

FUNCTIONAL SYSTEM LENGTH - 2023

MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

TABLE HM-64
SHEET 1 OF 4

November 19, 2024

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	INTERSTATE									TOTAL REPORTED
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	
Alabama	0	466	56	20	12	7	4	3	3	570
Alaska	-	189	356	167	104	77	47	27	35	1,001
Arizona	2	528	204	66	41	27	15	12	21	913
Arkansas	-	255	124	31	17	8	5	2	3	445
California	1	281	404	148	99	56	31	20	27	1,065
Colorado	-	68	324	121	55	34	19	14	14	648
Connecticut	-	22	6	1	0	-	-	-	0	30
Delaware	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	4	586	101	15	6	3	1	0	0	713
Georgia	-	338	147	31	11	6	2	1	1	538
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	1	310	156	28	15	6	3	1	2	521
Illinois	-	809	280	73	32	19	8	4	4	1,228
Indiana	0	460	185	50	27	14	7	4	5	752
Iowa	-	271	231	60	27	11	5	2	3	611
Kansas	0	425	142	43	19	6	2	1	1	639
Kentucky	2	519	124	30	19	9	4	2	2	710
Louisiana	4	173	135	91	61	40	16	6	3	524
Maine	-	231	41	5	2	1	0	0	0	279
Maryland	-	67	55	11	5	2	0	1	1	142
Massachusetts	-	44	13	2	1	1	1	0	1	63
Michigan	20	282	186	29	20	14	7	3	3	542
Minnesota	-	289	223	39	13	6	2	1	0	574
Mississippi	-	354	151	34	18	11	6	2	2	578
Missouri	-	640	135	32	15	10	5	2	3	841
Montana	-	559	412	74	32	12	4	1	11	1,105
Nebraska	-	218	157	23	9	5	2	0	0	415
Nevada	-	409	29	8	5	2	1	1	1	457
New Hampshire	-	104	16	6	2	0	0	0	-	129
New Jersey	-	20	18	4	1	1	0	0	0	45
New Mexico	0	496	194	66	40	24	11	7	6	844
New York	8	372	282	69	36	21	8	5	4	798
North Carolina	4	571	178	27	13	6	4	2	3	803
North Dakota	-	320	152	22	11	2	1	1	1	510
Ohio	1	420	153	39	16	8	3	2	1	642
Oklahoma	7	296	264	44	17	10	5	3	2	642
Oregon	0	302	146	27	11	5	2	1	0	495
Pennsylvania	-	583	324	73	38	20	11	7	11	1,066
Rhode Island	-	15	2	0	0	0	-	-	0	18
South Carolina	463	-	-	-	-	-	-	-	-	-
South Dakota	-	327	232	20	7	4	1	1	0	591
Tennessee	0	529	75	19	13	5	2	1	1	644
Texas	1	827	826	193	68	31	11	6	3	1,965
Utah	-	389	215	53	18	6	2	0	1	685
Vermont	0	181	55	10	6	2	1	1	1	255
Virginia	-	270	190	31	9	4	2	1	0	507
Washington	-	209	108	36	25	11	7	6	4	407
West Virginia	-	134	136	23	13	7	3	2	1	320
Wisconsin	2	300	119	54	20	10	4	1	1	510
Wyoming	-	526	168	57	32	13	6	4	2	807
U.S. Total	521	15,983	8,230	2,107	1,061	576	282	162	187	28,588
Puerto Rico	4	3	15	9	4	3	2	3	11	50
Grand Total	525	15,986	8,245	2,116	1,065	580	284	164	198	28,638

FUNCTIONAL SYSTEM LENGTH - 2023 MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL

November 19, 2024

TABLE HM-64

SHEET 2 OF 4

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)																													
	OTHER FREEWAYS & EXPRESSWAYS										OTHER PRINCIPAL ARTERIAL										MINOR ARTERIAL (3)									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	-	-	-	-	-	-	-	-	-	-	15	1,094	671	146	62	26	10	7	5	2,022	416	761	2,003	582	155	45	30	4	11	3,590
Alaska	-	-	-	-	-	-	-	-	-	-	278	114	166	50	41	38	27	24	60	521	105	28	77	55	59	47	25	14	20	326
Arizona	0	9	6	2	1	-	0	-	0	19	13	320	425	204	128	81	39	25	25	1,246	0	232	745	462	319	207	93	68	61	2,187
Arkansas	-	9	41	18	2	1	1	0	0	72	0	558	764	269	150	74	32	17	17	1,881	29	352	1,424	553	386	188	46	37	46	3,032
California	0	119	172	60	30	11	7	3	5	407	106	706	1,380	548	290	168	75	43	64	3,275	1,103	638	1,631	958	658	443	254	204	342	5,129
Colorado	-	7	10	3	5	2	1	0	0	28	-	560	1,118	424	217	116	59	37	36	2,569	321	151	920	645	516	367	199	143	209	3,150
Connecticut	-	21	12	1	0	0	-	-	-	34	-	9	48	33	17	7	4	3	2	122	-	9	75	43	31	31	13	8	4	214
Delaware	0	13	13	2	1	0	0	0	0	29	2	31	50	13	3	1	0	0	0	98	0	21	46	13	7	1	1	0	0	89
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	149	34	3	2	1	0	-	-	187	2	1,280	946	238	90	42	16	6	8	2,626	0	711	964	333	116	43	9	12	5	2,192
Georgia	-	-	-	-	-	-	-	-	-	-	-	1,010	978	271	108	42	12	5	5	2,431	0	953	2,206	853	400	172	45	18	21	4,666
Hawaii	-	-	-	-	-	-	-	-	-	-	1	6	28	18	9	7	4	2	3	77	0	45	74	35	28	25	18	11	20	257
Idaho	0	30	21	4	2	0	-	0	-	58	24	629	683	192	89	42	19	11	11	1,677	150	305	618	163	101	61	35	14	23	1,320
Illinois	-	21	10	9	6	3	1	0	1	52	0	699	774	365	237	140	76	46	60	2,397	-	1,993	1,259	642	411	252	104	76	49	4,787
Indiana	0	72	40	19	10	5	1	1	0	148	37	1,017	592	161	76	37	13	7	4	1,907	402	626	744	232	67	28	11	7	5	1,721
Iowa	-	-	-	-	-	-	-	-	-	-	27	868	1,105	608	369	218	108	69	64	3,409	-	3,902	-	-	-	-	-	-	-	-
Kansas	0	207	153	27	9	3	1	1	0	401	1	1,422	915	159	66	37	15	7	10	2,631	25	1,581	1,673	504	232	115	77	20	33	4,236
Kentucky	0	278	95	13	7	3	2	1	0	398	11	554	445	138	50	24	12	4	7	1,234	36	329	845	605	286	109	59	24	35	2,292
Louisiana	-	3	8	6	6	3	2	1	6	34	1	112	362	209	131	87	48	30	29	1,009	10	159	553	393	315	211	127	70	69	1,897
Maine	-	1	1	-	0	-	-	-	0	3	0	372	270	63	31	20	13	8	16	792	0	236	339	132	76	57	34	25	42	941
Maryland	0	35	29	3	1	1	0	0	1	69	1	149	124	26	9	6	2	2	3	321	-	233	356	85	23	9	5	0	2	713
Massachusetts	0	8	2	0	0	-	0	0	0	10	-	39	44	12	6	3	1	1	1	105	-	65	114	47	38	24	6	4	4	300
Michigan	8	217	93	13	3	3	3	2	4	338	21	1,121	676	174	72	32	14	8	12	2,110	116	1,323	2,027	717	359	151	66	51	75	4,770
Minnesota	-	18	15	3	1	1	0	0	-	40	8	1,201	1,217	477	220	115	54	31	24	3,338	-	3,100	2,020	802	245	143	84	48	121	6,563
Mississippi	-	-	-	-	-	-	-	-	-	-	0	510	687	251	147	96	48	26	27	1,792	0	564	1,355	636	435	315	197	130	120	3,752
Missouri	-	627	361	68	27	9	4	1	1	1,100	1	669	760	249	104	45	20	11	9	1,867	1	193	1,226	1,188	769	355	143	66	56	3,996
Montana	-	-	-	-	-	-	-	-	-	-	-	737	1,239	444	194	86	40	20	26	2,786	-	542	1,323	511	253	125	67	29	21	2,871
Nebraska	0	71	141	70	37	18	8	3	2	348	1	685	783	315	204	121	59	43	50	2,260	76	1,735	1,254	535	262	174	63	52	68	4,143
Nevada	-	-	-	-	-	-	-	-	-	-	0	937	407	104	43	17	7	2	3	1,520	-	118	338	181	55	18	6	4	2	723
New Hampshire	-	18	1	-	-	-	-	-	-	20	0	169	95	25	10	4	3	3	2	309	-	185	212	90	32	29	24	23	21	615
New Jersey	-	25	9	1	0	0	-	-	-	35	-	62	63	15	7	5	2	1	2	157	-	71	119	52	28	20	6	4	7	307
New Mexico	-	-	-	-	-	-	-	-	-	-	1	570	697	286	161	94	48	28	31	1,915	5	300	533	315	258	206	139	127	382	2,261
New York	0	30	80	33	18	12	6	3	2	183	35	329	1,080	335	159	85	37	22	20	2,068	5	295	1,412	541	303	127	42	48	54	2,822
North Carolina	16	261	178	34	12	8	5	3	2	503	10	465	906	339	137	52	19	10	13	1,942	12	195	1,437	925	506	241	149	81	99	3,632
North Dakota	-	-	-	-	-	-	-	-	-	-	-	1,351	1,106	274	112	45	19	13	26	2,946	-	738	1,177	350	146	64	20	15	17	2,526
Ohio	0	160	94	42	22	11	4	2	1	335	1	543	644	195	82	38	16	9	6	1,533	0	742	1,409	315	107	35	17	16	13	2,653
Oklahoma	0	5	7	2	1	0	0	-	-	15	20	544	857	369	206	109	51	34	49	2,219	27	356	1,097	497	281	181	106	55	71	2,645
Oregon	-	-	-	-	-	-	-	-	-	-	1	724	1,293	362	143	64	28	19	24	2,657	75	217	983	472	248	120	43	25	36	2,145
Pennsylvania	1	125	153	42	22	10	6	3	7	370	4	348	798	284	141	61	33	20	29	1,715	-	390	1,425	1,037	722	305	163	151	200	4,393
Rhode Island	0	6	3	1	0	0	-	-	-	10	0	10	16	12	18	16	11	7	6	96	1	9	17	11	8	8	7	5	6	71
South Carolina	1	12	10	1	1	0	1	0	-	26	4	290	679	226	115	54	22	13	10	1,408	1	203	1,123	671	365	246	119	64	48	2,840
South Dakota	-	143	103	33	8	3	1	0	0	291	-	899	1,073	339	153	65	28	17	17	2,591	1	903	1,005	478	279	145	79	42	29	2,960
Tennessee	-	9	12	3	1	-	0	0	-	26	204	676	628	168	93	56	28	15	16	1,680	2,835	-	-	-	-	2	-	0	1	4
Texas	36	25	56	22	6	3	1	1	0	113	51	2,987	3,437	1,339	626	265	104	53	39	8,851	15	1,862	3,610	1,930	1,223	743	231	118	133	9,850
Utah	-	1	5	2	1	1	0	-	-	9	0	289	516	214	105	45	12	5	5	1,191	45	192	390	267	179	112	53	29	27	1,248
Vermont	-	-	0	0	0	0	-	-	-	1	1	113	140	35	16	10	5	3	7	329	-	-	-	-	-	-	-	-	-	-
Virginia	0	20	31	7	2	1	0	0	0	61	8	240	801	309	133	55	22	9	7	1,576	182	122	1,389	1,003	515	198	64	30	13	3,334
Washington	-	168	224	120	49	16	10	10	12	610	9	237																		

FUNCTIONAL SYSTEM LENGTH - 2023 **MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

TABLE HM-64
SHEET 3 OF 4

November 19, 2024

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	INTERSTATE									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	1	309	58	23	17	9	5	4	7	432
Alaska	-	30	32	10	4	2	1	-	0	79
Arizona	6	139	63	18	10	7	3	2	2	243
Arkansas	-	145	91	36	21	13	7	4	6	323
California	0	235	395	216	167	107	58	34	35	1,247
Colorado	-	53	108	56	40	24	10	7	6	304
Connecticut	-	149	116	28	13	5	3	1	1	317
Delaware	0	13	13	6	3	2	1	1	1	40
District of Columbia	8	-	1	1	0	1	0	0	0	4
Florida	6	496	185	42	24	16	6	2	1	772
Georgia	-	421	173	59	28	16	6	3	2	709
Hawaii	-	5	14	11	8	8	5	3	1	55
Idaho	0	46	35	6	2	2	1	1	-	92
Illinois	-	417	327	84	48	37	19	10	15	958
Indiana	2	257	128	45	29	18	8	4	3	492
Iowa	2	46	68	30	15	8	4	2	2	175
Kansas	3	133	52	23	13	7	3	2	1	234
Kentucky	0	117	59	24	13	9	6	2	3	232
Louisiana	3	128	84	52	48	46	28	13	16	414
Maine	-	59	21	5	1	1	1	-	0	87
Maryland	0	125	131	31	15	10	7	5	12	336
Massachusetts	1	366	75	23	15	12	5	3	5	504
Michigan	31	237	237	65	40	28	15	9	15	645
Minnesota	2	125	138	40	18	11	3	1	2	338
Mississippi	-	142	56	20	12	12	5	4	3	254
Missouri	-	302	140	41	26	18	8	5	4	544
Montana	-	54	23	4	3	1	0	0	1	87
Nebraska	-	18	33	12	4	2	1	0	0	69
Nevada	-	90	32	15	13	7	2	2	1	162
New Hampshire	-	83	11	1	0	0	0	-	-	96
New Jersey	-	177	127	31	16	12	9	6	9	387
New Mexico	-	83	41	11	8	5	2	3	2	155
New York	15	218	362	121	80	51	28	20	33	912
North Carolina	13	326	186	49	22	12	7	5	4	611
North Dakota	-	23	29	6	3	1	0	0	-	61
Ohio	1	483	272	82	46	25	14	8	6	937
Oklahoma	1	77	113	43	20	13	7	4	5	282
Oregon	-	107	87	18	10	6	4	1	1	234
Pennsylvania	-	345	254	81	44	29	17	11	17	797
Rhode Island	0	42	5	2	1	1	0	0	0	52
South Carolina	388	-	-	-	-	-	-	-	-	-
South Dakota	-	21	46	12	5	2	1	0	-	88
Tennessee	0	398	96	31	14	8	4	2	3	557
Texas	6	369	587	240	156	86	40	17	11	1,505
Utah	0	77	102	40	17	11	4	2	1	253
Vermont	0	38	18	5	3	1	0	0	0	64
Virginia	-	214	253	75	33	18	8	5	3	610
Washington	0	138	125	47	22	12	5	4	4	356
West Virginia	-	91	90	23	15	9	4	3	2	236
Wisconsin	4	97	122	59	44	23	10	5	3	362
Wyoming	-	46	30	10	7	5	4	2	2	106
U.S. Total	495	8,108	5,844	2,015	1,216	767	387	221	253	18,811
Puerto Rico	6	5	48	46	35	28	18	15	30	225
Grand Total	501	8,113	5,891	2,061	1,251	795	405	237	283	19,035

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2023 **MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

November 19, 2024

TABLE HM-64
SHEET 4 OF 4

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)																			
	OTHER FREEWAYS AND EXPRESSWAYS										OTHER PRINCIPAL ARTERIAL									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	2	13	16	5	4	3	1	0	0	42	15	454	486	149	78	42	23	15	22	1,270
Alaska	-	-	-	-	-	-	-	-	-	-	0	24	43	25	17	10	6	5	9	139
Arizona	5	114	79	27	16	6	3	1	2	248	178	49	140	128	119	87	61	40	55	680
Arkansas	-	19	43	17	8	4	2	2	2	97	16	103	215	92	60	43	27	18	64	623
California	5	253	482	269	199	126	61	37	47	1,474	343	132	482	581	758	860	741	696	2,033	6,283
Colorado	-	54	127	59	37	22	12	7	8	325	-	59	239	195	175	123	78	60	138	1,068
Connecticut	0	85	106	29	13	7	3	1	2	246	1	21	198	157	121	76	47	33	58	710
Delaware	0	6	21	6	3	1	1	0	0	39	3	35	89	31	19	12	7	5	10	209
District of Columbia	1	1	1	1	2	2	2	1	4	15	2	-	0	1	3	6	8	10	75	104
Florida	2	311	197	50	24	12	6	4	3	607	7	961	1,602	626	329	183	97	60	98	3,956
Georgia	-	85	44	20	14	9	3	1	1	176	-	642	980	346	176	92	51	25	41	2,355
Hawaii	0	2	9	5	4	4	3	2	4	34	2	28	63	39	32	32	22	14	37	266
Idaho	0	12	9	2	1	1	1	0	0	26	82	60	116	49	31	24	14	12	40	346
Illinois	-	36	27	15	12	9	6	4	5	114	2	300	662	495	407	300	199	149	330	2,841
Indiana	16	49	41	19	13	7	3	1	1	134	628	356	388	138	82	61	32	20	22	1,099
Iowa	-	-	-	-	-	-	-	-	-	-	19	97	207	187	141	90	57	44	83	906
Kansas	4	75	67	23	14	8	3	2	1	192	22	61	80	34	29	23	17	11	21	276
Kentucky	2	26	12	11	6	3	1	1	1	62	36	150	218	105	55	30	18	12	22	610
Louisiana	2	6	12	9	15	21	19	11	22	115	90	95	194	137	114	99	72	63	159	932
Maine	-	7	6	1	1	0	0	0	0	16	1	30	32	14	13	12	8	6	15	129
Maryland	0	103	132	31	14	10	7	4	9	310	7	151	268	127	98	77	59	54	175	1,010
Massachusetts	2	204	71	17	11	7	5	4	4	323	37	87	317	287	275	251	182	153	382	1,933
Michigan	15	113	133	43	21	10	5	4	8	337	493	170	417	344	273	202	135	110	220	1,871
Minnesota	-	57	89	45	18	9	3	1	1	223	3	196	244	107	64	33	18	10	12	683
Mississippi	-	19	21	8	6	5	2	1	1	64	3	131	261	162	116	85	50	39	101	946
Missouri	0	197	178	61	34	22	12	7	8	518	5	130	266	148	101	78	51	40	74	888
Montana	-	-	-	-	-	-	-	-	-	-	0	36	68	36	29	22	16	13	23	243
Nebraska	0	12	49	24	13	11	7	5	6	128	11	11	46	38	40	33	29	28	89	314
Nevada	-	28	12	6	5	2	1	0	1	55	0	113	99	56	36	30	14	12	18	377
New Hampshire	-	48	11	2	1	0	0	-	0	62	0	73	88	30	22	12	6	5	8	244
New Jersey	-	227	127	35	23	16	10	6	8	453	0	201	441	234	209	184	136	112	278	1,795
New Mexico	-	1	1	3	2	3	1	0	0	12	6	79	163	105	94	74	51	38	93	698
New York	27	64	234	131	93	73	55	53	80	782	100	92	675	476	373	291	203	194	755	3,058
North Carolina	26	99	116	36	16	9	5	3	3	287	7	101	451	397	291	191	95	63	91	1,680
North Dakota	-	-	-	-	-	-	-	-	-	-	6	31	56	34	27	18	12	10	18	207
Ohio	4	192	230	71	44	23	11	7	7	585	27	213	630	405	325	244	166	132	308	2,424
Oklahoma	7	39	90	29	20	10	6	4	3	201	410	61	213	143	98	76	47	40	85	763
Oregon	0	28	24	8	4	1	1	1	0	68	14	106	236	148	111	79	52	37	73	843
Pennsylvania	3	125	196	97	59	33	19	11	20	561	11	192	655	501	447	357	236	172	389	2,950
Rhode Island	2	31	26	8	7	4	2	0	2	79	6	14	32	33	47	46	38	34	91	336
South Carolina	2	44	32	12	6	4	1	1	1	100	13	148	431	232	162	101	53	31	33	1,191
South Dakota	3	1	9	5	2	1	1	0	0	19	-	12	31	24	19	17	11	9	10	134
Tennessee	0	86	45	17	13	9	4	2	3	179	133	478	613	247	164	104	63	46	89	1,804
Texas	23	247	545	298	184	101	47	20	15	1,456	64	579	1,502	954	693	521	370	304	766	5,688
Utah	-	23	19	10	3	1	1	0	0	57	8	126	246	118	74	46	23	16	24	672
Vermont	0	4	6	3	1	1	-	0	0	15	4	21	37	21	14	8	7	5	11	124
Virginia	-	76	209	61	29	10	8	3	2	397	1	53	382	280	239	186	112	79	84	1,415
Washington	2	127	188	55	29	15	8	6	6	434	33	55	237	221	216	181	131	107	271	1,419
West Virginia	-	1	5	2	3	2	2	0	0	14	10	41	149	81	48	32	17	12	13	391
Wisconsin	1	73	97	66	47	37	14	5	4	343	50	109	262	267	287	267	193	155	370	1,910
Wyoming	-	2	0	0	0	-	0	0	-	3	38	43	60	27	18	15	10	6	13	193
U.S. Total	155	3,424	4,194	1,755	1,096	671	364	227	296	12,028	2,949	7,511	16,011	9,813	7,771	6,067	4,172	3,364	8,299	63,008
Puerto Rico	1	1	12	7	6	6	4	5	10	51	6	0	8	24	40	52	47	46	141	359
Grand Total	157	3,425	4,206	1,761	1,102	677	368	233	306	12,079	2,956	7,511	16,018	9,837	7,811	6,118	4,220	3,411	8,441	63,367

For footnotes, see Footnotes Page.

FUNCTIONAL SYSTEM LENGTH - 2023

MILES BY MEASURED PAVEMENT ROUGHNESS

HM-64 Footnotes Page:

- (1) 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. Includes structures.
- (2) Includes unpaved miles and bridges.
- (3) Estimated from sample data.