

PROPOSED NATIONAL HIGHWAY SYSTEM - 1994
RURAL MILEAGE BY MEASURED PAVEMENT ROUGHNESS

TABLE HM-47P
SHEET 1 OF 4
OCTOBER 1992

STATE	INTERSTATE SYSTEM											INTERNATIONAL ROUGHNESS INDEX (IRI)											TOTAL REPORTED		
	NOT REPORTED	IRI										TOTAL REPORTED	NOT REPORTED	IRI										TOTAL REPORTED	
		< 60	60-81	81-119	120-144	145-170	171-194	195-220	> 220	< 60	60-81			81-119	120-144	145-170	171-194	195-220	> 220						
Alabama	-	521	63	7	4	-	-	-	-	4	401	-	-	538	938	401	96	34	9	1	24	2,041			
Alaska	-	-	190	263	273	120	104	36	47	1,033	-	-	-	66	119	163	58	14	26	10	456				
Arizona	-	324	516	96	39	9	7	-	-	991	-	-	60	557	280	123	49	42	13	8	1,132				
Arkansas	8	5	48	36	96	84	60	41	25	395	475	9	431	416	271	159	77	16	8	1,387					
California	147	80	581	216	161	91	35	9	35	1,208	828	53	920	788	544	294	72	33	1	2,705					
Colorado	-	19	239	173	136	62	133	6	-	768	-	-	13	605	532	224	222	64	53	-	1,815				
Connecticut	-	3	-	43	13	13	16	6	7	98	-	-	2	-	91	73	30	27	21	7	251				
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-	47	51	41	15	14	9	15	192				
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Florida	-	54	253	233	355	45	7	6	-	953	-	-	56	456	509	457	162	55	52	10	1,757				
Georgia	334	151	269	48	5	-	-	-	-	473	2,081	287	48	-	1	-	-	-	-	-	336				
Hawaii	-	-	-	-	-	-	-	-	-	-	134	-	-	-	-	1	1	1	1	-	4				
Idaho	-	8	166	151	118	64	13	9	3	532	-	-	34	131	432	617	337	109	19	1,679					
Illinois	-	4	394	470	342	161	31	10	9	1,421	5	1	314	736	474	193	113	35	70	1,936					
Indiana	3	44	359	217	66	121	10	-	5	822	173	43	274	321	262	127	34	37	12	1,110					
Iowa	16	26	261	192	99	40	3	-	-	623	174	122	629	328	401	342	133	29	7	1,789					
Kansas	-	64	293	119	117	73	14	7	11	698	-	-	208	1,205	582	379	132	60	23	7	2,596				
Kentucky	-	48	244	52	96	68	28	-	-	536	-	-	34	673	460	252	218	39	10	4	1,690				
Louisiana	47	217	133	103	46	27	5	-	30	561	-	-	108	123	635	97	59	15	40	101	1,178				
Maine	-	54	93	145	16	3	-	1	-	258	-	-	118	76	300	153	61	30	12	9	642				
Maryland	-	112	71	23	5	2	11	3	-	227	-	-	192	225	75	28	17	9	5	561					
Massachusetts	-	-	76	66	19	7	5	1	-	162	153	1	35	65	33	15	8	6	3	166					
Michigan	125	76	219	151	87	51	19	7	5	615	168	355	855	393	306	135	41	23	11	2,119					
Minnesota	-	41	76	145	159	126	91	43	-	681	-	-	1	286	483	505	413	299	153	442	2,582				
Mississippi	-	11	201	160	104	38	23	12	9	558	3	3	488	524	344	194	30	46	21	1,650					
Missouri	-	35	353	259	128	29	-	6	-	818	26	39	614	944	592	266	42	17	19	18	2,533				
Montana	1	11	361	307	209	152	68	28	-	1,136	-	-	17	586	794	548	404	160	56	40	2,605				
Nebraska	1	76	127	140	22	37	23	11	-	437	-	-	8	657	496	542	313	191	45	35	2,287				
Nevada	67	205	160	21	18	9	-	-	-	413	79	324	436	421	153	24	1	-	-	-	1,359				
New Hampshire	-	25	147	4	-	-	-	-	-	176	-	-	254	129	43	13	4	-	-	-	10	453			
New Jersey	6	8	47	29	14	4	4	-	-	108	247	-	19	134	57	25	9	24	24	287					
New Mexico	-	36	330	218	167	84	32	10	16	893	-	-	103	603	302	263	163	82	74	162	1,752				
New York	2	38	465	169	76	19	11	6	11	795	253	44	673	363	222	130	84	90	122	1,728					
North Carolina	1	2	168	147	113	120	63	8	11	632	30	4	576	553	462	204	90	44	68	2,001					
North Dakota	-	141	194	115	47	33	-	-	-	530	-	-	19	291	418	688	364	223	69	18	2,090				
Ohio	-	208	523	85	14	1	-	-	-	829	-	-	228	1,264	209	87	33	16	1	3	1,842				
Oklahoma	-	85	363	170	42	37	14	3	1	715	-	-	25	221	254	354	308	447	106	296	2,011				
Oregon	-	1	248	266	62	4	-	-	-	581	-	-	660	397	863	501	218	62	28	10	2,739				
Pennsylvania	-	27	337	317	171	105	61	34	28	1,080	23	2	588	701	568	299	121	56	30	3	2,365				
Rhode Island	-	-	6	8	5	1	-	-	-	21	-	-	2	17	9	6	2	1	21	60					
South Carolina	-	142	296	153	54	17	4	-	-	648	1	17	680	242	169	127	22	3	5	1,265					
South Dakota	-	9	60	180	209	130	24	17	-	629	-	-	144	315	549	422	467	175	69	29	2,170				
Tennessee	-	64	403	176	74	15	7	-	-	739	-	-	66	704	271	234	84	45	11	5	1,420				
Texas	141	3	747	816	321	90	44	41	-	2,062	805	-	50	1,370	2,018	1,250	475	198	117	5,478					
Utah	-	361	306	85	18	1	-	-	-	771	-	-	269	567	111	32	26	-	-	-	1,007				
Vermont	-	86	158	27	2	4	1	-	-	288	-	-	15	72	84	73	39	15	15	2	313				
Virginia	-	5	287	271	46	28	11	60	-	708	85	1	228	618	321	129	22	11	4	1,336					
Washington	-	81	209	142	52	7	9	1	-	501	7	1	114	528	825	419	126	57	14	2,084					
West Virginia	-	11	124	84	129	97	10	1	3	459	776	2	57	27	58	60	22	8	1	235					
Wisconsin	-	37	169	172	83	20	4	-	5	496	-	-	270	914	687	355	240	123	29	3	2,621				
Wyoming	-	-	33	154	267	299	69	5	-	827	4	-	115	295	463	473	153	82	17	1	1,598				
U.S. Total	955	3,132	10,447	7,524	5,483	2,870	1,178	511	357	31,502	6,650	4,226	20,364	19,481	15,809	9,641	4,239	1,821	1,843	77,424					
Puerto Rico	8	-	13	22	23	9	5	20	-	92	24	-	-	-	4	-	-	-	-	-	8				
Grand Total	963	3,132	10,447	7,537	5,505	2,879	1,183	516	377	31,594	6,674	4,226	20,364	19,481	15,809	9,645	4,239	1,822	1,843	77,432					
Percent System Reported	-	99	33.1	23.9	17.4	9.2	3.8	1.6	1.2	100.0	-	-	5.5	26.3	25.2	20.4	12.5	5.2	2.4	2.4	100.0				

PROPOSED NATIONAL HIGHWAY SYSTEM - 1994
RURAL MILEAGE BY MEASURED PAVEMENT ROUGHNESS

TABLE HM-47P
 SHEET 2 OF 4
 OCTOBER 1995

COMPILED FROM REPORTS OF STATE AUTHORITIES

STATE	NOT REPORTED	INTERNATIONAL ROUGHNESS INDEX (IRI)								TOTAL REPORTED
		< 60	60-84	85-119	120-144	145-170	171-194	195-220	> 220	
Alabama	-	1,059	1,001	408	102	24	9	1	28	2,642
Alaska	-	-	256	382	436	178	118	62	57	1,489
Arizona	-	384	1,073	376	162	58	49	13	8	2,123
Arkansas	483	14	479	452	307	243	137	57	33	1,362
California	975	133	1,507	1,004	705	385	107	42	36	3,973
Colorado	-	32	84	705	460	284	199	59	2	2,583
Connecticut	5	-	134	84	43	27	14	2	-	349
Delaware	-	-	47	51	41	15	14	9	15	192
Dist. of Columbia	-	-	-	-	-	-	-	-	-	-
Florida	-	110	709	742	812	207	62	58	10	2,710
Georgia	2,415	438	317	49	5	-	-	-	-	809
Hawaii	134	-	-	-	1	1	1	-	-	4
Idaho	-	8	200	282	550	681	350	118	22	2,211
Illinois	5	5	708	1,206	816	354	144	45	79	3,257
Indiana	176	87	633	538	328	248	84	37	17	1,922
Iowa	190	148	690	518	500	382	136	29	7	2,410
Kansas	-	272	1,498	701	496	205	74	30	16	3,294
Kentucky	-	82	917	512	348	286	67	10	4	2,226
Louisiana	47	325	256	738	143	86	20	40	131	1,739
Maine	172	169	445	169	66	20	13	6	-	807
Maryland	-	-	304	304	98	33	19	20	8	788
Massachusetts	153	1	111	131	52	15	8	7	3	228
Michigan	293	431	1,074	544	393	186	69	30	16	2,734
Minnesota	-	1	327	559	650	572	425	244	485	3,263
Mississippi	3	14	689	684	448	232	53	58	30	2,208
Missouri	26	74	967	1,203	720	295	42	23	19	3,343
Montana	1	28	947	1,101	757	556	228	84	40	3,741
Nebraska	-	8	733	653	682	335	295	68	46	2,264
Nevada	146	529	596	442	171	33	1	-	-	1,772
New Hampshire	-	25	401	133	43	13	4	-	10	629
New Jersey	253	-	27	64	163	73	29	13	24	395
New Mexico	-	139	933	520	430	247	114	84	178	2,645
New York	255	82	1,138	532	298	149	95	48	133	2,523
North Carolina	31	6	744	700	575	324	153	52	79	2,633
North Dakota	-	19	432	612	803	411	256	69	18	2,630
Ohio	-	434	1,393	294	103	35	16	1	3	2,675
Oklahoma	-	110	584	424	396	345	461	109	297	2,726
Oregon	-	661	645	1,129	563	222	62	28	10	3,220
Pennsylvania	23	29	925	1,018	739	404	182	90	58	3,445
Rhode Island	-	-	23	17	11	5	1	21	-	81
South Carolina	1	159	918	395	225	144	26	3	5	1,923
South Dakota	-	153	375	729	631	597	199	86	29	2,799
Tennessee	-	130	1,107	447	308	99	52	11	5	2,159
Texas	946	-	53	2,117	2,834	1,521	665	242	156	7,540
Utah	-	630	873	196	50	27	-	2	-	1,778
Vermont	-	101	230	113	75	45	16	15	2	597
Virginia	85	6	315	889	367	167	33	71	6	2,044
Washington	7	1	195	737	967	471	133	66	15	2,585
West Virginia	716	13	181	111	127	157	32	9	4	494
Wisconsin	-	307	1,083	859	438	260	127	29	8	3,111
Wyoming	4	-	148	449	730	772	222	87	17	2,425
U.S. Total	7,606	7,358	30,811	27,005	21,292	12,511	5,417	2,337	2,200	108,926
Puerto Rico	27	-	13	22	27	8	-	23	-	100
Grand Total	7,633	7,358	30,811	27,018	21,314	12,528	5,429	2,338	2,223	109,026
Percent/System Reported	6.7	28.3	24.8	19.5	11.5	5.0	2.1	2.0	100.0	

PROPOSED NATIONAL HIGHWAY SYSTEM - 1994
 URBAN MILEAGE BY MEASURED PAVEMENT ROUGHNESS

TABLE HM-41P
 SHEET 1 OF 4
 OCTOBER 1995

COMPILED FROM REPORTS OF STATE AUTHORITIES

STATE	INTERSTATE SYSTEM										INTERNATIONAL ROUGHNESS INDEX (IRI)										
	NOT REPORTED	< 60	60-94	95-114	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	NOT REPORTED	< 60	60-94	95-119	120-144	145-170	171-194	195-220	> 220	TOTAL REPORTED	
Alabama										303										303	
Alaska										53										53	
Arizona										178										178	
Arkansas										136										136	
California	203	35	217	211	216	97	45	43	5	849	444	49	256	218	206	125	48	37	9	948	
Colorado										186										186	
Connecticut										245										245	
Delaware										41										41	
Dist. of Columbia										12										12	
Florida										519										519	
Georgia										165										165	
Idaho										79										79	
Illinois										632										632	
Indiana										310										310	
Iowa										134										134	
Kansas										174										174	
Kentucky										226										226	
Louisiana										252										252	
Maine										51										51	
Maryland										255										255	
Massachusetts										403										403	
Michigan										437										437	
Minnesota										233										233	
Mississippi										127										127	
Missouri										367										367	
Montana										52										52	
Nebraska										45										45	
Nevada										75										75	
New Hampshire										48										48	
New Jersey										230										230	
New Mexico										107										107	
New York										683										683	
North Carolina										331										331	
North Dakota										41										41	
Ohio										743										743	
Oklahoma										214										214	
Oregon										146										146	
Pennsylvania										506										506	
Rhode Island										49										49	
South Carolina										141										141	
South Dakota										49										49	
Tennessee										222										222	
Texas										972										972	
Utah										149										149	
Vermont										48										48	
Virginia										398										398	
Washington										262										262	
West Virginia										98										98	
Wisconsin										148										148	
Wyoming										87										87	
U.S. Total	786	763	2,297	2,990	2,315	1,309	791	467	148	12,340	4,551	758	3,785	4,453	3,990	2,414	1,782	1,437	2,309	21,928	
Puerto Rico										109											109
Grand Total	829	763	2,297	2,990	2,315	1,305	801	468	148	12,449	4,618	758	3,785	4,453	3,997	2,415	1,784	1,442	2,315	21,947	
Percent/System Reported	6.1	26.5	24.1	18.8	11.1	6.5	3.9	2.9	100.0		3.5	17.2	20.3	18.2	15.6	8.1	6.6	10.5	100.0		

PROPOSED NATIONAL HIGHWAY SYSTEM - 1994
URBAN MILEAGE BY MEASURED PAVEMENT ROUGHNESS

TABLE HM-47P
SHEET 4 OF 4
OCTOBER 1995

COMPILED FROM REPORTS OF STATE AUTHORITIES

STATE	INTERNATIONAL ROUGHNESS INDEX (IRI)									
	NOT REPORTED*	TOTAL URBAN NHS								
	<40	40-94	95-119	120-144	145-170	171-194	195-220	220+		
Alabama	9	451	321	118	42	14	4	2	5	957
Alaska	-	1	28	45	23	13	7	5	3	125
Arizona	-	65	179	117	75	28	12	3	1	480
Arkansas	127	8	33	43	53	59	28	18	13	257
California	647	84	473	429	422	222	93	80	14	1,817
Colorado	-	3	170	211	181	63	20	52	23	723
Connecticut	27	-	115	165	104	84	35	45	12	580
Delaware	-	-	30	33	16	11	5	-	14	102
Dist. of Columbia	32	-	-	2	-	-	5	9	20	42
Florida	-	69	422	284	448	166	40	20	12	1,461
Georgia	916	124	115	8	-	-	-	-	-	247
Hawaii	129	-	-	2	1	10	6	-	-	24
Idaho	-	-	31	42	24	22	11	13	7	150
Illinois	15	6	175	452	387	316	241	233	316	2,126
Indiana	76	52	105	151	103	57	50	33	35	566
Iowa	182	6	45	64	76	43	23	1	-	258
Kansas	-	41	120	119	74	18	10	1	9	392
Kentucky	-	195	101	102	101	45	26	20	600	
Louisiana	30	59	73	307	72	62	35	34	51	693
Maine	37	12	76	30	11	6	95	-	-	131
Maryland	-	162	161	94	67	27	19	47	572	
Massachusetts	610	11	182	324	133	83	35	15	27	810
Michigan	227	38	243	244	226	218	143	108	211	1,431
Minnesota	-	-	43	118	112	130	68	60	167	696
Mississippi	4	5	100	95	90	46	10	5	1	352
Missouri	104	5	156	248	174	117	44	27	80	851
Montana	1	4	22	41	18	15	7	3	5	115
Nebraska	42	-	7	20	35	31	37	38	71	239
Nevada	21	28	72	47	11	-	-	-	-	175
New Hampshire	-	10	109	20	6	3	-	1	3	152
New Jersey	516	-	61	99	273	267	80	25	33	838
New Mexico	11	-	65	64	42	30	25	12	15	281
New York	193	15	466	390	309	259	209	158	327	2,133
North Carolina	51	7	146	157	158	145	69	34	43	759
North Dakota	-	-	6	34	24	19	9	4	5	103
Ohio	-	146	794	326	143	81	33	20	13	1,556
Oklahoma	-	44	136	83	74	52	48	22	15	474
Oregon	-	4	46	121	129	71	37	20	24	452
Pennsylvania	18	3	286	418	400	334	195	122	124	1,882
Rhode Island	-	-	36	38	39	33	10	12	25	173
South Carolina	5	49	280	119	72	45	19	8	11	603
South Dakota	-	5	11	30	29	13	7	4	4	101
Tennessee	-	34	354	220	134	90	35	24	17	912
Texas	1,081	-	15	327	664	825	547	388	650	3,416
Utah	-	71	157	84	31	18	8	-	-	372
Vermont	-	7	36	15	10	2	5	1	9	85
Virginia	70	8	148	451	168	191	53	54	51	1,147
Washington	92	1	56	158	229	123	44	38	16	665
West Virginia	67	-	26	38	20	28	10	7	1	125
Wisconsin	-	37	146	221	170	123	61	43	94	526
Wyoming	8	1	25	25	32	33	17	5	5	143
U.S. Total*	5,337	1,521	7,082	7,443	6,905	4,783	2,273	1,904	2,687	34,268
Puerto Rico	110	-	1	12	31	17	14	26	20	121
Grand Total	5,447	1,521	7,082	7,455	6,936	4,800	2,287	1,930	2,677	34,389
Percent System Reported*	4.4	20.6	21.7	18.4	14.0	7.4	5.9	7.8	10.0	100.0

* A Proposed National Highway System (NHS) was submitted to Congress in December 1993 as required by the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991. This table contains information on the proposed NHS as summarized from the Highway Performance Monitoring System (HPMS) universe data.
 † 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. See the "Roadway Layout, Characteristics and Performance" text at the front of the IRI data tables.
 ‡ Although the Interstate System is part of the NHS, its mileage is shown separately.
 § Some States did not report for all required systems. Includes unreported mileage not represented in the remaining columns: rural other NHS - 1 mile in Maine, urban other NHS - 2 miles in Louisiana and 3 miles in Michigan.
 ¶ 1993 data used (1994 base data not available). For Nebraska, the 1993 base data were factored to 1994 levels by FHWA.
 * Totals only reflect those States reporting usable or partially usable data.