

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	-	10	186	30	8	234	111	433	1,019	295	79	1,937	2,171
Alaska	15	8	123	75	55	276	-	-	-	-	36	36	312
Arizona	4	16	97	106	5	228	1,002	345	372	91	76	1,886	2,114
Arkansas	4	-	6	-	10	20	143	156	322	225	48	894	914
California	40	122	2,288	3,197	4,190	9,837	24	56	170	50	9	309	10,146
Colorado	12	-	26	-	-	38	486	247	567	318	130	1,748	1,786
Connecticut	-	17	192	108	44	361	1,013	166	193	25	-	1,397	1,758
Delaware	4	24	101	55	31	215	3	-	1	-	-	4	219
Dist. of Columbia	-	-	-	-	-	-	95	55	3	-	-	153	153
Florida	9	91	118	17	5	240	1,918	1,646	1,644	181	49	5,438	5,678
Georgia	1,897	39	-	-	4	1,940	183	20	10	-	-	213	2,153
Hawaii	3	33	112	21	9	178	33	18	61	33	14	159	337
Idaho	-	-	2	3	-	5	32	39	122	297	70	560	565
Illinois	315	1	-	-	-	316	799	567	1,268	547	510	3,691	4,007
Indiana	-	-	1	-	-	1	420	499	619	328	315	2,181	2,182
Iowa	-	-	-	-	-	-	58	373	548	17	1	997	997
Kansas	-	-	183	191	432	806	20	54	30	28	61	193	999
Kentucky	-	6	927	59	2	994	-	-	-	-	-	-	994
Louisiana	-	125	424	358	435	1,342	-	3	39	18	-	60	1,402
Maine	-	52	226	94	108	480	-	-	-	-	-	-	480
Maryland	-	25	379	350	634	1,388	-	3	-	-	-	3	1,391
Massachusetts	-	-	200	-	1	201	66	307	1,295	779	275	2,722	2,923
Michigan	-	-	-	4	-	4	1,276	243	1,174	223	726	3,642	3,646
Minnesota	-	118	503	225	708	1,554	-	-	-	-	-	-	1,554
Mississippi	37	22	39	8	16	122	313	219	376	183	171	1,262	1,384
Missouri 4/	-	4	1	-	8	13	224	213	629	360	119	1,545	1,558
Montana	-	-	1	2	1	4	6	9	124	105	71	315	319
Nebraska	-	-	1	-	3	4	92	50	159	86	25	412	416
Nevada	25	99	286	218	123	751	-	-	-	-	-	-	751
New Hampshire	11	52	139	43	37	282	-	-	-	-	-	-	282
New Jersey	-	10	296	575	1,201	2,082	42	39	170	80	84	415	2,497
New Mexico	-	29	114	74	125	342	-	-	-	356	-	356	698
New York	-	78	234	12	97	421	832	1,699	817	250	19	3,617	4,038
North Carolina	-	94	112	51	26	283	534	190	359	124	130	1,337	1,620
North Dakota	-	2	5	1	-	8	56	27	131	30	16	260	268
Ohio	192	277	905	24	31	1,429	227	306	1,925	336	256	3,050	4,479
Oklahoma	-	25	296	175	528	1,024	8	-	-	-	-	8	1,032
Oregon	-	-	11	31	3	45	391	238	465	122	80	1,296	1,341
Pennsylvania	-	150	2,176	1,332	1,348	5,006	-	-	-	-	-	-	5,006
Rhode Island	-	4	9	6	10	29	125	146	160	102	49	582	611
South Carolina	3	74	673	376	341	1,467	-	-	-	-	-	-	1,467
South Dakota	-	-	-	-	-	-	42	5	93	4	55	199	199
Tennessee	-	35	48	4	1	88	684	396	738	89	25	1,932	2,020
Texas	1	184	1,078	467	167	1,897	609	902	2,710	1,611	736	6,568	8,465
Utah	-	5	34	5	-	44	94	79	320	11	3	507	551
Vermont	-	-	-	-	1	1	14	56	45	29	62	206	207
Virginia	4	15	115	3	18	155	513	354	851	168	119	2,005	2,160
Washington	-	17	6	2	-	25	580	264	636	380	156	2,016	2,041
West Virginia	-	23	129	100	143	395	1	-	2	1	1	5	400
Wisconsin	17	274	1,006	286	181	1,764	-	-	-	-	-	-	1,764
Wyoming	-	1	9	-	-	10	57	114	218	56	29	474	484
U.S. Total	2,593	2,161	13,817	8,688	11,090	38,349	13,126	10,536	20,385	7,938	4,605	56,590	94,939
Puerto Rico	-	-	26	38	59	123	262	323	427	62	12	1,086	1,209
Grand Total	2,593	2,161	13,843	8,726	11,149	38,472	13,388	10,859	20,812	8,000	4,617	57,676	96,148

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2003

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.
- 4/ 2002 data used.