

**FUNCTIONAL SYSTEM LENGTH - 2004 1/  
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 1 OF 3

OCTOBER 2005

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	12	435	227	-	95	769	1,229	2,176	5,739	1,639	338	11,121	11,890	
Alaska	68	123	413	144	39	787	-	-	-	-	-	-	787	
Arizona	786	397	1,295	97	-	2,575	977	197	183	91	78	1,526	4,101	
Arkansas	-	937	5,591	2,354	599	9,481	99	765	675	399	555	2,493	11,974	
California	103	3,251	6,191	2,119	1,142	12,806	-	-	-	-	-	-	12,806	
Colorado	349	532	1,804	496	-	3,181	369	425	418	250	204	1,666	4,847	
Connecticut	-	54	529	141	174	898	33	-	8	-	-	41	939	
Delaware	16	226	168	38	28	476	-	-	-	-	-	-	476	
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	
Florida	291	619	216	-	-	1,126	1,231	609	809	202	129	2,980	4,106	
Georgia	1,381	28	-	-	-	1,409	4,532	3,524	2,951	-	-	11,007	12,416	
Hawaii	-	46	266	29	9	350	-	11	3	-	-	14	364	
Idaho	63	776	594	30	6	1,469	63	30	182	1,717	473	2,465	3,934	
Illinois	360	-	-	-	-	360	3,842	1,139	5,920	1,178	1,239	13,318	13,678	
Indiana 4/	1,039	2,932	2,861	826	254	7,912	454	288	1,002	475	615	2,834	10,746	
Iowa	905	3,131	6,546	1,473	294	12,349	-	357	80	91	-	528	12,877	
Kansas	499	2,426	1,509	-	-	4,434	252	1,982	144	3,089	2,809	8,276	12,710	
Kentucky	-	771	4,908	458	16	6,153	-	-	-	-	-	-	6,153	
Louisiana	229	2,008	1,704	782	124	4,847	-	-	-	-	2	2	4,849	
Maine	153	696	1,351	556	512	3,268	-	-	-	-	-	-	3,268	
Maryland	-	519	655	268	111	1,553	-	-	-	-	-	-	1,553	
Massachusetts	-	35	202	5	-	242	119	19	446	216	96	896	1,138	
Michigan	-	-	-	-	-	-	3,316	1,174	5,516	3,259	1,146	14,411	14,411	
Minnesota	1,914	5,929	6,590	337	794	15,564	-	-	-	-	-	-	15,564	
Mississippi	55	702	3,755	1,006	230	5,748	-	1,028	818	2,456	820	614	5,736	11,484
Missouri	-	4,255	8,331	2,653	1,777	17,016	-	-	-	-	-	-	17,016	
Montana	65	1,795	2,480	300	27	4,667	5	-	168	162	108	443	5,110	
Nebraska	494	744	1,268	415	219	3,140	1,379	463	923	320	450	3,535	6,675	
Nevada 4/	212	736	1,106	62	43	2,159	-	-	-	-	-	-	2,159	
New Hampshire 4/	108	228	719	197	1	1,253	-	-	-	-	-	-	1,253	
New Jersey	-	16	567	136	10	729	106	3	115	-	10	234	963	
New Mexico	44	530	1,434	1,051	454	3,513	-	-	-	6	-	6	3,519	
New York	50	2,599	2,035	511	146	5,341	408	286	95	-	-	789	6,130	
North Carolina	-	1,824	2,368	344	396	4,932	1,990	611	882	191	97	3,771	8,703	
North Dakota	-	595	1,831	407	-	2,833	947	1,232	1,225	708	87	4,199	7,032	
Ohio	580	3,123	3,260	482	96	7,541	687	1,108	985	910	-	3,690	11,231	
Oklahoma	43	3,382	7,705	2,122	3,091	16,343	453	-	-	-	-	453	16,796	
Oregon	142	142	865	71	48	1,268	1,876	2,368	1,691	284	-	6,219	7,487	
Pennsylvania	16	1,452	3,790	1,026	960	7,244	-	-	-	-	-	-	7,244	
Rhode Island	-	4	66	17	3	90	12	12	7	22	3	56	146	
South Carolina	-	3,296	3,695	550	435	7,976	-	-	152	-	-	152	8,128	
South Dakota	488	895	2,954	591	631	5,559	625	499	590	177	24	1,915	7,474	
Tennessee	839	2,460	1,543	102	40	4,984	67	-	31	-	-	98	5,082	
Texas	788	5,210	26,440	3,443	134	36,015	-	13	14	-	-	27	36,042	
Utah	3	392	1,325	108	-	1,828	64	56	546	167	88	921	2,749	
Vermont	-	392	1,041	259	313	2,005	-	-	-	-	-	-	2,005	
Virginia	-	206	1,624	15	-	1,845	1,988	1,805	2,812	562	353	7,520	9,365	
Washington	153	977	2,526	651	50	4,357	1,449	621	1,350	97	305	3,822	8,179	
West Virginia	17	893	2,990	828	1,270	5,998	-	-	-	-	-	-	5,998	
Wisconsin	221	2,763	7,596	621	1,732	12,933	-	-	-	-	-	-	12,933	
Wyoming	172	868	1,214	103	-	2,357	-	71	115	28	-	214	2,571	
U.S. Total	12,658	66,350	138,148	28,224	16,303	261,683	29,600	22,662	38,233	17,060	9,823	117,378	379,061	
Puerto Rico	-	-	11	2	16	29	64	102	42	9	-	217	246	
Grand Total	12,658	66,350	138,159	28,226	16,319	261,712	29,664	22,764	38,275	17,069	9,823	117,595	379,307	

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2004 1/  
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 2 OF 3

OCTOBER 2005

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	109	228	561	89	9	996	88	183	623	89	23	1,006	2,002	
Alaska	-	41	110	47	7	205	-	-	-	-	-	-	205	
Arizona	15	44	161	75	50	345	519	183	197	27	-	926	1,271	
Arkansas	-	28	323	75	29	455	76	124	199	216	27	642	1,097	
California	23	253	3,341	3,587	2,499	9,703	42	105	371	12	-	530	10,233	
Colorado	-	8	60	42	11	121	494	230	535	162	31	1,452	1,573	
Connecticut	-	26	692	156	80	954	535	91	97	7	-	730	1,684	
Delaware	-	31	107	25	23	186	-	1	1	-	-	2	188	
Dist. of Columbia	-	-	1	14	158	173	-	-	-	-	-	-	173	
Florida	95	924	679	108	56	1,862	666	797	589	55	5	2,112	3,974	
Georgia	2,763	576	221	4	13	3,577	249	205	104	-	-	558	4,135	
Hawaii	-	11	62	8	4	85	2	-	10	-	-	12	97	
Idaho	-	17	36	6	5	64	56	27	115	283	37	518	582	
Illinois	325	21	27	1	7	381	1,216	869	1,077	384	153	3,699	4,080	
Indiana 4/	1	174	86	42	75	378	399	745	504	226	193	2,067	2,445	
Iowa	-	105	329	266	598	1,298	10	89	90	2	-	191	1,489	
Kansas	-	65	409	207	205	886	15	32	17	74	70	208	1,094	
Kentucky	-	103	824	50	21	998	-	-	-	-	-	-	998	
Louisiana	22	325	586	339	377	1,649	-	16	80	10	4	110	1,759	
Maine	10	48	107	38	47	250	-	-	-	-	-	-	250	
Maryland	9	104	495	312	379	1,299	-	-	-	-	-	-	1,299	
Massachusetts	1	75	847	303	20	1,246	45	210	1,171	871	212	2,509	3,755	
Michigan	-	-	-	1	-	1	1,040	282	1,339	164	620	3,445	3,446	
Minnesota	90	297	1,141	379	277	2,184	-	-	-	-	-	-	2,184	
Mississippi	54	37	298	56	82	527	112	50	86	35	41	324	851	
Missouri	-	33	316	182	1,093	1,624	-	-	-	-	-	-	1,624	
Montana	-	-	41	5	8	54	3	8	58	71	15	155	209	
Nebraska	13	-	24	11	17	65	205	97	211	69	14	596	661	
Nevada 4/	83	132	197	86	28	526	-	-	-	-	-	-	526	
New Hampshire 4/	24	97	200	55	60	436	-	-	-	-	-	-	436	
New Jersey	-	81	926	827	1,184	3,018	9	68	325	22	44	468	3,486	
New Mexico	22	46	236	74	84	462	-	-	-	142	-	142	604	
New York	8	597	1,647	577	768	3,597	344	603	408	34	6	1,395	4,992	
North Carolina	-	346	443	96	60	945	697	211	326	141	69	1,444	2,389	
North Dakota	-	3	11	-	-	14	55	29	102	39	9	234	248	
Ohio	47	341	1,252	302	160	2,102	671	545	432	89	15	1,752	3,854	
Oklahoma	37	181	785	384	668	2,055	1	-	-	-	-	1	2,056	
Oregon	-	11	121	50	21	203	337	233	275	59	8	912	1,115	
Pennsylvania	17	340	2,226	833	524	3,940	-	-	-	-	-	-	3,940	
Rhode Island	-	4	106	46	38	194	45	39	61	11	11	167	361	
South Carolina	21	143	634	110	80	988	-	-	1	-	-	1	989	
South Dakota	-	2	20	3	19	44	97	5	96	7	51	256	300	
Tennessee	74	347	421	119	81	1,042	391	286	585	61	15	1,338	2,380	
Texas	33	381	1,931	211	140	2,696	512	679	1,954	712	290	4,147	6,843	
Utah	19	161	209	9	1	399	28	41	114	1	7	191	590	
Vermont	-	33	37	14	4	88	8	18	11	5	24	66	154	
Virginia	-	59	548	169	106	882	259	232	623	72	29	1,215	2,097	
Washington	3	84	111	16	5	219	631	290	725	278	129	2,053	2,272	
West Virginia	-	88	226	72	30	416	-	-	-	-	-	-	416	
Wisconsin	152	603	1,431	247	167	2,600	-	-	-	-	-	-	2,600	
Wyoming	2	3	25	6	5	41	27	34	54	6	2	123	164	
U.S. Total	4,072	7,657	25,627	10,734	10,383	58,473	9,884	7,657	13,566	4,436	2,154	37,697	96,170	
Puerto Rico	-	-	95	127	181	403	187	250	151	22	2	612	1,015	
Grand Total	4,072	7,657	25,722	10,861	10,564	58,876	10,071	7,907	13,717	4,458	2,156	38,309	97,185	

For footnotes, see Footnotes Page.

**FUNCTIONAL SYSTEM LENGTH - 2004 1/  
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

TABLE HM-63  
SHEET 3 OF 3

OCTOBER 2005

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	-	6	144	50	5	205	82	391	912	314	150	1,849	2,054
Alaska	-	20	169	54	74	317	-	-	-	-	-	-	317
Arizona	-	13	95	110	5	223	928	365	376	99	70	1,838	2,061
Arkansas	-	-	11	4	11	26	103	175	312	245	56	891	917
California	25	121	2,025	2,980	3,904	9,055	140	135	558	90	92	1,015	10,070
Colorado	-	-	15	-	-	15	414	181	704	278	142	1,719	1,734
Connecticut	-	14	193	120	29	356	1,097	174	168	18	5	1,462	1,818
Delaware	6	67	123	73	37	306	8	5	2	-	-	15	321
Dist. of Columbia	-	-	-	1	151	152	-	-	-	-	-	-	152
Florida	31	177	151	24	6	389	2,068	1,963	2,146	193	41	6,411	6,800
Georgia	2,321	29	-	-	1	2,351	187	4	55	-	-	246	2,597
Hawaii	3	50	228	37	6	324	4	-	5	5	2	16	340
Idaho	-	-	1	3	-	4	43	37	116	317	54	567	571
Illinois	288	1	-	-	-	289	968	490	1,636	420	308	3,822	4,111
Indiana 4/	-	-	1	-	-	1	420	499	619	328	315	2,181	2,182
Iowa	-	48	214	206	436	904	14	41	29	8	-	92	996
Kansas	-	-	191	181	435	807	24	69	36	37	65	231	1,038
Kentucky	-	11	891	51	1	954	-	-	-	-	-	-	954
Louisiana	7	174	552	376	540	1,649	-	4	68	31	-	103	1,752
Maine	-	69	189	94	117	469	-	-	-	-	-	-	469
Maryland	-	31	402	340	622	1,395	-	-	-	-	-	-	1,395
Massachusetts	-	-	200	-	-	200	66	351	1,197	781	317	2,712	2,912
Michigan	-	-	3	-	1	4	1,226	236	1,096	262	767	3,587	3,591
Minnesota	-	118	478	262	649	1,507	-	-	-	-	-	-	1,507
Mississippi	-	4	181	28	104	317	270	166	314	182	158	1,090	1,407
Missouri	-	22	40	1	1,774	1,837	-	-	-	-	-	-	1,837
Montana	-	-	1	3	1	5	1	14	132	102	64	313	318
Nebraska	-	-	2	-	3	5	92	52	188	76	22	430	435
Nevada 4/	25	99	286	218	123	751	-	-	-	-	-	-	751
New Hampshire 4/	11	52	139	43	37	282	-	-	-	-	-	-	282
New Jersey	-	7	302	682	1,239	2,230	53	85	226	80	65	509	2,739
New Mexico	-	54	175	232	269	730	-	-	-	719	-	719	1,449
New York	-	58	276	16	273	623	900	1,375	864	199	74	3,412	4,035
North Carolina	-	113	115	52	26	306	526	186	355	118	134	1,319	1,625
North Dakota	-	2	4	2	-	8	53	24	122	40	18	257	265
Ohio	118	267	952	118	102	1,557	1,473	727	691	195	8	3,094	4,651
Oklahoma	-	23	264	198	536	1,021	5	-	-	-	-	5	1,026
Oregon	-	-	10	5	-	15	639	370	638	118	82	1,847	1,862
Pennsylvania	-	152	2,281	1,397	1,462	5,292	-	-	-	-	-	-	5,292
Rhode Island	-	-	-	5	20	25	122	154	163	97	49	585	610
South Carolina	-	74	645	361	366	1,446	11	5	-	-	-	16	1,462
South Dakota	-	-	3	6	20	29	46	33	67	4	23	173	202
Tennessee	-	32	64	6	17	119	749	411	764	75	18	2,017	2,136
Texas	6	312	1,311	551	88	2,268	700	869	2,542	1,207	624	5,942	8,210
Utah	-	20	74	10	-	104	121	106	435	17	9	688	792
Vermont	-	-	-	-	1	1	15	58	46	30	64	213	214
Virginia	4	17	77	7	18	123	509	353	945	166	118	2,091	2,214
Washington	-	15	11	1	1	28	617	310	662	382	144	2,115	2,143
West Virginia	-	24	141	110	164	439	-	-	1	-	-	1	440
Wisconsin	17	354	1,173	339	259	2,142	-	-	-	-	-	-	2,142
Wyoming	-	3	11	-	-	14	53	112	210	59	29	463	477
U.S. Total	2,862	2,653	14,814	9,357	13,933	43,619	14,747	10,530	19,400	7,292	4,087	56,056	99,675
Puerto Rico	-	-	20	80	60	160	355	303	381	20	12	1,071	1,231
Grand Total	2,862	2,653	14,834	9,437	13,993	43,779	15,102	10,833	19,781	7,312	4,099	57,127	100,906

For footnotes, see Footnotes Page.

# FUNCTIONAL SYSTEM LENGTH - 2004

## 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/ 2003 data used.