

NATIONAL HIGHWAY SYSTEM TRAVEL - 2016
DAILY TRAVEL BY MEASURED PAVEMENT ROUGHNESS - RURAL

HM-47A

SHEET 1 OF 4

September 18, 2017

(THOUSANDS)

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)																			
	INTERSTATE SYSTEM										OTHER									
	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	271	11,313	3,824	871	630	224	99	18	51	17,032	37	7,561	5,452	974	397	199	110	69	63	14,825
Alaska	3	632	1,106	321	181	104	46	28	25	2,444	66	220	408	98	61	49	33	27	52	947
Arizona	7	9,951	5,299	1,504	601	281	116	61	78	17,890	239	3,190	3,397	1,153	590	280	109	60	61	8,841
Arkansas	4	3,945	4,339	1,309	610	354	164	95	97	10,912	9	844	4,222	2,342	1,424	894	475	293	322	10,817
California	91	13,908	13,622	5,883	3,600	2,038	1,020	645	1,039	41,755	421	9,573	16,702	6,448	3,305	1,805	879	556	665	39,932
Colorado	-	3,117	5,362	2,292	916	497	324	193	94	12,795	-	1,729	5,062	2,738	1,383	630	234	134	115	12,026
Connecticut	-	841	294	86	23	18	9	5	7	1,283	-	452	826	358	184	82	23	21	15	1,961
Delaware	-	-	-	-	-	-	-	-	-	-	2	809	2,175	698	269	47	39	5	5	4,047
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	584	16,234	9,746	894	393	117	33	20	2	27,438	590	10,400	13,171	2,208	660	255	61	36	32	26,823
Georgia	698	10,426	7,098	1,545	624	373	137	87	79	20,368	1,704	5,093	8,677	2,280	988	375	157	50	91	17,710
Hawaii	-	-	-	-	-	-	-	-	-	-	-	1	257	209	138	146	53	58	43	905
Idaho	0	3,233	2,804	639	242	113	34	20	30	7,116	56	1,752	3,083	858	332	144	69	48	61	6,347
Illinois	-	13,833	9,258	1,111	201	11	44	-	-	24,457	-	1,584	4,592	1,894	1,080	702	192	51	34	10,129
Indiana	2,686	11,553	3,755	1,145	703	485	250	197	248	18,335	135	5,721	3,909	1,325	681	329	163	97	122	12,347
Iowa	384	5,281	5,218	1,620	802	201	93	46	76	13,336	576	3,415	5,358	3,310	1,973	1,028	487	358	371	16,300
Kansas	8	6,716	2,670	482	97	27	5	3	4	10,004	97	6,907	4,117	748	237	89	45	27	33	12,203
Kentucky	6	17,362	3,543	563	259	130	84	14	5	21,960	258	7,272	5,291	1,000	431	212	82	36	39	14,362
Louisiana	82	6,195	4,307	2,537	1,763	836	302	111	72	16,122	140	1,057	3,454	1,529	1,170	740	421	203	299	8,873
Maine	-	4,401	779	434	-	0	3	1	-	5,618	-	479	2,414	941	704	236	177	27	57	5,036
Maryland	-	2,698	2,521	310	153	43	48	30	12	5,815	3	3,769	2,094	398	203	171	63	56	53	6,807
Massachusetts	1	1,268	1,137	186	31	37	4	11	137	2,811	3	381	424	245	140	81	72	34	86	1,464
Michigan	56	4,295	6,218	1,951	975	500	204	102	91	14,337	69	7,570	6,960	1,936	798	415	221	96	168	18,164
Minnesota	1,020	4,044	3,920	781	400	247	171	50	33	9,646	1,875	6,481	5,823	2,408	1,313	699	317	205	174	17,419
Mississippi	-	7,352	2,579	879	634	369	167	118	104	12,203	-	3,982	5,962	1,935	1,103	681	335	190	132	14,320
Missouri	-	11,938	5,672	928	374	161	79	23	22	19,197	3	8,886	9,314	2,344	828	350	151	64	36	21,973
Montana	-	2,907	3,342	474	157	76	32	7	15	7,010	-	2,221	3,299	818	308	153	59	43	59	6,959
Nebraska	103	4,782	2,418	488	181	55	34	11	7	7,975	2,847	2,173	2,191	871	453	242	133	81	94	6,237
Nevada	-	5,603	340	74	47	48	15	5	1	6,134	23	2,936	1,050	149	42	30	25	25	36	4,292
New Hampshire	-	2,596	340	36	8	-	-	-	-	2,980	-	1,897	1,202	324	141	78	54	26	50	3,773
New Jersey	-	1,245	1,730	182	124	48	10	15	5	3,359	-	571	1,219	533	377	253	141	83	107	3,283
New Mexico	65	8,664	2,604	557	208	90	46	30	38	12,238	20	3,277	3,117	864	461	263	113	78	87	8,260
New York	316	4,693	7,371	2,098	811	368	202	101	133	15,778	1,485	1,462	5,454	1,970	1,019	510	255	149	135	10,954
North Carolina	359	8,713	5,220	1,029	586	320	126	40	30	16,065	778	7,305	11,612	3,214	1,299	532	235	103	186	24,487
North Dakota	-	2,222	1,744	292	76	12	6	1	1	4,354	4	3,203	1,995	491	219	65	27	18	24	6,043
Ohio	14	12,125	8,018	2,023	967	400	198	96	100	23,926	20	5,886	7,244	2,131	933	394	191	106	115	16,999
Oklahoma	215	6,478	5,371	1,288	570	389	185	127	87	14,493	400	2,389	6,043	2,264	1,247	770	436	274	329	13,753
Oregon	-	4,551	4,632	1,088	306	77	29	17	13	10,712	5	3,093	5,442	1,696	682	295	132	65	41	11,445
Pennsylvania	-	10,313	13,000	2,890	936	673	284	100	154	28,351	3	4,454	6,999	2,227	1,204	802	386	220	409	16,701
Rhode Island	-	725	87	18	14	5	-	-	-	849	-	70	100	124	146	124	64	53	117	798
South Carolina	-	8,238	9,683	2,313	1,218	545	222	76	52	22,347	-	1,436	5,396	2,666	1,453	788	354	226	258	12,577
South Dakota	128	1,745	2,833	510	179	58	30	19	5	5,378	418	767	1,989	1,100	530	274	126	74	65	4,925
Tennessee	-	18,772	2,449	539	295	124	47	16	6	22,247	149	5,871	4,655	1,079	468	244	113	69	78	12,578
Texas	-	23,479	18,034	4,917	1,845	801	283	111	97	49,567	112	18,933	22,098	8,431	3,834	1,772	639	357	242	56,306
Utah	11	5,438	2,906	412	97	41	10	6	5	8,916	8	1,044	3,250	1,140	514	275	114	65	41	6,443
Vermont	22	2,389	823	90	33	16	1	0	-	3,351	3	425	866	289	143	89	48	34	47	1,941
Virginia	6	9,770	12,381	2,091	814	251	67	15	21	25,410	266	3,215	10,350	3,119	1,178	428	166	68	39	18,563
Washington	-	5,662	3,728	1,436	860	514	362	238	261	13,062	0	2,581	5,426	1,996	677	318	144	92	109	11,342
West Virginia	196	2,530	2,838	425	209	116	44	14	17	6,192	21	1,133	2,849	1,135	553	264	132	84	87	6,237
Wisconsin	300	6,402	4,696	2,161	1,238	896	377	202	156	16,127	179	4,311	6,494	4,675	2,815	1,544	689	379	608	21,515
Wyoming	-	4,413	1,765	444	238	105	39	26	23	6,754	47	1,432	1,800	548	239	99	44	17	19	4,198
U.S. Total	7,639	334,691	223,422	56,147	26,226	13,195	6,042	3,192	3,535	666,450	13,067	181,211	245,286	84,231	41,327	21,243	9,789	5,587	6,513	595,188
Puerto Rico (3)	-	-	52	362	107	368	149	93	205	1,337	-	-	29	26	118	3	-	-	-	177
Grand Total	7,639	334,691	223,474	56,509	26,334	13,564	6,191	3,284	3,740	667,786	13,067	181,211	245,315	84,257	41,446	21,247	9,789	5,587	6,513	595,364

For footnotes, see Footnotes Page.

NATIONAL HIGHWAY SYSTEM TRAVEL - 2016
DAILY TRAVEL BY MEASURED PAVEMENT ROUGHNESS - RURAL

September 18, 2017

(THOUSANDS)

HM-47A
SHEET 2 OF 4

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	TOTAL RURAL NHS									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	308	18,875	9,276	1,845	1,027	424	209	87	114	31,856
Alaska	70	852	1,514	419	242	153	79	55	77	3,391
Arizona	246	13,141	8,696	2,657	1,191	561	225	121	139	26,731
Arkansas	13	4,789	8,561	3,651	2,034	1,248	639	388	419	21,729
California	513	23,480	30,324	12,330	6,906	3,843	1,898	1,201	1,704	81,686
Colorado	-	4,846	10,424	5,030	2,299	1,127	558	327	210	24,821
Connecticut	-	1,293	1,120	444	207	100	32	26	22	3,244
Delaware	2	809	2,175	698	269	47	39	5	5	4,047
District of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	1,173	26,634	22,916	3,102	1,053	371	94	56	35	54,260
Georgia	2,402	15,519	15,775	3,825	1,611	748	293	137	170	38,079
Hawaii	-	1	257	209	138	146	53	58	43	905
Idaho	56	4,985	5,887	1,498	574	257	103	68	91	13,463
Illinois	-	15,417	13,850	3,006	1,281	713	192	94	34	34,587
Indiana	2,821	17,274	7,664	2,470	1,383	815	414	294	370	30,682
Iowa	959	8,696	10,575	4,930	2,775	1,229	580	404	447	29,636
Kansas	106	13,623	6,787	1,230	334	116	50	29	37	22,207
Kentucky	263	24,634	8,834	1,562	690	342	166	50	45	36,322
Louisiana	223	7,252	7,762	4,066	2,934	1,575	722	313	371	24,995
Maine	-	4,880	3,193	1,375	704	236	180	28	57	10,654
Maryland	3	6,468	4,614	708	356	214	111	86	65	12,622
Massachusetts	4	1,649	1,561	431	171	119	76	44	223	4,275
Michigan	124	11,865	13,179	3,887	1,773	916	425	197	259	32,501
Minnesota	2,895	10,525	9,743	3,189	1,713	946	488	255	207	27,065
Mississippi	-	11,335	8,541	2,815	1,737	1,050	502	308	236	26,523
Missouri	3	20,824	14,986	3,272	1,202	511	230	87	58	41,170
Montana	-	5,128	6,641	1,292	464	229	91	50	74	13,969
Nebraska	2,949	6,955	4,609	1,358	635	296	166	92	101	14,212
Nevada	23	8,539	1,390	223	89	78	41	30	38	10,426
New Hampshire	-	4,493	1,542	360	149	78	54	26	50	6,754
New Jersey	-	1,815	2,948	715	501	301	151	98	112	6,642
New Mexico	85	11,941	5,721	1,420	670	354	159	108	125	20,498
New York	1,801	6,155	12,825	4,068	1,830	879	457	250	267	26,732
North Carolina	1,137	16,018	16,832	4,243	1,886	852	361	144	216	40,552
North Dakota	4	5,424	3,739	782	295	77	34	19	26	10,397
Ohio	34	18,010	15,262	4,153	1,900	794	389	202	214	40,925
Oklahoma	615	8,867	11,414	3,553	1,816	1,159	621	401	416	28,247
Oregon	5	7,644	10,074	2,783	988	372	161	81	54	22,157
Pennsylvania	3	14,767	19,999	5,118	2,140	1,476	670	320	563	45,051
Rhode Island	-	795	187	142	161	129	64	53	117	1,647
South Carolina	-	9,673	15,079	4,979	2,671	1,333	576	303	310	34,925
South Dakota	546	2,512	4,822	1,610	709	332	155	93	70	10,303
Tennessee	149	24,643	7,104	1,618	763	368	160	85	84	34,825
Texas	112	42,412	40,132	13,348	5,680	2,573	922	468	339	105,873
Utah	19	6,482	6,156	1,552	611	316	125	71	46	15,360
Vermont	25	2,813	1,689	379	176	105	49	34	47	5,292
Virginia	272	12,985	22,731	5,210	1,992	678	233	83	60	43,973
Washington	0	8,243	9,153	3,432	1,536	832	506	331	370	24,404
West Virginia	217	3,663	5,687	1,560	762	380	176	98	104	12,430
Wisconsin	479	10,712	11,190	6,836	4,053	2,440	1,066	581	764	37,642
Wyoming	47	5,545	3,565	992	478	203	83	43	42	10,951
U.S. Total	20,705	515,901	468,708	140,378	67,554	34,439	15,830	8,779	10,047	1,261,637
Puerto Rico (3)	-	-	82	388	225	371	149	93	205	1,513
Grand Total	20,705	515,901	468,790	140,766	67,779	34,810	15,980	8,872	10,253	1,263,151

For footnotes, see Footnotes Page.

NATIONAL HIGHWAY SYSTEM TRAVEL - 2016
DAILY TRAVEL BY MEASURED PAVEMENT ROUGHNESS - URBAN

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI) (1)									
	TOTAL URBAN NHS									
	NOT REPORTED (2)	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED
Alabama	469	22,729	14,033	5,134	3,515	2,338	1,539	903	885	51,076
Alaska	49	877	1,777	781	474	341	196	143	250	4,840
Arizona	6,954	20,017	18,349	5,352	3,141	1,827	1,051	649	1,146	51,533
Arkansas	117	3,504	7,144	4,913	3,179	2,420	1,556	1,320	2,283	26,319
California	3,245	56,494	129,229	85,779	68,570	52,970	36,216	29,088	63,779	522,126
Colorado	6	5,845	20,783	12,862	9,919	5,821	3,523	2,589	4,122	65,464
Connecticut	2	16,075	16,204	6,444	4,056	2,427	1,413	909	1,286	48,815
Delaware	28	1,418	5,559	2,097	874	579	431	293	396	11,648
District of Columbia	131	-	166	313	454	651	409	517	2,487	4,997
Florida	5,658	72,038	105,227	29,289	14,416	8,135	3,636	1,892	2,484	237,118
Georgia	17,682	44,477	37,815	10,636	5,618	3,877	1,813	1,111	1,583	106,930
Hawaii	7	401	2,410	2,117	2,229	1,874	1,417	812	1,670	12,930
Idaho	172	2,409	3,551	1,562	841	585	357	218	428	9,949
Illinois	-	11,579	45,376	26,385	16,071	12,664	5,421	4,172	6,530	128,199
Indiana	6,158	12,513	14,082	7,817	4,805	3,193	1,943	1,409	1,979	47,741
Iowa	1,228	3,802	5,098	2,990	2,140	1,509	906	807	1,479	18,731
Kansas	1,114	7,429	6,189	2,572	1,460	760	336	193	316	19,255
Kentucky	1,257	15,041	8,748	3,447	2,216	1,295	799	497	492	32,534
Louisiana	1,301	8,207	10,998	6,629	6,253	6,306	4,079	2,938	4,433	49,843
Maine	-	1,819	2,065	755	341	343	226	211	272	6,033
Maryland	174	29,080	29,943	9,054	6,280	5,054	2,886	2,291	4,399	88,987
Massachusetts	885	35,429	20,771	7,811	6,556	6,321	4,515	3,861	10,457	95,721
Michigan	826	16,917	36,670	18,530	12,568	9,242	5,807	4,855	8,454	113,042
Minnesota	39,565	2,994	3,150	1,110	717	548	285	140	292	9,236
Mississippi	-	8,174	7,253	3,526	2,385	1,881	1,087	800	1,895	27,001
Missouri	217	26,239	22,988	7,701	4,744	3,270	1,730	1,101	1,465	69,238
Montana	-	930	1,675	673	448	315	176	143	284	4,643
Nebraska	2,982	1,774	2,846	1,328	946	885	623	519	1,310	10,231
Nevada	8	8,874	7,062	3,990	2,463	1,434	669	380	441	25,314
New Hampshire	0	7,646	2,865	868	467	374	222	174	416	13,031
New Jersey	196	25,801	40,189	15,469	11,088	7,912	5,891	4,965	11,763	123,078
New Mexico	276	5,874	4,098	1,915	1,577	1,207	786	526	1,135	17,118
New York	9,580	10,096	41,069	24,108	17,512	14,281	10,433	8,470	20,411	146,380
North Carolina	4,914	26,457	37,672	17,021	8,941	4,672	2,211	1,397	3,094	101,465
North Dakota	16	628	1,311	597	467	278	169	108	335	3,892
Ohio	1,996	33,450	40,956	14,955	10,553	7,568	4,427	3,214	6,388	121,511
Oklahoma	622	5,779	11,170	5,307	3,465	2,898	2,148	1,691	2,562	35,019
Oregon	27	7,830	12,968	4,932	3,060	2,245	1,422	887	1,292	34,636
Pennsylvania	880	17,444	33,624	16,878	12,743	8,864	5,741	3,849	6,467	105,611
Rhode Island	174	2,273	3,734	1,624	1,276	1,107	772	726	1,910	13,422
South Carolina	-	7,541	15,274	8,559	6,075	4,222	1,815	973	1,259	45,717
South Dakota	383	310	1,322	402	294	213	109	72	81	2,803
Tennessee	1,008	35,928	22,642	8,181	5,045	3,407	1,758	1,366	2,731	81,058
Texas	4,204	45,757	97,600	62,866	46,979	33,106	17,700	10,763	18,741	333,512
Utah	103	7,354	14,958	7,276	4,087	2,458	932	467	449	37,980
Vermont	88	882	935	321	182	130	65	47	99	2,662
Virginia	1,714	15,444	37,496	17,139	9,801	6,378	3,586	2,421	2,379	94,644
Washington	0	14,948	22,957	10,833	7,293	5,506	3,399	3,253	7,542	75,731
West Virginia	244	4,508	6,042	2,006	1,231	795	463	310	358	15,712
Wisconsin	1,179	7,714	12,143	9,113	7,272	5,238	3,104	2,110	4,941	51,636
Wyoming	117	653	1,022	526	312	210	170	131	300	3,324
U.S. Total	117,958	721,402	1,049,204	502,493	347,403	251,938	152,367	112,678	221,950	3,359,434
Puerto Rico (3)	71	-	1,609	4,527	3,883	4,395	2,710	877	1,164	19,165
Grand Total	118,029	721,402	1,050,813	507,019	351,286	256,333	155,078	113,555	223,113	3,378,599

For footnotes, see Footnotes Page.

NATIONAL HIGHWAY SYSTEM TRAVEL - 2016

DAILY TRAVEL BY MEASURED PAVEMENT ROUGHNESS

HM-47A 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.
Travel is in thousands.
- (2) May include sections entirely on structures and unpaved miles.
- (3) 2009 data.