

**FUNCTIONAL SYSTEM LENGTH - 2000 1/  
MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING**

OCTOBER 2001

TABLE HM-63  
SHEET 1 OF 3

STATE	RURAL MAJOR COLLECTOR															
	INTERNATIONAL ROUGHNESS INDEX 2/									PRESENT SERVICEABILITY RATING 3/						TOTAL
	<60	60-94	95-119	120-144	145-170	171-194	195-220	>220	TOTAL	<=2.0	2.1-2.5	2.6-3.4	3.5-3.9	>3.9	TOTAL	
Alabama	44	245	163	10	238	-	-	-	700	757	1,801	4,737	2,053	1,673	11,021	11,721
Alaska	42	60	159	155	218	92	38	81	845	-	-	-	-	-	-	845
Arizona	359	602	677	306	713	61	5	-	2,723	70	81	147	254	1,020	1,572	4,295
Arkansas	-	219	1,286	1,505	1,216	1,811	1,440	1,391	8,868	547	710	1,081	215	354	2,907	11,775
California	95	2,882	2,168	2,240	1,482	1,041	964	1,820	12,692	-	-	1	-	-	1	12,693
Colorado	-	1,589	324	132	550	324	24	199	3,142	222	246	765	476	477	2,186	5,328
Connecticut	-	26	364	181	247	129	82	127	1,156	-	-	-	-	59	59	1,215
Delaware	-	219	81	107	40	33	37	37	554	-	1	-	-	-	1	555
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	103	474	119	8	17	-	-	-	721	-	241	1,356	1,063	978	3,638	4,359
Georgia	726	47	-	-	-	-	-	-	773	-	-	2,776	4,490	5,379	12,645	13,418
Hawaii	-	-	-	-	-	-	-	-	-	6	43	97	50	162	358	358
Idaho	141	486	350	150	5	44	-	234	1,410	407	1,283	615	73	7	2,385	3,795
Illinois	933	-	-	-	-	-	-	-	933	935	906	4,032	2,372	4,587	12,832	13,765
Indiana	881	2,246	1,633	587	755	571	631	507	7,811	432	529	1,223	313	415	2,912	10,723
Iowa	84	227	127	97	218	14	41	103	911	51	-	3,384	7,228	1,456	12,119	13,030
Kansas	144	1,658	492	37	15	-	-	15	2,361	2,374	3,175	276	1,410	938	8,173	10,534
Kentucky	-	1,864	2,800	1,435	882	-	7	5	6,993	-	-	-	-	-	-	6,993
Louisiana	121	1,908	1,455	1,162	1,237	427	198	457	6,965	3	-	-	-	-	3	6,968
Maine	-	415	847	1,046	631	100	124	87	3,250	-	-	-	-	-	-	3,250
Maryland 4/	85	354	345	386	113	67	-	26	1,376	-	-	-	-	-	-	1,376
Massachusetts	-	16	36	56	148	49	104	4	413	-	289	813	52	122	1,384	1,797
Michigan	-	-	-	-	-	-	-	-	-	2,024	3,453	4,499	1,574	4,621	16,171	16,171
Minnesota	2,240	4,982	4,160	1,757	1,031	426	545	66	15,207	-	-	-	-	-	-	15,207
Mississippi	143	220	682	776	447	503	338	1,642	4,751	661	1,166	2,805	1,243	1,320	7,195	11,946
Missouri	-	2,768	1,407	2,641	5,645	3,238	1,178	621	17,498	-	-	416	-	-	416	17,914
Montana	-	-	-	-	37	-	-	-	37	665	429	1,134	856	1,739	4,823	4,860
Nebraska	415	627	280	611	607	61	200	326	3,127	249	265	1,266	498	1,242	3,520	6,647
Nevada	42	576	222	341	447	183	229	99	2,139	-	-	-	-	-	-	2,139
New Hampshire	27	275	321	172	174	109	17	91	1,186	-	-	-	-	-	-	1,186
New Jersey	-	22	28	7	-	-	-	-	57	49	170	918	45	326	1,508	1,565
New Mexico	182	263	487	552	370	550	612	775	3,791	-	14	-	-	-	14	3,805
New York	-	46	5	-	-	-	-	-	51	-	738	1,055	2,172	2,093	6,058	6,109
North Carolina	49	1,092	543	332	512	18	246	305	3,097	331	365	1,280	867	2,727	5,570	8,667
North Dakota	107	1,300	920	341	235	-	-	-	2,903	87	722	907	1,510	864	4,090	6,993
Ohio	715	5,302	1,367	632	763	91	15	57	8,942	100	1,118	1,288	337	104	2,947	11,889
Oklahoma	-	1,949	4,333	2,323	1,660	1,160	922	3,532	15,879	-	-	-	-	553	553	16,432
Oregon	-	265	434	431	114	103	66	76	1,489	-	484	2,748	2,158	1,482	6,872	8,361
Pennsylvania	117	1,297	1,298	1,272	1,653	602	507	1,323	8,069	-	-	-	-	-	-	8,069
Rhode Island	-	33	27	6	4	2	5	6	83	16	30	4	7	37	94	177
South Carolina	536	2,832	815	1,579	644	611	182	944	8,143	-	-	-	-	-	-	8,143
South Dakota	-	-	-	-	-	-	-	-	-	1,544	204	4,644	95	644	7,131	7,131
Tennessee	-	-	-	-	-	-	-	-	-	-	-	361	1,386	3,597	5,344	5,344
Texas	513	3,937	6,814	8,824	7,941	3,505	2,272	2,333	36,139	-	-	9	-	10	19	36,158
Utah	51	360	412	512	356	94	73	32	1,890	86	163	619	53	84	1,005	2,895
Vermont	-	335	339	232	374	163	207	300	1,950	-	-	-	-	64	64	2,014
Virginia	-	265	747	909	275	-	15	-	2,211	230	349	3,168	1,786	1,933	7,466	9,677
Washington	136	1,417	1,355	626	606	-	-	49	4,389	403	292	1,624	536	763	3,818	8,207
West Virginia	-	686	1,379	628	910	1,103	275	989	5,970	-	-	26	-	-	26	5,996
Wisconsin	264	2,442	3,864	2,588	1,434	848	295	1,870	13,605	-	-	-	-	-	-	13,605
Wyoming	151	1,335	433	195	-	-	-	-	2,114	-	34	231	6	-	271	2,385
U.S. Total	9,446	50,163	46,098	38,087	34,964	18,133	11,894	20,529	229,314	12,357	19,301	50,505	35,178	41,830	159,171	388,485
Puerto Rico	-	-	-	4	40	27	4	35	110	-	-	204	366	126	696	806
Grand Total	9,446	50,163	46,098	38,091	35,004	18,160	11,898	20,564	229,424	12,357	19,301	50,709	35,544	41,956	159,867	389,291

## FUNCTIONAL SYSTEM LENGTH - 2000 1/ MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

OCTOBER 2001

TABLE HM-63  
SHEET 2 OF 3

STATE	URBAN MINOR ARTERIAL															TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/									PRESENT SERVICEABILITY RATING 3/						
	<60	60-94	95-119	120-144	145-170	171-194	195-220	>220	TOTAL	<=2.0	2.1-2.5	2.6-3.4	3.5-3.9	>3.9	TOTAL	
Alabama	127	219	248	43	5	13	2	-	657	9	73	736	286	217	1,321	1,978
Alaska	-	24	27	61	53	7	18	12	202	-	-	-	-	-	-	292
Arizona	15	16	60	24	3	12	7	6	143	7	31	230	223	659	1,150	1,293
Arkansas	-	33	69	67	99	37	13	42	360	5	351	149	149	65	719	1,079
California	48	244	521	1,369	1,853	1,631	1,818	2,783	10,267	8	18	35	46	3	110	10,377
Colorado	-	55	12	1	9	29	4	22	132	71	112	328	143	594	1,248	1,380
Connecticut	-	3	107	162	273	155	73	37	810	17	19	126	114	391	667	1,477
Delaware	-	18	34	39	18	21	-	21	159	-	-	-	-	1	1	160
Dist. of Columbia	-	-	-	-	-	-	-	-	-	6	6	38	22	101	173	173
Florida	154	534	450	128	139	52	22	79	1,558	9	4	326	448	767	1,554	3,112
Georgia	2,254	254	73	5	1	-	-	14	2,601	-	-	52	134	189	375	2,976
Hawaii	-	-	-	-	1	-	-	3	4	15	13	41	5	37	111	115
Idaho	-	14	10	23	5	1	-	6	59	64	204	152	47	26	493	562
Illinois	223	-	5	8	4	-	17	41	298	118	542	1,183	729	1,005	3,577	3,875
Indiana	-	157	54	30	9	5	24	36	315	332	248	509	637	403	2,129	2,444
Iowa	4	19	1	17	21	10	3	10	85	1	26	595	622	36	1,280	1,385
Kansas	32	1	8	5	-	19	26	1	92	227	315	127	208	92	969	1,061
Kentucky	8	190	358	319	151	60	49	47	1,182	-	-	-	-	-	-	1,182
Louisiana	11	167	146	160	230	194	146	474	1,528	-	8	7	31	-	46	1,574
Maine	1	39	85	68	45	27	6	6	277	-	-	2	1	2	5	282
Maryland 4/	-	31	42	114	98	55	25	69	434	-	-	-	-	-	-	434
Massachusetts	-	5	45	186	303	125	110	269	1,043	103	668	1,117	116	53	2,057	3,100
Michigan	22	70	64	67	123	74	51	46	517	327	195	786	393	1,064	2,765	3,282
Minnesota	102	659	522	238	211	139	91	122	2,084	-	-	-	-	-	-	2,084
Mississippi	-	10	50	64	31	28	9	22	214	32	38	92	132	177	471	685
Missouri	-	9	30	86	82	131	66	94	498	73	250	533	166	259	1,281	1,779
Montana	-	13	9	3	-	-	-	-	25	22	60	70	28	23	203	228
Nebraska	13	3	2	5	3	4	1	6	37	24	29	208	94	153	508	545
Nevada	41	127	84	72	76	29	41	53	523	-	-	-	-	-	-	523
New Hampshire	3	78	70	88	49	47	32	60	427	-	-	4	-	-	4	431
New Jersey	-	41	56	88	122	73	32	177	589	56	177	1,346	266	567	2,412	3,001
New Mexico	18	26	40	47	79	38	28	25	301	-	42	-	-	-	42	343
New York	-	24	4	38	7	15	21	35	144	38	427	1,236	1,621	1,527	4,849	4,993
North Carolina	2	193	122	120	93	30	53	71	684	70	164	380	248	789	1,651	2,335
North Dakota	-	5	10	1	-	-	-	-	16	10	40	117	3	61	231	247
Ohio	125	615	616	420	195	60	78	81	2,190	69	169	609	379	60	1,286	3,476
Oklahoma	-	43	176	203	269	306	193	522	1,712	-	-	-	-	164	164	1,876
Oregon	7	2	21	45	58	20	23	27	203	10	61	247	212	303	833	1,036
Pennsylvania	16	256	556	661	664	384	433	336	3,306	-	-	-	-	-	-	3,306
Rhode Island	-	20	50	17	43	6	8	22	166	5	6	83	27	67	188	354
South Carolina	47	117	245	152	120	122	67	120	990	-	-	-	-	-	-	990
South Dakota	-	-	-	-	-	-	-	-	-	52	8	165	5	42	272	272
Tennessee	8	32	2	-	1	-	-	-	43	25	97	458	549	954	2,083	2,126
Texas	7	339	796	583	513	280	170	182	2,870	559	944	1,587	710	229	4,029	6,899
Utah	6	69	60	88	35	32	22	13	325	3	-	103	33	43	182	507
Vermont	-	36	30	18	29	3	8	21	145	-	-	-	-	4	4	149
Virginia	-	30	215	154	192	50	87	11	846	87	48	315	224	427	1,101	1,947
Washington	8	153	68	47	10	-	1	11	296	104	275	912	273	275	1,839	2,137
West Virginia	4	53	63	94	68	50	32	51	415	-	-	1	1	-	2	417
Wisconsin	106	469	497	498	188	93	78	94	2,023	-	-	-	-	-	-	2,023
Wyoming	-	21	10	3	2	5	2	-	43	4	6	44	35	25	114	157
U.S. Total	3,412	5,536	6,823	6,729	6,583	4,472	3,998	6,287	43,840	2,562	5,674	15,049	9,360	11,854	44,499	88,339
Puerto Rico	-	-	2	10	15	26	19	44	116	5	21	144	146	81	397	513
Grand Total	3,412	5,536	6,825	6,739	6,598	4,498	4,017	6,331	43,956	2,567	5,695	15,193	9,506	11,935	44,896	88,852

## FUNCTIONAL SYSTEM LENGTH - 2000 1/ MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63  
SHEET 3 OF 3

OCTOBER 2001

STATE	URBAN COLLECTOR															TOTAL
	INTERNATIONAL ROUGHNESS INDEX 2/								PRESENT SERVICEABILITY RATING 3/							
	<60	60-94	95-119	120-144	145-170	171-194	195-220	>220	TOTAL	<=2.0	2.1-2.5	2.6-3.4	3.5-3.9	>3.9	TOTAL	
Alabama	-	1	34	-	-	-	-	-	35	30	194	1,023	436	435	2,118	2,153
Alaska	4	16	27	32	29	34	15	61	218	-	-	-	-	-	-	218
Arizona	-	-	1	-	4	-	-	-	5	78	86	332	390	792	1,678	1,683
Arkansas	-	-	-	3	2	2	-	16	23	40	416	181	112	97	846	869
California	39	109	252	757	1,253	1,524	1,432	4,305	9,671	13	39	193	39	9	293	9,964
Colorado	-	7	-	-	-	-	-	-	8	93	202	375	121	513	1,304	1,312
Connecticut	1	6	6	25	63	26	13	9	148	23	26	137	145	722	1,053	1,201
Delaware	-	17	11	40	29	30	32	58	217	-	1	-	-	-	1	218
Dist. of Columbia	-	-	-	-	-	-	-	-	-	2	2	15	42	92	153	153
Florida	11	52	47	34	7	2	6	3	162	74	246	1,811	1,507	2,005	5,643	5,805
Georgia	1,893	16	-	-	-	-	-	3	1,912	-	-	17	12	183	212	2,124
Hawaii	-	-	-	-	1	-	2	4	7	34	66	135	46	52	333	340
Idaho	-	-	-	-	-	2	1	-	3	86	250	133	35	51	555	558
Illinois	152	-	-	-	2	-	-	-	154	314	375	1,264	752	980	3,685	3,839
Indiana	-	-	-	-	-	-	-	-	-	326	392	552	517	374	2,161	2,161
Iowa	2	1	-	-	-	2	-	-	5	8	6	482	365	41	902	907
Kansas	5	-	12	-	-	-	-	-	17	279	416	64	155	54	968	985
Kentucky	-	52	133	278	247	122	121	192	1,145	-	-	-	-	-	-	1,145
Louisiana	-	84	90	141	195	177	108	440	1,235	5	28	32	9	3	77	1,312
Maine	-	49	69	128	76	52	39	36	449	1	1	13	13	8	36	485
Maryland 4/	-	17	21	11	16	24	6	8	103	-	-	-	-	-	-	103
Massachusetts	-	-	-	-	195	-	-	1	196	154	691	1,129	300	60	2,334	2,530
Michigan	-	-	-	-	7	1	2	29	39	420	197	780	183	834	2,414	2,453
Minnesota	13	223	129	226	279	70	145	419	1,504	-	-	-	-	-	-	1,504
Mississippi	-	5	7	3	-	1	-	32	48	106	96	266	196	284	948	996
Missouri	-	-	-	-	4	4	-	2	10	122	362	628	212	224	1,548	1,558
Montana	-	-	-	-	-	-	-	-	-	49	48	122	23	54	296	296
Nebraska	-	-	-	-	-	-	-	-	-	21	67	200	38	81	407	407
Nevada	11	53	41	46	141	209	100	143	744	-	-	-	-	-	-	744
New Hampshire	12	37	38	52	26	27	33	57	282	-	-	-	-	-	-	282
New Jersey	-	26	13	29	12	11	-	-	91	127	231	808	277	622	2,065	2,156
New Mexico	5	7	18	37	45	44	50	76	282	-	170	-	-	-	470	452
New York	-	-	-	-	-	-	-	-	-	37	318	956	1,313	1,380	4,004	4,004
North Carolina	-	46	29	39	20	46	2	30	212	133	114	444	216	549	1,456	1,668
North Dakota	-	1	3	-	3	-	1	-	8	16	28	115	3	37	199	207
Ohio	68	257	296	89	215	-	1	41	967	304	268	1,449	298	153	2,472	3,439
Oklahoma	-	6	23	8	85	71	87	575	855	-	-	-	-	-	113	968
Oregon	-	-	3	1	-	16	14	2	36	69	164	461	250	298	1,242	1,278
Pennsylvania	55	149	342	422	731	471	732	846	3,748	-	-	-	-	-	-	3,748
Rhode Island	-	-	4	4	-	-	-	-	8	51	59	193	121	98	522	530
South Carolina	62	61	158	208	236	238	99	395	1,457	-	-	-	-	-	-	1,457
South Dakota	-	-	-	-	-	-	-	-	-	26	-	130	-	37	193	193
Tennessee	-	-	8	-	-	-	-	-	8	10	107	480	409	648	1,654	1,662
Texas	-	98	155	295	161	202	136	296	1,343	727	1,737	3,563	1,137	416	7,580	8,923
Utah	-	3	1	4	12	-	12	14	46	-	5	304	105	84	498	544
Vermont	2	10	-	31	16	29	13	99	200	-	-	-	1	-	1	201
Virginia	-	30	26	38	2	2	3	15	116	118	113	795	308	374	1,708	1,824
Washington	-	-	29	1	4	2	-	-	36	149	459	823	281	289	2,001	2,037
West Virginia	3	5	25	57	50	29	56	215	440	1	1	2	-	1	5	445
Wisconsin	15	252	352	354	149	141	100	150	1,513	-	-	-	-	-	-	1,513
Wyoming	-	9	7	-	-	-	-	-	16	39	46	204	108	59	456	472
U.S. Total	2,353	1,705	2,410	3,393	4,317	3,611	3,361	8,572	29,722	4,085	8,027	20,611	10,475	13,106	56,304	86,026
Puerto Rico	-	-	-	7	2	7	-	7	23	16	19	221	173	144	573	596
Grand Total	2,353	1,705	2,410	3,400	4,319	3,618	3,361	8,579	29,745	4,101	8,046	20,832	10,648	13,250	56,877	86,622

1/ Some States elect to report 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 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.

3/ The "Present Serviceability Rating" (PSR) is a subjective, primarily ride-based rating system adapted from the "AASHO ROAD TESTS" conducted in the late 1950's and early 1960's. Reference: Highway Research Board Special Report 61E, 1962. The PSR values range from 0.1 to 5.0; higher PSR values represent smoother riding roadways.

4/ Maryland did not report IRI or PSR data for 482 miles of rural major collectors, 765 miles of urban minor arterials, and 1,219 miles of urban collectors.