

FUNCTIONAL SYSTEM LENGTH - 2001 1/

MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63

SHEET 1 OF 3

JUNE 2004

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	41	520	214	78	3	856	1,150	2,066	5,450	1,797	498	10,961	11,817
Alaska	-	43	346	343	114	846	-	-	-	-	-	-	846
Arizona	224	853	1,535	88	-	2,700	1,023	248	149	82	87	1,589	4,289
Arkansas	-	216	3,952	3,296	1,448	8,912	336	212	1,042	703	538	2,831	11,743
California	93	2,902	5,866	2,042	1,849	12,752	-	-	12	-	-	12	12,764
Colorado	-	1,179	1,620	358	-	3,157	457	494	772	266	217	2,206	5,363
Connecticut	-	46	718	147	253	1,164	51	-	-	-	-	51	1,215
Delaware	-	217	228	70	37	552	-	-	-	1	-	1	553
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	269	563	189	-	-	1,021	780	1,143	1,148	251	-	3,322	4,343
Georgia	924	105	9	-	-	1,038	5,481	4,337	2,532	-	-	12,350	13,388
Hawaii	-	1	88	61	43	193	26	13	57	71	5	172	365
Idaho	174	475	504	139	138	1,430	7	5	565	1,451	439	2,467	3,897
Illinois	168	-	-	-	-	168	3,831	1,486	6,160	1,176	920	13,573	13,741
Indiana	1,132	3,092	2,903	627	102	7,856	486	315	1,180	499	403	2,883	10,739
Iowa	86	277	373	101	137	974	1,052	5,757	4,979	316	-	12,104	13,078
Kansas	131	931	1,144	4	14	2,224	801	1,475	329	3,498	2,692	8,795	11,019
Kentucky	-	1,351	5,330	280	5	6,966	-	-	-	-	-	-	6,966
Louisiana	280	1,982	3,865	621	296	7,044	-	-	-	-	4	4	7,048
Maine	-	412	2,697	142	6	3,257	-	-	-	-	-	-	3,257
Maryland	1	556	719	86	1	1,363	-	-	-	-	-	-	1,363
Massachusetts	-	18	264	151	3	436	122	50	806	291	95	1,364	1,800
Michigan	-	-	-	-	-	-	5,922	1,782	4,211	2,882	1,512	16,309	16,309
Minnesota	2,626	5,331	6,495	689	53	15,194	-	-	-	-	-	-	15,194
Mississippi	143	219	1,883	835	1,642	4,722	1,312	1,299	2,800	1,156	658	7,225	11,947
Missouri	-	4,569	5,603	7,268	465	17,905	-	-	9	-	-	9	17,914
Montana	61	2,142	1,887	153	73	4,316	166	55	121	30	187	559	4,875
Nebraska	471	959	1,236	286	180	3,132	1,270	491	1,238	258	248	3,505	6,637
Nevada	148	484	341	3	42	1,018	-	-	1,159	-	-	1,159	2,177
New Hampshire	3	307	781	98	3	1,192	-	-	-	-	-	-	1,192
New Jersey	-	21	40	-	-	61	294	44	936	166	45	1,485	1,546
New Mexico	136	768	2,153	469	278	3,804	-	-	-	-	-	-	3,804
New York	125	3,128	1,809	292	12	5,366	414	280	51	24	-	769	6,135
North Carolina	-	1,805	1,325	328	339	3,797	2,674	688	1,077	195	254	4,888	8,685
North Dakota	107	1,368	1,425	-	-	2,900	1,030	1,431	852	670	87	4,070	6,970
Ohio	1,313	4,744	2,669	187	9	8,922	174	342	1,289	1,131	31	2,967	11,889
Oklahoma	6	1,023	3,909	1,312	3,537	9,787	1,118	929	3,683	689	234	6,653	16,440
Oregon	-	281	1,042	180	61	1,564	1,545	2,175	2,575	443	-	6,738	8,302
Pennsylvania	84	1,348	4,486	1,187	966	8,071	-	-	-	-	-	-	8,071
Rhode Island	-	9	86	9	6	110	31	6	2	18	9	66	176
South Carolina	46	3,173	3,464	780	669	8,132	-	-	-	-	-	-	8,132
South Dakota	-	1,465	-	-	-	1,465	918	463	2,802	-	1,632	5,815	7,280
Tennessee	79	118	290	-	-	487	2,957	1,320	568	-	-	4,845	5,332
Texas	479	3,928	24,066	5,436	2,242	36,151	-	-	6	-	-	6	36,157
Utah	46	285	1,173	164	179	1,847	83	72	622	174	91	1,042	2,889
Vermont	-	526	904	313	268	2,011	-	-	-	-	-	-	2,011
Virginia	-	264	1,903	16	-	2,183	1,987	1,742	3,241	353	234	7,557	9,740
Washington	43	1,293	2,757	271	49	4,413	947	494	1,660	201	494	3,796	8,209
West Virginia	-	697	2,911	1,379	986	5,973	-	-	31	-	-	31	6,004
Wisconsin	512	2,482	8,243	650	1,709	13,596	-	-	-	-	-	-	13,596
Wyoming	216	1,309	620	-	-	2,145	-	51	142	34	-	227	2,372
U.S. Total	10,167	59,785	116,065	30,939	18,217	235,173	38,445	31,265	54,256	18,826	11,614	154,406	389,579
Puerto Rico	-	-	51	23	35	109	125	346	226	-	-	697	806
GRAND TOTAL	10,167	59,785	116,116	30,962	18,252	235,282	38,570	31,611	54,482	18,826	11,614	155,103	390,385

FUNCTIONAL SYSTEM LENGTH - 2001 1/

MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63
SHEET 2 OF 3

JUNE 2004

STATE	URBAN MINOR ARTERIAL												
	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	54	352	414	15	-	835	125	296	666	71	6	1,164	1,999
Alaska	1	17	131	46	9	204	-	-	-	-	-	204	204
Arizona	23	30	62	19	11	145	619	221	245	32	6	1,123	1,268
Arkansas	-	31	220	59	39	349	67	150	135	369	3	724	1,073
California	19	233	3,493	3,627	2,691	10,063	1	17	77	3	4	102	10,165
Colorado	23	-	81	23	20	147	613	145	346	97	55	1,256	1,403
Connecticut	-	20	533	165	99	817	413	109	102	19	17	660	1,477
Delaware	-	16	88	34	21	159	1	-	-	-	-	1	160
District of Columbia	-	-	-	-	-	-	137	19	2	14	1	173	173
Florida	245	653	679	74	108	1,759	609	410	224	13	-	1,256	3,015
Georgia	2,144	509	162	6	11	2,832	201	118	50	-	-	369	3,201
Hawaii	-	1	16	7	6	30	20	4	52	3	5	84	114
Idaho	2	13	37	7	6	65	27	43	137	215	73	495	560
Illinois	297	-	12	17	43	369	1,023	625	1,178	489	244	3,559	3,928
Indiana	9	153	113	15	2	292	411	644	544	223	324	2,146	2,438
Iowa	3	18	36	15	8	80	50	610	631	-	-	1,291	1,371
Kansas	8	-	28	77	54	167	81	210	105	265	239	900	1,067
Kentucky	8	157	888	85	49	1,187	-	-	-	-	-	-	1,187
Louisiana	50	178	516	358	430	1,532	-	27	5	8	-	40	1,572
Maine	1	44	203	30	3	281	-	-	-	-	-	-	281
Maryland	-	43	270	72	49	434	-	-	-	1	-	1	435
Massachusetts	-	3	527	248	224	1,002	54	136	1,162	666	79	2,097	3,099
Michigan	22	69	242	106	41	480	925	353	704	175	354	2,511	2,991
Minnesota	66	577	1,162	200	147	2,152	-	-	-	-	-	-	2,152
Mississippi	1	10	147	29	22	209	168	135	99	40	35	477	686
Missouri	-	4	107	224	193	528	258	181	488	249	76	1,252	1,780
Montana	-	12	38	6	4	60	16	27	44	50	27	164	224
Nebraska	13	3	10	3	9	38	149	91	207	38	27	512	550
Nevada	73	159	165	85	30	512	3	-	9	-	-	12	524
New Hampshire	2	74	222	56	62	416	-	-	7	8	2	17	433
New Jersey	-	55	268	101	188	612	675	250	1,186	167	121	2,399	3,011
New Mexico	23	18	159	63	40	303	-	-	-	42	-	42	345
New York	34	680	1,478	783	442	3,417	337	492	719	72	-	1,620	5,037
North Carolina	-	241	374	76	79	770	761	212	373	154	69	1,569	2,339
North Dakota	-	5	10	-	-	15	63	5	112	41	10	231	246
Ohio	110	676	1,228	137	81	2,232	60	415	640	161	75	1,351	3,583
Oklahoma	18	110	683	383	501	1,695	139	36	11	-	-	186	1,881
Oregon	6	3	127	39	38	213	285	211	243	45	12	796	1,009
Pennsylvania	8	272	1,987	701	338	3,306	-	-	-	-	-	-	3,306
Rhode Island	-	15	121	29	13	178	59	28	78	8	4	177	355
South Carolina	-	126	548	175	141	990	-	-	-	-	-	-	990
South Dakota	-	-	-	-	-	-	47	9	155	4	56	271	271
Tennessee	17	31	6	-	-	54	813	520	633	99	11	2,076	2,130
Texas	-	378	1,798	429	135	2,740	309	785	1,714	796	482	4,086	6,826
Utah	16	60	116	52	14	258	34	46	159	10	5	254	512
Vermont	-	36	37	8	6	87	10	14	14	5	22	65	152
Virginia	-	32	508	144	136	820	388	226	455	38	61	1,168	1,988
Washington	28	52	242	9	6	337	424	270	774	253	81	1,802	2,139
West Virginia	7	51	220	84	53	415	-	1	2	-	-	3	418
Wisconsin	108	472	1,174	185	87	2,026	-	-	-	-	-	-	2,026
Wyoming	-	23	15	7	-	45	23	34	45	5	4	111	156
U.S. Total	3,439	6,715	21,701	9,113	6,689	47,657	10,398	8,125	14,532	4,948	2,590	40,593	88,250
Puerto Rico	-	-	34	38	38	110	72	163	143	21	4	403	513
TOTAL	3,439	6,715	21,735	9,151	6,727	47,767	10,470	8,288	14,675	4,969	2,594	40,996	88,763

FUNCTIONAL SYSTEM LENGTH - 2001 1/

MILES BY MEASURED PAVEMENT ROUGHNESS / PRESENT SERVICEABILITY RATING

TABLE HM-63

SHEET 3 OF 3

JUNE 2004

STATE	URBAN 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	-	2	33	-	-	35	273	465	1,040	261	58	2,097	2,132
Alaska	-	15	102	35	67	219	-	-	-	-	-	-	219
Arizona	1	2	5	-	-	8	809	381	324	82	73	1,669	1,677
Arkansas	-	-	5	2	11	18	91	106	179	437	31	844	862
California	36	99	2,675	2,967	4,453	10,230	15	26	82	20	7	150	10,380
Colorado	1	7	1	-	-	9	552	121	341	206	84	1,304	1,313
Connecticut	-	5	43	75	20	143	763	129	146	12	8	1,058	1,201
Delaware	-	20	83	55	58	216	1	3	-	-	-	4	220
District of Columbia	-	-	-	-	-	-	140	7	4	1	-	152	152
Florida	24	40	132	19	7	222	1,939	1,535	1,465	316	80	5,335	5,557
Georgia	1,909	29	-	-	3	1,941	188	19	10	-	-	217	2,158
Hawaii	-	-	4	7	4	15	49	38	140	61	31	319	334
Idaho	-	-	-	3	-	3	51	29	125	267	88	560	563
Illinois	113	-	2	-	-	115	1,020	503	1,377	530	406	3,836	3,951
Indiana	-	-	-	-	-	-	382	529	550	389	313	2,163	2,163
Iowa	2	-	1	2	-	5	43	383	487	7	-	920	925
Kansas	-	-	69	29	101	199	46	140	19	319	229	753	952
Kentucky	1	20	699	261	163	1,144	-	-	-	-	-	-	1,144
Louisiana	-	81	446	274	386	1,187	-	10	107	24	-	141	1,328
Maine	-	48	312	102	19	481	-	-	-	-	-	-	481
Maryland	-	2	62	30	1	95	4	-	-	-	8	12	107
Massachusetts	-	-	216	-	1	217	61	337	1,084	730	105	2,317	2,534
Michigan	-	-	2	4	29	35	796	181	800	180	433	2,390	2,425
Minnesota	-	188	524	302	549	1,563	-	-	-	-	-	-	1,563
Mississippi	-	12	10	7	32	61	271	186	275	100	102	934	995
Missouri	-	4	1	-	8	13	224	213	627	361	120	1,545	1,558
Montana	-	2	-	2	6	10	52	20	124	50	42	288	298
Nebraska	-	-	-	-	-	-	93	34	191	71	20	409	409
Nevada	17	32	192	134	82	457	10	-	275	-	6	291	748
New Hampshire	11	42	122	51	50	276	-	-	3	4	3	10	286
New Jersey	-	24	58	10	-	92	629	168	927	249	92	2,065	2,157
New Mexico	-	12	144	63	68	287	-	-	-	151	-	151	438
New York	-	79	229	9	51	368	1,323	1,089	871	311	37	3,631	3,999
North Carolina	-	71	102	50	25	248	554	204	418	110	137	1,423	1,671
North Dakota	-	1	5	1	-	7	41	3	112	30	15	201	208
Ohio	92	196	617	13	33	951	146	305	1,538	273	268	2,530	3,481
Oklahoma	9	45	319	134	445	952	10	-	-	-	-	10	962
Oregon	-	-	6	30	1	37	313	219	439	160	76	1,207	1,244
Pennsylvania	51	138	1,603	1,088	874	3,754	-	-	-	-	-	-	3,754
Rhode Island	-	3	3	-	-	6	113	120	177	64	49	523	529
South Carolina	-	59	645	344	411	1,459	-	-	-	-	-	-	1,459
South Dakota	-	-	-	-	-	-	37	-	138	-	24	199	199
Tennessee	-	-	6	-	-	6	740	357	465	93	6	1,661	1,667
Texas	-	139	655	208	233	1,235	476	1,154	3,345	1,887	701	7,563	8,798
Utah	-	1	11	32	-	44	104	89	297	7	-	497	541
Vermont	-	-	1	-	-	1	15	61	30	31	71	208	209
Virginia	-	12	64	2	20	98	386	311	886	64	95	1,742	1,840
Washington	-	25	8	2	-	35	513	289	693	373	133	2,001	2,036
West Virginia	3	5	132	83	216	439	1	-	2	1	1	5	444
Wisconsin	16	264	857	234	147	1,518	-	-	-	-	-	-	1,518
Wyoming	-	8	6	-	-	14	57	101	220	44	40	462	476
U.S. Total	2,286	1,732	11,212	6,664	8,574	30,468	13,331	9,865	20,333	8,276	3,992	55,797	86,265
Puerto Rico	-	-	13	8	3	24	156	164	220	21	11	572	596
GRAND TOTAL	2,286	1,732	11,225	6,672	8,577	30,492	13,487	10,029	20,553	8,297	4,003	56,369	86,861

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2001 1/

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 Research Board Special Report 61E, 1962. The PSR values range from 0.1 to 5.0; higher PSR values represent smoother riding roadways.