

**NATIONAL HIGHWAY SYSTEM LENGTH - 2019**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - RURAL**

TABLE HM-47b  
SHEET 1 OF 2

September 30, 2020

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)														
	INTERSTATE SYSTEM					OTHER					TOTAL				
	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED
Alabama	0	517	45	8	571	0	1,744	194	42	1,981	0	2,262	239	50	2,551
Alaska	10	591	320	81	991	298	273	238	179	690	309	863	558	259	1,681
Arizona	6	762	128	20	910	28	754	356	65	1,175	34	1,516	484	85	2,085
Arkansas	-	369	60	10	439	0	1,206	637	95	1,938	0	1,575	697	105	2,377
California	1	927	249	37	1,213	26	2,545	952	143	3,640	27	3,472	1,201	180	4,854
Colorado	-	423	185	40	648	0	1,694	774	108	2,576	0	2,116	959	148	3,224
Connecticut	-	23	5	0	29	-	87	60	10	158	-	110	65	11	186
Delaware	-	-	-	-	-	1	104	32	2	137	1	104	32	2	137
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	0	698	16	3	717	2	2,372	361	29	2,762	2	3,070	377	33	3,479
Georgia	-	448	83	7	537	-	2,550	609	29	3,187	-	2,998	692	36	3,725
Hawaii	-	-	-	-	-	-	21	41	19	80	-	21	41	19	80
Idaho	0	469	45	4	519	205	1,173	302	31	1,506	205	1,642	347	35	2,025
Illinois	-	1,062	159	22	1,243	0	1,321	895	192	2,408	0	2,383	1,054	214	3,651
Indiana	1	589	163	32	784	1	1,204	500	43	1,747	1	1,793	662	76	2,531
Iowa	5	521	83	6	610	33	2,128	1,061	194	3,384	37	2,649	1,144	200	3,993
Kansas	1	557	77	5	640	0	2,676	313	41	3,030	1	3,233	391	46	3,670
Kentucky	0	636	67	8	711	1	1,287	329	27	1,643	1	1,923	396	36	2,354
Louisiana	10	318	184	18	520	13	564	417	98	1,080	22	882	601	117	1,599
Maine	-	222	50	7	279	2	530	181	87	798	2	751	232	94	1,078
Maryland	-	124	17	2	142	-	327	39	11	377	-	451	56	13	519
Massachusetts	-	53	8	2	63	0	249	136	36	420	0	302	144	37	483
Michigan	4	436	103	18	558	0	1,945	473	65	2,483	4	2,382	576	83	3,041
Minnesota	-	470	104	14	588	20	2,441	883	145	3,468	20	2,911	986	159	4,056
Mississippi	-	506	62	10	578	-	1,293	449	70	1,812	-	1,800	511	80	2,391
Missouri	-	784	52	5	842	-	2,480	465	44	2,989	-	3,264	517	49	3,831
Montana	-	968	115	11	1,094	-	1,960	704	110	2,774	-	2,928	819	122	3,868
Nebraska	-	354	53	8	415	51	1,970	547	116	2,632	51	2,325	599	123	3,047
Nevada	-	438	16	3	457	-	1,397	139	8	1,544	-	1,836	155	10	2,001
New Hampshire	-	135	7	0	142	-	293	72	22	387	-	428	79	22	529
New Jersey	-	40	5	0	45	-	119	53	23	195	-	159	57	23	240
New Mexico	-	717	110	17	843	-	1,295	392	62	1,749	-	2,012	502	78	2,593
New York	6	644	133	21	798	37	1,441	692	121	2,254	43	2,085	825	142	3,051
North Carolina	5	510	42	7	559	20	1,655	501	37	2,193	25	2,165	543	44	2,752
North Dakota	-	479	29	2	510	-	2,445	431	69	2,945	-	2,924	460	71	3,455
Ohio	-	546	85	12	643	1	1,460	392	42	1,893	1	2,005	478	53	2,536
Oklahoma	19	514	101	16	631	33	1,355	761	158	2,274	52	1,869	862	174	2,905
Oregon	-	439	53	3	495	0	1,980	607	57	2,644	0	2,419	660	60	3,139
Pennsylvania	-	881	160	26	1,066	-	1,319	478	87	1,884	-	2,199	638	113	2,951
Rhode Island	-	17	1	0	18	1	27	49	32	107	1	44	50	32	125
South Carolina	-	447	76	23	546	7	1,023	497	65	1,586	7	1,471	573	89	2,132
South Dakota	2	527	59	3	589	15	1,748	997	131	2,876	17	2,275	1,056	134	3,466
Tennessee	0	601	38	5	645	0	1,411	296	39	1,746	0	2,013	334	44	2,391
Texas	2	1,707	276	15	1,998	33	5,549	1,884	158	7,591	35	7,256	2,160	174	9,590
Utah	-	593	90	2	685	-	700	446	38	1,183	-	1,293	535	39	1,868
Vermont	1	236	18	1	255	1	237	57	12	306	2	473	75	13	561
Virginia	-	541	54	2	598	1	1,186	540	33	1,759	1	1,727	594	35	2,356
Washington	-	329	76	23	429	1	1,155	674	96	1,924	1	1,484	750	119	2,353
West Virginia	-	278	34	7	319	10	524	390	96	1,010	10	802	424	103	1,329
Wisconsin	-	397	105	12	513	3	1,795	1,144	215	3,155	3	2,191	1,249	227	3,668
Wyoming	-	712	87	8	807	-	1,492	432	39	1,963	-	2,204	520	46	2,770
U.S. Total	73	24,555	4,087	589	29,231	844	68,504	23,873	3,670	96,048	917	93,059	27,961	4,259	125,279
Puerto Rico	5	9	13	20	42	1	4	16	21	41	5	13	28	42	83
Grand Total	78	24,564	4,100	610	29,273	844	68,509	23,889	3,691	96,089	922	93,072	27,989	4,301	125,362

For footnotes, see Footnotes Page.

**NATIONAL HIGHWAY SYSTEM LENGTH - 2019**  
**MILES BY MEASURED PAVEMENT ROUGHNESS - URBAN**

TABLE HM-47b  
SHEET 2 OF 2

September 30, 2020

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)														
	INTERSTATE SYSTEM					OTHER					TOTAL				
	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED	NOT REPORTED (2)	< 95	95-170	> 170	TOTAL REPORTED
Alabama	1	340	65	27	432	26	955	236	93	1,284	27	1,295	301	120	1,717
Alaska	0	62	15	1	79	0	87	57	17	161	0	149	72	18	239
Arizona	4	209	34	5	249	46	366	313	116	794	50	575	347	121	1,043
Arkansas	-	213	79	19	310	1	288	279	111	678	1	501	357	130	988
California	4	698	441	100	1,238	275	1,553	2,759	3,385	7,696	280	2,251	3,199	3,484	8,934
Colorado	-	179	107	18	304	0	514	575	290	1,380	0	693	682	308	1,684
Connecticut	-	263	50	4	318	-	362	408	187	958	-	625	458	192	1,275
Delaware	2	20	15	4	38	2	136	90	28	254	4	155	105	31	292
District of Columbia	0	2	5	5	12	4	1	14	103	119	4	3	20	108	130
Florida	-	672	84	22	778	10	3,072	1,198	260	4,531	10	3,744	1,283	283	5,309
Georgia	-	579	112	19	710	-	1,888	752	165	2,806	-	2,467	864	184	3,516
Hawaii	-	13	29	13	55	1	78	132	109	319	1	91	162	121	374
Idaho	-	81	10	1	92	121	129	83	37	250	121	210	93	39	341
Illinois	3	692	187	60	939	13	939	1,402	804	3,144	16	1,631	1,588	863	4,083
Indiana	1	294	166	31	491	8	371	259	63	693	9	665	426	94	1,184
Iowa	11	134	35	7	175	19	305	404	203	912	30	439	438	210	1,087
Kansas	2	174	51	9	234	7	296	145	60	502	8	470	197	69	735
Kentucky	1	185	40	7	232	18	396	240	72	708	19	581	280	78	940
Louisiana	18	206	140	49	395	85	306	370	282	958	103	512	510	331	1,353
Maine	-	77	9	1	87	2	55	64	39	158	2	132	73	40	245
Maryland	0	256	58	23	338	7	639	362	308	1,308	7	895	420	331	1,646
Massachusetts	4	431	57	14	502	46	572	869	869	2,311	50	1,003	927	883	2,813
Michigan	3	438	180	55	673	26	817	1,095	797	2,709	29	1,255	1,275	852	3,382
Minnesota	0	221	86	19	325	8	522	245	74	841	8	743	331	93	1,167
Mississippi	-	202	43	9	253	-	464	358	191	1,013	-	666	400	200	1,266
Missouri	-	442	81	15	538	-	757	407	181	1,344	-	1,199	488	196	1,882
Montana	-	85	11	2	98	-	88	84	48	220	-	173	95	50	318
Nebraska	-	47	19	2	69	7	126	157	178	461	7	173	177	180	530
Nevada	-	118	42	3	163	-	232	142	45	419	-	350	184	48	582
New Hampshire	-	80	3	-	83	0	209	71	40	320	0	289	74	40	403
New Jersey	-	273	74	39	387	-	834	704	803	2,341	-	1,107	779	842	2,728
New Mexico	-	132	19	5	156	-	179	132	68	379	-	311	151	73	535
New York	13	575	259	86	920	124	1,055	1,506	1,358	3,920	136	1,631	1,765	1,444	4,840
North Carolina	9	638	127	14	778	25	1,055	827	233	2,115	34	1,692	954	247	2,893
North Dakota	-	53	7	0	61	1	83	80	42	205	1	136	88	42	266
Ohio	-	719	171	41	931	13	972	745	481	2,198	13	1,691	916	523	3,130
Oklahoma	15	183	72	17	272	19	299	255	96	650	34	482	327	113	922
Oregon	-	193	35	7	234	10	391	362	159	911	10	583	397	165	1,146
Pennsylvania	0	545	189	62	797	-	1,153	1,446	817	3,416	0	1,698	1,635	880	4,212
Rhode Island	-	43	8	1	52	16	66	142	185	392	16	109	150	186	444
South Carolina	-	246	47	11	304	7	458	537	160	1,155	7	704	584	171	1,459
South Dakota	0	61	25	2	88	9	44	68	34	146	9	105	93	36	234
Tennessee	0	479	68	10	557	5	1,294	549	224	2,066	5	1,772	617	233	2,622
Texas	3	955	451	50	1,456	156	2,713	2,606	1,522	6,841	158	3,668	3,058	1,571	8,296
Utah	-	191	58	4	253	-	404	235	55	695	-	596	294	59	948
Vermont	-	59	5	1	64	4	48	28	9	85	4	107	33	10	149
Virginia	1	393	113	14	521	3	695	799	285	1,779	4	1,088	912	299	2,300
Washington	-	251	72	12	335	11	632	727	501	1,861	11	883	799	513	2,195
West Virginia	0	188	36	11	235	27	179	143	64	387	28	367	179	75	622
Wisconsin	2	212	137	16	364	37	366	904	633	1,902	39	578	1,040	648	2,267
Wyoming	-	78	23	5	106	-	93	65	32	190	-	171	88	37	296
U.S. Total	97	13,879	4,250	950	19,080	1,199	29,535	26,434	16,914	72,884	1,296	43,415	30,684	17,864	91,963
Puerto Rico	19	52	110	77	238	6	16	134	284	434	24	68	244	360	672
Grand Total	116	13,931	4,359	1,027	19,318	1,204	29,551	26,569	17,198	73,317	1,320	43,482	30,928	18,225	92,635

For footnotes, see Footnotes Page.

# **NATIONAL HIGHWAY SYSTEM LENGTH - 2019**

## **MILES BY MEASURED PAVEMENT ROUGHNESS**

HM-47b 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.
- (2) May include sections entirely on structures and unpaved miles.