

Thomas C. Wolf



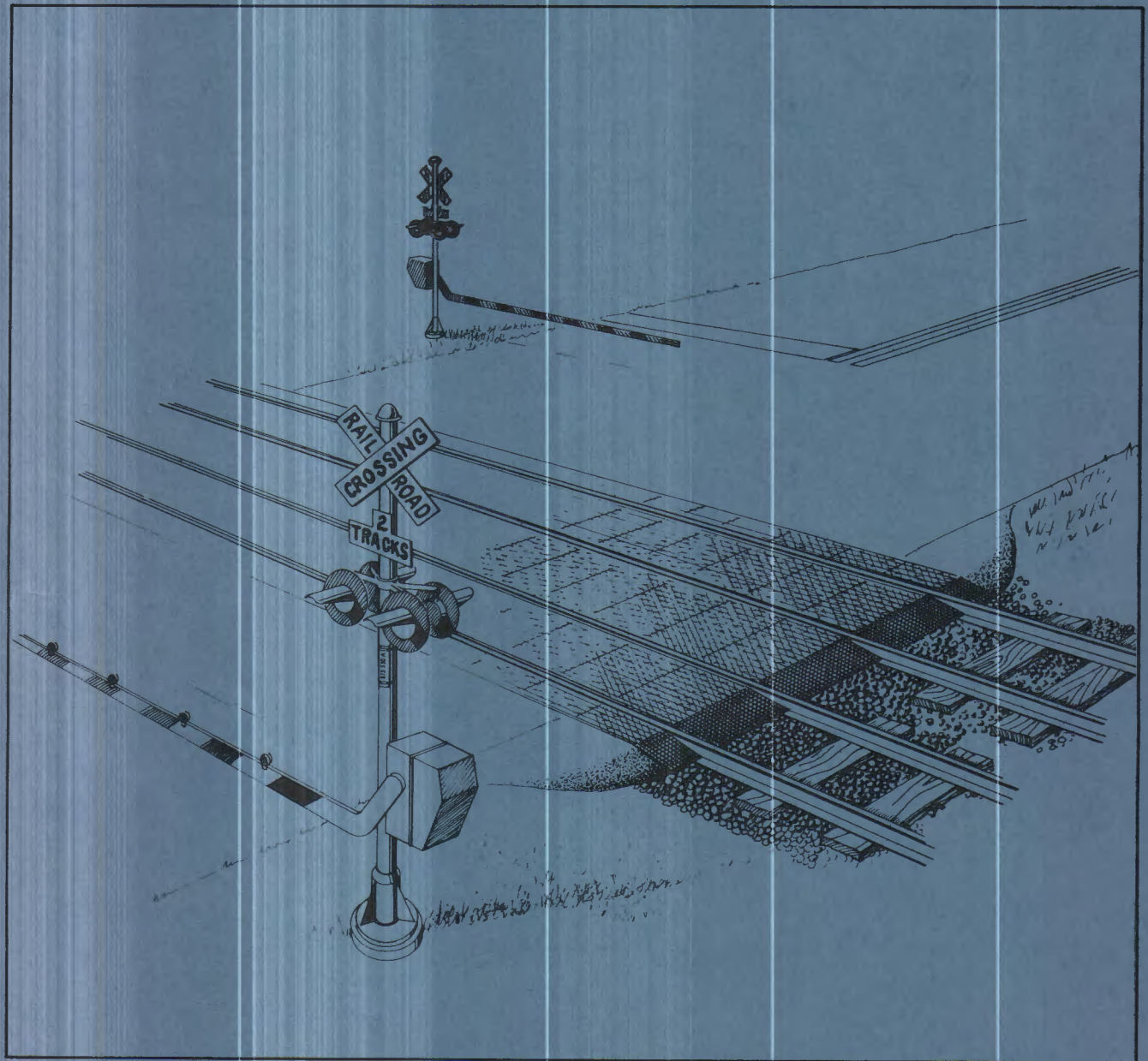
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LIST OF ABBREVIATIONS

ACC /INC	-	accident /incident
A/I	-	accident /incident
CONT	-	contractor employee
ENOD	-	employee not on duty
EOD	-	employee on duty
FA	-	Federal aid
HWY	-	highway
INJ	-	injury or casualty
K	-	thousands
KLD	-	killed
MUTCD	-	Manual on Uniform Traffic Control Devices
LOCO(S)	-	locomotive
NONT	-	non-trespasser
PSGR	-	passenger
SIG	-	signal
TRES	-	trespasser
VEH REG	-	vehicles registered

INTRODUCTION

This ninth annual report, issued by the Federal Railroad Administration (FRA) Office of Safety, combines rail-highway crossing accident/incident statistics with the National Rail-Highway Crossing Inventory. Accident/Incident data comprising accident/incident reports filed by all railroads were gathered from the FRA's Railroad Accident/Incident Reporting System (RAIRS). The National Rail-Highway Crossing Inventory contains sight-survey data about all U.S. rail-highway crossings.

The Federal Railroad Safety Act of 1970 (P. L. 91-458) and the Accident Reports Act (45 U.S.C. 38-34) require railroads to file accident/incident reports with the FRA. The National Rail-Highway Crossing Inventory was developed in response to the Federal Railroad Safety Act of 1970 and the Federal Highway Safety Acts of 1970 and 1973, requiring the Secretary of Transportation to work towards improving safety at rail-highway crossings.

Because of major revisions in reporting requirements, it is not possible to compare data collected after January 1, 1975, with information from prior years. These changes have resulted in an increase in the number of reported rail-highway accidents/incidents; casualty reports have also been increased but to a lesser extent. (Appendix A discusses current reporting requirements.)

* * * * *

Section 1 presents historical data on rail-highway crossing accidents/incidents for 1981 through 1986.

Section 2 contains 1986 accident/incident statistics obtained from the rail-highway crossing accident/incident file and the railroad casualty file.

Section 3 combines information from the rail-highway crossing accident/incident file with data in the National Rail-Highway Crossing Inventory and highlights relationships between certain grade-crossing characteristics and accident frequencies.

Section 4 gives the physical and operational statistics for all public, at-grade rail-highway crossings, described in the National Inventory, May 23, 1987.

The tables and figures in Sections 1, 2, 3, 4, and Appendix C furnish data on public rail-highway crossings. Appendix D and tables 33 and 34 present data on private crossings. Tables 1, 3, 7a, 9, 13, D-3, and figures 1 and 3 pertain to crossing accidents/incidents involving all types of highway users (bicycles, pedestrians, etc.). All the other tables show only those accidents/incidents in which motor vehicles are involved. Table S, a summary of all accidents and incidents at every public and private crossing, follows.

TABLE — S
SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1986

Type of CrossingTotal.....		Motor Vehicles.....		Non-Motor Vehicles.....		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	5,868	578	2,328	5,620	507	2,227	248	71	101
Private	528	38	130	489	32	119	39	6	11
Total	6,396	616	2,458	6,109	539	2,346	287	77	112

1. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS: HISTORICAL DATA, LAST SIX YEARS

TABLE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

YEAR	NUMBER OF ACCIDENTS	KILLED	TOTAL INJURED	CASUALTIES	CASUALTIES PER ACCIDENT
1981	8,546	697	3,121	3,818	0.45
1982	7,158	580	2,508	3,088	0.43
1983	6,562	542	2,467	3,009	0.46
1984	6,633	610	2,723	3,333	0.50
1985	6,353	537	2,508	3,045	0.48
1986	5,868	578	2,328	2,906	0.50

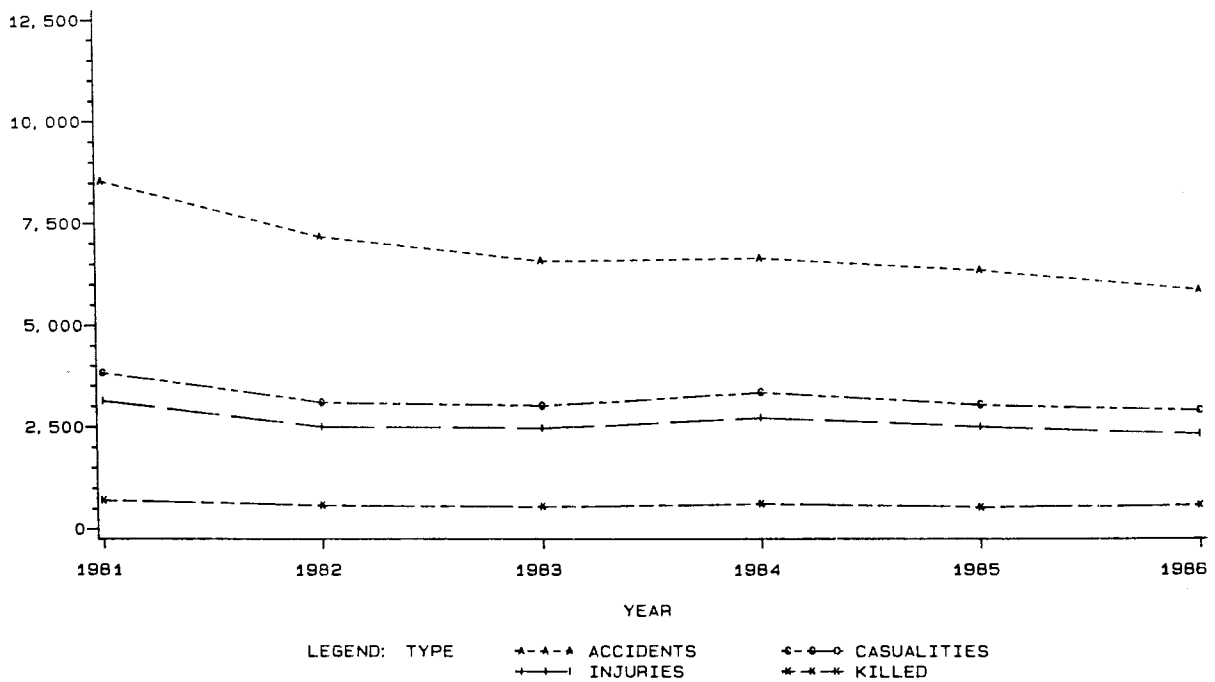


FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

TABLE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES, LAST SIX YEARS

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000) ¹	ACCIDENTS PER MILLION VEHICLES
1981	8,232	163,530	50.34
1982	6,882	164,660	41.80
1983	6,272	168,822	37.15
1984	6,370	173,583	36.70
1985	6,093	171,324	35.56
1986	5,620	176,468	31.85

¹Figures supplied by the Federal Highway Administration

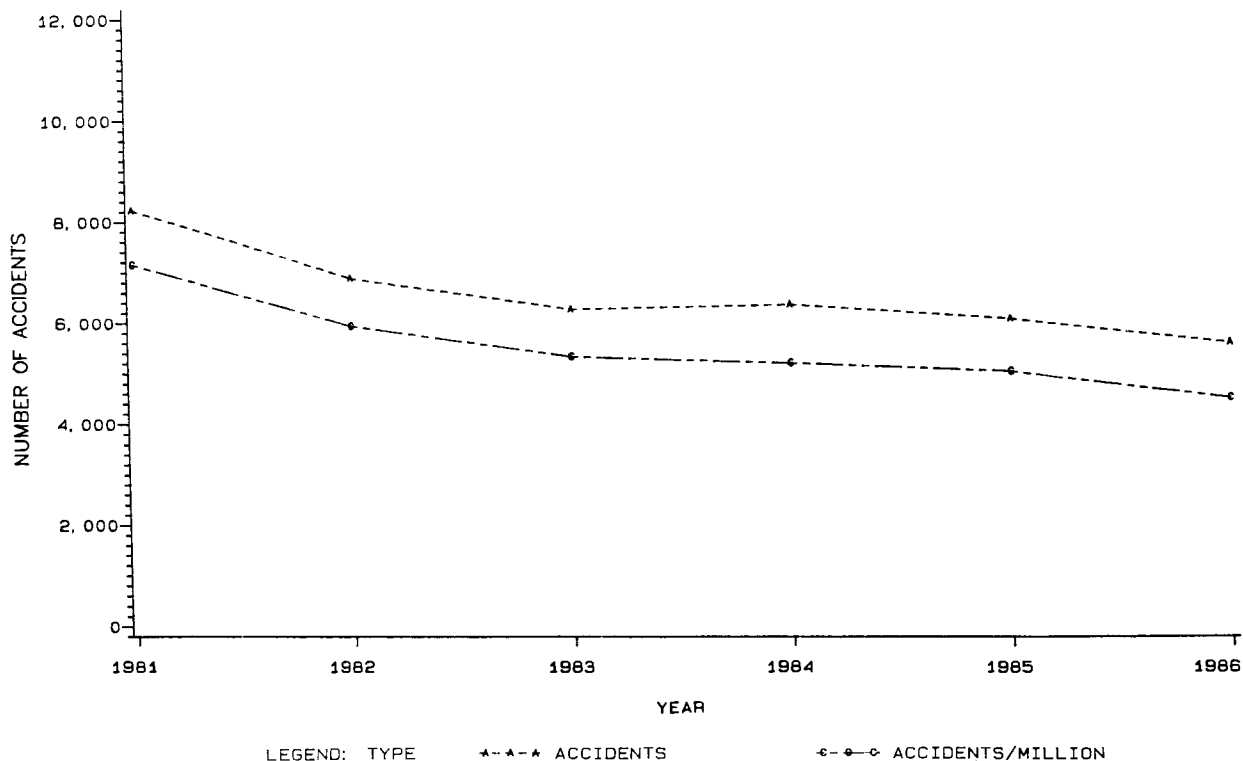


FIGURE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, LAST SIX YEARS

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1986

STATE AND RAILROAD DATA

TABLE 3. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY STATE

Public — Motor Vehicle & Non-Motor Vehicle

State	No. Of Acc/Inc	---Killed---		---Injured---		Total ---Casualties---	
		No.	%	No.	%	No.	%
Alabama.....	176	15	2.60	73	3.14	88	3.03
Alaska.....	11	1	.17	9	.39	10	.34
Arizona.....	44	4	.69	14	.60	18	.62
Arkansas.....	147	20	3.46	62	2.66	82	2.82
California.....	270	33	5.71	67	2.88	100	3.44
Colorado.....	64	5	.87	24	1.03	29	1.00
Connecticut.....	13	4	.69	5	.21	9	.31
Delaware.....	14	5	.87	6	.26	11	.38
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	186	23	3.98	58	2.49	81	2.79
Georgia.....	206	10	1.73	88	3.78	98	3.37
Idaho.....	40	4	.69	12	.52	16	.55
Illinois.....	411	55	9.52	177	7.60	232	7.98
Indiana.....	361	32	5.54	198	8.51	230	7.91
Iowa.....	125	7	1.21	52	2.23	59	2.03
Kansas.....	110	22	3.81	41	1.76	63	2.17
Kentucky.....	112	6	1.04	30	1.29	36	1.24
Louisiana.....	294	21	3.63	135	5.80	156	5.37
Maine.....	12	2	.35	2	.09	4	.14
Maryland.....	34	3	.52	14	.60	17	.58
Massachusetts....	33	3	.52	14	.60	17	.58
Michigan.....	243	21	3.63	87	3.74	108	3.72
Minnesota.....	135	12	2.08	46	1.98	58	2.00
Mississippi.....	156	12	2.08	61	2.62	73	2.51
Missouri.....	144	24	4.15	72	3.09	96	3.30
Montana.....	18	4	.69	5	.21	9	.31
Nebraska.....	81	10	1.73	36	1.55	46	1.58
Nevada.....	6	---	---	1	.04	1	.03
New Hampshire.....	7	---	---	---	---	---	---
New Jersey.....	43	1	.17	14	.60	15	.52
New Mexico.....	14	2	.35	4	.17	6	.21
New York.....	90	9	1.56	18	.77	27	.93
North Carolina...	158	17	2.94	99	4.25	116	3.99
North Dakota.....	21	4	.69	2	.09	6	.21
Ohio.....	396	55	9.52	136	5.84	191	6.57
Oklahoma.....	144	11	1.90	68	2.92	79	2.72
Oregon.....	52	7	1.21	16	.69	23	.79
Pennsylvania.....	128	9	1.56	42	1.80	51	1.75
Rhode Island.....	6	---	---	1	.04	1	.03
South Carolina...	121	13	2.25	59	2.53	72	2.48
South Dakota.....	17	---	---	3	.13	3	.10
Tennessee.....	135	7	1.21	54	2.32	61	2.10
Texas.....	638	44	7.61	279	11.98	323	11.11
Utah.....	43	4	.69	16	.69	20	.69
Vermont.....	3	---	---	1	.04	1	.03
Virginia.....	100	6	1.04	39	1.68	45	1.55
Washington.....	81	8	1.38	16	.69	24	.83
West Virginia....	56	5	.87	16	.69	21	.72
Wisconsin.....	165	18	3.11	56	2.41	74	2.55
Wyoming.....	4	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---
Total.....	5,868	578	100.00	2,328	100.00	2,906	100.00

TABLE 4. ACCIDENTS/INCIDENTS AND CASUALTY RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE

State	No. Of Acc/Inc	-----Casualties-----			Vehicles Registered	--Per 10,000 Registration--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj
Alabama.....	169	13	70	83	3,400,930	.50	.04	.21
Alaska.....	11	1	9	10	362,976	.30	.03	.25
Arizona.....	44	4	14	18	2,317,727	.19	.02	.06
Arkansas.....	140	18	60	78	1,412,585	.99	.13	.42
California.....	253	27	62	89	19,612,115	.13	.01	.03
Colorado.....	61	4	24	28	2,869,492	.21	.01	.08
Connecticut.....	12	2	5	7	2,523,824	.05	.01	.02
Delaware.....	14	5	6	11	475,082	.29	.11	.13
Dist. of Columbia	---	---	---	---	330,724	---	---	---
Florida.....	178	22	52	74	10,096,849	.18	.02	.05
Georgia.....	203	10	86	96	4,694,101	.43	.02	.18
Idaho.....	37	4	10	14	902,932	.41	.04	.11
Illinois.....	380	43	163	206	7,948,878	.48	.05	.21
Indiana.....	351	30	196	226	4,157,710	.84	.07	.47
Iowa.....	115	5	51	56	2,960,592	.39	.02	.17
Kansas.....	103	22	38	60	2,243,561	.46	.10	.17
Kentucky.....	108	5	28	33	2,656,571	.41	.02	.11
Louisiana.....	285	17	133	150	3,069,574	.93	.06	.43
Maine.....	12	2	2	4	887,015	.14	.02	.02
Maryland.....	34	3	14	17	3,343,221	.10	.01	.04
Massachusetts....	31	2	13	15	3,856,878	.08	.01	.03
Michigan.....	238	20	84	104	6,951,025	.34	.03	.12
Minnesota.....	129	12	44	56	3,558,360	.36	.03	.12
Mississippi.....	152	10	59	69	1,772,315	.86	.06	.33
Missouri.....	139	24	68	92	3,641,069	.38	.07	.19
Montana.....	18	4	5	9	678,079	.27	.06	.07
Nebraska.....	77	9	36	45	1,299,918	.59	.07	.28
Nevada.....	4	---	---	---	729,267	.05	---	---
New Hampshire.....	7	---	---	---	1,035,606	.07	---	---
New Jersey.....	43	1	14	15	5,036,366	.09	---	.03
New Mexico.....	13	2	4	6	1,220,723	.11	.02	.03
New York.....	82	4	17	21	9,287,745	.09	---	.02
North Carolina...	149	17	94	111	4,518,151	.33	.04	.21
North Dakota.....	19	2	2	4	685,723	.28	.03	.03
Ohio.....	377	48	124	172	8,379,113	.45	.06	.15
Oklahoma.....	140	10	64	74	2,970,164	.47	.03	.22
Oregon.....	47	2	10	12	2,288,306	.21	.01	.04
Pennsylvania.....	124	9	38	47	7,428,238	.17	.01	.05
Rhode Island.....	6	---	1	1	636,259	.09	---	.02
South Carolina...	117	12	56	68	2,259,122	.52	.05	.25
South Dakota.....	17	---	3	3	688,337	.25	---	.04
Tennessee.....	130	7	52	59	3,856,914	.34	.02	.13
Texas.....	620	44	276	320	12,725,214	.49	.03	.22
Utah.....	42	3	16	19	1,153,976	.36	.03	.14
Vermont.....	3	---	1	1	419,154	.07	---	.02
Virginia.....	94	3	38	41	4,336,209	.22	.01	.09
Washington.....	79	8	15	23	3,665,189	.22	.02	.04
West Virginia....	56	5	16	21	1,213,489	.46	.04	.13
Wisconsin.....	153	12	54	66	3,390,063	.45	.04	.16
Wyoming.....	4	---	---	---	520,359	.08	---	---
Unknown.....	---	---	---	---	---	---	---	---
Total.....	5,620	507	2,227	2,734	176,467,790	.32	.03	.13

Note: Vehicle registration figures are for 1985 and were supplied by the Federal Highway Administration. Registration figures for Hawaii are omitted because it does not have any reporting railroads.

TABLE 5. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF MOTOR VEHICLE

State	Automobile			Truck			Truck Trailer			Bus			School Bus			Motorcycle		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	123	11	49	29	2	18	17	---	3	---	---	---	---	---	---	---	---	---
Alaska.....	9	1	9	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	25	3	7	12	1	5	5	---	---	---	---	---	---	---	2	---	2	
Arkansas.....	90	17	39	39	1	21	11	---	---	---	---	---	---	---	---	---	---	
California.....	183	19	41	44	3	7	17	3	8	1	---	---	---	---	8	2	6	
Colorado.....	41	3	19	17	1	5	2	---	---	---	---	---	---	---	1	---	---	
Connecticut.....	8	1	5	3	1	---	1	---	---	---	---	---	---	---	---	---	---	
Delaware.....	7	5	4	3	---	2	3	---	---	1	---	---	---	---	---	---	---	
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Florida.....	129	18	38	35	2	11	12	---	2	---	---	---	---	---	2	2	1	
Georgia.....	115	9	37	58	---	17	26	---	8	1	---	---	1	---	23	2	1	
Idaho.....	19	1	9	13	2	1	4	---	---	---	---	---	---	---	1	1	---	
Illinois.....	297	36	130	50	7	20	28	---	10	3	---	2	---	---	2	---	1	
Indiana.....	274	23	116	57	6	18	15	---	60	---	---	---	---	---	5	1	2	
Iowa.....	77	5	35	27	---	11	9	---	2	---	---	---	---	---	2	---	3	
Kansas.....	60	10	18	25	6	8	18	6	12	---	---	---	---	---	---	---	---	
Kentucky.....	77	3	19	23	2	5	8	---	4	---	---	---	---	---	---	---	---	
Louisiana.....	192	11	95	69	5	31	22	1	7	---	---	---	---	---	2	---	---	
Maine.....	8	2	1	2	---	---	2	---	1	---	---	---	---	---	---	---	---	
Maryland.....	21	3	12	10	---	2	3	---	---	---	---	---	---	---	---	---	---	
Massachusetts....	24	2	8	1	---	---	5	---	5	---	---	---	---	---	1	---	---	
Michigan.....	178	13	64	43	3	16	10	1	2	1	---	---	---	---	6	3	2	
Minnesota.....	99	12	37	24	---	5	3	---	---	---	---	---	---	---	3	---	2	
Mississippi.....	99	6	39	34	3	15	16	---	4	---	---	1	---	---	2	1	1	
Missouri.....	87	19	41	36	2	21	14	2	6	1	---	---	---	---	1	1	---	
Montana.....	8	4	3	7	---	2	3	---	---	---	---	---	---	---	---	---	---	
Nebraska.....	47	5	17	18	4	12	10	---	4	---	---	---	---	---	2	---	3	
Nevada.....	3	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	
New Hampshire.....	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
New Jersey.....	38	1	14	4	---	---	1	---	---	---	---	---	---	---	---	---	---	
New Mexico.....	4	---	---	9	2	4	---	---	---	---	---	---	---	---	---	---	---	
New York.....	62	3	11	15	---	5	3	---	1	1	---	---	---	---	1	1	---	
North Carolina...	102	12	62	37	4	22	9	1	4	---	---	1	---	6	---	---	---	
North Dakota.....	8	---	---	8	2	1	3	---	1	---	---	---	---	---	---	---	---	
Ohio.....	279	39	99	57	4	18	36	3	7	2	---	---	---	---	3	2	---	
Oklahoma.....	87	8	35	42	2	23	9	---	5	---	---	---	---	---	2	---	1	
Oregon.....	23	---	5	14	1	3	7	---	1	---	---	---	---	---	3	1	1	
Pennsylvania.....	95	9	29	20	---	5	9	---	4	---	---	---	---	---	---	---	---	
Rhode Island.....	5	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
South Carolina...	82	12	41	20	---	10	13	---	4	1	---	1	---	---	1	---	---	
South Dakota.....	11	---	3	4	---	---	2	---	---	---	---	---	---	---	---	---	---	
Tennessee.....	93	4	42	29	3	9	8	---	1	---	---	---	---	---	---	---	---	
Texas.....	392	28	195	172	15	58	55	---	23	---	---	---	---	---	1	1	---	
Utah.....	26	1	13	11	2	2	4	---	---	---	---	---	---	---	1	---	1	
Vermont.....	2	---	---	1	---	1	---	---	---	---	---	---	---	---	---	---	---	
Virginia.....	58	2	22	24	1	14	11	---	2	1	---	---	---	---	---	---	---	
Washington.....	56	7	12	19	1	2	4	---	1	---	---	---	---	---	---	---	---	
West Virginia....	36	2	12	18	3	4	2	---	---	---	---	---	---	---	---	---	---	
Wisconsin.....	118	11	39	27	---	13	7	---	2	---	---	---	---	---	1	1	---	
Wyoming.....	2	---	---	1	---	---	1	---	---	---	---	---	---	---	---	---	---	
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total.....	3,886	381	1,527	1,214	91	447	449	17	194	13	---	3	3	---	29	55	18	27

TABLE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF TRAIN

State	---Freight---			---Passenger---			-Yard Switching			---Other---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	135	9	61	6	2	3	16	1	4	12	1	2
Alaska.....	3	---	4	2	1	4	6	---	1	---	---	---
Arizona.....	27	4	11	---	---	---	10	---	2	7	---	1
Arkansas.....	120	18	57	---	---	---	8	---	2	12	---	1
California.....	170	20	38	27	4	4	26	3	5	30	---	15
Colorado.....	46	4	17	1	---	---	6	---	5	8	---	2
Connecticut.....	3	---	---	9	2	5	---	---	---	---	---	---
Delaware.....	10	5	6	---	---	---	2	---	---	2	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	136	19	44	11	3	2	10	---	2	21	---	4
Georgia.....	158	5	51	1	1	---	26	1	9	18	3	26
Idaho.....	33	4	10	1	---	---	---	---	---	3	---	---
Illinois.....	257	28	125	56	10	17	28	---	3	39	5	18
Indiana.....	279	21	121	21	3	63	21	1	2	30	5	10
Iowa.....	76	5	40	3	---	1	18	---	2	18	---	8
Kansas.....	85	22	38	---	---	---	7	---	---	11	---	---
Kentucky.....	82	5	25	---	---	---	12	---	1	14	---	2
Louisiana.....	201	13	95	6	2	5	42	---	16	36	2	17
Maine.....	11	2	2	1	---	---	---	---	---	---	---	---
Maryland.....	22	2	8	---	---	---	5	---	1	7	1	5
Massachusetts....	19	---	7	9	2	6	2	---	---	1	---	---
Michigan.....	173	18	67	5	1	4	37	---	5	23	1	8
Minnesota.....	99	12	40	---	---	---	15	---	3	15	---	1
Mississippi.....	119	9	44	10	1	6	15	---	4	8	---	5
Missouri.....	111	21	55	2	1	1	14	---	11	12	2	1
Montana.....	18	4	5	---	---	---	---	---	---	---	---	---
Nebraska.....	59	9	33	2	---	---	5	---	---	11	---	3
Nevada.....	3	---	---	---	---	---	1	---	---	---	---	---
New Hampshire.....	6	---	---	---	---	---	---	---	---	1	---	---
New Jersey.....	21	---	6	11	1	6	7	---	---	4	---	2
New Mexico.....	11	2	4	---	---	---	---	---	---	2	---	---
New York.....	55	4	13	18	---	1	2	---	---	7	---	3
North Carolina...	123	17	81	7	---	3	10	---	7	9	---	3
North Dakota.....	11	2	2	---	---	---	3	---	---	5	---	---
Ohio.....	330	47	115	5	---	---	19	---	5	23	1	4
Oklahoma.....	114	9	55	---	---	---	12	---	7	14	1	2
Oregon.....	32	2	10	3	---	---	7	---	---	5	---	---
Pennsylvania.....	96	8	22	7	1	6	6	---	---	15	---	10
Rhode Island.....	2	---	1	2	---	---	2	---	---	---	---	---
South Carolina...	93	12	47	7	---	1	11	---	5	6	---	3
South Dakota.....	11	---	3	---	---	---	1	---	---	5	---	---
Tennessee.....	108	7	45	---	---	---	15	---	6	7	---	1
Texas.....	462	37	218	8	2	2	85	2	35	65	3	21
Utah.....	31	2	15	---	---	---	4	---	---	7	1	1
Vermont.....	2	---	---	---	---	---	---	---	---	1	---	1
Virginia.....	54	3	28	2	---	---	17	---	3	21	---	7
Washington.....	54	8	9	3	---	---	8	---	4	14	---	2
West Virginia....	39	4	10	---	---	---	4	---	---	13	1	6
Wisconsin.....	112	5	43	---	---	---	22	7	4	19	---	7
Wyoming.....	4	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,226	428	1,731	246	37	140	567	15	154	581	27	202

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 7. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD AND WARNING DEVICE CATEGORY

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama Great Southern Railroad.....	3	7	2	1	17	1	---	---	31
Amtrak (National Railroad Passenger Corp.)	53	28	2	---	38	2	---	---	123
Atchison, Topeka and Santa Fe Railway Co..	77	94	4	1	102	---	2	2	282
Bangor And Aroostook Railroad Company.....	---	2	---	---	1	---	---	1	4
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	4	15	---	2	5	1	---	---	27
Burlington Northern.....	61	132	28	4	275	4	---	5	509
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	---	---	---	10	---	---	1	11
Central of Georgia Railroad Company.....	1	7	2	2	19	---	---	---	31
Central Vermont Railway Incorporated.....	1	---	---	---	---	---	---	---	1
Chessie System Railroads.....	46	124	5	4	162	1	---	5	347
Chicago and Northwestern Transportation Co	48	67	10	5	77	1	1	5	214
Chicago And Illinois Midland Railway Co...	---	1	---	---	---	---	---	---	1
Chicago South Shore And South Bend RR.....	5	4	---	---	1	---	---	---	10
Cincinnati, New Orleans & Texas Pacific RR	1	4	1	---	6	---	---	---	12
Consolidated Rail Corporation.....	99	180	19	14	199	6	2	10	529
Delaware and Hudson Railroad Company.....	6	5	---	---	3	---	---	---	14
Denver and Rio Grande Western Railroad Co.	1	10	---	---	14	---	1	---	26
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	1	---	---	1
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	2	---	---	---	2
Elgin, Joliet and Eastern Railway Company.	5	1	---	---	---	---	---	---	6
Florida East Coast Railway Company.....	57	2	---	---	---	---	---	---	59
Georgia Southern And Florida Railway.....	2	3	---	---	7	---	---	---	12
Grand Trunk Western Railroad Company.....	27	26	1	---	25	2	1	4	86
Green Bay And Western Railroad.....	---	2	---	---	6	---	1	1	10
Illinois Central Gulf Railroad.....	17	76	4	5	76	1	2	3	184
Kansas City Southern Railway Company.....	4	19	9	1	17	---	---	1	51
Louisiana & Arkansas Railway Company.....	---	18	8	---	20	---	---	1	47
Maine Central Railroad Company.....	2	1	---	---	3	---	---	---	6
Michigan Interstate Railroad.....	---	1	---	---	---	---	---	---	1
Missouri-Kansas-Texas Railroad Company....	22	29	4	1	34	---	---	---	90
Monogahela Railway.....	---	1	---	---	2	---	---	---	3
Norfolk and Western Railway Company.....	55	113	3	2	153	---	1	1	328
Northwestern Pacific Railroad.....	1	---	---	---	---	1	---	---	2
Oklahoma, Kansas And Texas Railroad Co....	---	3	2	---	3	---	---	---	8
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac.....	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	113	150	35	23	287	4	1	3	616
Soo Line Railroad.....	17	63	4	1	76	---	2	1	164
Southern Pacific Transportation Company...	106	67	29	8	122	11	2	6	351
Southern Railway Company.....	31	80	11	17	165	---	---	10	314
Spokane International Railroad.....	---	---	---	---	3	---	---	---	3
St. Louis Southwestern Railway Company....	12	22	8	1	48	1	---	---	92
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	5	---	---	8	---	---	---	13
Union Pacific Railroad.....	95	223	22	11	317	5	4	2	679
All Other Railroads.....	57	130	38	18	155	2	4	6	410
Total.....	1,029	1,715	251	121	2,458	44	24	68	5,710

Note: "Special" are crossings protected by watchmen or members of train crew.

The totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

TABLE 7A. ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	31	3	8	4	2	1	35	5	9
Amtrak (National Railroad Passenger Corp.)	123	2	5	11	3	---	134	5	5
Atchison, Topeka and Santa Fe Railway Co..	282	34	98	15	---	4	297	34	102
Bangor And Aroostook Railroad Company.....	4	---	1	---	---	---	4	---	1
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	27	2	6	1	---	1	28	2	7
Burlington Northern.....	509	65	199	24	10	6	533	75	205
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	11	2	15	2	---	1	13	2	16
Central of Georgia Railroad Company.....	31	2	23	---	---	---	31	2	23
Central Vermont Railway Incorporated.....	1	---	---	---	---	---	1	---	---
Chessie System Railroads.....	347	33	153	5	2	2	352	35	155
Chicago and Northwestern Transportation Co...	214	12	81	12	3	3	226	15	84
Chicago And Illinois Midland Railway Co...	1	---	---	---	---	---	1	---	---
Chicago South Shore And South Bend RR.....	10	---	61	---	---	---	10	---	61
Cincinnati, New Orleans & Texas Pacific RR	12	---	4	---	---	---	12	---	4
Consolidated Rail Corporation.....	529	46	119	8	2	3	537	48	122
Delaware and Hudson Railroad Company.....	14	4	5	---	---	---	14	4	5
Denver and Rio Grande Western Railroad Co.	26	1	11	1	1	---	27	2	11
Duluth Winnipeg And Pacific Railway Co....	1	---	---	---	---	---	1	---	---
Duluth, Missabe and Iron Range Railway Co.	2	---	---	---	---	---	2	---	---
Elgin, Joliet and Eastern Railway Company.	6	---	5	---	---	---	6	---	5
Florida East Coast Railway Company.....	59	7	18	3	---	2	62	7	20
Georgia Southern And Florida Railway.....	12	---	2	1	---	1	13	---	3
Grand Trunk Western Railroad Company.....	86	9	34	7	2	4	93	11	38
Green Bay And Western Railroad.....	10	---	3	1	---	---	11	---	3
Illinois Central Gulf Railroad.....	184	13	95	16	4	9	200	17	104
Kansas City Southern Railway Company.....	51	1	21	1	---	---	52	1	21
Louisiana & Arkansas Railway Company.....	47	8	17	1	2	2	48	10	19
Maine Central Railroad Company.....	6	2	1	---	---	---	6	2	1
Michigan Interstate Railroad.....	1	---	1	---	---	---	1	---	1
Missouri-Kansas-Texas Railroad Company....	90	6	27	3	---	1	93	6	28
Monogahela Railway.....	3	---	---	---	---	---	3	---	---
Norfolk and Western Railway Company.....	328	28	150	27	9	17	355	37	167
Northwestern Pacific Railroad.....	2	---	---	1	1	---	3	1	---
Oklahoma, Kansas And Texas Railroad Co....	8	1	3	---	---	---	8	1	3
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	616	54	238	18	2	11	634	56	249
Soo Line Railroad.....	164	12	62	16	5	5	180	17	67
Southern Pacific Transportation Company...	351	25	108	19	9	8	370	34	116
Southern Railway Company.....	314	25	137	13	1	6	327	26	143
Spokane International Railroad.....	3	3	1	---	---	---	3	3	1
St. Louis Southwestern Railway Company....	92	17	16	1	---	---	93	17	16
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	13	---	9	---	---	---	13	---	9
Union Pacific Railroad.....	679	75	348	28	6	10	707	81	358
All Other Railroads.....	410	15	142	16	7	4	426	22	146
Total.....	5,710	507	2,227	255	71	101	5,965	578	2,328

Note: A/I totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

TABLE 8. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND WARNING DEVICE CATEGORY

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	11	43	15	7	90	2	---	1	169
Alaska.....	---	5	---	---	5	---	---	1	11
Arizona.....	9	17	3	---	13	1	1	---	44
Arkansas.....	15	45	11	3	65	1	---	---	140
California.....	121	47	19	6	49	8	2	1	253
Colorado.....	6	20	3	---	32	---	---	---	61
Connecticut.....	1	9	1	1	---	---	---	---	12
Delaware.....	---	9	1	1	2	1	---	---	14
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	105	32	2	1	37	---	1	---	178
Georgia.....	32	33	14	12	107	2	---	3	203
Idaho.....	2	2	2	1	29	1	---	---	37
Illinois.....	130	139	5	2	95	1	2	6	380
Indiana.....	72	126	12	5	133	---	1	2	351
Iowa.....	14	35	5	1	57	1	1	1	115
Kansas.....	13	18	4	2	65	1	---	---	103
Kentucky.....	13	47	4	4	39	---	---	1	108
Louisiana.....	21	100	29	4	123	1	---	7	285
Maine.....	2	4	---	---	4	1	---	1	12
Maryland.....	6	8	2	---	18	---	---	---	34
Massachusetts....	5	17	1	2	1	---	1	4	31
Michigan.....	34	109	3	---	85	3	1	3	238
Minnesota.....	9	26	5	3	80	3	1	2	129
Mississippi.....	3	37	17	9	81	1	2	2	152
Missouri.....	18	41	8	3	67	---	1	1	139
Montana.....	5	2	---	---	11	---	---	---	18
Nebraska.....	13	23	6	---	34	---	---	1	77
Nevada.....	3	---	---	---	1	---	---	---	4
New Hampshire.....	---	3	---	---	4	---	---	---	7
New Jersey.....	13	20	2	4	2	---	1	1	43
New Mexico.....	2	3	---	---	8	---	---	---	13
New York.....	30	12	3	3	29	4	---	1	82
North Carolina...	18	27	3	7	92	---	---	2	149
North Dakota.....	3	3	---	---	13	---	---	---	19
Ohio.....	50	107	8	2	206	---	1	3	377
Oklahoma.....	12	55	8	1	61	1	---	2	140
Oregon.....	11	1	4	2	23	4	2	---	47
Pennsylvania.....	17	37	4	6	56	1	---	3	124
Rhode Island.....	1	2	1	2	---	---	---	---	6
South Carolina...	8	23	7	6	72	---	---	1	117
South Dakota.....	---	6	---	---	11	---	---	---	17
Tennessee.....	16	37	6	6	59	---	---	6	130
Texas.....	100	212	14	8	277	2	3	4	620
Utah.....	5	11	---	1	22	1	1	1	42
Vermont.....	1	---	---	---	2	---	---	---	3
Virginia.....	20	30	3	3	35	---	---	3	94
Washington.....	6	21	2	1	48	---	---	1	79
West Virginia....	10	22	1	1	21	---	---	1	56
Wisconsin.....	6	68	12	1	63	---	2	1	153
Wyoming.....	---	---	---	---	2	1	---	1	4
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	992	1,694	250	121	2,429	42	24	68	5,620

Note: "Special" are crossings protected by watchmen or members of train crew

HIGHWAY USER AND VEHICLE DATA

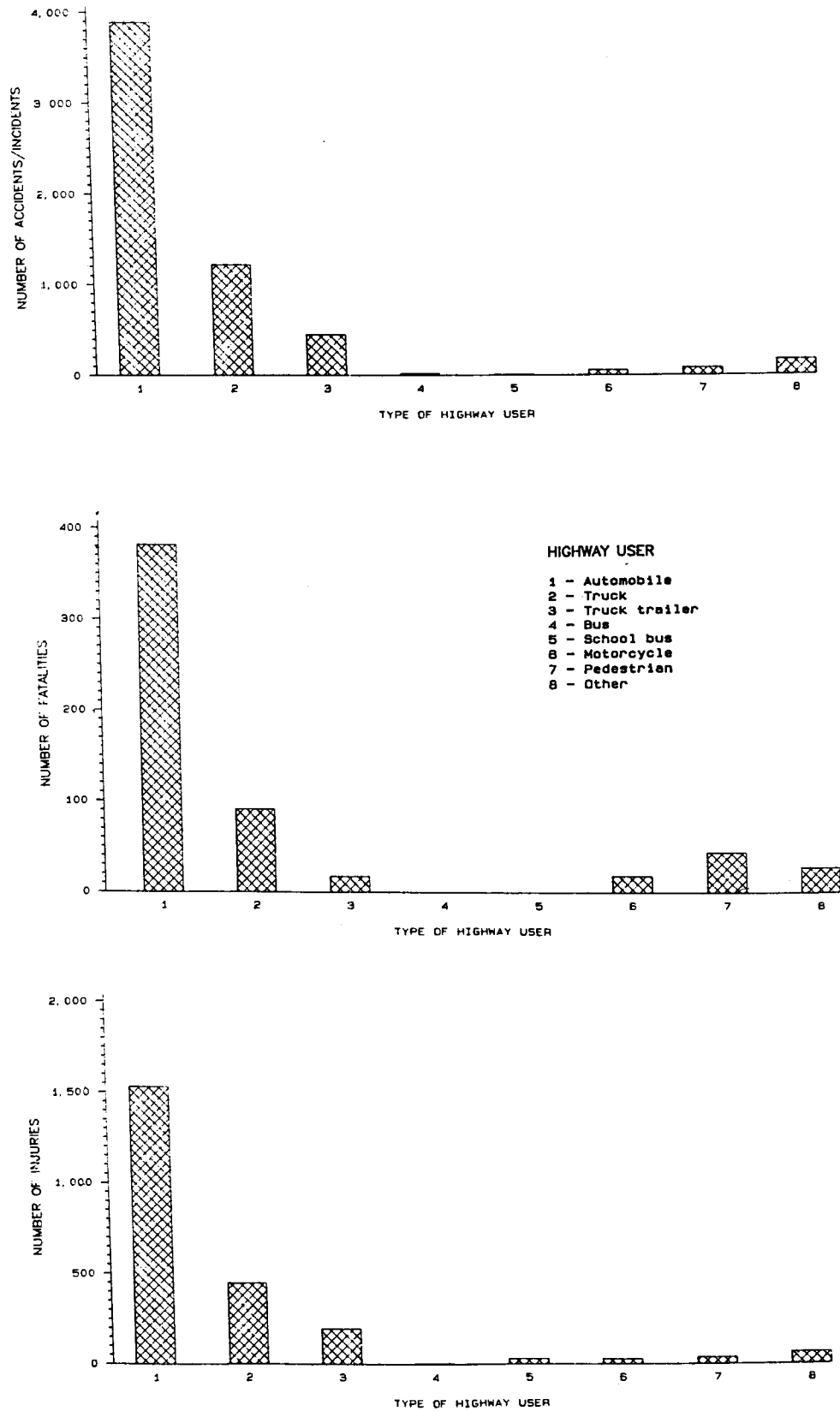


FIGURE 3. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

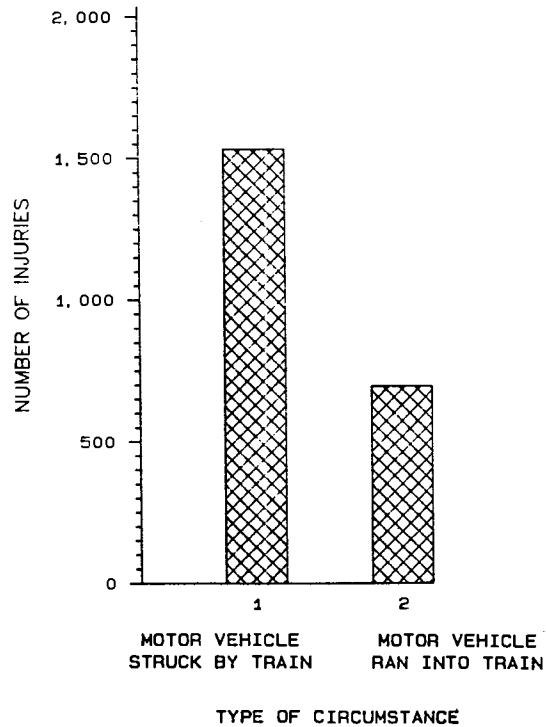
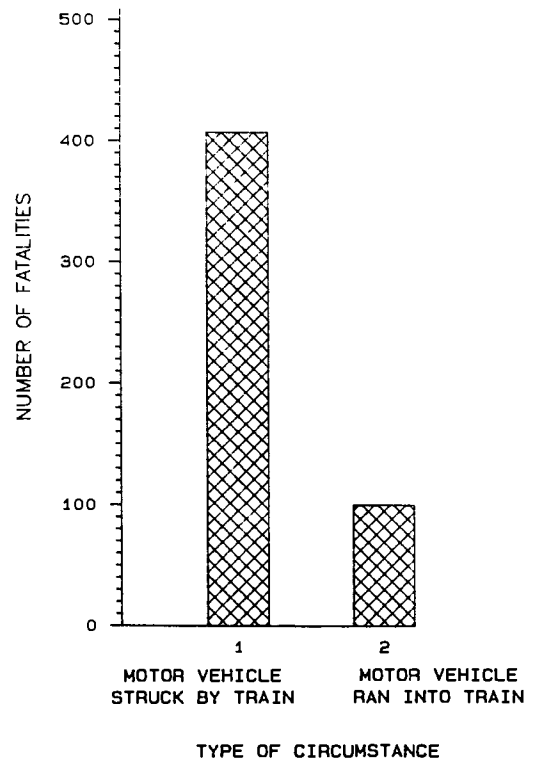
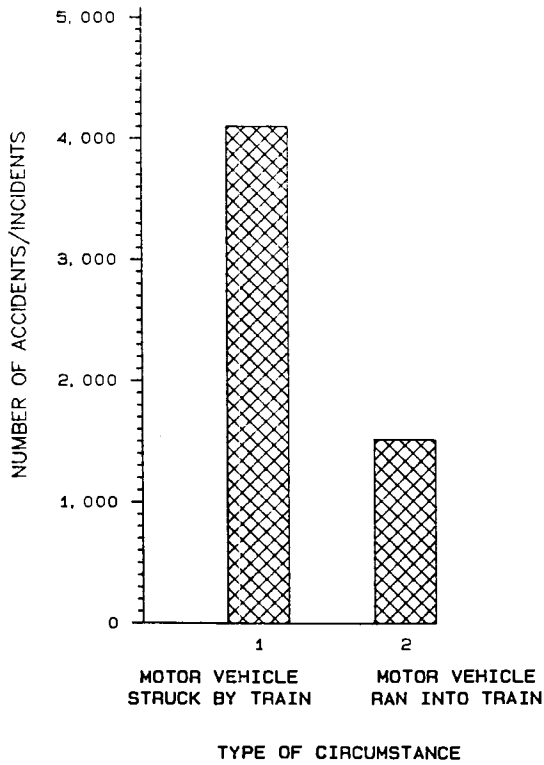


FIGURE 4. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

TABLE 9. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	3,886	66.22	381	65.92	1,527	65.59	285	1,058
Truck.....	1,214	20.69	91	15.74	447	19.20	85	355
Truck-trailer....	449	7.65	17	2.94	194	8.33	14	104
Bus.....	13	.22	---	---	3	.13	---	3
School bus.....	3	.05	---	---	29	1.25	---	2
Motorcycle.....	55	.94	18	3.11	27	1.16	15	24
Pedestrian.....	80	1.36	44	7.61	36	1.55	43	36
Other.....	168	2.86	27	4.67	65	2.79	19	43
Total.....	5,868	100.00	578	100.00	2,328	100.00	461	1,625

TABLE 10. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

Circumstance	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Struck by consist	4,105	73.04	407	80.28	1,531	68.75	324	1,025
Ran into consist.	1,515	26.96	100	19.72	696	31.25	75	521
Total.....	5,620	100.00	507	100.00	2,227	100.00	399	1,546

TABLE 11. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE OF VEHICLE, NUMBER OF OCCUPANTS, CASUALTY RATES, DAMAGE RATES, AND ACCIDENT RATES

Vehicle	# of A/I	# of Occupants	Occupants Per A/I	Killed	Killed Per A/I	injured	Injured Per A/I	Vehicle Damage	Damage Per A/I
Automobile...	3,886	4,913	1.26	380	.10	1,506	.39	6,949,532	1,788
Truck.....	1,214	1,452	1.20	91	.07	428	.35	3,768,627	3,104
Truck-trailer	449	443	.99	15	.03	92	.20	3,856,107	8,588
Bus.....	13	55	4.23	0	.00	3	.23	33,300	2,562
School bus...	3	36	12.00	0	.00	29	9.67	13,500	4,500
Motorcycle...	55	63	1.15	18	.33	27	.49	45,360	825
Total	5,620	6,962	1.24	504	.09	2,085	.37	14,666,426	2,610

TABLE 12. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY

VISIBILITY

Type Of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER												
Automobile.....	73	10	28	1,413	169	556	124	16	39	1,212	124	418
Truck.....	27	1	8	553	42	209	33	3	9	256	27	65
Truck-trailer....	14	1	1	294	8	90	11	2	3	67	1	68
Bus.....	---	---	---	6	---	1	---	---	---	3	---	---
School bus.....	---	---	---	3	---	29	---	---	---	---	---	---
Motorcycle.....	---	---	---	9	1	4	---	---	---	7	2	3
Total.....	114	12	37	2,278	220	889	168	21	51	1,545	154	554
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	28	---	17	435	10	179	29	---	5	572	52	285
Truck.....	9	1	4	164	9	76	9	2	4	163	6	72
Truck-trailer....	---	---	---	45	4	21	4	---	2	14	1	9
Bus.....	2	---	1	1	---	---	---	---	---	1	---	1
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	1	---	1	18	8	6	1	2	---	19	5	13
Total.....	40	1	23	663	31	282	43	4	11	769	64	380
GRAND TOTAL												
Automobile.....	101	10	45	1,848	179	735	153	16	44	1,784	176	703
Truck.....	36	2	12	717	51	285	42	5	13	419	33	137
Truck-trailer....	14	1	1	339	12	111	15	2	5	81	2	77
Bus.....	2	---	1	7	---	1	---	---	---	4	---	1
School bus.....	---	---	---	3	---	29	---	---	---	---	---	---
Motorcycle.....	1	---	1	27	9	10	1	2	---	26	7	16
Total.....	154	13	60	2,941	251	1,171	211	25	62	2,314	218	934

TABLE 13. CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON INVOLVED, TYPE OF HIGHWAY USER, AND CIRCUMSTANCE

Type Of Vehicle	TYPE OF PERSON														Total		
	EOD		ENOD		PSGR		NONT		TRES		CONT		Kld	Inj	A/I		
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj					
RAIL CONSIST STRUCK HIGHWAY USER																	
Automobile.....	---	15	---	---	---	2	261	899	58	125	---	---	319	1,041	2,822		
Truck.....	---	12	---	---	---	---	60	257	13	22	---	---	73	291	869		
Truck-trailer....	---	40	---	---	---	61	10	55	2	6	---	---	12	162	386		
Bus.....	---	---	---	---	---	---	---	1	---	---	---	---	---	1	9		
School bus.....	---	---	---	---	---	---	---	29	---	---	---	---	---	29	3		
Motorcycle.....	---	---	---	---	---	2	5	1	2	---	---	---	3	7	16		
Pedestrian.....	---	---	---	---	---	---	15	19	29	14	---	---	44	33	77		
Other.....	---	2	---	---	---	---	17	42	5	1	---	---	22	45	130		
Total.....	---	69	---	---	---	63	365	1,307	108	170	---	---	473	1,609	4,312		
HIGHWAY USER STRUCK RAIL CONSIST																	
Automobile.....	---	4	---	---	---	---	57	431	5	51	---	---	62	486	1,064		
Truck.....	---	5	---	---	---	---	16	144	2	7	---	---	18	156	345		
Truck-trailer....	2	4	---	---	---	---	3	26	---	2	---	---	5	32	63		
Bus.....	---	---	---	---	---	---	---	1	---	1	---	---	---	2	4		
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Motorcycle.....	---	---	---	---	---	---	12	16	3	4	---	---	15	20	39		
Pedestrian.....	---	---	---	---	---	---	---	---	---	3	---	---	---	3	3		
Other.....	---	---	---	---	---	---	5	19	---	1	---	---	5	20	38		
Total.....	2	13	---	---	---	---	93	637	10	69	---	---	105	719	1,556		
GRAND TOTAL																	
Automobile.....	---	19	---	---	---	2	318	1,330	63	176	---	---	381	1,527	3,886		
Truck.....	---	17	---	---	---	---	76	401	15	29	---	---	91	447	1,214		
Truck-trailer....	2	44	---	---	---	61	13	81	2	8	---	---	17	194	449		
Bus.....	---	---	---	---	---	---	---	2	---	1	---	---	---	3	13		
School bus.....	---	---	---	---	---	---	---	29	---	---	---	---	---	29	3		
Motorcycle.....	---	---	---	---	---	---	14	21	4	6	---	---	18	27	55		
Pedestrian.....	---	---	---	---	---	---	15	19	29	17	---	---	44	36	80		
Other.....	---	2	---	---	---	---	22	61	5	2	---	---	27	65	168		
Total.....	2	82	---	---	---	63	458	1,944	118	239	---	---	578	2,328	5,868		

Note: EOD = Employee on duty ENOD = Employee not on duty
 PSGR = Passenger on train NONT = Nontrespasser
 TRES = Trespasser CONT = Contractor employee

TABLE 14. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY

VISIBILITY

Speed of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	44	1	4	769	37	193	61	5	15	618	21	119	1,492	64	331
1-9.....	18	3	11	496	53	205	36	2	13	214	16	86	764	74	315
10-19.....	18	1	7	406	38	181	27	5	8	231	22	94	682	66	290
20-29.....	10	---	5	221	26	104	19	2	7	174	21	82	424	49	198
30-39.....	16	6	6	141	18	75	7	4	6	91	12	60	255	40	147
40-49.....	2	---	---	58	16	41	4	1	1	48	31	21	112	48	63
50-59.....	---	---	---	35	15	20	1	---	---	20	7	20	56	22	40
60 and over.....	---	---	---	4	---	5	2	2	---	7	3	4	13	5	9
Unknown.....	6	1	4	148	17	65	11	---	1	142	21	68	307	39	138
Total.....	114	12	37	2,278	220	889	168	21	51	1,545	154	554	4,105	407	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	8	---	2	150	1	31	8	---	2	144	6	68	310	7	103
10-19.....	6	---	3	139	5	57	10	---	3	163	4	70	318	9	133
20-29.....	6	---	3	97	2	42	7	---	2	113	1	54	223	3	101
30-39.....	4	---	2	80	2	42	2	---	2	114	11	61	200	13	107
40-49.....	5	---	4	63	4	42	6	---	1	57	6	32	131	10	79
50-59.....	3	---	3	41	9	27	3	1	---	29	15	36	76	25	66
60 and over.....	1	---	2	11	1	8	1	1	---	12	10	9	25	12	19
Unknown.....	7	1	4	82	7	33	6	2	1	137	11	50	232	21	88
Total.....	40	1	23	663	31	282	43	4	11	769	64	380	1,515	100	696
GRAND TOTAL															
Standing.....	44	1	4	769	37	193	61	5	15	618	21	119	1,492	64	331
1-9.....	26	3	13	646	54	236	44	2	15	358	22	154	1,074	81	418
10-19.....	24	1	10	545	43	238	37	5	11	394	26	164	1,000	75	423
20-29.....	16	---	8	318	28	146	26	2	9	287	22	136	647	52	299
30-39.....	20	6	8	221	20	117	9	4	8	205	23	121	455	53	254
40-49.....	7	---	4	121	20	83	10	1	2	105	37	53	243	58	142
50-59.....	3	---	3	76	24	47	4	1	---	49	22	56	132	47	106
60 and over.....	1	---	2	15	1	13	3	3	---	19	13	13	38	17	28
Unknown.....	13	2	8	230	24	98	17	2	2	279	32	118	539	60	226
Total.....	154	13	60	2,941	251	1,171	211	25	62	2,314	218	934	5,620	507	2,227

TABLE 15. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY POSITION AND TYPE OF VEHICLE

Vehicle	-----Position On Crossing-----								
	--Stalled On--			--Stopped On--			--Moving Over--		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Automobile.....	493	12	65	606	44	148	2,787	325	1,314
Truck.....	118	2	11	147	5	32	949	84	404
Truck-trailer....	56	---	64	61	---	9	332	17	121
Bus.....	4	---	---	2	---	1	7	---	2
School bus.....	1	---	---	---	---	---	2	---	29
Motorcycle.....	---	---	---	4	1	1	51	17	26
Total.....	672	14	140	820	50	191	4,128	443	1,896

TRAIN AND TRACK DATA

TABLE 16. ACCIDENT/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN, CIRCUMSTANCE, AND VISIBILITY

VISIBILITY

Speed Of Consist	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	9	---	1	485	---	80	36	---	5	328	4	73	858	4	159
10-19.....	25	1	6	370	3	110	35	1	7	279	10	92	709	15	215
20-29.....	21	1	7	423	17	181	35	2	15	299	19	144	778	39	347
30-39.....	25	3	11	386	39	208	24	4	11	262	35	95	697	81	325
40-49.....	22	6	8	375	78	214	24	8	9	208	48	119	629	140	350
50-59.....	8	---	4	150	52	63	7	4	2	101	27	17	266	83	86
60-69.....	4	1	---	52	18	20	3	---	---	47	8	9	106	27	29
70-79.....	---	---	---	26	13	7	3	2	2	13	3	4	42	18	13
80-89.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	9	---	6	1	---	---	8	---	1	18	---	7
Total.....	114	12	37	2,278	220	889	168	21	51	1,545	154	554	4,105	407	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	3	---	2	19	---	7	1	1	---	84	2	47	107	3	56
1-9.....	10	---	4	179	1	41	16	---	1	281	18	136	486	19	182
10-19.....	8	---	7	129	1	58	9	2	4	144	3	50	290	6	119
20-29.....	6	---	4	113	4	45	7	---	2	104	10	54	230	14	105
30-39.....	4	---	---	104	10	60	2	---	1	73	14	52	183	24	113
40-49.....	7	1	4	85	13	52	6	1	3	47	11	20	145	26	79
50-59.....	2	---	2	16	1	11	---	---	---	11	2	8	29	3	21
60-69.....	---	---	---	7	---	4	---	---	---	5	2	2	12	2	6
70-79.....	---	---	---	3	1	1	---	---	---	---	---	---	3	1	1
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	8	---	3	2	---	---	20	2	11	30	2	14
Total.....	40	1	23	663	31	282	43	4	11	769	64	380	1,515	100	696
GRAND TOTAL															
Standing.....	3	---	2	19	---	7	1	1	---	84	2	47	107	3	56
1-9.....	19	---	5	664	1	121	52	---	6	609	22	209	1,344	23	341
10-19.....	33	1	13	499	4	168	44	3	11	423	13	142	999	21	334
20-29.....	27	1	11	536	21	226	42	2	17	403	29	198	1,008	53	452
30-39.....	29	3	11	490	49	268	26	4	12	335	49	147	880	105	438
40-49.....	29	7	12	460	91	266	30	9	12	255	59	139	774	166	429
50-59.....	10	---	6	166	53	74	7	4	2	112	29	25	295	86	107
60-69.....	4	1	---	59	18	24	3	---	---	52	10	11	118	29	35
70-79.....	---	---	---	29	14	8	3	2	2	13	3	4	45	19	14
80-89.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	17	---	9	3	---	---	28	2	12	48	2	21
Total.....	154	13	60	2,941	251	1,171	211	25	62	2,314	218	934	5,620	507	2,227

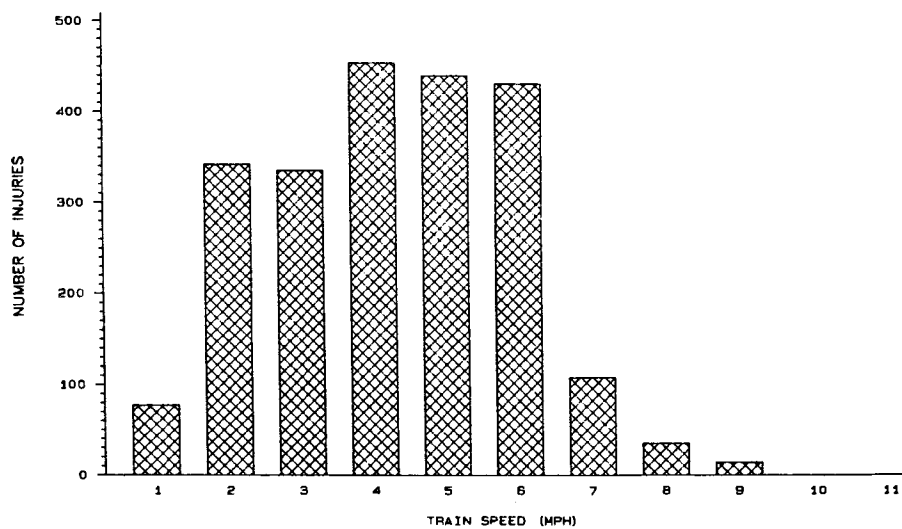
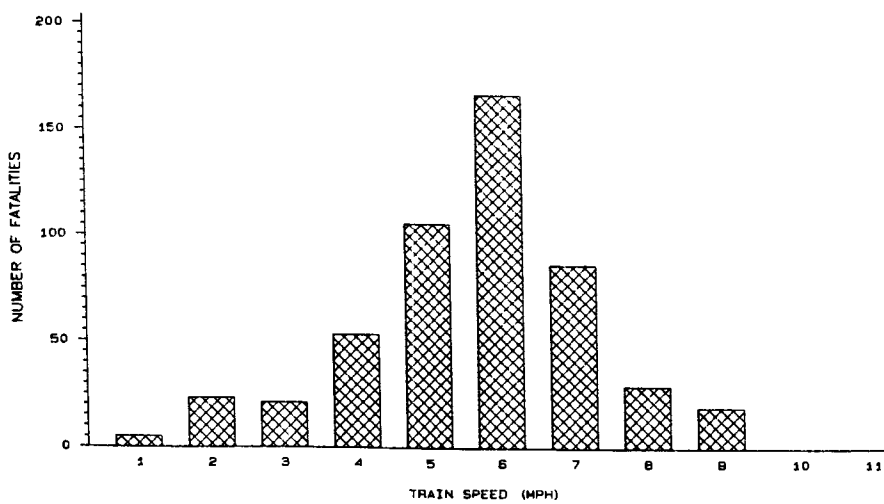
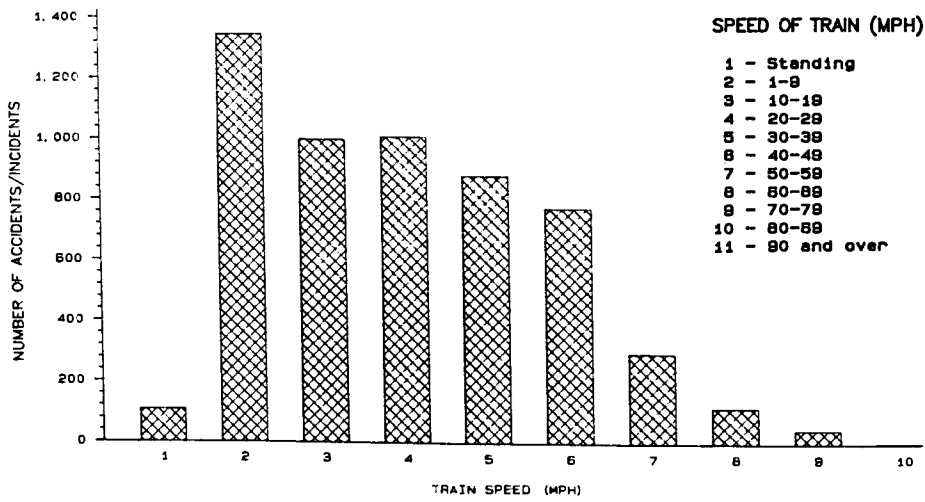


FIGURE 5. ACCIDENTS/ INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

TABLE 17. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD EQUIPMENT INVOLVED, PART OF TRAIN STRUCK, CIRCUMSTANCE, AND VISIBILITY

CIRCUMSTANCE

Type Consist	Consist Struck Vehicle	Vehicle Struck Consist	Lead Unit	Part Of Consist Struck					Unknown	Visibility			
				Quarter				4		Dawn	Day	Dusk	Dark
				1	2	3	4						
Train (Units Pulling).	3,519	1,135	732	154	90	65	71	23	136	2,471	175	1,872	
Train (Units Pushing).	250	118	51	11	16	15	24	1	5	164	15	184	
Train (Standing).....	---	95	17	18	23	16	21	---	3	9	1	82	
Cars (Moving).....	91	53	49	1	---	---	2	1	2	118	5	19	
Cars (Standing).....	---	7	7	---	---	---	---	---	---	7	---	---	
Light Locos (Moving)..	242	101	89	---	---	3	7	2	8	166	15	154	
Light Locos (Standing)	---	5	5	---	---	---	---	---	---	3	---	2	
Other.....	3	1	1	---	---	---	---	---	---	3	---	1	
Total.....	4,105	1,515	951	184	129	99	125	27	154	2,941	211	2,314	

Note: The "Lead" unit is the first unit to occupy the crossing.

TABLE 18. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRAIN SPEED AND TYPE OF TRAIN

Speed Of Consist	Freight			Passenger			Yard Switching			Other			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Standing.....	74	3	46	---	---	---	18	---	9	15	---	1	107	3	56
1-9.....	667	9	177	12	---	1	386	12	89	279	2	74	1,344	23	341
10-19.....	714	16	253	30	---	6	120	2	34	135	3	41	999	21	334
20-29.....	870	50	389	41	---	14	32	---	13	65	3	36	1,008	53	452
30-39.....	798	92	388	36	10	23	6	---	5	40	3	22	880	105	438
40-49.....	723	151	341	29	5	71	1	1	2	21	9	15	774	166	429
50-59.....	258	76	92	25	3	8	---	---	---	12	7	7	295	86	107
60-69.....	87	25	29	31	4	6	---	---	---	---	---	---	118	29	35
70-79.....	10	4	3	34	15	10	---	---	---	1	---	1	45	19	14
80-89.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	25	2	13	6	---	1	4	---	2	13	---	5	48	2	21
Total.....	4,226	428	1,731	246	37	140	567	15	154	581	27	202	5,620	507	2,227

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 19. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY NUMBER OF CARS IN TRAIN AND TYPE OF TRAIN

Number Of Cars	---Freight---			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1-9.....	681	51	280	164	26	70	322	7	91	193	6	75	1,360	90	516
10-19.....	455	38	188	66	10	9	124	2	32	22	1	7	667	51	236
20-29.....	304	22	121	1	---	---	54	---	16	5	---	2	364	22	139
30-39.....	336	57	138	1	---	1	19	---	3	7	---	3	363	57	145
40-49.....	283	45	114	1	---	---	12	---	6	2	---	2	298	45	122
50-59.....	277	21	117	---	---	---	6	---	---	1	---	---	284	21	117
60-69.....	268	43	131	---	---	---	5	6	2	2	---	1	275	49	134
70-79.....	273	26	106	---	---	---	1	---	1	1	---	---	275	26	107
80-89.....	243	25	89	1	---	---	2	---	---	4	---	1	250	25	90
90-99.....	284	32	109	---	---	---	2	---	---	2	---	2	288	32	111
100-109.....	227	26	96	---	---	---	1	---	---	1	---	1	229	26	97
110-119.....	251	24	98	1	1	---	2	---	1	1	---	---	255	25	99
120-129.....	101	7	44	---	---	---	---	---	---	1	---	3	102	7	47
130-139.....	67	3	35	---	---	---	---	---	---	---	---	---	67	3	35
140-149.....	41	2	12	---	---	---	1	---	---	1	---	3	43	2	15
150 And over.....	58	4	25	---	---	---	---	---	---	---	---	---	58	4	25
Locomotives only.	77	2	28	11	---	60	16	---	2	338	20	102	442	22	192
Total.....	4,226	428	1,731	246	37	140	567	15	154	581	27	202	5,620	507	2,227

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 20. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION

VISIBILITY

Number Of Cars	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	15	---	3	661	49	242	33	2	6	249	23	91	958	74	342
10-19.....	7	1	1	266	19	91	22	3	6	171	12	54	466	35	152
20-29.....	7	---	3	139	7	47	12	1	6	100	6	35	258	14	91
30-39.....	6	3	3	141	32	51	8	1	1	109	15	39	264	51	94
40-49.....	7	1	1	119	21	65	11	2	2	86	11	22	223	35	90
50-59.....	6	---	1	102	9	50	9	---	---	106	9	29	223	18	80
60-69.....	7	---	4	102	18	57	8	1	2	90	18	29	207	37	92
70-79.....	7	4	2	105	13	52	6	---	2	92	6	19	210	23	75
80-89.....	9	2	2	99	5	37	9	3	2	73	7	21	190	17	62
90-99.....	8	---	1	102	13	37	12	1	7	96	12	30	218	26	75
100-109.....	7	1	2	85	13	47	12	3	6	77	7	26	181	24	81
110-119.....	9	---	3	100	7	29	5	---	1	78	10	28	192	17	61
120-129.....	2	---	---	41	4	18	2	2	1	33	1	9	78	7	28
130-139.....	1	---	---	32	1	18	3	1	3	17	---	9	53	2	30
140-149.....	---	---	---	8	---	2	1	---	2	21	1	4	30	1	8
150 And over.....	3	---	5	15	---	6	1	---	1	26	4	6	45	4	18
Locomotives only.	13	---	6	161	9	40	14	1	3	121	12	103	309	22	152
Total.....	114	12	37	2,278	220	889	168	21	51	1,545	154	554	4,105	407	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	8	---	3	228	6	94	12	1	3	154	9	74	402	16	174
10-19.....	6	---	3	85	5	30	5	2	---	105	9	51	201	16	84
20-29.....	4	---	3	44	6	22	6	1	1	52	1	22	106	8	48
30-39.....	1	---	---	40	3	24	3	---	1	55	3	26	99	6	51
40-49.....	3	---	3	24	1	9	1	---	---	47	9	20	75	10	32
50-59.....	3	---	---	22	1	13	2	---	1	34	2	23	61	3	37
60-69.....	3	---	1	28	3	14	---	---	---	37	9	27	68	12	42
70-79.....	4	1	3	24	---	13	4	---	1	33	2	15	65	3	32
80-89.....	1	---	1	19	---	5	---	---	---	40	8	22	60	8	28
90-99.....	1	---	1	23	---	12	---	---	---	46	6	23	70	6	36
100-109.....	3	---	2	13	1	2	1	---	---	31	1	12	48	2	16
110-119.....	1	---	1	26	4	10	3	---	3	33	4	24	63	8	38
120-129.....	---	---	---	12	---	9	---	---	---	12	---	10	24	---	19
130-139.....	---	---	---	3	1	---	---	---	---	11	---	5	14	1	5
140-149.....	1	---	1	4	---	1	---	---	---	8	1	5	13	1	7
150 And over.....	---	---	---	3	---	1	---	---	---	10	---	6	13	---	7
Locomotives only.	1	---	1	65	---	23	6	---	1	61	---	15	133	---	40
Total.....	40	1	23	663	31	282	43	4	11	769	64	380	1,515	100	696
GRAND TOTAL															
1-9.....	23	---	6	889	55	336	45	3	9	403	32	165	1,360	90	516
10-19.....	13	1	4	351	24	121	27	5	6	276	21	105	667	51	236
20-29.....	11	---	6	183	13	69	18	2	7	152	7	57	364	22	139
30-39.....	7	3	3	181	35	75	11	1	2	164	18	65	363	57	145
40-49.....	10	1	4	143	22	74	12	2	2	133	20	42	298	45	122
50-59.....	9	---	1	124	10	63	11	---	1	140	11	52	284	21	117
60-69.....	10	---	5	130	21	71	8	1	2	127	27	56	275	49	134
70-79.....	11	5	5	129	13	65	10	---	3	125	8	34	275	26	107
80-89.....	10	2	3	118	5	42	9	3	2	113	15	43	250	25	90
90-99.....	9	---	2	125	13	49	12	1	7	142	18	53	288	32	111
100-109.....	10	1	4	98	14	49	13	3	6	108	8	38	229	26	97
110-119.....	10	---	4	126	11	39	8	---	4	111	14	52	255	25	99
120-129.....	2	---	---	53	4	27	2	1	1	45	1	19	102	7	47
130-139.....	1	---	---	35	2	18	3	1	3	28	---	14	67	3	35
140-149.....	1	---	1	12	---	3	1	---	2	29	2	9	43	2	15
150 And over.....	3	---	5	18	---	7	1	---	1	36	4	12	58	4	25
Locomotives only.	14	---	7	226	9	63	20	1	4	182	12	118	442	22	192
Total.....	154	13	60	2,941	251	1,171	211	25	62	2,314	218	934	5,620	507	2,227

TABLE 21. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRACK TYPE AND TRACK CLASS

TRACK TYPE

Track Class	Main			Yard			Siding			Industry			Unknown			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1.....	745	27	206	270	9	63	72	1	16	148	3	46	---	---	---	1,235	40	331
2.....	968	44	394	49	1	16	16	---	2	30	---	13	---	---	---	1,063	45	425
3.....	1,710	172	767	29	1	5	3	---	1	7	---	2	---	---	---	1,749	173	775
4.....	1,283	209	602	5	---	1	2	1	3	7	---	2	---	---	---	1,297	210	608
5.....	93	23	23	---	---	---	---	---	---	---	---	---	---	---	---	93	23	23
6.....	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
Unknown.....	137	13	53	25	3	6	2	---	---	18	---	6	---	---	---	182	16	65
Total.....	4,937	488	2,045	378	14	91	95	2	22	210	3	69	---	---	---	5,620	507	2,227

WARNING DEVICE DATA

TABLE 22. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	510	77	217	6	---	1	75	1	37	382	11	110	19	---	---	992	89	365
Cantilever flshrs	---	---	---	23	---	7	221	26	96	55	---	18	3	---	---	302	26	121
Standard flashers	---	---	---	80	5	16	925	85	467	357	20	81	30	5	6	1,392	115	570
Hwy Sig,W W,Bells	---	---	---	15	---	2	165	12	70	60	7	7	10	---	3	250	19	82
Special Devices..	---	---	---	18	---	---	81	3	17	19	---	---	3	---	---	121	3	17
Crossbucks.....	---	---	---	122	3	78	1,590	215	784	637	27	147	80	4	27	2,429	249	1,036
Stopsigns.....	---	---	---	6	1	2	24	1	7	7	---	1	5	3	1	42	5	11
Other Signs.....	---	---	---	1	---	---	11	---	6	11	---	2	1	---	1	24	---	9
No Signs Or Signl	---	---	---	3	---	---	35	1	9	27	---	6	3	---	1	68	1	16
Total.....	510	77	217	274	9	106	3,127	344	1,493	1,555	65	372	154	12	39	5,620	507	2,227

Note: "Special" are crossings protected by watchmen or members of train crew.
 "Hwy Sig" = Highway signals, W W = Wigwags.

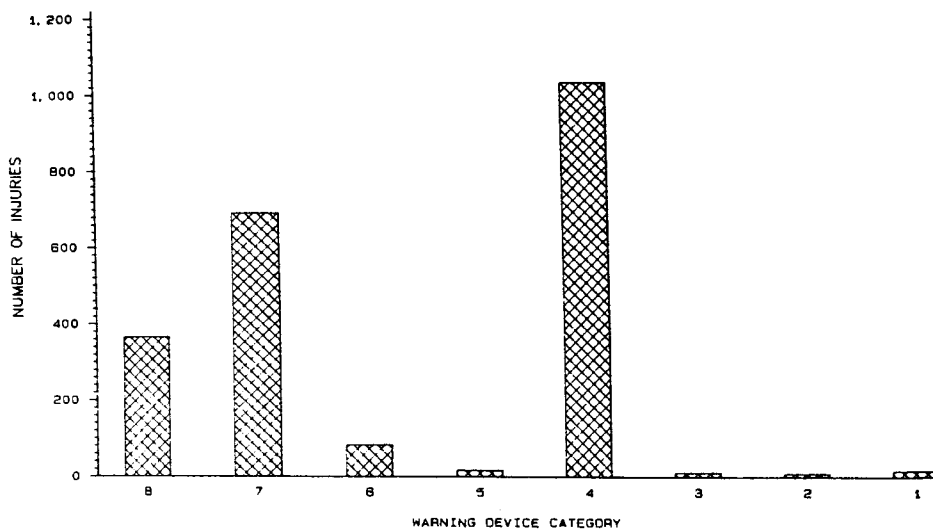
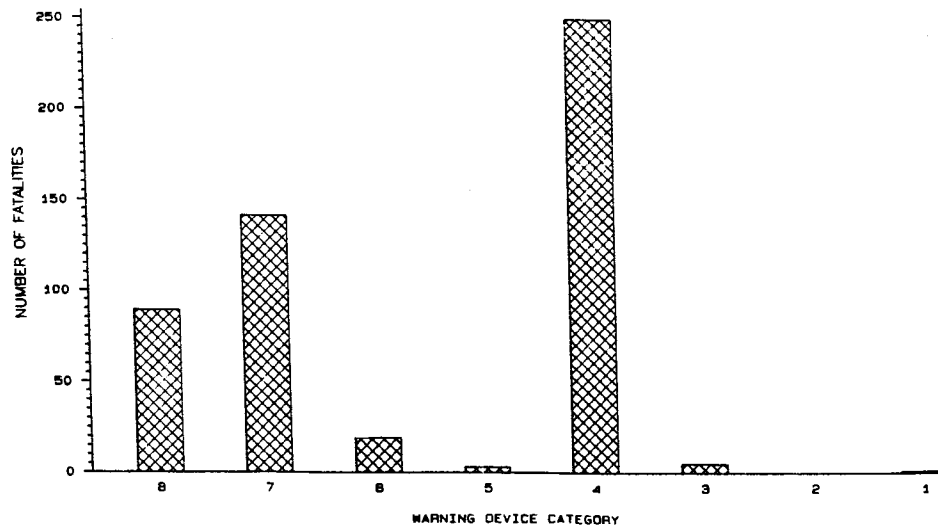
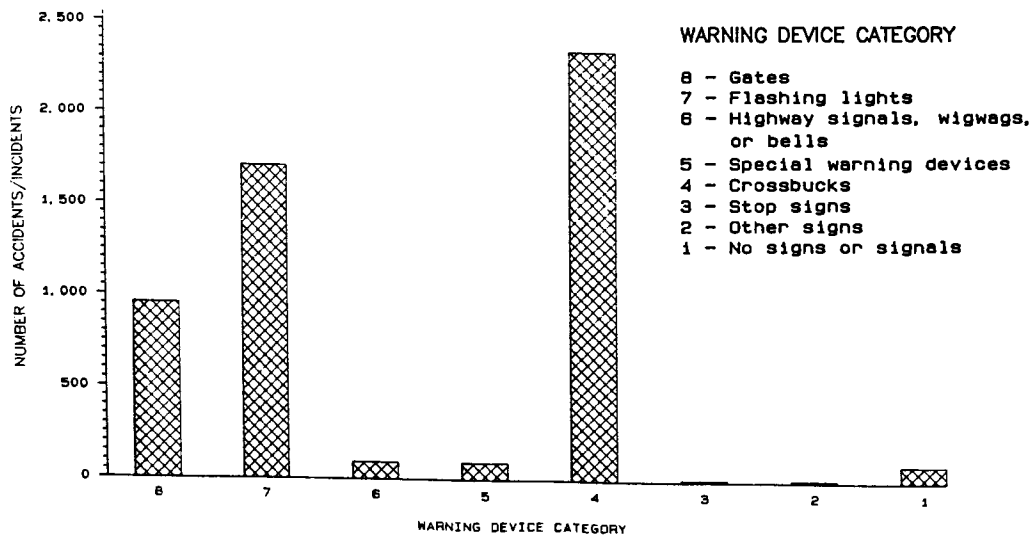


FIGURE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

TABLE 23. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE AND OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE, AND VISIBILITY

Warning Device	-Device Working--			-----Highway User-----							
				---Struck By Consist---				---Ran Into Consist---			
	Yes	No	N/A	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	959	11	22	26	311	30	417	10	77	5	116
Cantilever flshrs	291	4	7	4	117	4	72	1	51	3	50
Standard flashers	1,361	7	24	24	576	45	351	5	179	12	200
Hwy Sig,W W,Bells	223	2	25	2	114	4	57	2	40	3	28
Special Devices.:	---	---	121	1	30	5	30	2	16	---	37
Crossbucks.....	---	---	2,429	56	1,081	74	566	20	284	20	328
Stopsigns.....	---	---	42	1	20	1	12	---	6	---	2
Other Signs.....	---	---	24	---	2	2	12	---	4	---	4
No Signs Or Signl	---	---	68	---	27	3	28	---	6	---	4
Total.....	2,834	24	2,762	114	2,278	168	1,545	40	663	43	769

Note: If a rail consist is intentionally grounded to prevent activation of the warning device, these are reported as "N/A."

TABLE 24 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES DURING DUSK AND DARK HOURS BY ILLUMINATION OF CROSSING AND CIRCUMSTANCE

CIRCUMSTANCE

	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	949	83	320	398	33	173	1,347	116	493
Not Lighted.....	2,112	228	817	786	52	362	2,898	280	1,179
Not Reported.....	1,010	90	381	320	15	159	1,330	105	540
Total.....	4,105	407	1,531	1,515	100	696	5,620	507	2,227

TABLE 25. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY LOCATION AND TYPE OF WARNING DEVICE, CIRCUMSTANCE, AND VISIBILITY

VISIBILITY

Warning Device	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	52	6	15	1,074	86	373	80	7	22	871	93	354	2,077	192	764
Automatic, Side Of Approach.	2	---	1	34	4	10	2	---	1	21	1	4	59	5	16
Automatic, Opposite Side....	---	---	---	4	---	1	1	---	---	2	---	1	7	---	2
Automatic, Side Not Reported	2	---	---	6	---	2	---	---	---	3	---	1	11	---	3
Manual, Both Sides.....	1	---	---	19	---	2	4	---	---	23	---	3	47	---	5
Manual, Side Of Approach....	---	---	---	4	---	1	---	---	---	3	---	---	7	---	1
Manual, Opposite Side.....	---	---	---	4	---	---	1	---	---	2	---	---	7	---	---
Manual, Side Not Reported...	---	---	---	3	---	---	---	---	---	2	---	---	5	---	---
Other, Both Sides.....	54	6	20	1,023	120	471	70	13	23	534	48	169	1,681	187	683
Other, Side Of Approach.....	3	---	1	62	8	12	5	1	3	40	12	15	110	21	31
Other, Opposite Side.....	---	---	---	9	---	6	1	---	1	10	---	2	20	---	9
Other, Side Not Reported....	---	---	---	9	2	1	1	---	---	6	---	1	16	2	2
No Signs Or Signals.....	---	---	---	27	---	10	3	---	1	28	---	4	58	---	15
Total.....	114	12	37	2,278	220	889	168	21	51	1,545	154	554	4,105	407	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	18	---	11	333	23	137	23	3	6	378	24	183	752	50	337
Automatic, Side Of Approach.	---	---	---	14	2	7	---	---	---	13	---	7	27	2	14
Automatic, Opposite Side....	---	---	---	---	---	---	---	---	---	2	---	1	2	---	1
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Manual, Both Sides.....	2	---	---	13	---	4	---	---	---	28	3	5	43	3	9
Manual, Side Of Approach....	---	---	---	2	---	---	---	---	---	5	---	---	7	---	---
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	2	---	1	2	---	1
Manual, Side Not Reported...	---	---	---	1	---	---	---	---	---	2	---	1	3	---	1
Other, Both Sides.....	18	1	11	281	6	129	20	1	5	310	35	173	629	43	318
Other, Side Of Approach.....	1	---	1	9	---	3	---	---	---	16	1	5	26	1	9
Other, Opposite Side.....	---	---	---	2	---	1	---	---	---	2	---	1	4	---	2
Other, Side Not Reported....	1	---	---	2	---	1	---	---	---	6	---	1	9	---	2
No Signs Or Signals.....	---	---	---	6	---	---	---	---	---	4	1	1	10	1	1
Total.....	40	1	23	663	31	282	43	4	11	769	64	380	1,515	100	696
GRAND TOTAL															
Automatic, Both Sides.....	70	6	26	1,407	109	510	103	10	28	1,249	117	537	2,829	242	1,101
Automatic, Side Of Approach.	2	---	1	48	6	17	2	---	1	34	1	11	86	7	30
Automatic, Opposite Side....	---	---	---	4	---	1	1	---	---	4	---	2	9	---	3
Automatic, Side Not Reported	2	---	---	6	---	2	---	---	---	4	---	2	12	---	4
Manual, Both Sides.....	3	---	---	32	---	6	4	---	---	51	3	8	90	3	14
Manual, Side Of Approach....	---	---	---	6	---	1	---	---	---	8	---	---	14	---	1
Manual, Opposite Side.....	---	---	---	4	---	---	1	---	---	4	---	1	9	---	1
Manual, Side Not Reported...	---	---	---	4	---	---	---	---	---	4	---	1	8	---	1
Other, Both Sides.....	72	7	31	1,304	126	600	90	14	28	844	83	342	2,310	230	1,001
Other, Side Of Approach.....	4	---	2	71	8	15	5	1	3	56	13	20	136	22	40
Other, Opposite Side.....	---	---	---	11	---	7	1	---	1	12	---	3	24	---	11
Other, Side Not Reported....	1	---	---	11	2	2	1	---	---	12	---	2	25	2	4
No Signs Or Signals.....	---	---	---	33	---	10	3	---	1	32	1	5	68	1	16
Total.....	154	13	60	2,941	251	1,171	211	25	62	2,314	218	934	5,620	507	2,227

Note: Automatic devices include gates, flashing lights, and other devices which are activated by the approach of a rail consist. Manual devices include "watchmen" and "Flagged by crew". "Other" devices include crossbucks, stop signs, etc.

TIME, DAY AND WEATHER DATA

TABLE 26. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY VISIBILITY AND CIRCUMSTANCE

Visibilty	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	114	12	37	40	1	23	154	13	60
Day.....	2,278	220	889	663	31	282	2,941	251	1,171
Dusk.....	168	21	51	43	4	11	211	25	62
Dark.....	1,545	154	554	769	64	380	2,314	218	934
Total.....	4,105	407	1,531	1,515	100	696	5,620	507	2,227

TABLE 27. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TEMPERATURE, CIRCUMSTANCE, AND VISIBILITY

Temperature	CIRCUMSTANCE											
	----Struck By Consist----				----Ran Into Consist-----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	5	---	---	---	3	---	1	---	8	---	1
80 To 100.....	3	652	25	107	---	155	2	48	3	807	27	155
60 To 79.....	37	782	62	475	10	232	21	237	47	1,014	83	712
40 To 59.....	37	486	38	562	15	140	7	260	52	626	45	822
20 To 39.....	26	293	38	330	10	107	13	194	36	400	51	524
0 To 19.....	11	57	4	66	5	22	---	28	16	79	4	94
-20 To -1.....	---	3	1	5	---	4	---	1	---	7	1	6
Under -20.....	---	---	---	---	---	---	---	---	---	---	---	---
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	114	2,278	168	1,545	40	663	43	769	154	2,941	211	2,314

TABLE 28. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TIME OF DAY AND CIRCUMSTANCE

TIME	CIRCUMSTANCE						-----Total-----		
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	136	10	50	80	2	42	216	12	92
1 TO 1:59 AM...	135	13	48	90	6	79	225	19	127
2 TO 2:59 AM...	101	12	32	66	6	26	167	18	58
3 TO 3:59 AM...	76	1	14	42	1	22	118	2	36
4 TO 4:59 AM...	70	12	18	41	2	15	111	14	33
5 TO 5:59 AM...	83	4	19	36	---	20	119	4	39
6 TO 6:59 AM...	121	13	42	48	1	25	169	14	67
7 TO 7:59 AM...	178	25	88	59	3	17	237	28	105
8 TO 8:59 AM...	175	14	76	53	2	25	228	16	101
9 TO 9:59 AM...	195	21	58	59	---	26	254	21	84
10 TO 10:59 AM.	214	25	76	54	1	27	268	26	103
11 TO 11:59 AM.	198	18	81	68	---	30	266	18	111
NOON TO 12:59 PM.	213	15	84	57	4	18	270	19	102
1 TO 1:59 PM...	176	18	74	69	3	20	245	21	94
2 TO 2:59 PM...	194	11	50	51	1	25	245	12	75
3 TO 3:59 PM...	238	23	104	56	2	22	294	25	126
4 TO 4:59 PM...	233	16	82	73	6	29	306	22	111
5 TO 5:59 PM...	241	31	113	67	5	25	308	36	138
6 TO 6:59 PM...	226	21	135	65	7	31	291	28	166
7 TO 7:59 PM...	188	22	68	80	10	34	268	32	102
8 TO 8:59 PM...	187	25	55	75	11	28	262	36	83
9 TO 9:59 PM...	190	26	70	79	10	32	269	36	102
10 TO 10:59 PM.	176	15	49	72	6	31	248	21	80
11 TO 11:59 PM.	161	16	45	75	11	47	236	27	92
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	4,105	407	1,531	1,515	100	696	5,620	507	2,227

TABLE 29. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE

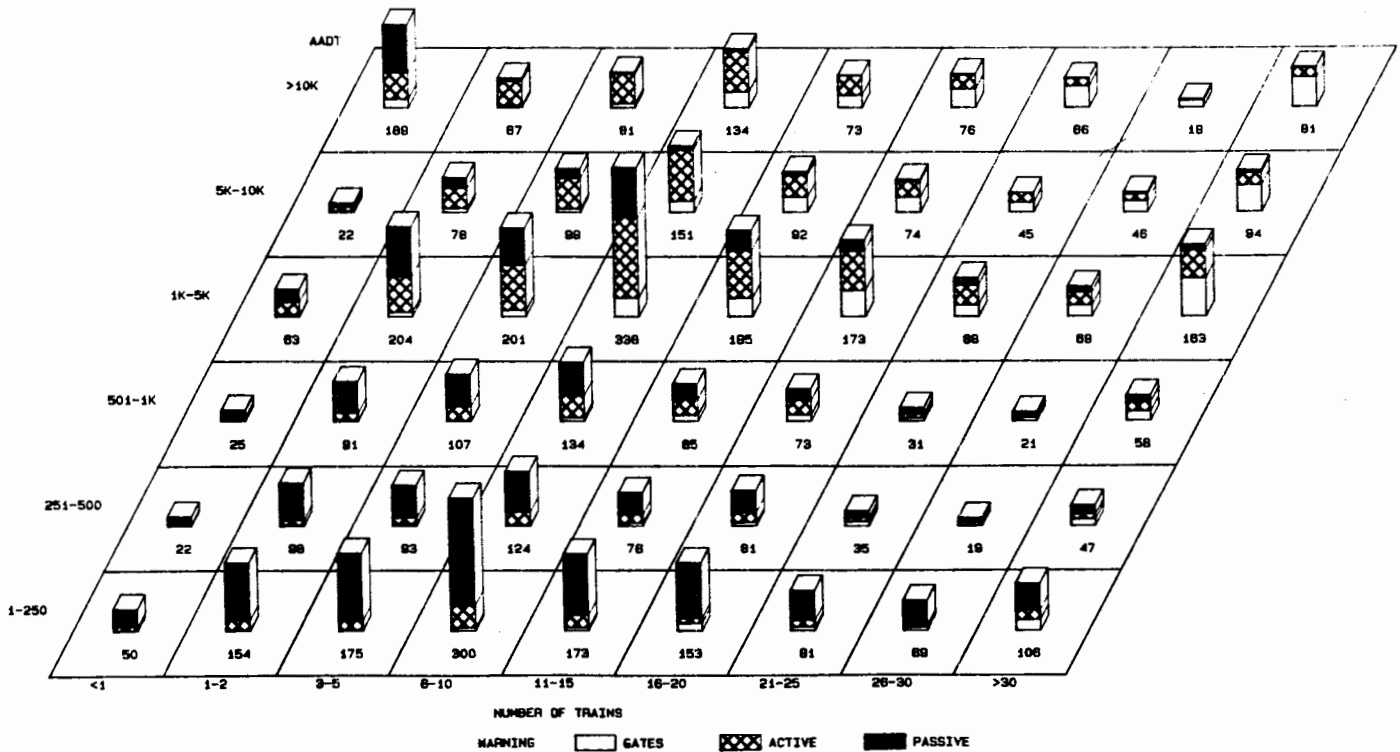
Month	CIRCUMSTANCE						-----Total-----		
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	A/I	Kld	Inj
January.....	421	45	152	171	6	62	592	51	214
February.....	339	33	112	151	11	63	490	44	175
March.....	309	41	102	145	9	65	454	50	167
April.....	324	21	122	118	11	46	442	32	168
May.....	302	30	100	89	4	46	391	34	146
June.....	282	34	115	107	6	47	389	40	162
July.....	306	37	122	114	14	69	420	51	191
August.....	346	35	97	100	4	57	446	39	154
September.....	326	30	136	103	13	42	429	43	178
October.....	391	38	216	121	5	63	512	43	279
November.....	374	36	125	141	8	68	515	44	193
December.....	385	27	132	155	9	68	540	36	200
Total.....	4,105	407	1,531	1,515	100	696	5,620	507	2,227

TABLE 30. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WEATHER CONDITIONS, CIRCUMSTANCE, AND VISIBILITY

CIRCUMSTANCE

Weather	---Struck By Consist---				---Ran Into Consist---				---Total---			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	62	1,599	94	962	19	418	30	442	81	2,017	124	1,404
Cloudy.....	35	484	46	365	8	150	7	168	43	634	53	533
Rain.....	7	151	17	154	3	67	4	88	10	218	21	242
Fog.....	6	10	3	37	5	12	1	45	11	22	4	82
Sleet.....	---	3	1	1	---	2	---	3	---	5	1	4
Snow.....	4	30	7	25	5	14	1	23	9	44	8	48
Not Reported.....	---	1	---	1	---	---	---	---	---	1	---	1
Total.....	114	2,278	168	1,545	40	663	43	769	154	2,941	211	2,314

FIGURE 7. ACCIDENTS/INCIDENTS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)



MOTORIST ACTION DATA

TABLE 31. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY OBSTRUCTION OF MOTORISTS' VIEW, CIRCUMSTANCE, AND VISIBILITY

Type Obstruction	CIRCUMSTANCE											
	---Struck By Consist---				---Ran Into Consist---				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	4	79	5	48	1	30	---	17	5	109	5	65
Standing RR Equipment.	1	14	---	8	---	3	---	5	1	17	---	13
Passing Train.....	1	9	---	2	---	---	---	1	1	9	---	3
Topography.....	2	26	2	6	---	12	---	8	2	38	2	14
Vegetation.....	2	52	3	9	---	25	---	5	2	77	3	14
Highway Vehicle.....	---	7	---	5	---	1	1	1	---	8	1	6
Other.....	2	18	1	8	---	7	---	5	2	25	1	13
Not Obstructed.....	102	2,072	157	1,458	39	585	42	727	141	2,657	199	2,185
Unknown.....	---	1	---	1	---	---	---	---	---	1	---	1
Total.....	114	2,278	168	1,545	40	663	43	769	154	2,941	211	2,314

TABLE 32. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MOTORIST ACTION AND TYPE OF VEHICLE

Type Of Vehicle	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	81	3,754	51	140	3,380	366
Truck.....	28	1,165	21	41	1,086	87
Truck-trailer....	9	436	4	8	406	35
Bus.....	1	12	---	1	10	2
School bus.....	---	3	---	---	3	---
Motorcycle.....	2	52	1	3	50	2
Total.....	121	5,422	77	193	4,935	492

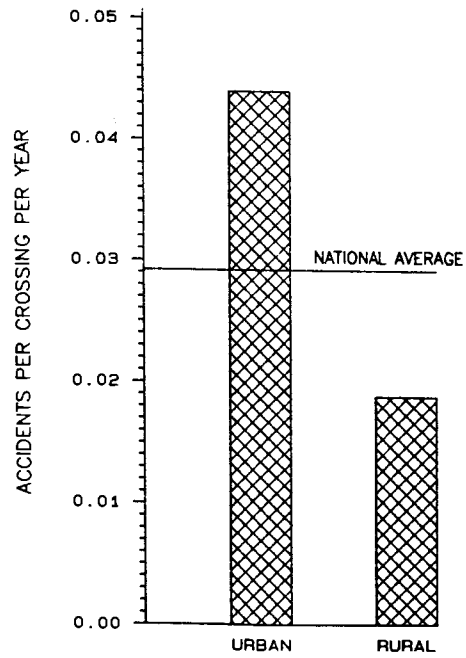


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

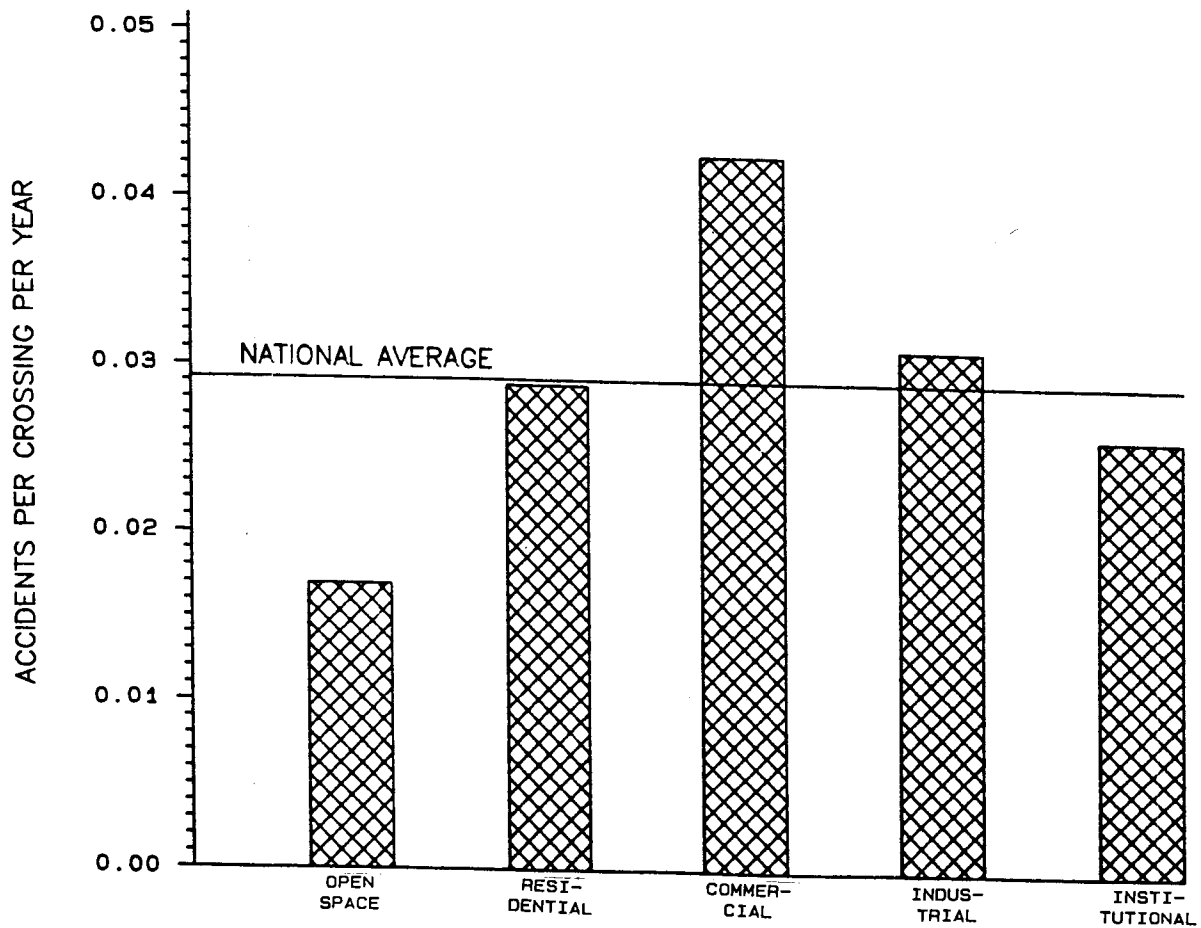


FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

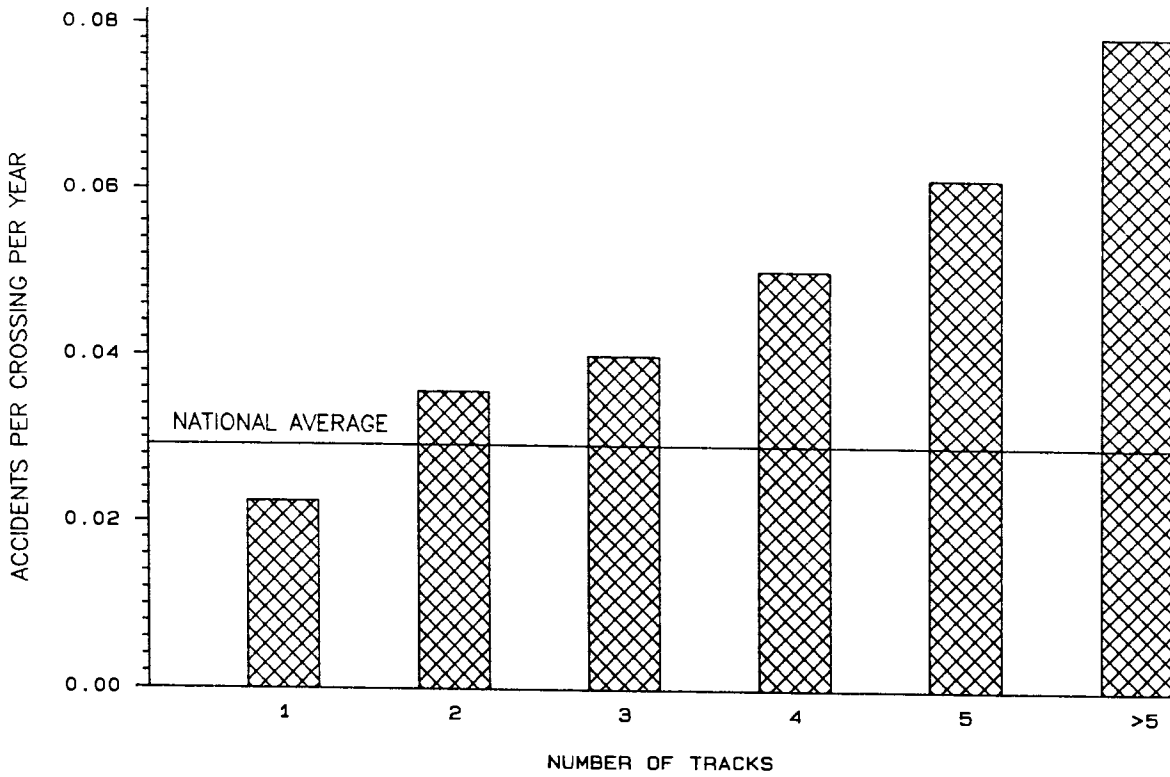


FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

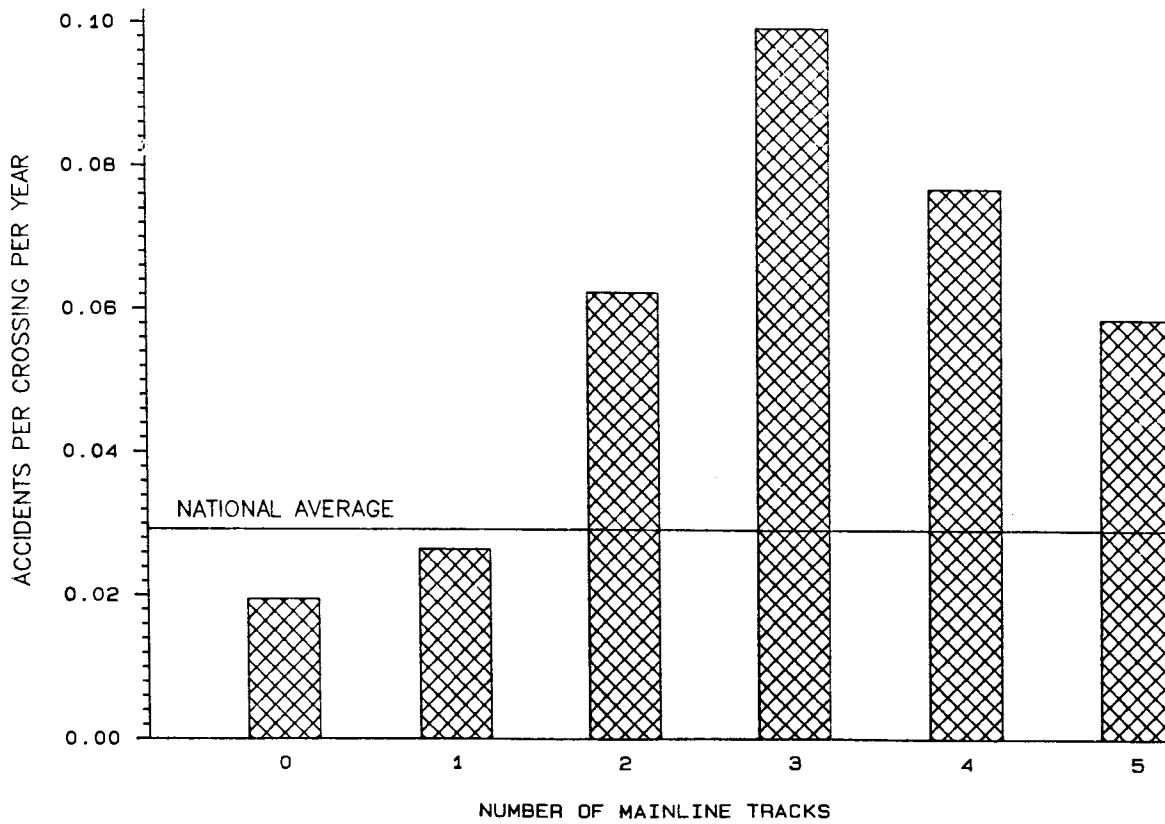


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

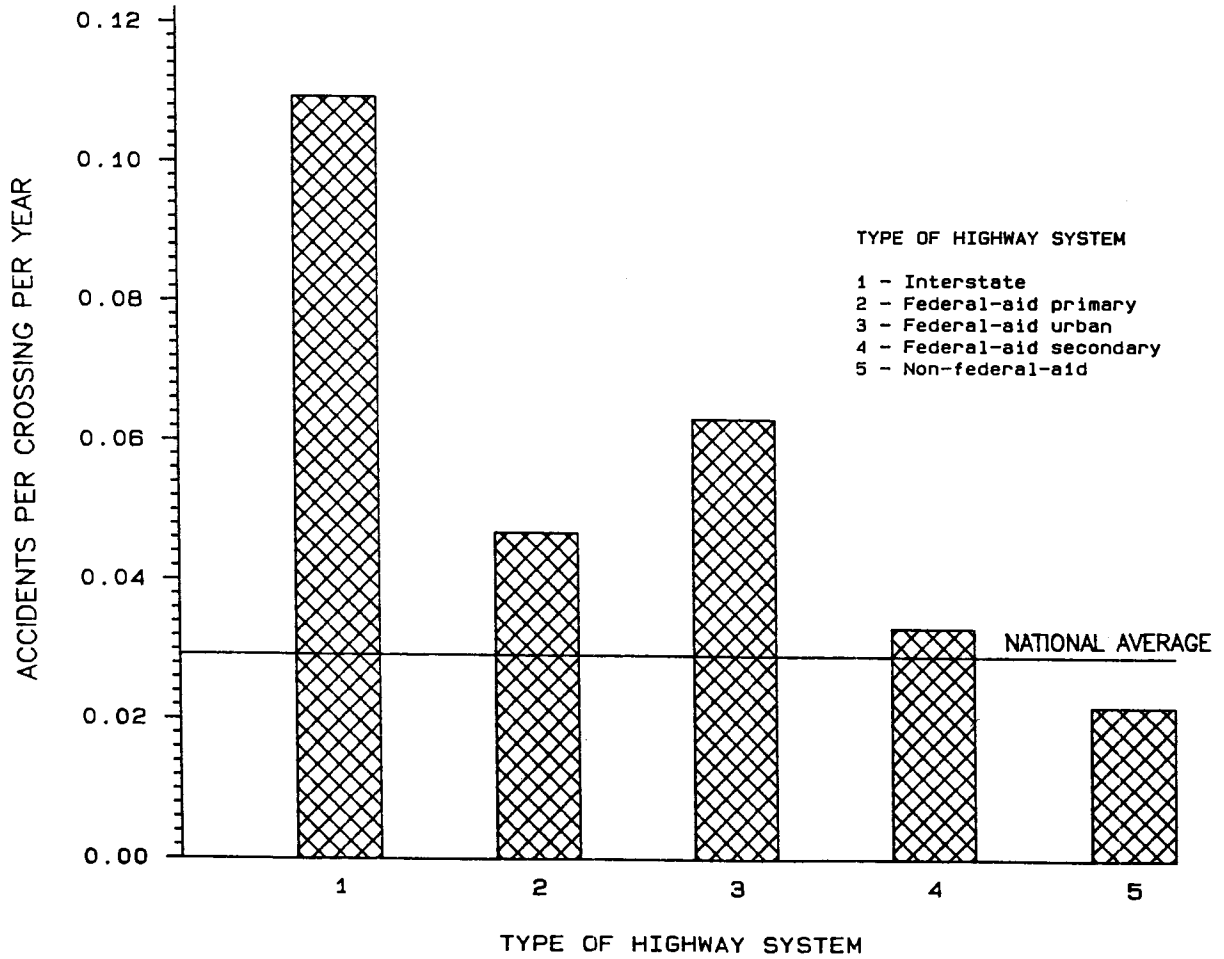


FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

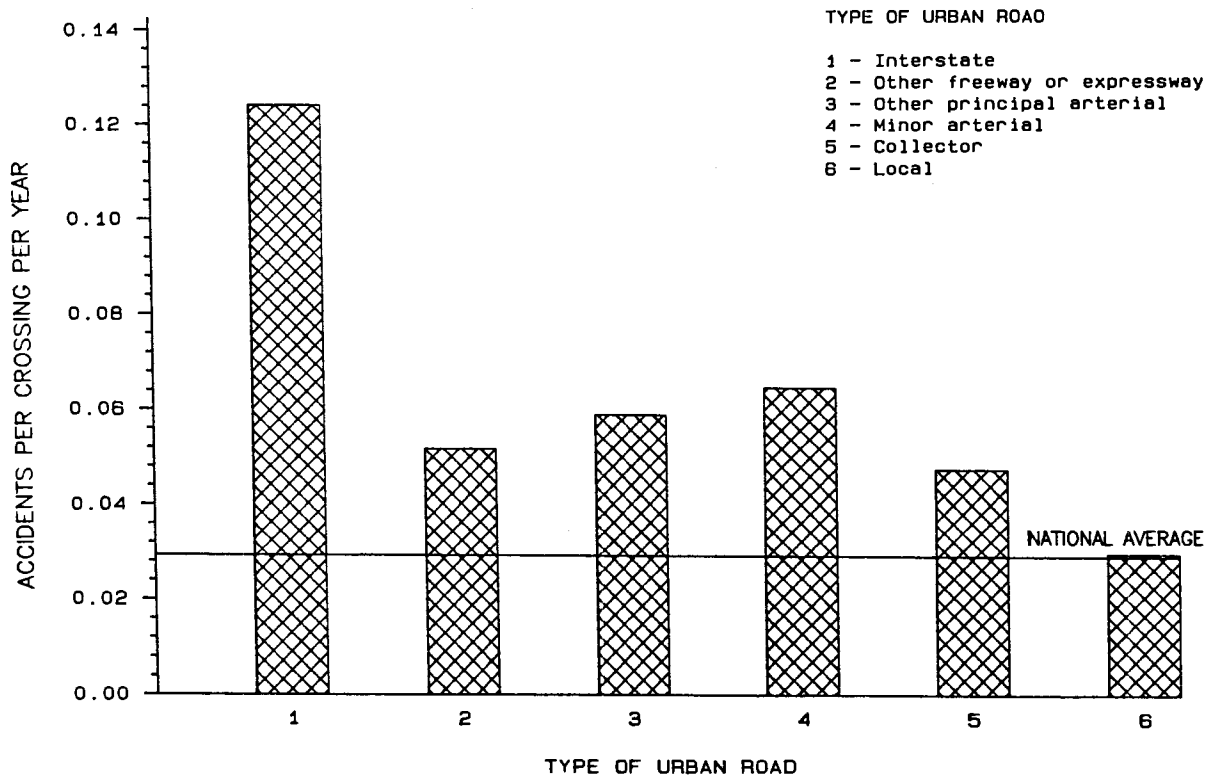


FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

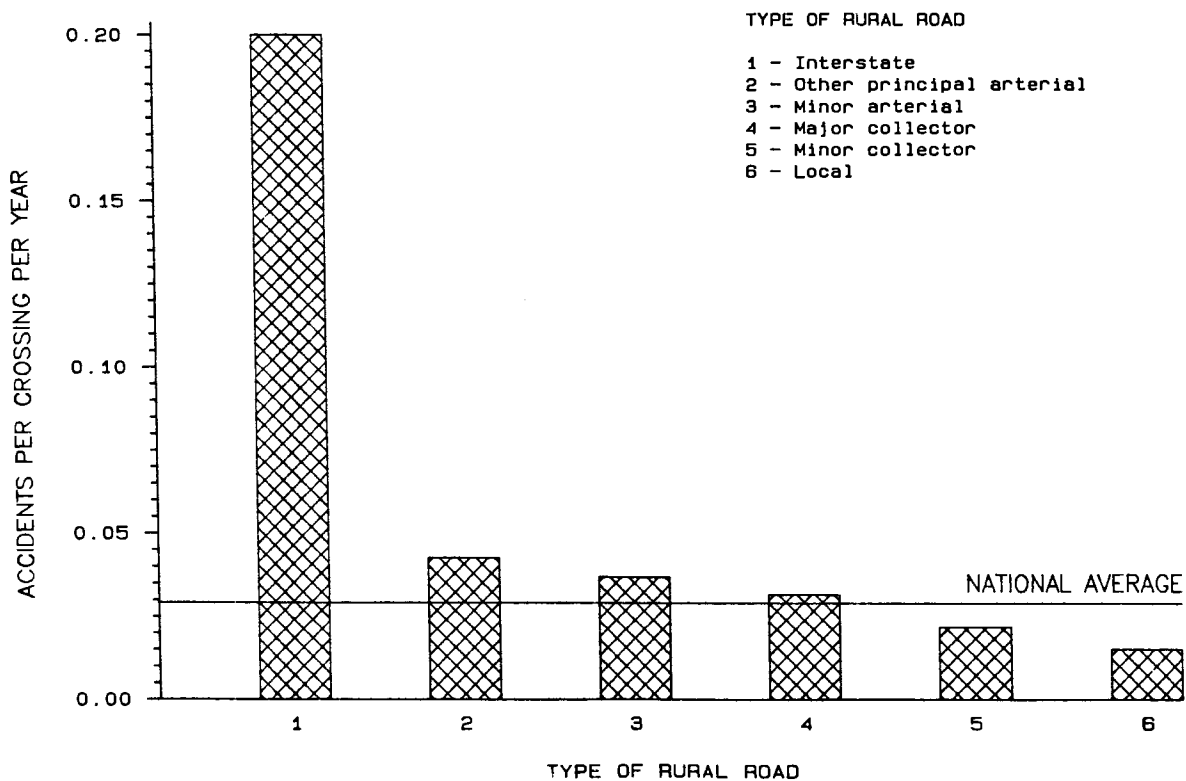


FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

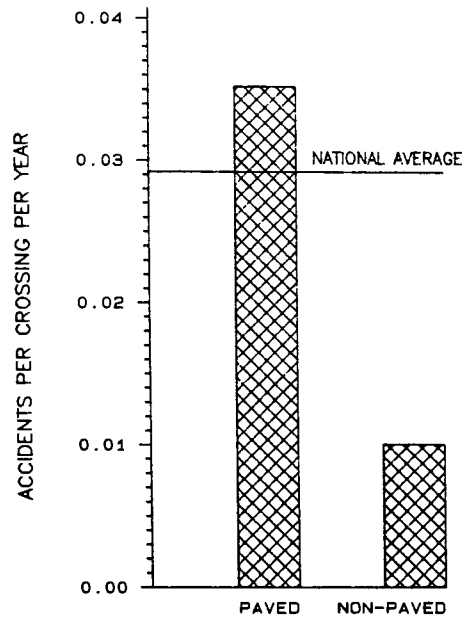


FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

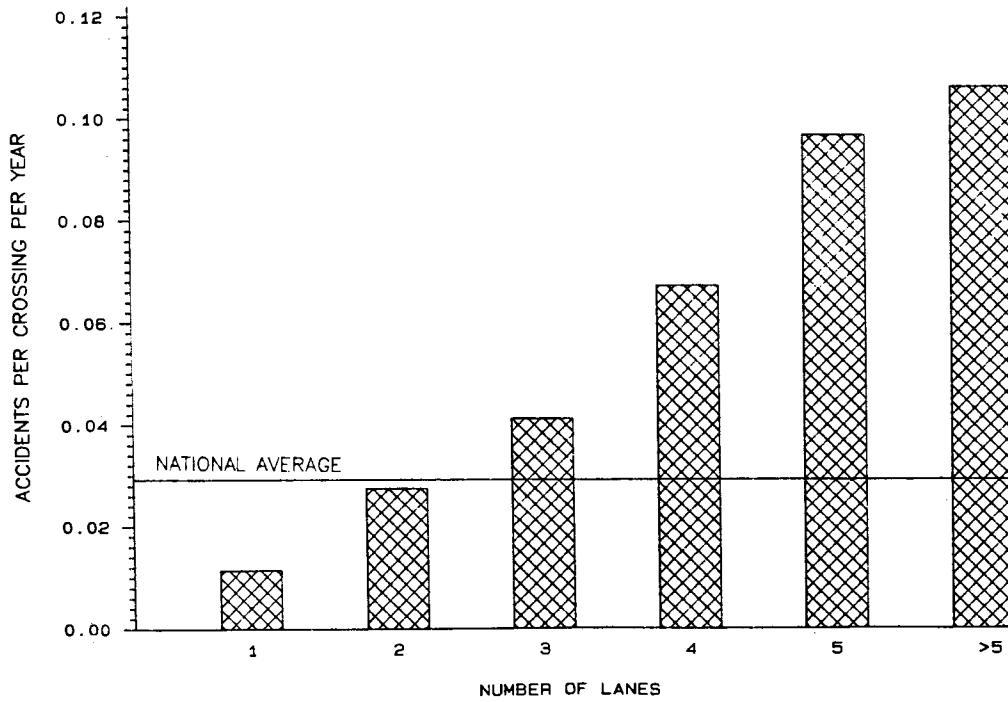


FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

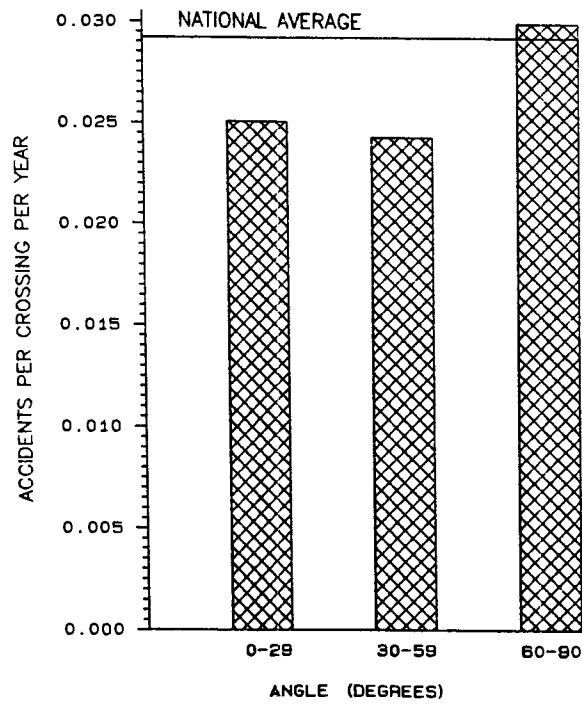


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

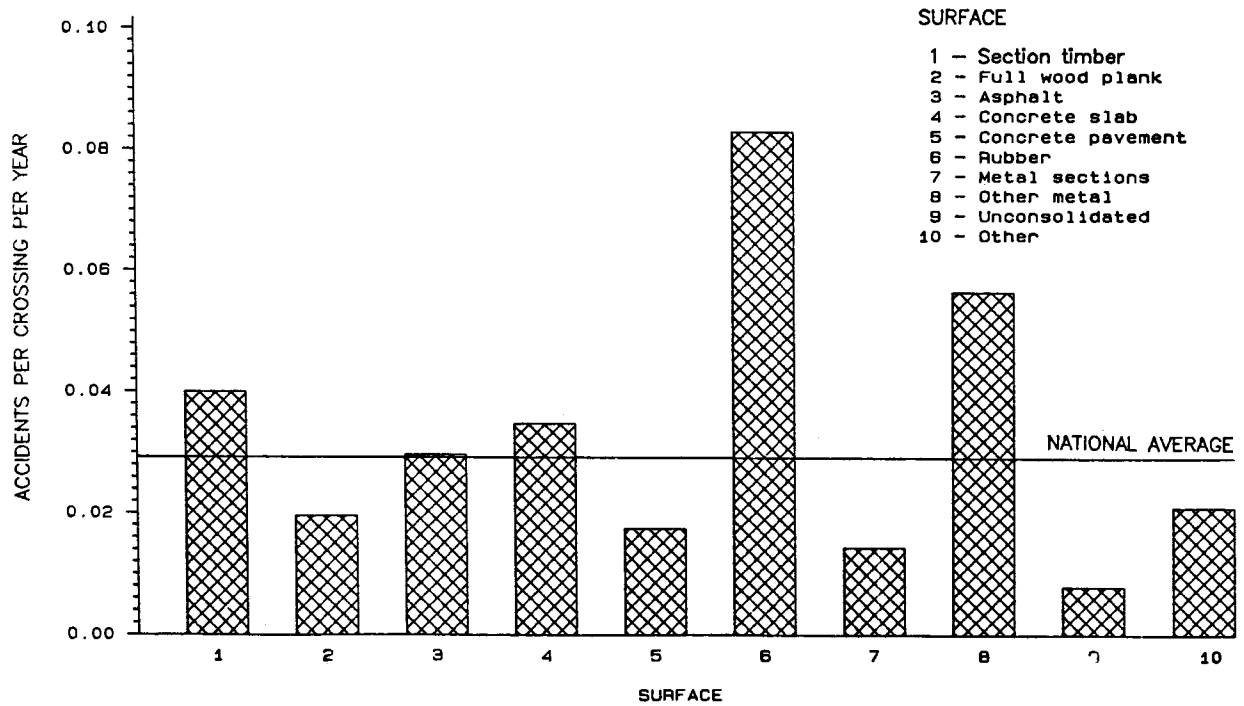


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

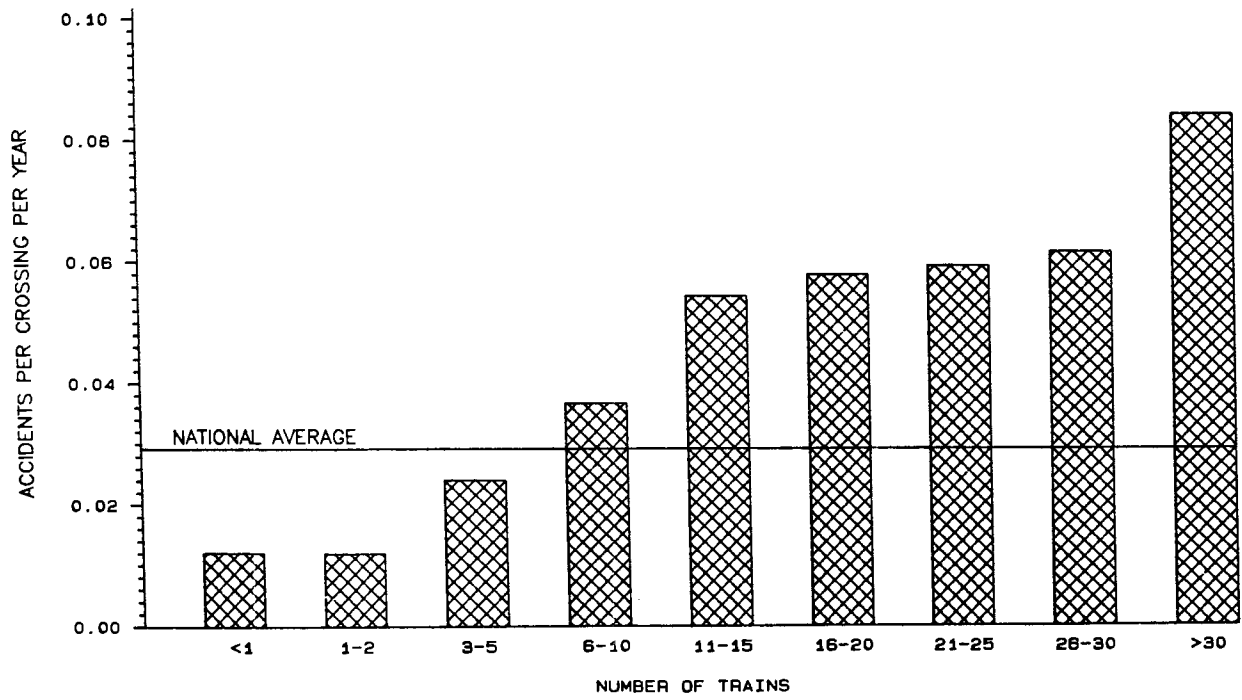


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

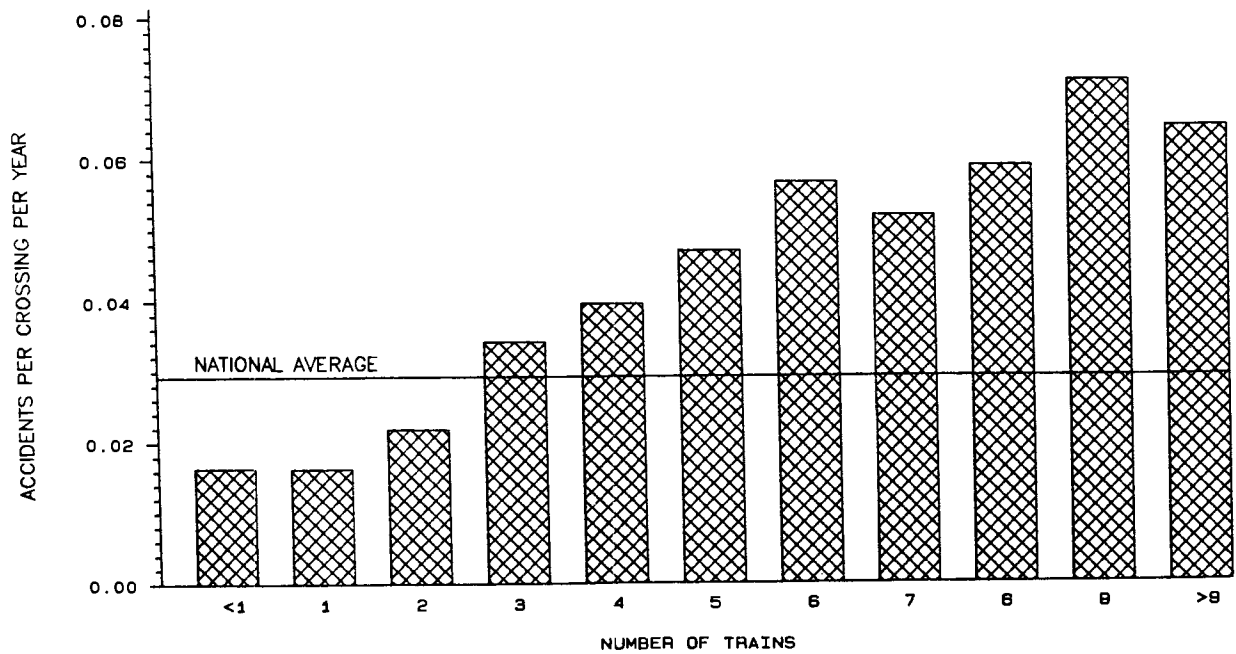


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM TO 6PM)

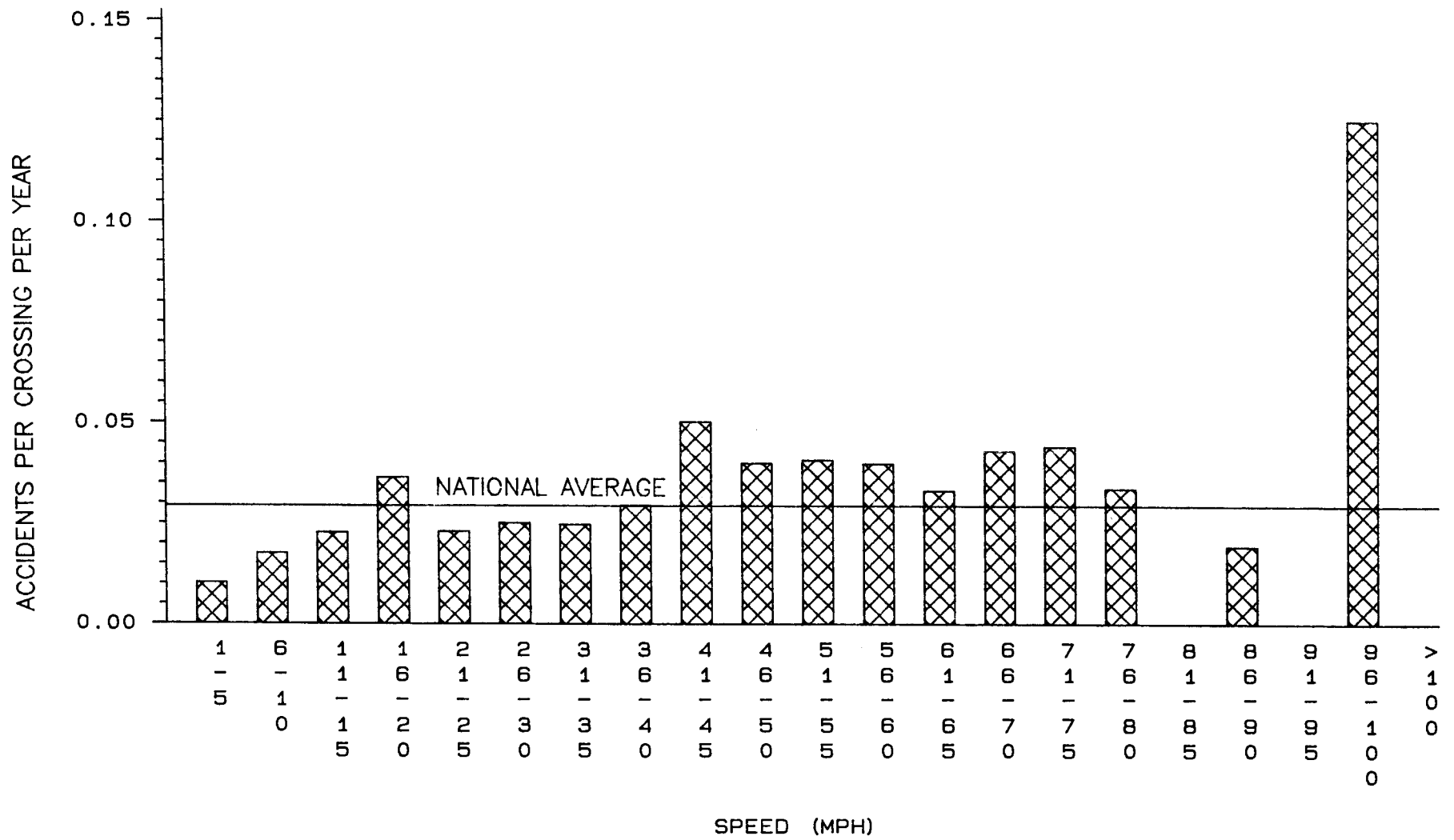


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

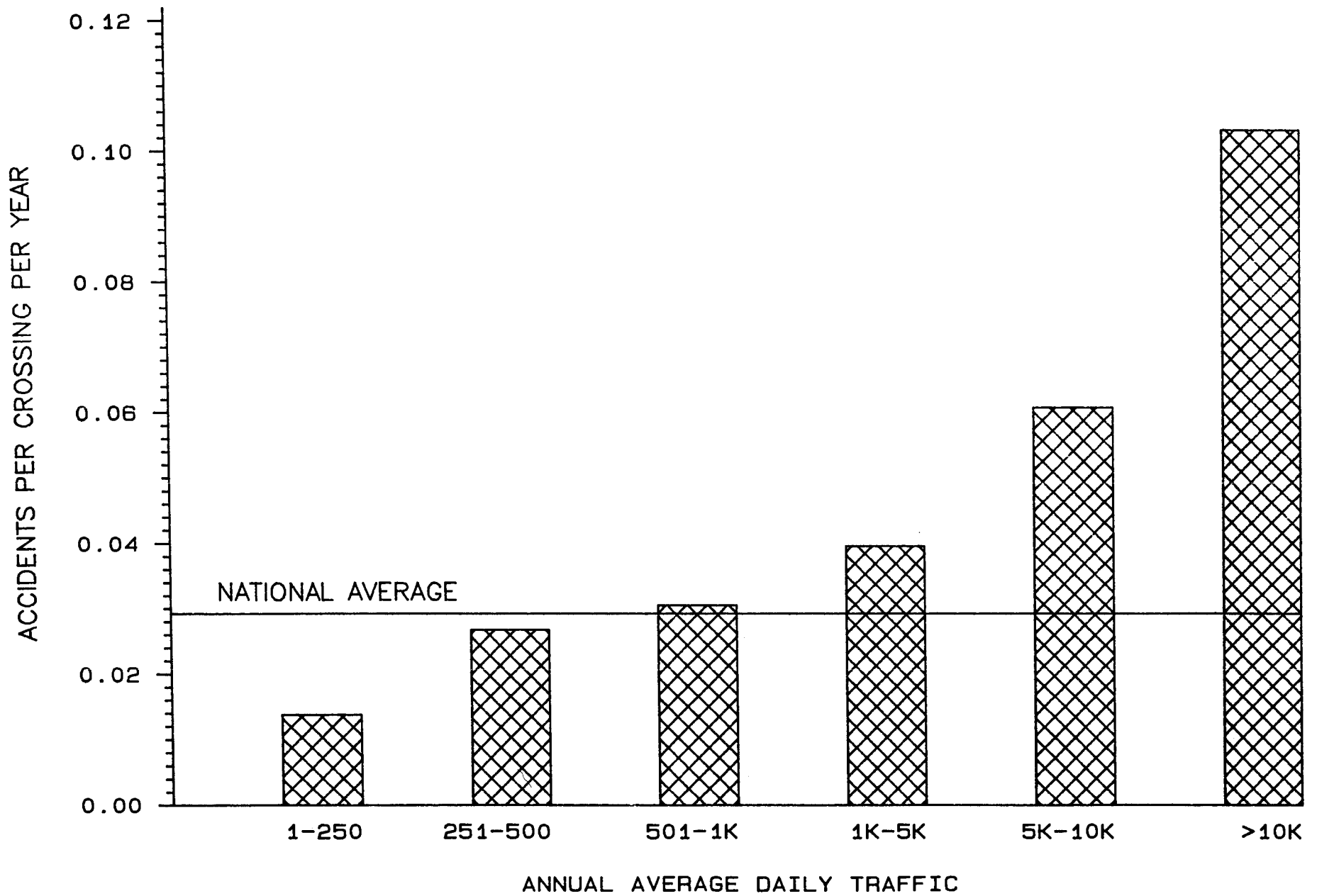
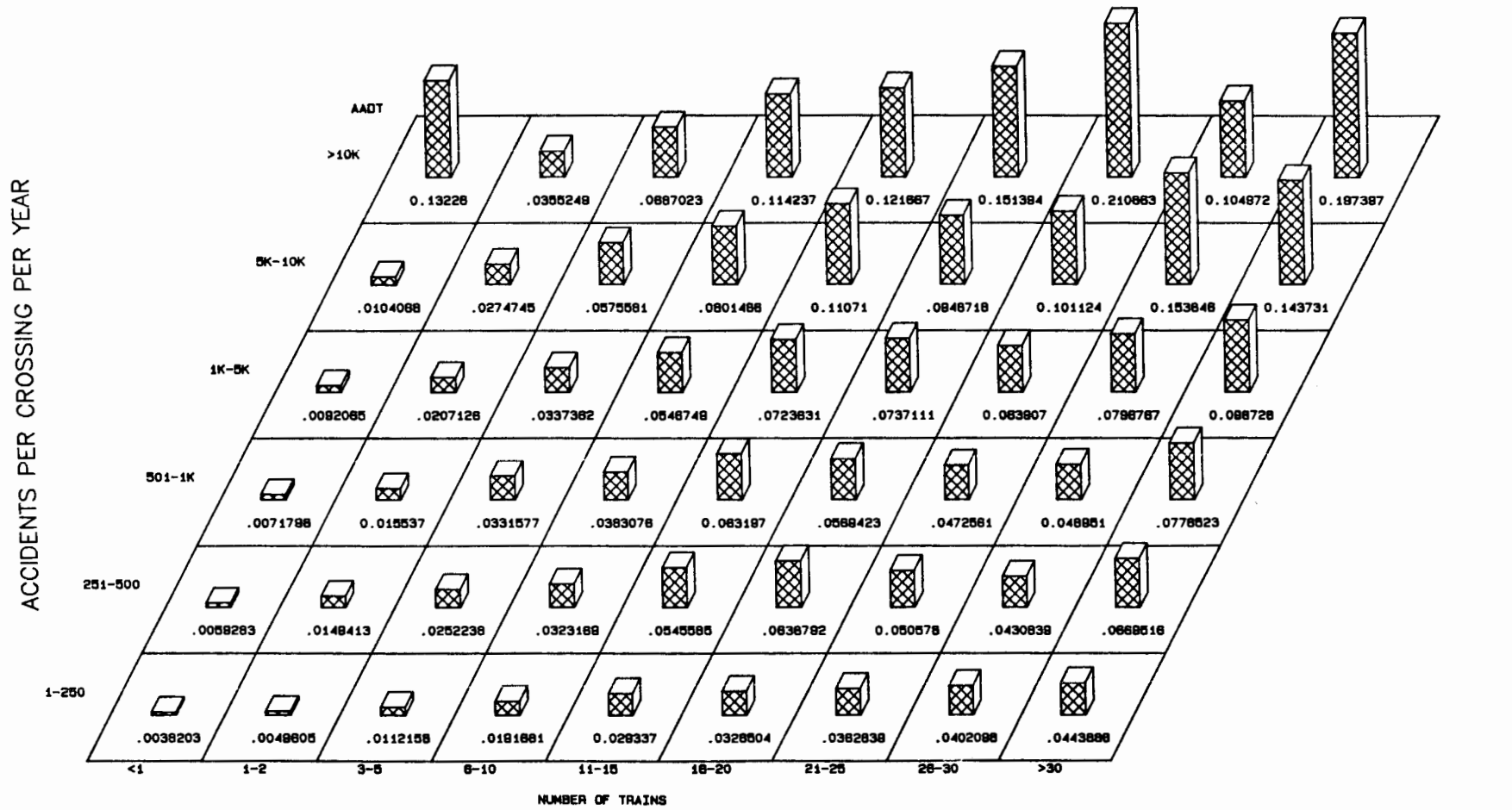


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC



NATIONAL AVERAGE .02820

FIGURE 23. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

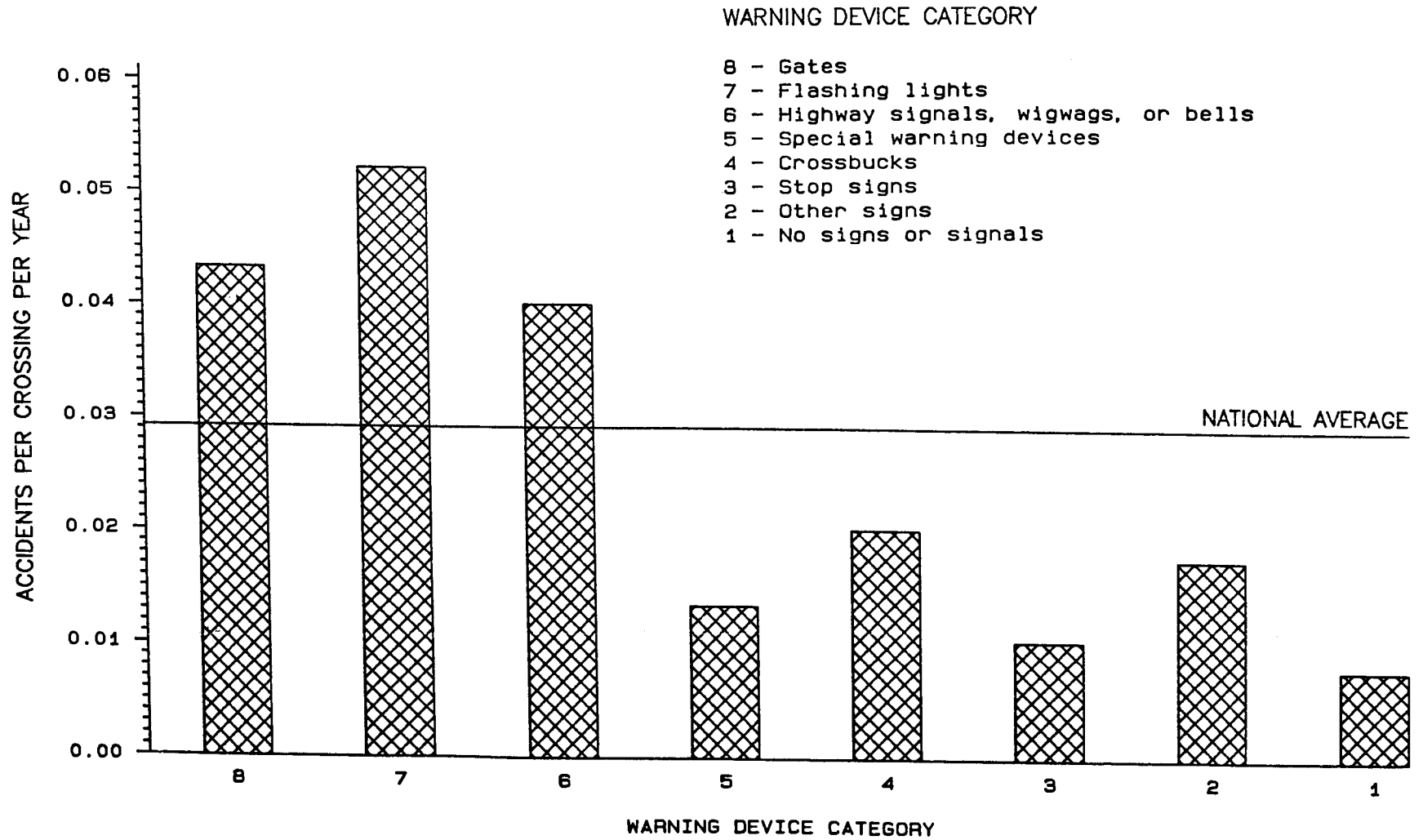


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

4. CURRENT YEAR RAIL-HIGHWAY CROSSING INVENTORY

PHYSICAL CHARACTERISTICS

TABLE 33. TOTAL PUBLIC AND PRIVATE CROSSINGS BY STATE AND TYPE

State	Public			Private	Pedestrian	Total
	At Grade	RR Under	RR Over			
ALABAMA	4,697	496	191	2,423	34	7,841
ALASKA	224	11	5	114	9	363
ARIZONA	986	86	78	860	7	2,017
ARKANSAS	3,517	177	124	1,676	16	5,510
CALIFORNIA	8,874	934	567	5,541	254	16,170
COLORADO	2,271	199	110	1,649	13	4,242
CONNECTICUT	503	332	256	468	54	1,613
DELAWARE	260	44	56	175	4	539
DIST OF COLUMBIA	55	30	38	12	13	148
FLORIDA	4,361	207	74	1,527	43	6,212
GEORGIA	6,817	576	258	3,089	39	10,779
HAWAII	6	---	---	---	---	6
IDAHO	1,841	95	62	1,665	10	3,673
ILLINOIS	12,061	981	1,974	7,117	421	22,554
INDIANA	7,828	497	632	3,650	146	12,753
IOWA	6,201	502	359	4,452	62	11,576
KANSAS	9,102	350	216	4,626	38	14,332
KENTUCKY	3,603	468	482	3,775	114	8,442
LOUISIANA	4,589	215	128	3,903	44	8,879
MAINE	975	123	79	1,092	11	2,280
MARYLAND	904	323	211	825	26	2,289
MASSACHUSETTS	1,198	796	436	589	102	3,121
MICHIGAN	6,505	351	407	3,107	98	10,468
MINNESOTA	6,558	515	406	4,123	82	11,684
MISSISSIPPI	3,014	226	113	2,147	15	5,515
MISSOURI	5,840	709	442	4,430	99	11,520
MONTANA	1,742	136	83	2,368	20	4,349
NEBRASKA	4,587	223	142	3,303	23	8,278
NEVADA	288	48	39	267	2	644
NEW HAMPSHIRE	658	159	66	521	23	1,427
NEW JERSEY	2,089	544	738	705	125	4,201
NEW MEXICO	820	68	79	592	4	1,563
NEW YORK	3,959	1,381	1,126	3,593	301	10,360
NORTH CAROLINA	5,472	525	300	4,286	75	10,658
NORTH DAKOTA	5,221	83	89	2,547	36	7,976
OHIO	8,798	1,198	1,168	5,024	106	16,294
OKLAHOMA	5,006	270	204	1,953	20	7,453
OREGON	2,728	290	176	3,263	105	6,562
PENNSYLVANIA	6,141	1,621	1,949	3,962	335	14,008
RHODE ISLAND	127	99	41	77	4	348
SOUTH CAROLINA	4,325	405	133	1,788	17	6,668
SOUTH DAKOTA	2,512	102	58	1,609	7	4,288
TENNESSEE	4,136	516	500	2,409	37	7,598
TEXAS	14,015	819	800	7,231	51	22,916
UTAH	1,178	125	52	873	7	2,235
VERMONT	585	78	83	744	51	1,541
VIRGINIA	2,595	641	479	3,747	69	7,531
WASHINGTON	3,804	392	340	4,006	117	8,659
WEST VIRGINIA	2,430	292	378	2,939	110	6,149
WISCONSIN	5,814	458	356	3,660	167	10,455
WYOMING	579	106	54	1,075	8	1,822
PUERTO RICO	55	---	---	2	---	57
TOTALS	192,454	19,822	17,137	125,579	3,574	358,566

TABLE 34. TOTAL PUBLIC AND PRIVATE CROSSINGS BY CLASS I RAILROAD AND TYPE

Railroad	Public		Private	Pedestrian	Total	
	At Grade	RR Under				
Amtrak (National RR Passenger Corp)...	157	528	485	114	72	1,356
Atchison, Topeka And Santa Fe Rwy Co..	11,510	696	646	6,849	94	19,795
Baltimore And Ohio Railroad Co.....	5,036	870	733	3,685	151	10,475
Bangor And Aroostook Railroad Co.....	166	9	22	480	3	680
Bessener And Lake Erie Railroad Co....	143	35	49	99	2	328
Boston And Maine Corporation.....	1,136	483	238	593	56	2,506
Burlington Northern Incorporated.....	23,903	1,591	1,275	17,131	351	44,251
Canadian Pacific Lines In Maine.....	97	11	18	164	40	330
Central Vermont Railway Inc.....	218	55	48	271	10	602
Chesapeake And Ohio Railway Company...	4,058	372	458	4,002	145	9,035
Chicago And Illinois Midland Rwy Co...	112	4	4	65	---	185
Chicago And North Western.....	7,982	655	798	5,340	191	14,966
Chicago South Shore And South Bend RR.	126	13	18	28	3	188
Chicago, Milw, St. Paul And Pacific...	2,701	301	293	2,220	108	5,623
Consolidated Rail Corporation.....	16,595	3,433	3,615	9,028	451	33,122
Delaware And Hudson Railway.....	490	97	117	660	29	1,393
Denver And Rio Grande Western RR Co...	990	135	70	711	7	1,913
Duluth, Missabe And Iron Range Rwy Co.	205	26	34	144	8	417
Duluth, Winnipeg And Pacific Rwy Co...	93	13	14	29	---	149
Elgin, Joliet And Eastern Railway Co..	203	30	29	102	---	364
Florida East Coast Railway Co.....	715	28	6	82	9	840
Grand Trunk Western Railroad Co.....	1,565	120	173	787	32	2,677
Green Bay And Western Railroad.....	317	10	3	251	---	581
Illinois Central Gulf Railroad Co.....	6,103	593	604	4,058	168	11,526
Kansas City Southern Railway Co.....	1,006	97	78	477	8	1,666
Louisiana And Arkansas Rwy Company....	724	60	33	563	5	1,385
Maine Central Railroad Company.....	548	70	36	422	5	1,081
Michigan Interstate Railroad.....	81	10	6	31	2	130
Missouri Pacific Railroad Co.....	10,402	587	436	6,879	104	18,408
Missouri-Kansas-Texas Railroad Co.....	2,163	189	160	1,187	8	3,707
Monogahela Railway.....	97	23	50	135	1	306
Norfolk And Western Railway Co.....	7,788	777	1,057	6,069	115	15,806
Northwestern Pacific Railroad.....	122	26	4	188	6	346
Pittsburg And Lake Erie Railroad Co...	112	46	27	107	18	310
Richmond, Frederickburg And Potomac...	98	42	24	56	23	243
Seaboard System Railroad.....	19,207	1,742	1,004	10,246	309	32,508
Soo Line Railroad Company.....	4,911	196	191	2,659	46	8,003
Southern Pacific Transportation Co....	11,229	998	648	7,845	257	20,977
Southern Railway Company.....	13,079	1,351	770	8,019	72	23,291
Spokane International Railroad.....	166	13	2	53	2	236
St. Louis Southwestern Railway Co.....	2,339	129	91	982	2	3,543
Texas And Northern Railway Company....	3	---	---	11	---	14
Texas, Mexican Railway Company.....	238	9	2	195	---	444
Union Pacific Railroad Co.....	9,713	795	426	7,038	88	18,060
All Other Railroads.....	23,807	2,554	2,342	15,524	573	44,800
TOTALS	192,454	19,822	17,137	125,579	3,574	358,566

TABLE 35. TOTAL CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL

State	Urban	Rural	Total
Alabama.....	2,052	2,645	4,697
Alaska.....	89	135	224
Arizona.....	510	476	986
Arkansas.....	1,368	2,149	3,517
California.....	6,452	2,422	8,874
Colorado.....	816	1,455	2,271
Connecticut.....	395	108	503
Delaware.....	82	178	260
Dist of Columbia.	55	---	55
Florida.....	2,605	1,756	4,361
Georgia.....	2,449	4,368	6,817
Hawaii.....	---	6	6
Idaho.....	320	1,521	1,841
Illinois.....	4,351	7,710	12,061
Indiana.....	3,411	4,417	7,828
Iowa.....	1,878	4,323	6,201
Kansas.....	1,693	7,409	9,102
Kentucky.....	1,012	2,591	3,603
Louisiana.....	1,971	2,618	4,589
Maine.....	261	714	975
Maryland.....	449	455	904
Massachusetts....	847	351	1,198
Michigan.....	2,699	3,806	6,505
Minnesota.....	1,740	4,818	6,558
Mississippi.....	1,098	1,916	3,014
Missouri.....	1,888	3,952	5,840
Montana.....	352	1,390	1,742
Nebraska.....	697	3,890	4,587
Nevada.....	70	218	288
New Hampshire....	287	371	658
New Jersey.....	1,473	616	2,089
New Mexico.....	242	578	820
New York.....	1,855	2,104	3,959
North Carolina...	2,121	3,351	5,472
North Dakota.....	323	4,898	5,221
Ohio.....	3,494	5,304	8,798
Oklahoma.....	323	4,683	5,006
Oregon.....	1,221	1,507	2,728
Pennsylvania.....	3,209	2,932	6,141
Rhode Island.....	122	5	127
South Carolina...	1,569	2,756	4,325
South Dakota.....	326	2,186	2,512
Tennessee.....	1,697	2,439	4,136
Texas.....	7,463	6,552	14,015
Utah.....	661	517	1,178
Vermont.....	199	386	585
Virginia.....	1,189	1,406	2,595
Washington.....	1,868	1,936	3,804
West Virginia....	507	1,923	2,430
Wisconsin.....	2,358	3,456	5,814
Wyoming.....	50	529	579
Puerto Rico.....	8	47	55
Unknown.....	---	---	---
Total.....	74,175	118,279	192,454

NOTE: The classification of a crossing as urban or rural is now based on the functional classification code. In previous publications it was based on the highway system code.

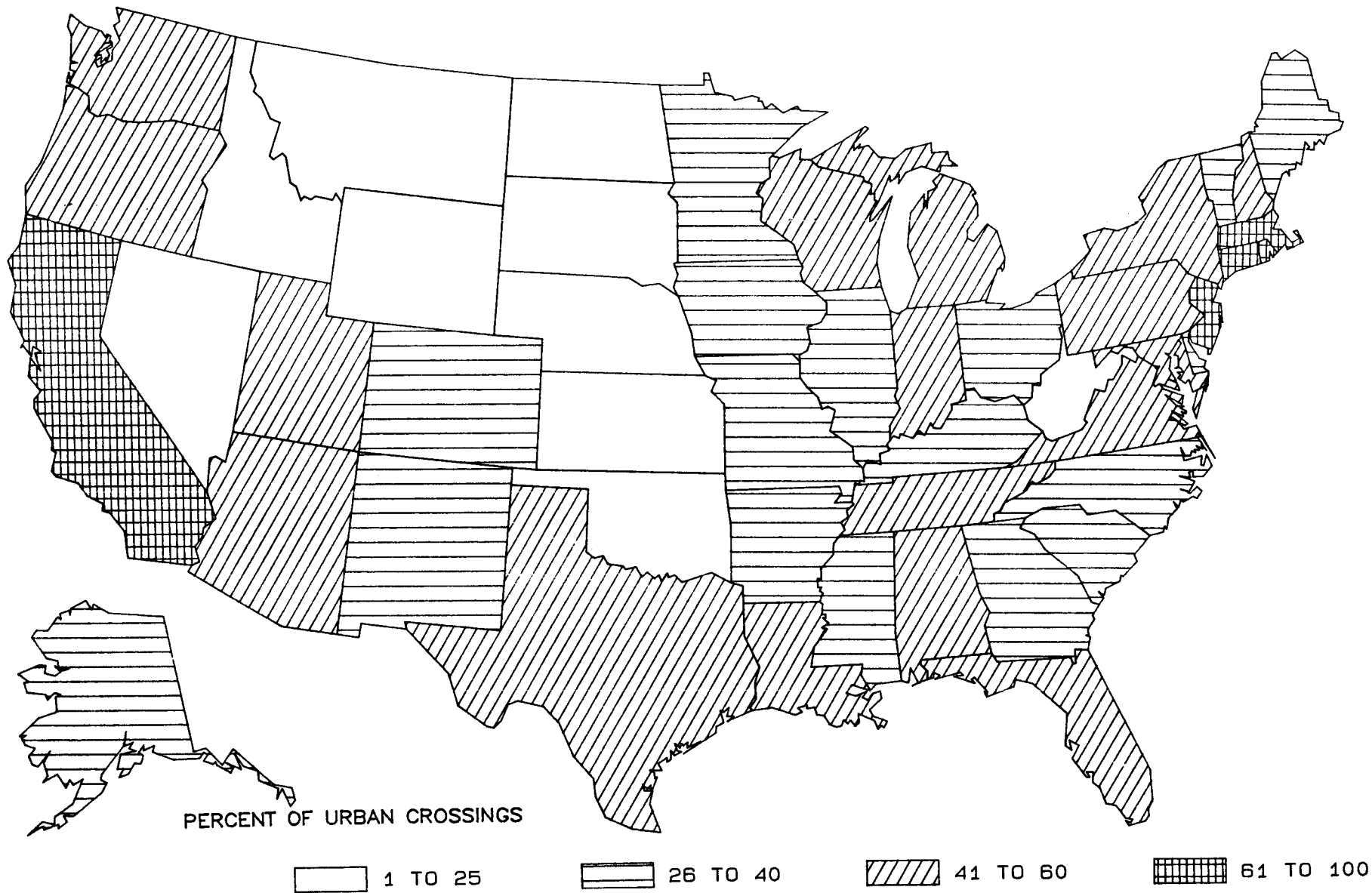


FIGURE 25. CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL

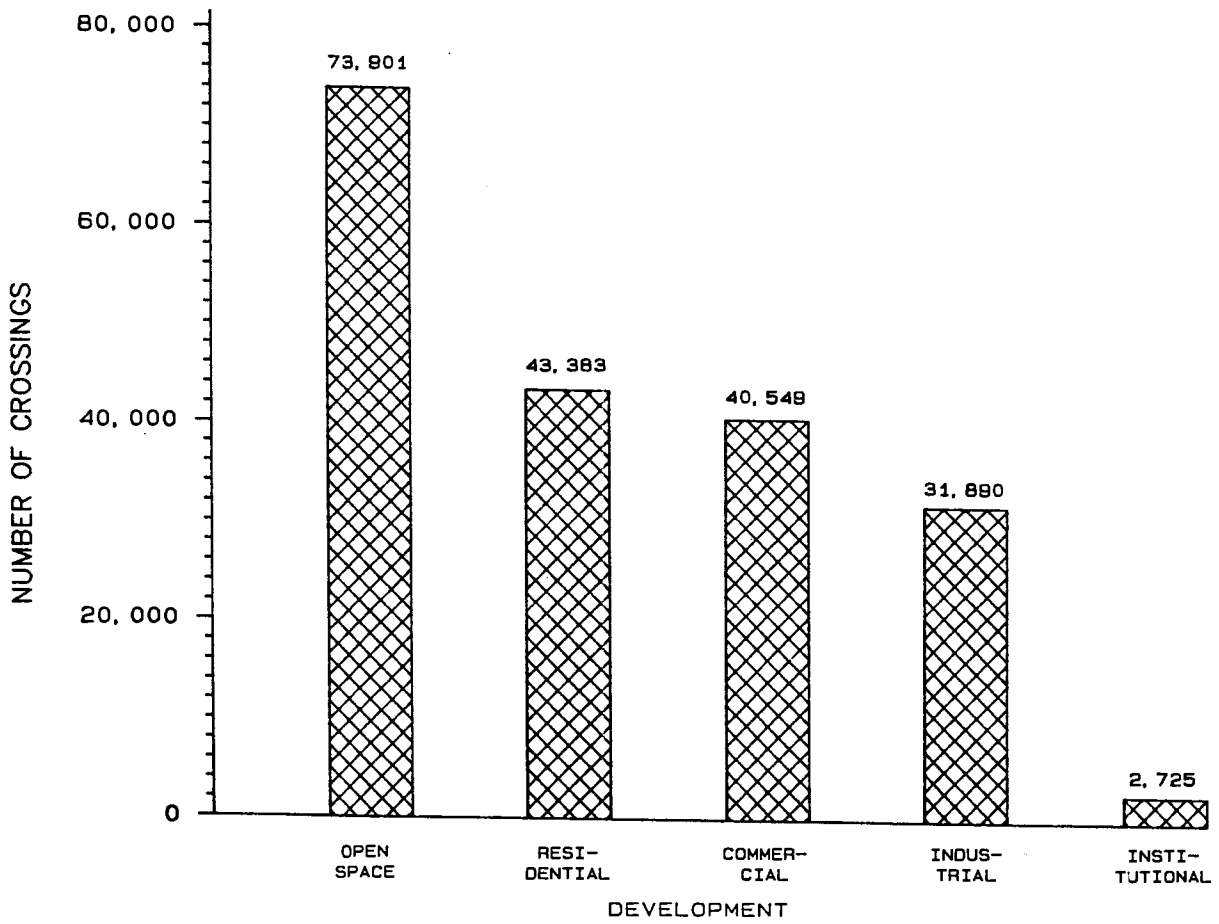


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

TRACK DATA

TABLE 36. TOTAL CROSSINGS BY NUMBER OF MAIN AND OTHER TRACKS

Other Tracks	Number of main tracks							Total
	0	1	2	3	4	5	>5	
0	32	112,445	9,754	323	90	6	4	122,654
1	21,278	24,209	2,983	106	20	---	---	48,596
2	4,901	7,994	1,283	99	18	1	1	14,297
3	1,467	2,362	409	53	21	1	---	4,313
4	394	817	191	13	13	5	---	1,433
5	162	314	99	9	3	2	2	591
>5	154	313	92	1	4	2	4	570
Total	28,388	148,454	14,811	604	169	17	11	192,454

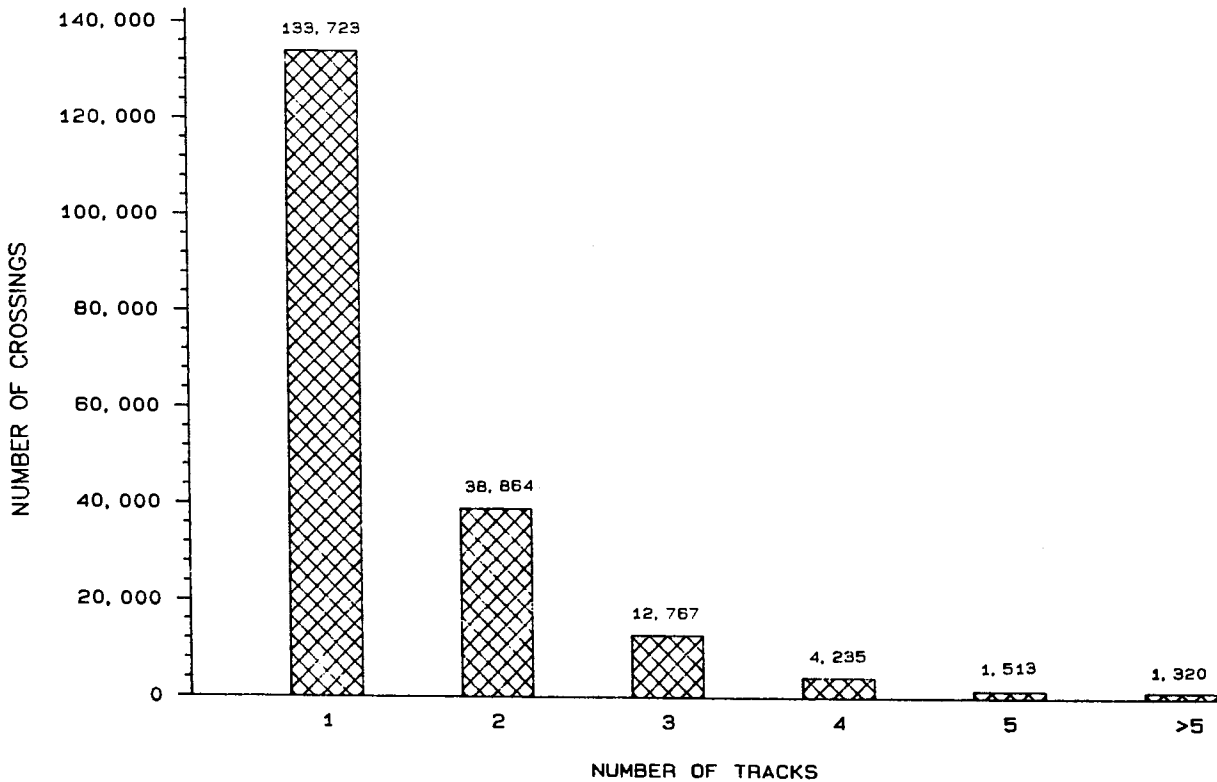


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

TABLE 37. TOTAL CROSSINGS BY NUMBER OF TRACKS AND WARNING DEVICE CATEGORY

Warning device	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Gates.....	8,538	7,995	3,317	1,262	490	464	22,066
Flashing lights.....	21,982	6,797	2,525	880	328	266	32,778
Hwy. signals, wigwags, bells	1,383	534	221	77	36	20	2,271
Special warning devices.....	4,757	1,276	434	162	61	72	6,762
Crossbucks.....	87,643	20,136	5,691	1,649	530	449	116,098
Stop signs.....	701	177	51	18	7	8	962
Other signs.....	486	131	30	18	9	7	681
No signs or signals.....	8,233	1,818	498	169	52	66	10,836
Total.....	133,723	38,864	12,767	4,235	1,513	1,352	192,454

TABLE 38. TOTAL CROSSINGS BY NUMBER OF TRACKS AND TRAFFIC LANES

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	24,826	4,857	933	230	59	70	30,975
2	101,110	31,190	10,779	3,622	1,301	1,147	149,149
3	731	314	121	43	14	14	1,237
4	6,192	2,267	854	313	127	114	9,867
5	366	103	34	17	6	1	527
>5	498	133	46	10	6	6	699
Total	133,723	38,864	12,767	4,235	1,513	1,352	192,454

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,426	804	311	86	35	35	4,697
Alaska.....	180	34	7	1	1	1	224
Arizona.....	703	185	67	19	7	5	986
Arkansas.....	2,418	741	239	69	30	20	3,517
California.....	6,165	1,675	625	211	102	96	8,874
Colorado.....	1,610	452	131	35	22	21	2,271
Connecticut.....	378	90	23	8	4	---	503
Delaware.....	212	33	10	3	2	---	260
Dist of Columbia.	35	14	6	---	---	---	55
Florida.....	2,382	1,172	474	144	96	93	4,361
Georgia.....	5,033	1,201	362	142	38	41	6,817
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,286	340	122	50	21	22	1,841
Illinois.....	7,272	3,224	1,000	351	111	103	12,061
Indiana.....	5,388	1,787	430	142	49	32	7,828
Iowa.....	4,221	1,242	488	154	49	47	6,201
Kansas.....	6,654	1,468	630	215	72	63	9,102
Kentucky.....	2,428	842	223	73	16	21	3,603
Louisiana.....	3,318	863	261	89	28	30	4,589
Maine.....	756	164	38	12	3	2	975
Maryland.....	639	194	42	19	3	7	904
Massachusetts....	943	189	42	15	5	4	1,198
Michigan.....	4,463	1,413	384	146	49	50	6,505
Minnesota.....	4,630	1,229	459	139	47	54	6,558
Mississippi.....	2,006	637	217	94	31	29	3,014
Missouri.....	3,869	1,215	500	147	54	55	5,840
Montana.....	1,247	323	116	30	12	14	1,742
Nebraska.....	3,123	932	351	102	40	39	4,587
Nevada.....	185	73	16	6	3	5	288
New Hampshire....	554	86	12	3	2	1	658
New Jersey.....	1,473	450	125	21	12	8	2,089
New Mexico.....	577	163	50	19	4	7	820
New York.....	2,768	877	214	64	17	19	3,959
North Carolina...	3,987	990	313	116	35	31	5,472
North Dakota.....	4,237	693	228	42	17	4	5,221
Ohio.....	4,904	2,593	802	329	103	67	8,798
Oklahoma.....	3,709	749	340	119	44	45	5,006
Oregon.....	1,966	496	195	50	14	7	2,728
Pennsylvania.....	4,040	1,459	405	151	44	42	6,141
Rhode Island.....	81	37	7	2	---	---	127
South Carolina...	3,260	751	222	52	26	14	4,325
South Dakota.....	2,001	336	116	40	11	8	2,512
Tennessee.....	2,836	880	273	84	29	34	4,136
Texas.....	10,387	2,436	747	263	97	85	14,015
Utah.....	812	235	84	19	19	9	1,178
Vermont.....	471	84	20	5	1	4	585
Virginia.....	1,702	604	192	64	22	11	2,595
Washington.....	2,630	707	298	115	29	25	3,804
West Virginia....	1,737	493	156	28	6	10	2,430
Wisconsin.....	4,170	1,085	354	129	46	30	5,814
Wyoming.....	392	122	40	18	5	2	579
Puerto Rico.....	53	2	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	133,723	38,864	12,767	4,235	1,513	1,352	192,454

HIGHWAY SYSTEM DATA

TABLE 40. TOTAL CROSSINGS BY TYPE OF HIGHWAY SYSTEM AND STATE

State	01	02	03	04	08	Total
Alabama.....	---	446	29	424	3,798	4,697
Alaska.....	---	21	14	32	157	224
Arizona.....	12	35	184	72	683	986
Arkansas.....	1	135	277	177	2,927	3,517
California.....	---	1,130	825	695	6,224	8,874
Colorado.....	---	93	416	107	1,655	2,271
Connecticut.....	---	30	185	19	269	503
Delaware.....	---	35	11	115	99	260
Dist of Columbia.	---	4	1	2	48	55
Florida.....	---	307	788	137	3,129	4,361
Georgia.....	3	413	166	815	5,420	6,817
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	50	104	142	1,545	1,841
Illinois.....	---	713	1,500	925	8,923	12,061
Indiana.....	---	292	464	1,368	5,704	7,828
Iowa.....	3	355	775	563	4,505	6,201
Kansas.....	---	371	474	1,180	7,077	9,102
Kentucky.....	2	112	317	321	2,851	3,603
Louisiana.....	1	169	36	441	3,942	4,589
Maine.....	---	91	21	94	769	975
Maryland.....	---	57	223	73	551	904
Massachusetts....	---	117	315	121	645	1,198
Michigan.....	4	296	769	975	4,461	6,505
Minnesota.....	1	248	118	1,045	5,146	6,558
Mississippi.....	1	133	221	430	2,229	3,014
Missouri.....	3	116	276	718	4,727	5,840
Montana.....	1	68	76	135	1,462	1,742
Nebraska.....	---	229	294	508	3,556	4,587
Nevada.....	---	15	9	24	240	288
New Hampshire....	---	74	125	39	418	656
New Jersey.....	---	68	206	178	1,637	2,089
New Mexico.....	---	23	60	56	681	820
New York.....	---	239	11	692	3,017	3,959
North Carolina...	---	125	216	418	4,713	5,472
North Dakota.....	1	180	97	641	4,302	5,221
Ohio.....	---	398	132	1,763	6,503	8,796
Oklahoma.....	---	163	322	411	4,110	5,006
Oregon.....	---	150	309	284	1,985	2,728
Pennsylvania.....	---	412	435	490	4,804	6,141
Rhode Island.....	---	7	27	22	71	127
South Carolina...	1	304	239	527	3,254	4,325
South Dakota.....	---	116	107	304	1,985	2,512
Tennessee.....	---	178	11	377	3,570	4,136
Texas.....	84	379	1,492	868	11,192	14,015
Utah.....	1	21	6	144	1,006	1,178
Vermont.....	---	59	8	68	450	585
Virginia.....	---	106	343	428	1,718	2,595
Washington.....	---	80	209	562	2,953	3,804
West Virginia....	---	146	49	420	1,815	2,430
Wisconsin.....	---	377	875	426	4,136	5,814
Wyoming.....	---	31	17	57	474	579
Puerto Rico.....	---	14	---	3	38	55
Unknown.....	---	---	---	---	---	---
Total.....	119	9,731	14,184	20,836	147,580	192,450

HIGHWAY SYSTEM CODES

Code	System	Code	System
01	Interstate	02	Federal-aid primary
03	Federal-aid urban	04	Federal-aid secondary
08	Non-federal-aid		

See Appendix A for explanation of revision in codes.

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE

HIGHWAY SYSTEM GROUP			
<u>State</u>	<u>On-State</u>	<u>Off-State</u>	<u>Total</u>
Alabama.....	326	4,371	4,697
Alaska.....	94	130	224
Arizona.....	61	925	986
Arkansas.....	575	2,942	3,517
California.....	364	8,510	8,874
Colorado.....	261	2,010	2,271
Connecticut.....	89	414	503
Delaware.....	249	11	260
Dist of Columbia.	54	1	55
Florida.....	482	3,879	4,361
Georgia.....	784	6,033	6,817
Hawaii.....	---	6	6
Idaho.....	128	1,713	1,841
Illinois.....	1,459	10,602	12,061
Indiana.....	722	7,106	7,828
Iowa.....	367	5,834	6,201
Kansas.....	504	8,598	9,102
Kentucky.....	1,014	2,589	3,603
Louisiana.....	982	3,607	4,589
Maine.....	198	777	975
Maryland.....	153	751	904
Massachusetts....	44	1,154	1,198
Michigan.....	396	6,109	6,505
Minnesota.....	374	6,184	6,558
Mississippi.....	282	2,732	3,014
Missouri.....	820	5,020	5,840
Montana.....	249	1,493	1,742
Nebraska.....	356	4,231	4,587
Nevada.....	53	235	288
New Hampshire....	190	468	658
New Jersey.....	199	1,890	2,089
New Mexico.....	177	643	820
New York.....	416	3,543	3,959
North Carolina...	3,541	1,931	5,472
North Dakota.....	254	4,967	5,221
Ohio.....	1,173	7,625	8,798
Oklahoma.....	378	4,628	5,006
Oregon.....	187	2,541	2,728
Pennsylvania.....	2,073	4,068	6,141
Rhode Island.....	27	100	127
South Carolina...	2,967	1,358	4,325
South Dakota.....	175	2,337	2,512
Tennessee.....	273	3,863	4,136
Texas.....	2,689	11,326	14,015
Utah.....	128	1,050	1,178
Vermont.....	142	443	585
Virginia.....	1,639	956	2,595
Washington.....	213	3,591	3,804
West Virginia....	1,477	953	2,430
Wisconsin.....	486	5,328	5,814
Wyoming.....	94	485	579
Puerto Rico.....	38	17	55
Unknown.....	---	---	---
Total.....	30,376	162,078	192,454

TABLE 42. TOTAL CROSSINGS BY FUNCTIONAL CLASSIFICATION OF ROAD AT RAIL-HIGHWAY CROSSING

Rural	Crossings	Urban	Crossings
Interstate.....	15	Interstate.....	145
Other principal arterial	1,410	Other freeway/expressway	523
Minor arterial.....	4,294	Other principal arterial	7,221
Major collector.....	13,066	Minor arterial.....	12,380
Minor collector.....	12,042	Collector.....	11,633
Local.....	87,452	Local.....	42,273
Total.....	118,279	Total.....	74,175

TABLE 43. TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND STATE

NUMBER OF LANES (BOTH DIRECTIONS)

State	1	2	3	4	5	>5	Total
Alabama.....	958	3,473	24	223	8	11	4,697
Alaska.....	17	189	2	14	2	---	224
Arizona.....	19	831	13	92	19	12	986
Arkansas.....	783	2,655	15	63	---	1	3,517
California.....	470	6,224	177	1,614	164	225	8,874
Colorado.....	193	1,902	23	137	10	6	2,271
Connecticut.....	29	442	7	22	3	---	503
Delaware.....	2	235	4	18	---	1	260
Dist of Columbia.	1	48	1	3	---	2	55
Florida.....	169	3,593	106	345	68	80	4,361
Georgia.....	1,388	5,185	28	208	1	7	6,817
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	493	1,270	9	65	2	2	1,841
Illinois.....	2,495	8,794	52	689	12	19	12,061
Indiana.....	1,425	5,983	49	343	11	17	7,828
Iowa.....	748	5,183	44	217	5	4	6,201
Kansas.....	2,260	6,542	6	292	---	2	9,102
Kentucky.....	1,143	2,392	8	60	---	---	3,603
Louisiana.....	668	3,687	12	199	8	15	4,589
Maine.....	57	902	4	12	---	---	975
Maryland.....	109	718	7	62	3	5	904
Massachusetts....	44	1,089	8	56	1	---	1,198
Michigan.....	453	5,386	60	533	31	42	6,505
Minnesota.....	1,137	5,127	17	273	3	1	6,558
Mississippi.....	391	2,504	8	104	2	5	3,014
Missouri.....	1,457	4,229	12	134	4	4	5,840
Montana.....	236	1,478	3	24	1	---	1,742
Nebraska.....	1,087	3,408	7	82	1	2	4,587
Nevada.....	101	161	1	24	---	1	288
New Hampshire....	39	587	4	25	2	1	658
New Jersey.....	115	1,815	11	141	2	5	2,089
New Mexico.....	269	507	1	37	3	3	820
New York.....	372	3,420	23	136	3	5	3,959
North Carolina...	337	4,875	37	201	13	9	5,472
North Dakota.....	1,186	3,998	1	36	---	---	5,221
Ohio.....	1,235	7,163	60	315	13	12	8,798
Oklahoma.....	903	3,819	6	271	5	2	5,006
Oregon.....	313	2,271	43	94	4	3	2,728
Pennsylvania.....	974	4,826	118	193	2	28	6,141
Rhode Island.....	5	101	---	21	---	---	127
South Carolina...	548	3,507	3	255	2	10	4,325
South Dakota.....	778	1,672	3	52	4	3	2,512
Tennessee.....	757	3,135	20	202	16	6	4,136
Texas.....	2,460	10,158	77	1,161	55	104	14,015
Utah.....	219	867	---	82	1	9	1,178
Vermont.....	130	442	4	9	---	---	585
Virginia.....	37	2,407	26	104	10	11	2,595
Washington.....	333	3,035	71	320	31	14	3,804
West Virginia....	1,227	1,182	9	11	---	1	2,430
Wisconsin.....	275	5,257	12	261	---	9	5,814
Wyoming.....	128	416	1	32	2	---	579
Puerto Rico.....	2	53	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	30,975	149,149	1,237	9,867	527	699	192,454

TABLE 44. TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND WARNING DEVICE CATEGORY

NUMBER OF LANES (BOTH DIRECTIONS)

Warning device	1	2	3	4	5	>5	Total
Gates.....	395	17,845	336	2,963	236	291	22,066
Flashing lights.....	734	27,652	379	3,585	194	234	32,778
Hwy. signals, wigwags, bells	172	1,764	36	231	25	43	2,271
Special warning devices.....	472	5,552	122	574	11	31	6,762
Crossbucks.....	26,161	87,540	280	1,992	45	80	116,098
Stop signs.....	181	741	5	33	---	2	962
Other signs.....	155	502	4	19	---	1	681
No signs or signals.....	2,705	7,553	75	470	16	17	10,836
Total.....	30,975	149,149	1,237	9,867	527	699	192,454

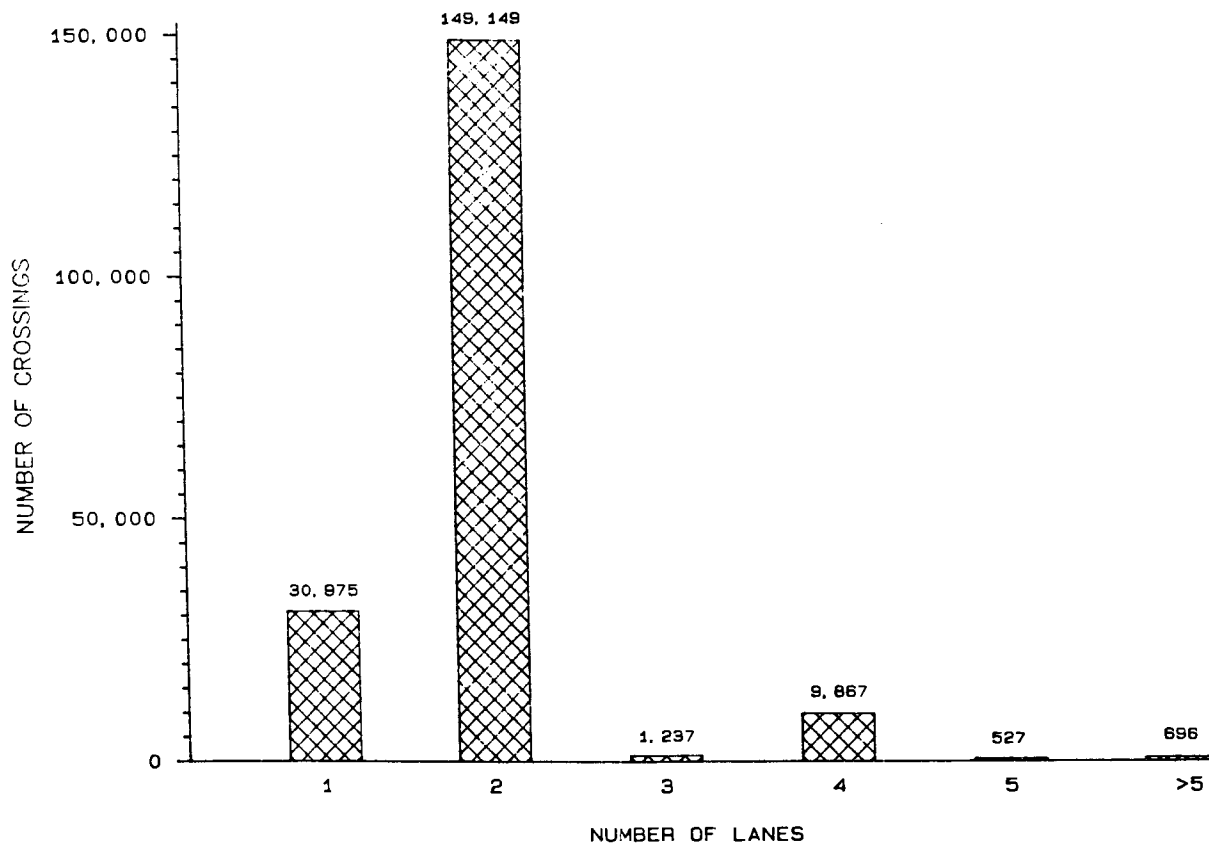


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

WARNING DEVICE DATA

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy.Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	
Alabama.....	187	621	22	56	3,278	72	10	451	4,697
Alaska.....	7	62	---	12	123	5	---	15	224
Arizona.....	262	87	10	88	514	3	---	22	986
Arkansas.....	247	469	22	82	2,537	9	---	151	3,517
California.....	2,980	1,169	411	203	3,825	75	19	192	8,874
Colorado.....	223	329	45	67	1,485	12	1	109	2,271
Connecticut.....	52	169	8	93	64	9	2	106	503
Delaware.....	30	98	2	41	82	1	---	6	260
Dist of Columbia.....	---	3	---	6	15	11	---	20	55
Florida.....	1,890	764	18	135	1,478	5	4	67	4,361
Georgia.....	1,113	481	19	169	4,564	10	11	450	6,817
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	71	206	9	21	1,295	71	5	163	1,841
Illinois.....	1,889	2,829	185	293	6,363	2	5	495	12,061
Indiana.....	905	1,950	124	218	4,346	21	11	253	7,828
Iowa.....	528	1,038	59	83	4,276	5	2	210	6,201
Kansas.....	483	764	82	236	7,308	2	2	225	9,102
Kentucky.....	318	867	25	103	1,858	5	---	427	3,603
Louisiana.....	258	778	12	70	3,092	26	20	333	4,589
Maine.....	67	367	1	133	398	---	1	8	975
Maryland.....	83	201	27	60	425	3	5	100	904
Massachusetts.....	188	452	38	229	235	2	3	51	1,198
Michigan.....	669	1,634	56	178	3,849	8	4	107	6,505
Minnesota.....	336	852	16	52	5,041	49	3	209	6,558
Mississippi.....	66	372	16	60	1,960	229	11	300	3,014
Missouri.....	369	1,148	106	142	3,654	14	2	405	5,840
Montana.....	138	200	3	28	1,251	4	---	118	1,742
Nebraska.....	478	446	12	19	3,447	15	1	169	4,587
Nevada.....	75	28	1	6	167	---	1	10	288
New Hampshire.....	26	155	16	166	259	9	4	23	658
New Jersey.....	382	657	26	367	535	6	3	113	2,089
New Mexico.....	153	102	6	11	526	---	5	17	820
New York.....	895	1,050	93	411	1,298	2	40	170	3,959
North Carolina.....	689	787	32	243	3,192	19	20	490	5,472
North Dakota.....	277	166	2	5	4,473	3	---	295	5,221
Ohio.....	818	2,125	72	106	5,368	12	13	284	8,798
Oklahoma.....	277	746	36	136	3,651	3	8	149	5,006
Oregon.....	341	162	68	115	1,655	75	11	301	2,728
Pennsylvania.....	642	1,258	112	763	2,422	69	346	529	6,141
Rhode Island.....	5	22	19	33	22	5	2	19	127
South Carolina.....	322	553	6	338	2,841	---	16	249	4,325
South Dakota.....	2	180	2	2	2,239	---	1	86	2,512
Tennessee.....	206	664	20	276	2,170	26	2	772	4,136
Texas.....	1,587	2,428	95	163	8,851	26	16	849	14,015
Utah.....	104	200	10	100	619	6	46	93	1,178
Vermont.....	28	208	3	56	268	1	6	15	585
Virginia.....	570	526	19	209	1,088	1	3	179	2,595
Washington.....	168	494	52	72	2,524	20	6	468	3,804
West Virginia.....	152	433	8	49	1,454	8	5	321	2,430
Wisconsin.....	423	1,353	241	206	3,377	1	3	210	5,814
Wyoming.....	83	124	2	4	330	2	2	32	579
Puerto Rico.....	4	1	2	48	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	22,066	32,778	2,271	6,762	116,098	962	681	10,836	192,454

NOTE: "Special" are warning systems that are not train activated, such as, a crossing being flagged by a member of the train crew.

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy. Sig.		Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
			Wigwags	Bells					
Amtrak (National RR Passenger Corp)...	104	17	---	9	23	---	2	2	157
Atchison, Topeka And Santa Fe Rwy Co..	1,786	1,551	191	540	7,385	6	11	40	11,510
Baltimore And Ohio Railroad Co.....	461	1,170	39	107	2,996	17	6	240	5,036
Bangor And Aroostook Railroad Co.....	4	87	---	8	67	---	---	---	166
Bessemer And Lake Erie Railroad Co....	36	25	---	3	77	---	---	2	143
Boston And Maine Corporation.....	204	247	27	245	350	4	4	55	1,136
Burlington Northern Incorporated.....	1,830	2,851	143	331	17,247	125	10	1,366	23,903
Canadian Pacific Lines In Maine.....	3	44	---	4	41	---	---	5	97
Central Vermont Railway Inc.....	21	106	1	---	78	2	2	8	218
Chesapeake And Ohio Railway Company...	403	952	15	55	2,399	5	1	228	4,058
Chicago And Illinois Midland Rwy Co...	6	44	1	3	58	---	---	---	112
Chicago And North Western.....	676	1,461	246	130	5,130	5	6	328	7,982
Chicago South Shore And South Bend RR.	33	46	7	---	38	1	---	1	126
Chicago, Milw, St. Paul And Pacific....	273	579	67	151	1,424	6	2	199	2,701
Consolidated Rail Corporation.....	1,976	4,427	293	1,440	6,785	87	359	1,228	16,595
Delaware And Hudson Railway.....	182	127	3	20	137	1	8	12	490
Denver And Rio Grande Western RR Co...	82	192	2	11	595	6	3	99	990
Duluth, Missabe And Iron Range Rwy Co.	9	39	---	3	152	1	1	---	205
Duluth, Winnipeg And Pacific Rwy Co...	3	17	---	4	67	2	---	---	93
Elgin, Joliet And Eastern Railway Co...	74	60	2	10	57	---	---	---	203
Florida East Coast Railway Co.....	605	28	---	35	41	---	---	6	715
Grand Trunk Western Railroad Co.....	321	433	10	87	701	1	---	12	1,565
Green Bay And Western Railroad.....	8	80	---	1	223	---	---	5	317
Illinois Central Gulf Railroad Co.....	461	1,144	135	133	3,807	95	5	323	6,103
Kansas City Southern Railway Co.....	43	178	5	1	722	---	1	56	1,006
Louisiana And Arkansas Rwy Company....	27	174	---	---	506	---	---	17	724
Maine Central Railroad Company.....	37	229	1	49	227	---	1	4	548
Michigan Interstate Railroad.....	4	27	3	---	47	---	---	---	81
Missouri Pacific Railroad Co.....	713	1,728	47	93	7,182	12	1	626	10,402
Missouri-Kansas-Texas Railroad Co....	187	425	24	19	1,380	3	1	124	2,163
Monogahela Railway.....	---	13	1	---	72	1	---	10	97
Norfolk And Western Railway Co.....	982	1,833	84	170	4,501	8	6	204	7,788
Northwestern Pacific Railroad.....	67	17	5	---	30	---	---	3	122
Pittsburg And Lake Erie Railroad Co...	18	10	2	3	64	---	---	15	112
Richmond, Frederickburg And Potomac...	29	5	2	46	15	---	---	1	98
Seaboard System Railroad.....	2,848	3,066	78	759	11,108	65	20	1,263	19,207
Soo Line Railroad Company.....	233	677	25	7	3,847	4	1	117	4,911
Southern Pacific Transportation Co....	2,905	1,299	390	42	5,911	72	15	595	11,229
Southern Railway Company.....	1,448	1,813	35	515	7,544	30	32	1,662	13,079
Spokane International Railroad.....	9	11	1	---	121	9	1	14	166
St. Louis Southwestern Railway Co.....	194	327	6	21	1,663	3	---	125	2,339
Texas And Northern Railway Company....	---	3	---	---	---	---	---	---	3
Texas, Mexican Railway Company.....	---	62	---	11	156	1	---	8	238
Union Pacific Railroad Co.....	1,132	1,147	112	202	6,410	99	53	558	9,713
All Other Railroads.....	1,629	4,007	268	1,494	14,714	291	129	1,275	23,807
TOTALS	22,066	32,778	2,271	6,762	116,098	962	681	10,836	192,454

WARNING DEVICE CATEGORY

- 8 - Gates
- 7 - Flashing lights
- 6 - Highway signals, wigwags, or bells
- 5 - Special warning devices
- 4 - Crossbucks
- 3 - Stop signs
- 2 - Other signs
- 1 - No signs or signals

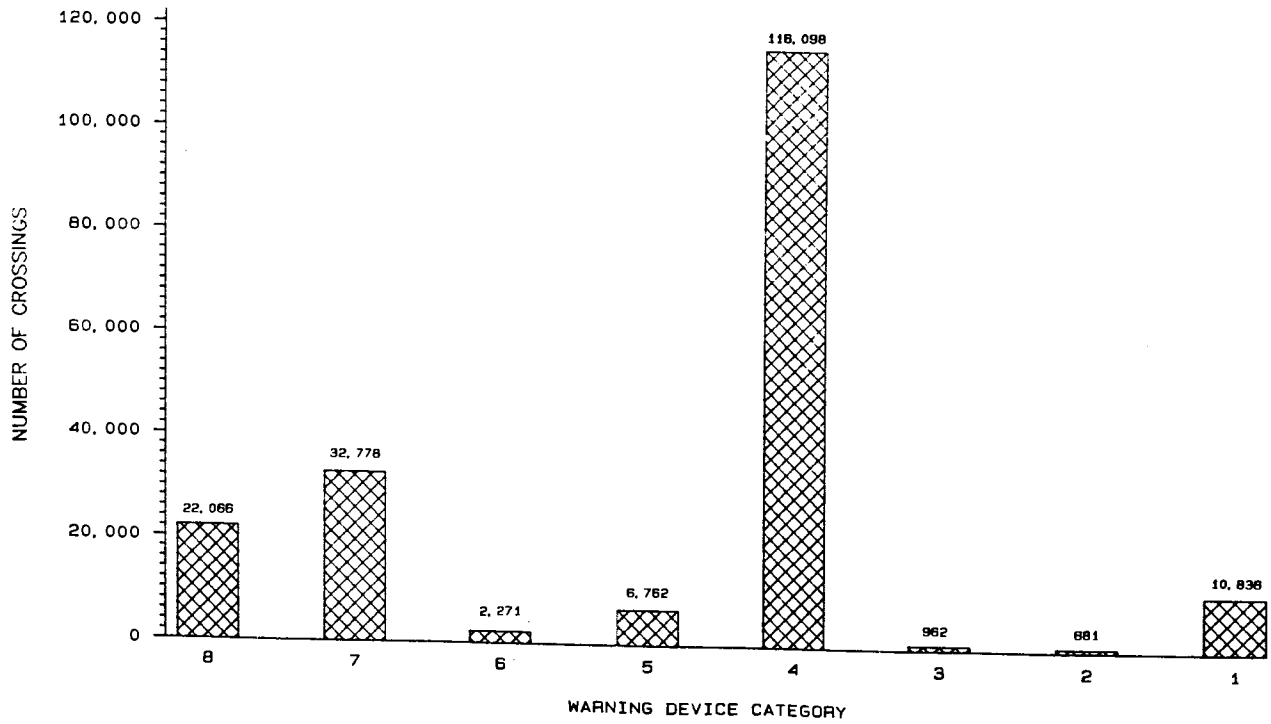


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

PAVEMENT MARKING

State	Stop Lines	RR X-ing Symbol	BothNone.....		Total
				Paved	Unpaved	
Alabama.....	42	140	126	3,270	1,119	4,697
Alaska.....	2	13	30	82	97	224
Arizona.....	43	16	362	312	253	986
Arkansas.....	61	114	220	1,828	1,294	3,517
California.....	1,084	225	5,077	2,149	339	8,874
Colorado.....	27	26	209	1,148	861	2,271
Connecticut.....	18	2	97	380	6	503
Delaware.....	3	22	120	105	10	260
Dist of Columbia.	---	---	32	23	---	55
Florida.....	256	309	2,050	1,244	502	4,361
Georgia.....	57	113	2,805	2,026	1,816	6,817
Hawaii.....	2	---	---	4	---	6
Idaho.....	3	5	293	810	730	1,841
Illinois.....	71	138	1,316	5,006	5,530	12,061
Indiana.....	109	415	1,189	4,859	1,256	7,828
Iowa.....	54	145	568	2,404	3,030	6,201
Kansas.....	6	29	752	2,627	5,688	9,102
Kentucky.....	61	495	577	1,554	916	3,603
Louisiana.....	24	515	267	2,658	1,125	4,589
Maine.....	---	3	575	308	89	975
Maryland.....	18	50	158	619	59	904
Massachusetts....	53	44	120	947	34	1,198
Michigan.....	83	114	734	3,783	1,791	6,505
Minnesota.....	133	167	534	2,463	3,261	6,558
Mississippi.....	16	32	421	1,636	909	3,014
Missouri.....	78	126	581	2,503	2,552	5,840
Montana.....	5	26	209	383	1,119	1,742
Nebraska.....	16	242	206	1,181	2,942	4,587
Nevada.....	4	4	99	63	118	288
New Hampshire....	19	11	38	520	70	658
New Jersey.....	47	86	103	1,732	121	2,089
New Mexico.....	5	20	42	350	403	820
New York.....	128	233	310	2,951	337	3,959
North Carolina...	41	23	4,073	602	733	5,472
North Dakota.....	14	15	159	703	4,330	5,221
Ohio.....	560	676	4,252	2,581	729	8,798
Oklahoma.....	25	27	58	2,600	2,296	5,006
Oregon.....	138	319	515	1,178	578	2,728
Pennsylvania.....	65	345	154	4,890	687	6,141
Rhode Island.....	13	---	7	107	---	127
South Carolina...	99	98	1,258	2,163	707	4,325
South Dakota.....	15	5	77	708	1,707	2,512
Tennessee.....	18	29	216	2,918	955	4,136
Texas.....	3	---	6,564	3,757	3,691	14,015
Utah.....	12	21	158	729	258	1,178
Vermont.....	25	15	76	290	179	585
Virginia.....	109	91	1,159	972	264	2,595
Washington.....	144	27	520	2,335	778	3,804
West Virginia....	26	16	106	1,477	805	2,430
Wisconsin.....	84	40	362	4,545	783	5,814
Wyoming.....	8	22	63	153	333	579
Puerto Rico.....	---	14	---	36	5	55
Unknown.....	---	---	---	---	---	---
Total.....	3,927	5,663	39,997	84,672	58,195	192,454

NOTE: The Manual On Uniform Traffic Control Devices does not require pavement markings at all crossings.

TABLE 48. TOTAL CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE

RAILROAD ADVANCE WARNING

State	Yes	No	Total
Alabama.....	888	3,809	4,697
Alaska.....	114	110	224
Arizona.....	548	438	986
Arkansas.....	845	2,672	3,517
California.....	6,993	1,881	8,874
Colorado.....	1,202	1,069	2,271
Connecticut.....	226	277	503
Delaware.....	224	36	260
Dist of Columbia.	30	25	55
Florida.....	2,640	1,721	4,361
Georgia.....	3,228	3,589	6,817
Hawaii.....	1	5	6
Idaho.....	1,504	337	1,841
Illinois.....	6,065	5,996	12,061
Indiana.....	6,336	1,492	7,828
Iowa.....	4,064	2,137	6,201
Kansas.....	3,833	5,269	9,102
Kentucky.....	833	2,770	3,603
Louisiana.....	2,700	1,889	4,589
Maine.....	947	28	975
Maryland.....	396	508	904
Massachusetts....	883	315	1,198
Michigan.....	4,579	1,926	6,505
Minnesota.....	3,404	3,154	6,558
Mississippi.....	643	2,371	3,014
Missouri.....	1,172	4,668	5,840
Montana.....	760	982	1,742
Nebraska.....	2,660	1,927	4,587
Nevada.....	218	70	288
New Hampshire....	466	192	658
New Jersey.....	747	1,342	2,089
New Mexico.....	167	653	820
New York.....	2,961	998	3,959
North Carolina...	4,261	1,211	5,472
North Dakota.....	952	4,269	5,221
Ohio.....	5,507	3,291	8,798
Oklahoma.....	1,000	4,006	5,006
Oregon.....	1,782	946	2,728
Pennsylvania.....	2,191	3,950	6,141
Rhode Island.....	20	107	127
South Carolina...	2,457	1,868	4,325
South Dakota.....	918	1,594	2,512
Tennessee.....	676	3,460	4,136
Texas.....	10,727	3,288	14,015
Utah.....	470	708	1,178
Vermont.....	352	233	585
Virginia.....	1,836	759	2,595
Washington.....	2,481	1,323	3,804
West Virginia....	509	1,921	2,430
Wisconsin.....	3,441	2,373	5,814
Wyoming.....	255	324	579
Puerto Rico.....	32	23	55
Unknown.....	—	—	—
Total.....	102,144	90,310	192,454

NOTE: The Manual On Uniform Traffic Control Devices does not require pavement markings at all crossings.

TABLE 49. TOTAL CROSSINGS MEETING THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' STANDARD FOR CROSSBUCKS BY STATE

State	Active Warning	X-buck meet standards		Total
		Yes	No	
Alabama.....	830	1,570	2,297	4,697
Alaska.....	69	60	95	224
Arizona.....	359	498	129	986
Arkansas.....	738	1,906	873	3,517
California.....	4,560	1,943	2,371	8,874
Colorado.....	597	1,113	561	2,271
Connecticut.....	229	115	159	503
Delaware.....	130	94	36	260
Dist of Columbia.	3	14	38	55
Florida.....	2,672	1,135	554	4,361
Georgia.....	1,613	4,041	1,163	6,817
Hawaii.....	---	4	2	6
Idaho.....	286	904	651	1,841
Illinois.....	4,903	5,515	1,643	12,061
Indiana.....	2,979	3,723	1,126	7,828
Iowa.....	1,625	3,349	1,227	6,201
Kansas.....	1,329	3,053	4,720	9,102
Kentucky.....	1,210	1,399	994	3,603
Louisiana.....	1,048	2,939	602	4,589
Maine.....	435	496	44	975
Maryland.....	311	248	345	904
Massachusetts....	678	305	215	1,198
Michigan.....	2,359	3,725	421	6,505
Minnesota.....	1,204	4,795	559	6,558
Mississippi.....	454	1,500	1,060	3,014
Missouri.....	1,623	1,512	2,705	5,840
Montana.....	341	1,032	369	1,742
Nebraska.....	936	3,138	513	4,587
Nevada.....	104	104	80	288
New Hampshire....	197	42	419	658
New Jersey.....	1,065	379	645	2,089
New Mexico.....	261	305	254	820
New York.....	2,038	1,028	893	3,959
North Carolina...	1,508	2,092	1,872	5,472
North Dakota.....	445	2,755	2,021	5,221
Ohio.....	3,015	3,258	2,525	8,798
Oklahoma.....	1,059	1,280	2,667	5,006
Oregon.....	571	959	1,198	2,728
Pennsylvania.....	2,012	1,460	2,669	6,141
Rhode Island.....	46	2	79	127
South Carolina...	881	2,584	860	4,325
South Dakota.....	184	1,987	341	2,512
Tennessee.....	890	1,208	2,038	4,136
Texas.....	4,110	4,069	5,836	14,015
Utah.....	314	453	411	1,178
Vermont.....	239	191	155	585
Virginia.....	1,115	947	533	2,595
Washington.....	714	1,644	1,446	3,804
West Virginia....	593	938	899	2,430
Wisconsin.....	2,017	2,636	1,161	5,814
Wyoming.....	209	212	158	579
Puerto Rico.....	7	16	32	55
Unknown.....	---	---	---	---
Total.....	57,115	80,675	54,664	192,454

NOTE: The manual requires two reflectorized crossbucks to be placed at all crossings.

For crossings with active warning devices, a determination has not been made as to whether crossbucks which are part of the device meet the MUTCD standard.

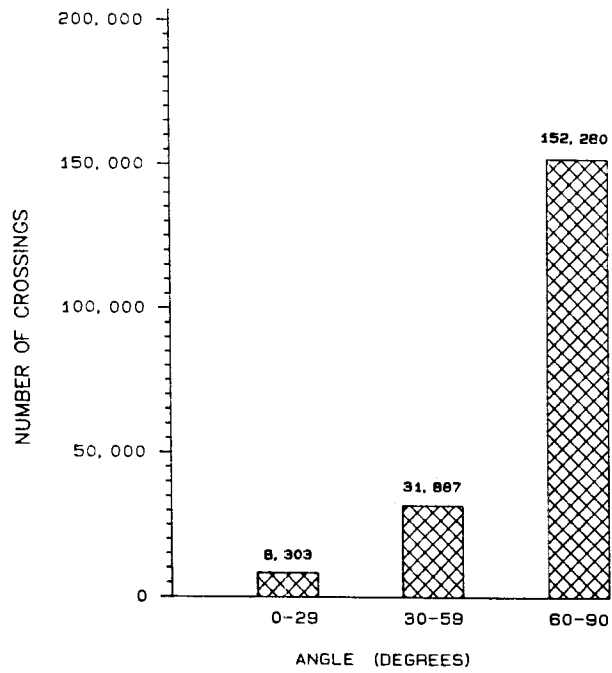


FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

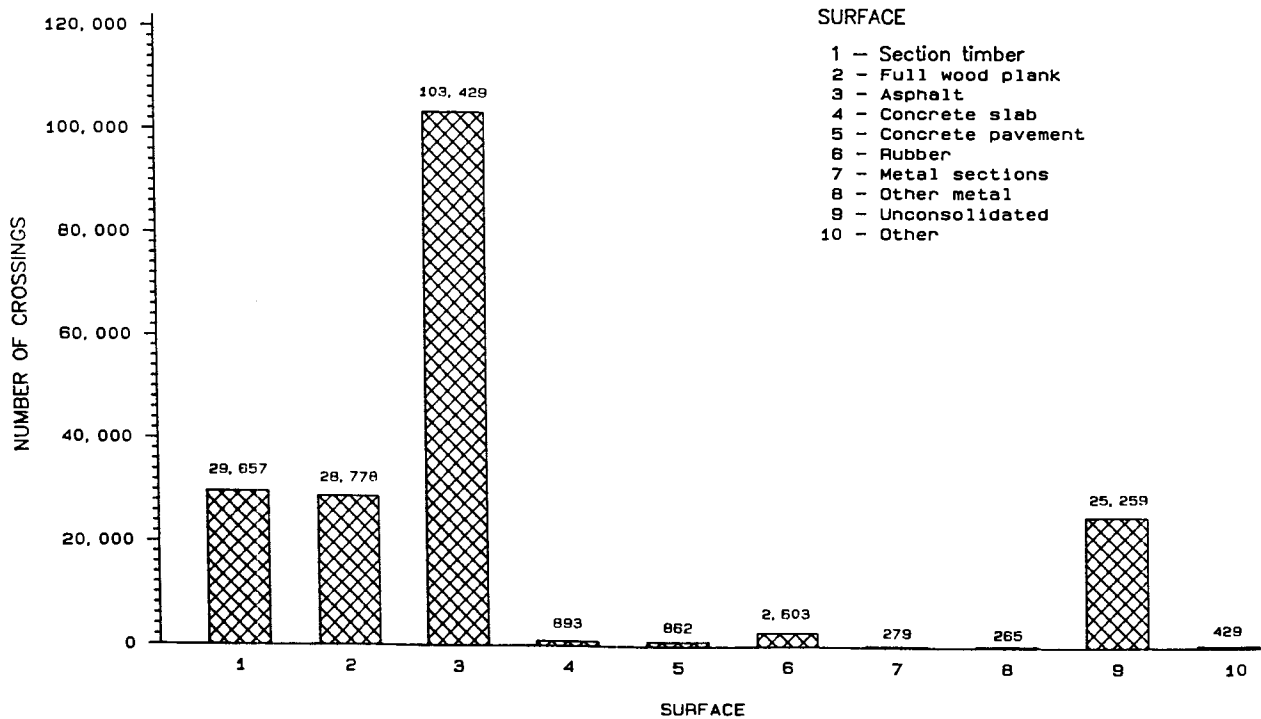


FIGURE 31. CROSSINGS BY CROSSING SURFACE

**OPERATIONAL CHARACTERISTICS
TRAIN TRAFFIC DATA**

TABLE 50. TOTAL CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

<u>Trains</u>	<u>Crossings</u>
<1	30,667
1-5	89,409
6-10	32,225
11-15	12,760
16-20	10,869
21-25	5,991
26-30	3,932
31-35	2,098
36-40	1,398
41-45	801
46-50	742
51-55	316
56-60	414
61-65	248
66-70	79
71-75	74
76-80	149
81-85	25
86-90	19
91-95	15
96-100	63
>100	160
Total	192,454

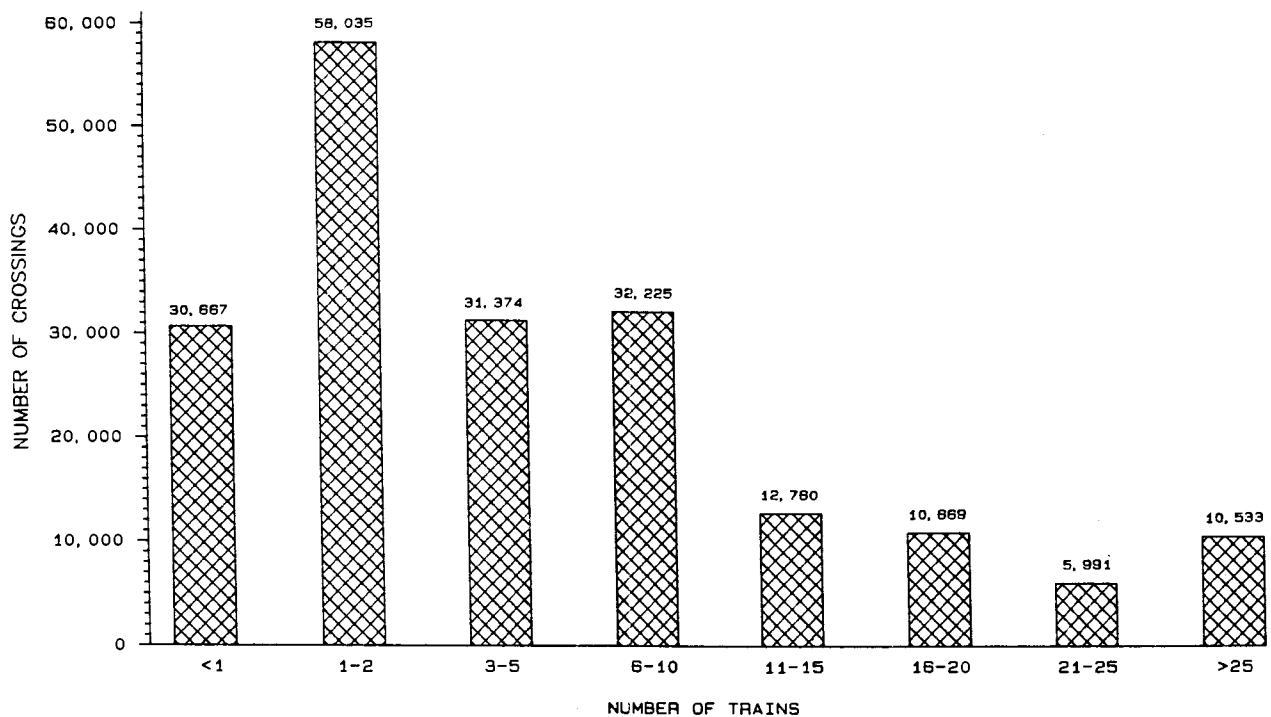


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

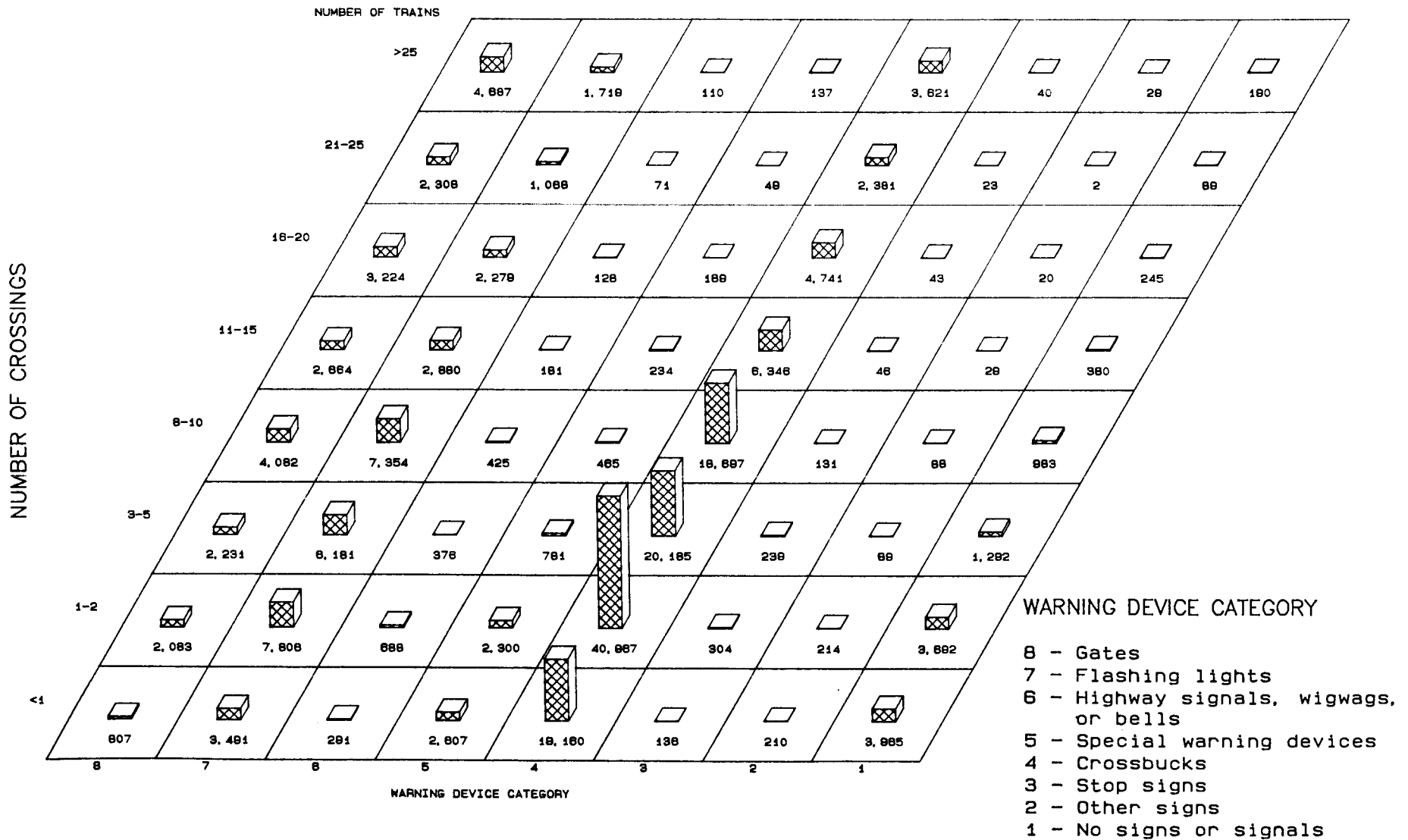


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

TABLE 51. TOTAL CROSSINGS BY NUMBER OF THRU TRAINS AND SWITCHING TRAINS PER DAY

Switching Trains	Through trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	30,667	34,531	15,152	14,426	5,467	5,112	2,671	4,017	112,043
1-2	21,507	9,608	7,255	5,901	2,720	1,709	857	1,353	50,910
2-3	5,614	1,784	2,193	2,881	1,237	682	391	659	15,441
6-10	3,075	834	870	1,257	1,053	1,063	480	593	9,225
11-15	674	153	184	246	107	105	94	402	1,965
16-20	575	104	102	205	87	100	115	225	1,513
21-25	167	32	20	54	16	17	31	71	408
>25	335	83	76	122	100	68	27	138	949
Total	62,614	47,129	25,852	25,092	10,787	8,856	4,666	7,458	192,454

TABLE 52. TOTAL CROSSINGS BY NUMBER OF DAY AND NIGHT TRAINS PER DAY

Day Trains	Night trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	30,667	8,236	1,244	293	9	5	4	5	40,463
1-2	35,150	30,694	3,506	508	18	4	1	2	69,883
2-3	5,459	11,777	17,290	1,601	101	166	2	2	36,398
6-10	2,042	2,559	6,235	14,851	1,344	145	8	19	27,203
11-15	241	270	605	3,380	5,466	586	10	31	10,589
16-20	91	36	117	671	1,246	1,801	216	113	4,291
21-25	43	24	9	129	375	231	661	84	1,556
>25	68	9	8	68	193	272	331	1,122	2,071
Total	73,761	53,605	29,014	21,501	8,752	3,210	1,233	1,378	192,454

TABLE 53. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

Warning device	NUMBER OF TRAINS								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
Gates.....	807	2,063	2,231	4,082	2,664	3,224	2,308	4,687	22,066
Flashing lights.....	3,491	7,806	6,181	7,354	2,880	2,279	1,068	1,719	32,778
Hwy. signals, wigwags, bells	291	689	376	425	181	128	71	110	2,271
Special warning devices.....	2,607	2,300	781	465	234	189	49	137	6,762
Crossbucks.....	19,160	40,967	20,185	18,697	6,346	4,741	2,381	3,621	116,098
Stop signs.....	136	304	239	131	46	43	23	40	962
Other signs.....	210	214	89	88	29	20	2	29	681
No signs or signals.....	3,965	3,692	1,292	983	380	245	89	190	10,836
Total.....	30,667	58,035	31,374	32,225	12,760	10,869	5,991	10,533	192,454

TABLE 54. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

Trains	Average annual daily traffic						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	
<1	13,088	3,711	3,482	6,843	2,114	1,429	30,667
1-2	31,045	6,559	5,857	9,849	2,839	1,886	58,035
2-3	15,603	3,687	3,227	5,958	1,720	1,179	31,374
6-10	15,651	3,837	3,498	6,182	1,884	1,173	32,225
11-15	5,897	1,393	1,345	2,694	831	600	12,760
16-20	4,686	1,272	1,282	2,347	780	502	10,869
21-25	2,508	692	656	1,377	445	313	5,991
>25	4,104	1,143	1,174	2,517	953	642	10,533
Total	92,582	22,294	20,521	37,767	11,566	7,724	192,454

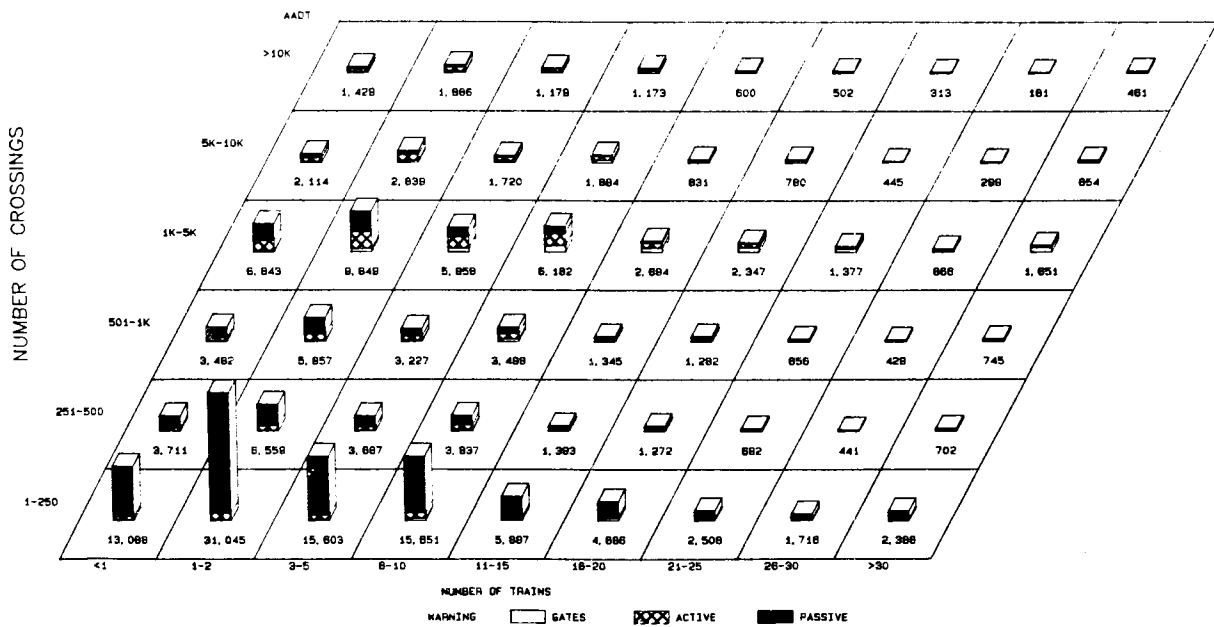


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

TRAIN SPEED DATA**TABLE 55. TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED**

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	8,469
6-10	30,691
11-15	13,676
16-20	14,285
21-25	21,984
26-30	22,495
31-35	13,545
36-40	20,331
41-45	4,371
46-50	16,568
51-55	2,510
56-60	10,176
61-65	1,242
66-70	4,404
71-75	681
76-80	5,918
81-85	11
86-90	830
91-95	1
96-100	8
>100	258
Total	192,454

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

<u>Speed Variation</u>	<u>Crossings</u>
<1	13,739
1-5	51,150
6-10	46,500
11-15	19,602
16-20	17,790
21-25	9,790
26-30	10,337
31-35	5,351
36-40	5,217
41-45	2,718
46-50	4,258
51-55	1,061
56-60	2,132
61-65	704
66-70	435
71-75	658
76-80	694
81-85	55
86-90	60
91-95	---
96-100	---
>100	203
Total	192,454

NOTE: Typical speed variation is the difference between normal maximum speed and normal minimum speed.

HIGHWAY TRAFFIC DATA

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

<u>AADT</u>	<u>Crossings</u>
1-100	65,552
101-200	18,165
201-300	14,932
301-400	7,844
401-500	8,383
501-600	4,991
601-700	3,525
701-800	4,864
801-900	2,753
901-1,000	4,388
1,001-2,000	17,149
2,001-3,000	9,573
3,001-4,000	5,850
4,001-5,000	5,195
5,001-6,000	3,171
6,001-7,000	2,363
7,001-8,000	2,412
8,001-9,000	1,736
9,001-10,000	1,884
10,001-20,000	6,091
>20,000	1,633
Total	192,454

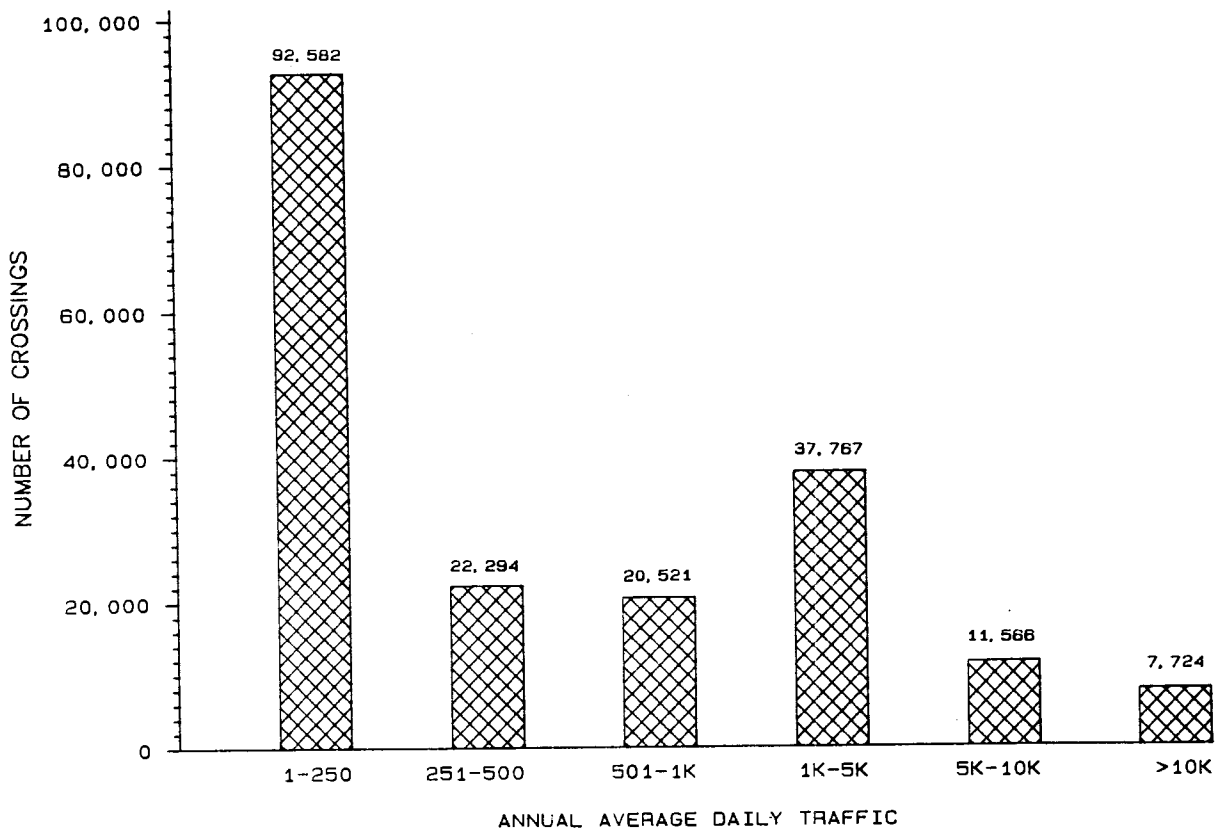


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

TABLE 58. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

Warning device	ANNUAL AVERAGE DAILY TRAFFIC							Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000		
Gates.....	2,940	2,167	2,852	8,025	3,367	2,715	22,066	
Flashing lights.....	4,544	3,671	4,961	12,386	4,310	2,906	32,778	
Hwy. signals, wigwags, bells	659	271	315	598	220	208	2,271	
Special warning devices.....	1,508	844	871	2,167	828	544	6,762	
Crossbucks.....	76,318	13,864	10,182	12,435	2,254	1,045	116,098	
Stop signs.....	489	134	122	172	30	15	962	
Other signs.....	288	148	96	102	37	10	681	
No signs or signals.....	5,836	1,195	1,122	1,882	520	281	10,836	
Total.....	92,582	22,294	20,521	37,767	11,566	7,724	192,454	

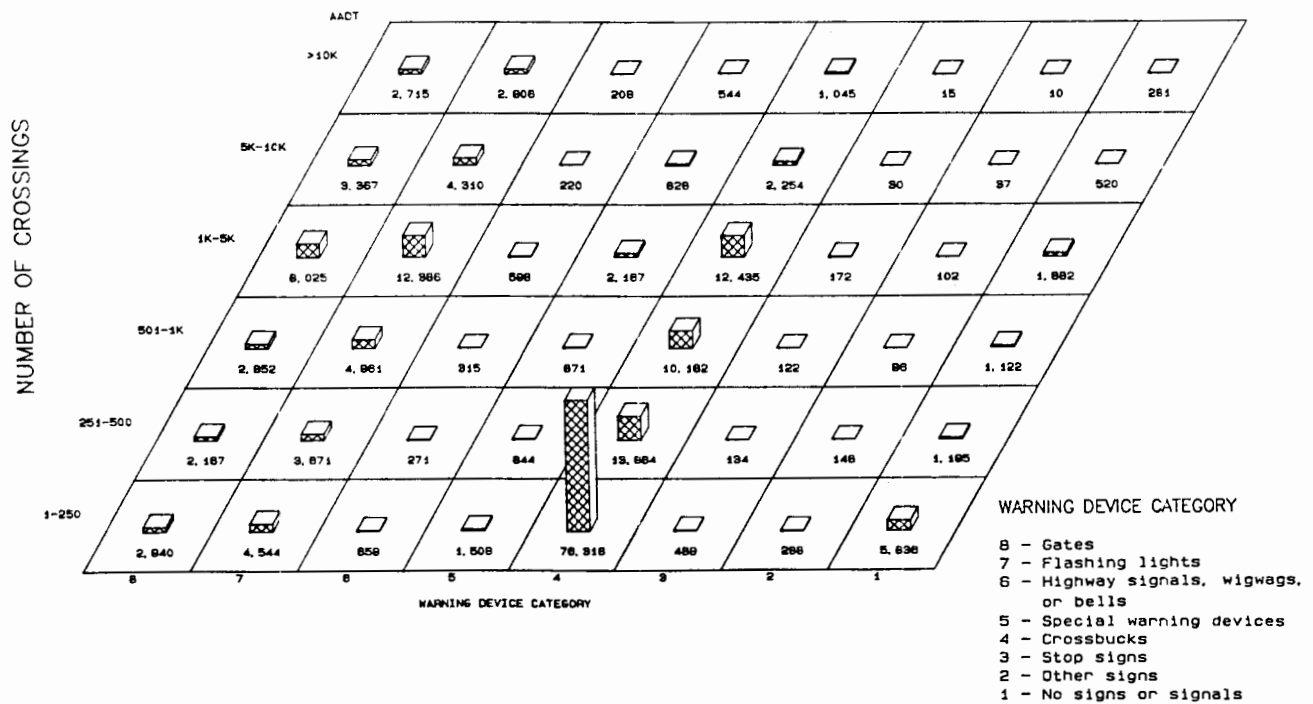


FIGURE 36. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

TABLE 59. TOTAL CROSSINGS BY TRUCK TRAFFIC AS A PERCENTAGE OF ANNUAL AVERAGE DAILY TRAFFIC

%	Crossings
<1	7,539
1-5	78,611
6-10	67,735
11-15	18,240
16-20	9,334
21-25	2,258
26-30	5,426
31-35	407
36-40	1,118
41-45	158
46-50	1,105
51-55	21
56-60	172
61-65	7
66-70	61
71-75	119
76-80	73
81-85	5
86-90	54
91-95	1
96-99	10
Total	192,454

TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
ALABAMA	121	375	3,627	2	2	4	2	1	563	---
ALASKA	15	125	44	19	2	14	---	---	3	2
ARIZONA	106	259	520	1	2	28	---	---	70	---
ARKANSAS	555	240	1,892	2	9	8	---	2	802	7
CALIFORNIA	933	1,382	6,330	27	12	16	---	---	160	14
COLORADO	646	419	822	1	4	58	11	35	260	15
CONNECTICUT	105	4	357	4	2	24	2	---	3	2
DELAWARE	19	8	200	1	11	15	---	---	6	---
DIST OF COLUMBIA	6	1	31	---	17	---	---	---	---	---
FLORIDA	926	57	2,898	139	11	112	7	1	155	55
GEORGIA	130	128	5,905	23	31	---	1	1	597	1
HAWAII	---	---	6	---	---	---	---	---	---	---
IDAHO	177	994	528	1	---	11	---	---	114	16
ILLINOIS	2,645	1,529	6,404	36	44	416	10	9	1,548	20
INDIANA	1,482	244	5,478	7	21	212	9	4	364	7
IOWA	101	1,309	2,784	4	15	112	1	2	1,823	50
KANSAS	2,643	1,562	1,572	7	6	12	5	1	3,282	12
KENTUCKY	435	391	2,014	4	14	40	2	3	700	---
LOUISIANA	583	693	2,006	7	12	371	1	85	812	19
MAINE	57	244	657	---	---	8	---	---	7	2
MARYLAND	183	14	611	2	14	41	5	---	25	9
MASSACHUSETTS	65	29	1,007	8	---	73	1	---	15	---
MICHIGAN	1,926	846	2,864	14	10	197	175	1	463	9
MINNESOTA	139	3,437	2,483	42	10	19	---	1	417	10
MISSISSIPPI	147	363	1,602	2	4	68	1	1	825	1
MISSOURI	1,521	514	2,273	11	6	30	3	4	1,473	5
MONTANA	25	1,314	327	16	2	3	---	3	21	31
NEBRASKA	1,007	657	841	5	42	45	2	2	1,971	15
NEVADA	53	58	92	13	---	16	---	---	49	7
NEW HAMPSHIRE	57	82	496	3	---	3	---	---	16	1
NEW JERSEY	79	15	1,787	22	34	29	3	14	91	15
NEW MEXICO	506	153	51	---	2	9	---	---	99	---
NEW YORK	611	207	2,812	13	14	162	---	3	131	6
NORTH CAROLINA	23	48	4,987	9	12	3	2	1	379	8
NORTH DAKOTA	62	4,012	558	57	2	17	---	---	502	11
OHIO	2,484	211	5,643	12	28	60	1	10	335	14
OKLAHOMA	1,571	397	1,371	9	15	18	1	6	1,607	11
OREGON	230	623	1,653	9	9	1	2	5	195	1
PENNSYLVANIA	1,008	76	4,262	65	246	42	2	19	419	2
RHODE ISLAND	1	1	122	---	---	2	---	---	---	1
SOUTH CAROLINA	35	16	3,821	58	10	---	3	1	380	1
SOUTH DAKOTA	9	1,647	589	1	---	45	1	1	211	8
TENNESSEE	173	326	3,102	7	2	7	2	11	505	1
TEXAS	4,838	1,140	5,222	77	109	122	6	19	2,477	5
UTAH	244	227	560	11	7	13	2	7	103	4
VERMONT	50	49	377	---	1	7	---	---	101	---
VIRGINIA	247	58	2,082	6	6	4	8	11	151	22
WASHINGTON	72	1,599	1,948	118	9	15	2	1	39	1
WEST VIRGINIA	1,005	12	950	3	5	8	---	---	447	---
WISCONSIN	159	475	4,648	14	45	71	6	---	395	1
WYOMING	42	208	165	1	1	12	---	---	143	7
PUERTO RICO	---	---	48	---	2	---	---	---	5	---
TOTALS	29,657	28,778	103,429	893	862	2,603	279	265	25,259	429

TABLE 61. TOTAL CROSSINGS BY MAXIMUM TIME TABLE SPEED, WARNING DEVICE CATEGORY AND NUMBER OF TRACKS

SINGLE TRACK WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	740	1202	1675	1388	1252	861	814	560	45	2	0	0	8539
FLASHING LIGHTS.....	4000	3576	5657	4123	2666	1256	332	338	45	1	1	0	21995
HWY. SIGNALS, WIGWAGS, BELLS	419	259	327	211	76	68	9	11	4	0	0	0	1384
SPECIAL WARNING DEVICES.....	3178	839	455	128	69	22	16	36	14	2	0	0	4759
CROSSBUCKS.....	14965	11555	23629	18464	10031	5612	1175	1940	282	0	2	0	87655
STOP SIGNS.....	268	103	154	85	46	17	16	12	0	0	0	0	701
OTHER SIGNS.....	209	119	106	22	16	0	2	12	0	0	0	0	486
NO SIGNS OR SIGNALS.....	4241	1644	1221	535	339	98	49	109	0	0	0	0	8236
TOTAL.....	28020	19297	33224	24956	14495	7934	2413	3018	390	5	3	0	133755
MULTIPLE TRACKS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	831	1433	2133	2117	1928	1728	1572	1627	156	1	1	0	13527
FLASHING LIGHTS.....	1788	1728	2458	1931	1292	771	353	423	36	2	0	1	10783
HWY. SIGNALS, WIGWAGS, BELLS	191	143	192	130	62	68	59	29	13	0	0	0	887
SPECIAL WARNING DEVICES.....	1274	346	211	61	51	23	19	14	3	1	0	0	2003
CROSSBUCKS.....	5728	4355	5895	4516	2990	2100	1176	1441	242	0	0	0	28443
STOP SIGNS.....	118	43	46	11	16	8	12	7	0	0	0	0	261
OTHER SIGNS.....	60	66	31	20	13	2	2	1	0	0	0	0	195
NO SIGNS OR SIGNALS.....	1403	550	289	134	92	52	40	39	1	0	0	0	2600
TOTAL.....	11393	8664	11255	8920	6444	4752	3233	3581	451	4	1	1	58699
ALL CROSSINGS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	1571	2635	3808	3505	3180	2589	2386	2187	201	3	1	0	22066
FLASHING LIGHTS.....	5788	5304	8115	6054	3958	2027	685	761	81	3	1	1	32778
HWY. SIGNALS, WIGWAGS, BELLS	610	402	519	341	138	136	68	40	17	0	0	0	2271
SPECIAL WARNING DEVICES.....	4452	1185	666	189	120	45	35	50	17	3	0	0	6762
CROSSBUCKS.....	20693	15910	29524	22980	13021	7712	2351	3331	524	0	2	0	116098
STOP SIGNS.....	386	146	200	96	62	25	28	19	0	0	0	0	962
OTHER SIGNS.....	269	185	137	42	29	2	4	13	0	0	0	0	681
NO SIGNS OR SIGNALS.....	5644	2194	1510	669	431	150	89	148	1	0	0	0	10836
TOTAL.....	39413	27961	44479	33876	20939	12686	5646	6599	841	9	4	1	192454

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1986 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more state circumstances.

- (a) An impact occurs between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian or other highway user at a rail-highway crossing.
- (b) Any collision, derailment, fire, explosion, act of GOD or other event involving the operation of railroad on-track equipment (standing or moving) which results in more than \$4,900 in damages to railroad on-track equipment, signals, track and/or track structures, and roadbed.
- (c) Any event arising from the operation of a railroad which results in:
 - (i) death of one or more persons;
 - (ii) injury to one or more persons, other than railroad employees, requiring medical treatment;
 - (iii) injury to one or more employees requiring medical treatment or resulting in restriction of work or motion for one or more days, one or more lost work days, transfer to another job, termination of employment or loss of consciousness;
 - (iv) any occupational illness of railroad employee diagnosed by a physician.

DEFINITIONS

Annual average daily traffic. An estimate of the annual average daily highway traffic in both traffic directions.

Active warning devices. A warning system activated by an approaching train: gates, flashing lights, highway signal, wigwags, or bells.

Car. A railway car designed to carry freight, railroad personnel, or passengers. This includes boxcars, covered hopper cars, flatcars, refrigerator cars, gondola cars, hopper cars, tank cars, cabooses, stock cars, ventilation cars, and special cars. Also includes on-track maintenance equipment.

Class I railroad. A railroad with an annual gross operating revenue in excess of \$50 million based on 1978 dollars.

Class II railroad. A railroad with an annual gross operating revenue of between \$10 and \$50 million based on 1978 dollars.

Class III railroads. All switching and terminal companies, and all railroads with annual operating revenues of less than \$10 million based on 1978 dollars.

Commercial power. A source of commercial power within 500 feet of a crossing.

Consist. On-track railroad equipment such as a train, locomotive, group of railroad cars, or a single railcar not coupled to another car or to a locomotive.

Contractor employee. A person employed by a contractor hired by a railroad to perform normal maintenance work to railroad rolling stock, track structure, bridges, buildings, etc.

Crossing surfaces.

1. Sectional treated timber. Prefabricated units approximately eight feet long, made of treated timber, individually installed, and removable for maintenance and replacement purpose.

2. Full wood plank. A wood surface, other than sectional treated timber, covering the entire crossing area above crossties.

3. Asphalt. A surface over the entire crossing area or the area between planks or other material which forms flangeway openings with or without single planks on the outside of running rails.

4. Concrete slab. Precast concrete slabs which are installed and individually removable for maintenance and replacement.

5. Concrete pavement. A continuous concrete surface over the track area which cannot be removed except by destruction of the surface.

6. Rubber slabs. Preformed rubber sections which can be installed and removed individually for maintenance and replacement.

7. Metal sections. Preformed sections of steel or other metal which can be individually installed and removed for maintenance and replacement.

8. Other metal. A crossing area completed with covered rails or other permanent metal materials in limited sectional units.

9. Unconsolidated. Ballast or other unconsolidated material placed above the tops of crossties with or without planks on one or both sides of running rail.

Daylight train movements. Train movements between 6 a.m. and 6 p.m.

Employee. A person engaged in railroad operations who works for a railroad company in return for financial or other compensation.

Employee not on duty. A railroad employee who is on railroad property for a purpose connected with his employment or with other railroad permission, but who is not engaged in rail operations for financial or other compensation.

Fatality. The death of a person resulting from an injury incurred during railroad operations or resulting from an occupational illness if death occurs within 365 days of initial diagnosis.

Flashing lights. Cantilevered flashing lights, mast mounted flashing lights, and other flashing lights not conforming with the latest "Manual on Uniform Traffic Control Devices" (MUTCD).

Highway signals. Train-activated highway lights (red-amber-green) that control highway traffic over the crossing.

Locomotive. A self-propelled unit of on-track equipment designed for moving other rail freight and passenger equipment on rail tracks, including self-propelled units.

Main track. Any track other than auxiliary track that extends through railroad yards or between stations and over which trains operate by time-table and/or train orders or the use of the track is governed by a signal system.

Maximum timetable speed. Maximum train speed permitted over a crossing.

Nearby intersecting highway. A highway intersection within 75 feet of the crossing.

Night train movements. Train movements between 6 p.m. and 6 a.m.

Non-trespasser. A person who is lawfully on any part of railroad property which is used in railroad operations or a person who is adjacent to railroad premises when injured as the result of railroad operations.

Number of crossbucks. Masts with crossbucks; a mast with two or more crossbucks is counted as one. A crossbuck on an active device is not counted.

On-track equipment. Railroad rolling stock used to transport freight or passenger. It includes locomotives, railroad cars, maintenance equipment, and one or more locomotives coupled to one or more cars.

Other signs. Signs other than crossbucks or stop signs.

Other stop signs. Stop signs other than standard highway stop signs.

Passenger. A person who is on, boarding, or alighting from a railroad car for the purpose of travel, without participating in its operation.

Passive warning device. A warning system not automatically activated by an approaching train: signs (crossbucks or standard highway signs) or special warning devices (manually operated gates, flood lights, etc.).

Pavement markings. Markings prescribed or generally similar to those in highway traffic manuals, in particular, stoplines and railroad crossing symbols.

Percentage trucks. The percentage of total daily highway traffic represented by trucks.

Public crossing. A location open to public travel where railroad tracks cross a road that is under the jurisdiction and maintenance of a public authority.

Rail-highway crossing. A location where one or more railroad tracks intersect a public or private thoroughfare, a side walk, or a pathway.

Railroad. Any surface transportation system which carries passengers, goods, materials, or property over rails.

Railroad advance warning. Advance warning signs on any highway approach.

Rural crossing. A crossing classification derived from the Functional Classification Code.

Signals for train operation. Automatic signals or interlocks which control train operations in the vicinity of a crossing.

Smallest crossing angle. The smallest angle between the highway and the track.

Special warning devices. Non-train-activated devices other than signs including manually operated gates, train crews flagging a crossing, watchmen, and flood lights.

Speed selection for trains. A uniform warning time for the speed range of trains normally encountered at the crossing.

Standard highway stop sign. Octagonal red sign with white lettering STOP.

Stop signs. The standard highway stop sign or other stop signs.

Switch trains. All trains other than thru trains, including locals, industrial runs, and switch engines.

Thru trains. Trains whose primary responsibility is to move cars over the road; they may have a limited number of pickups and setouts along the route.

Total train movements. All train movements for the reporting company and all other railroads operating over the crossing.

Traffic lanes. Number of highway traffic lanes not including shoulders or parking lanes.

Trespasser. Any person whose presence on railroad property used in railroad operations, is prohibited or unlawful.

Truck pullout lane. A special lane designed to accommodate vehicles which are required to stop at a crossing.

Type of development.

1. Open space. An area that is undeveloped, sparsely developed, very lightly populated, or agricultural.
2. Residential. An area comprised of private residences.
3. Commercial. An area with retail stores, businesses, offices, and personal service offices.
4. Industrial. An area with manufacturing, construction, heavy products, factories, and warehouses.
5. Institutional. An area with schools, churches, hospitals, parks, and other community facilities.

Urban crossing. A crossing classification derived from the Functional Classification Code.

Warning device category. At crossings which have more than one warning device, the warning category is determined by the following method:

Highest	8)	Gates ¹
	7)	Flashing lights ¹
	6)	Highway signals, wigwags or bells
	5)	Special warning devices
	4)	Crossbucks
	3)	Stop signs
	2)	Other signs
Lowest	1)	No signs or signals

¹When cantilevered flashing lights are categorized separately, they are ranked eighth and gates are ranked ninth.

APPENDIX B: REPORTING FORMS

FORMS

Three separate forms may be required to properly report a rail-highway crossing accident/incident:

- FRA F 6180-57 Grade Crossing Accident/Incident Report
- FRA F 6180-55 Railroad Injury and Illness Summary
- FRA F 6180-54 Rail Equipment Accident/Incident Report

For all reportable rail-highway crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than \$4,900 in damages to railroad on-track equipment, signals, track, track structures, or roadbed, Form FRA 6180-54 must also be submitted.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

*Form Approved
OMB No. 04-R4009*

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH & YEAR	4. STATE ALPHABETIC CODE	5. COUNTY
NAME OF REPORTING OFFICER			OFFICIAL TITLE	
ADDRESS			TELEPHONE (Area Code) (Number)	

6. I, _____, being first duly sworn, do say upon my oath that I am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief.

Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19 ____.

(Use an impression seal) _____
[L.S.] _____
_____ (Notary Public) _____ (Signature of affiant)

7. MILES RUN DURING MONTH

A. LOCOMOTIVE TRAIN MILES	B. MOTOR TRAIN MILES	C. YARD SWITCHING MILES	D. TOTAL
----------------------------------	-----------------------------	--------------------------------	-----------------

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED
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TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57
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SECTION A—RECAPITULATION OF ALL CASUALTIES INCLUDING HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								CLASS OF PERSON FOR SECTIONS A AND B	SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES							
TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL			TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj		Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
								1. Employees on duty								
								2. Employees not on duty								
								3. Passengers on trains								
								4. Other nontrespassers								
								5. Trespassers (all classes)								
								6. Contractor Employees								
								7. GRAND TOTAL								

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

FORM FRA F 6180-55 (8-76) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

This report is required by law (45 USC 40). Failure to report can result in the imposition of civil penalties.

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER			5. DATE OF ACCIDENT/INCIDENT month day year	6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) CODE				
1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify) 2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion-Detonation				

HAZARDOUS MATERIALS (number of)

8. CARS CARRYING	9. CARS DAMAGED OR DERAILED	10. CARS WHICH RELEASED HAZ. MAT.	11. PEOPLE EVACUATED (est.)
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LOCATION

12. DIVISION	13. NEAREST STATION	14. MILEPOST (to nearest tenth)	15. STATE (two letter code) CODE
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ENVIRONMENTAL CONDITIONS

16. TEMPERATURE (specify if minus) °F	17. VISIBILITY (single entry) CODE 1. Dawn 3. Dusk 2. Day 4. Dark	18. WEATHER (single entry) CODE 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow
---------------------------------------	--	---

OPERATIONAL DATA

19. METHOD (place X in appropriate box(es))				
1 <input type="checkbox"/> Manual block	4 <input type="checkbox"/> Automatic block	7 <input type="checkbox"/> Yard rules	10 <input type="checkbox"/> Auto. train control	13 <input type="checkbox"/> Other (specify)
2 <input type="checkbox"/> Interlocking	5 <input type="checkbox"/> Traffic control	8 <input type="checkbox"/> Time table	11 <input type="checkbox"/> Verbal permission	
3 <input type="checkbox"/> Cab signal	6 <input type="checkbox"/> Auto. train stop	9 <input type="checkbox"/> Radio	12 <input type="checkbox"/> Train orders	
20. SPEED (recorded speed, if available) Est. MPH Recorded MPH		21. TRAIN NUMBER	22. TIME TABLE DIRECTION CODE 1. North 2. South 3. East 4. West	

EQUIPMENT

23. TRAILING TONS (gross tonnage, excluding power units)	24. TYPE OF EQUIPMENT CONSIST (single entry) CODE 1. Freight train 3. Mixed train 5. Single car 7. Yard/switching 2. Passenger train 4. Work train 6. Cut of cars 8. Light loco(s)			25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE 1. Yes 2. No
26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION		28. ANNUAL TRACK DENSITY (gross tons in millions)	29. TYPE OF TRACK CODE 1. Main 3. Siding 2. Yard 4. Industry
30. PRINCIPLE CAR/UNIT	30a. Initial and Number	30b. Position in Train	30c. Loaded (yes or no)	
(1) First Involved (derailed, struck, striking, etc.)				
(2) Causing (mechanical failures)				
31. LOCOMOTIVE UNITS (no. of)	a. Head End	b. Manual c. Remote	d. Manual e. Remote	32. CARS (no. of) CODE a. Freight b. Pass. c. Freight d. Pass. e. Caboose
(1) Total in Train				
(2) Total Derailed				

PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)

33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) \$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) \$
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ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE CODE	36. CONTRIBUTING CAUSE CODE	37. If no code available, explain cause.
---	--	--

CASUALTIES

38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY	40. NUMBER OF FATALITIES
-------------------------------	-------------------------------------	--------------------------

CREW (no. of)

HOURS ON DUTY

41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN	45. ENGINEER Hrs: Mins:	46. CONDUCTOR Hrs: Mins:
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47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE
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50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD	Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT		2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)		3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER		5. DATE OF ACCIDENT/INCIDENT month day year	6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>

LOCATION

7. NEAREST RAILROAD STATION	8. COUNTY	9. STATE (two letter code)	CODE
10. CITY (if in a city)	11. HIGHWAY NAME OR NUMBER (if private crossing, so state)		

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED				RAILROAD EQUIPMENT INVOLVED				
12. TYPE	3. Truck-Trailer	6. Motorcycle	CODE	16. EQUIPMENT	3. Train (standing)	6. Light loco(s) (moving)	CODE	
1. Auto	4. Bus	7. Pedestrian		1. Train (units pulling)	4. Car(s) (moving)	7. Light loco(s) (standing)		
2. Truck	5. School Bus	8. Other (specify)		2. Train (units pushing)	5. Car(s) (standing)	8. Other (specify)		
13. SPEED (estimated mph at impact)	14. DIRECTION (geographical)	CODE		17. POSITION OF CAR/UNIT IN TRAIN				CODE
	1. North 3. East 2. South 4. West							
15. POSITION	CODE			18. CIRCUMSTANCE				CODE
1. Stalled on crossing	2. Stopped on crossing	3. Moving over crossing		1. Train struck highway user		2. Train struck by highway user		
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials?								CODE
								1. Highway user 2. Rail equipment 3. Both 4. Neither

ENVIRONMENT

20. TEMPERATURE (specify, if minus) °F	21. VISIBILITY (single entry)	CODE	22. WEATHER (single entry)	CODE
	1. Dawn 3. Dusk 2. Day 4. Dark		1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow	

TRAIN AND TRACK

23. TYPE OF TRAIN	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED	CODE
1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)		1. Main 3. Siding 2. Yard 4. Industry	
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION	27. NUMBER OF LOCOMOTIVE UNITS	
28. NUMBER OF CARS	29. TRAIN SPEED (recorded speed, if available)	30. TIME TABLE DIRECTION	
	MPH Recorded Est	1. North 3. East 2. South 4. West	

CROSSING WARNING

31. TYPE (place X in appropriate box(es))	1. <input type="checkbox"/>	Gates	5. <input type="checkbox"/>	Hwy. Traffic Signals	9. <input type="checkbox"/>	Watchman	32. SIGNALLED CROSSING WARNING	CODE
	2. <input type="checkbox"/>	Cantilever FLS	6. <input type="checkbox"/>	Audible	10. <input type="checkbox"/>	Flagged by crew	Was the signaled crossing warning identified in item 31 operating?	
	3. <input type="checkbox"/>	Standard FLS	7. <input type="checkbox"/>	Crossbucks	11. <input type="checkbox"/>	Other (specify)	1. Yes 2. No	
	4. <input type="checkbox"/>	Wig Wags	8. <input type="checkbox"/>	Stop Signs	12. <input type="checkbox"/>	None		
33. LOCATION OF WARNING	CODE		34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS		CODE		35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS	
1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach			1. Yes 2. No 3. Unknown				1. Yes 2. No 3. Unknown	

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE	CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN	CODE
1. Yes 2. No 3. Unknown		1. Yes 2. No 3. Unknown	
38. MOTORIST	CODE		
1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown			
39. VIEW OF TRACK OBSCURED BY (primary obstruction)	CODE		
1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other (specify) 4. Topography 6. Highway vehicles 8. Not obstructed			

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS	CODE	42. WAS DRIVER IN THE VEHICLE?	CODE
	1. Killed 2. Injured 3. Uninjured		1. Yes 2. No	
43. TOTAL NUMBER OF OCCUPANTS KILLED	44. TOTAL NUMBER OF OCCUPANTS INJURED		45. TOTAL NUMBER OF OCCUPANTS (include driver)	
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED?	1. Yes 2. No			
47. TYPED NAME AND TITLE	48. SIGNATURE		49. DATE	

APPENDIX C: MISCELLANEOUS DATA

TABLE C-1. MISCELLANEOUS DATA RECEIVED FROM THE RAIL-HIGHWAY CROSSING ACCIDENT/INCIDENT REPORTS

1. IS RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED?
 YES 124 NO 5,496 NOT REPORTED 0
2. WAS DRIVER IN VEHICLE?
 YES 4,833 NO 780 NOT REPORTED 7
3. DRIVER WAS:
 KILLED 345 INJURED 1,443 UNINJURED 3,804 NOT REPORTED 28
4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?
 YES 375 NO 3,701 NOT REPORTED 1,119 N/A 425
5. DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:
 NORTH 1,420 SOUTH 1,300 EAST 1,462 WEST 1,408 NOT REPORTED 30
6. TRAIN TIMETABLE DIRECTION:
 NORTH 1,263 SOUTH 1,220 EAST 1,490 WEST 1,624 NOT REPORTED 23

**TABLE C-2. MISCELLANEOUS DATA RECEIVED FROM DOT-AAR
INVENTORY FORMS**

LESS THAN ONE TRAIN PER DAY?					
YES	31,610	NO	160,833	N/R	11
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	4,801	NO	187,567	N/R	86
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	27,958	NO	164,382	N/R	114
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	180,701	NO	11,735	N/R	8
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	56,580	NO	135,783	N/R	142
IS HIGHWAY PAVED?					
YES	133,634	NO	58,634	N/R	0
IS COMMERCIAL POWER AVAILABLE?					
YES	174,494	NO	17,959	N/R	38
DOES TRACK RUN DOWN A STREET? ¹					
YES	6,140	NO	184,435	N/R	1,879
NEARBY INTERSECTING HIGHWAY? ¹					
YES	73,715	NO	116,799	N/R	1,940
RR ADVANCE WARNING SIGNS PRESENT?					
YES	102,144	NO	90,310	N/R	0
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,425	NO	190,019	N/R	10
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	30,376	NO	162,078	N/R	0
DOES CROSSING PROVIDE SPEED SELECTION?					
YES	6,480	NO	63,320	N/R	122,654

¹NOT ON ORIGINAL INVENTORY FORM USED IN THE FIVE PILOT STATES.

N/R: NOT RECORDED
N/A: NOT APPLICABLE

APPENDIX D. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS

TABLE D-1. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF TRAIN

State	Freight			Passenger			Yard Switching			Other		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	6	---	2	---	---	---	5	---	3	2	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	4	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	6	---	---	---	---	---	1	1	1	---	---	---
California.....	23	3	1	3	1	1	5	---	3	3	---	---
Colorado.....	7	1	3	---	---	---	---	---	---	---	---	---
Connecticut.....	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	---	---	---	---	---	---	1	---	---	2	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	8	---	2	1	---	---	4	---	---	2	---	1
Georgia.....	14	2	1	---	---	---	4	---	1	1	1	---
Idaho.....	3	4	2	1	---	---	---	---	---	---	---	---
Illinois.....	11	4	1	2	---	---	4	---	2	3	---	1
Indiana.....	6	---	---	---	---	---	1	---	---	1	---	---
Iowa.....	3	2	2	2	---	---	3	---	---	---	---	---
Kansas.....	3	1	3	---	---	---	---	---	---	---	---	---
Kentucky.....	25	2	2	1	---	---	1	---	---	2	---	1
Louisiana.....	8	1	2	1	---	1	3	---	---	6	---	2
Maine.....	2	---	1	---	---	---	1	---	---	---	---	---
Maryland.....	5	1	1	---	---	---	3	---	---	---	---	---
Massachusetts....	3	---	---	1	---	---	1	---	---	---	---	---
Michigan.....	3	1	---	2	---	---	9	---	3	1	---	---
Minnesota.....	7	---	2	1	---	---	---	---	---	2	---	---
Mississippi.....	8	---	6	---	---	---	---	---	---	---	---	---
Missouri.....	6	---	3	---	---	---	1	---	---	1	---	---
Montana.....	5	2	---	---	---	---	---	---	---	1	---	---
Nebraska.....	9	---	---	---	---	---	---	---	---	1	---	---
Nevada.....	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	2	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	2	---	1	2	1	3	4	---	---	2	---	---
New Mexico.....	4	---	1	---	---	---	---	---	---	---	---	---
New York.....	6	1	4	---	---	---	---	---	---	---	---	---
North Carolina...	12	---	7	1	---	---	5	---	2	5	---	---
North Dakota.....	1	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	8	---	1	---	---	---	8	---	---	8	---	1
Oklahoma.....	2	---	---	---	---	---	1	---	---	1	---	---
Oregon.....	3	---	1	1	---	---	---	---	---	1	---	2
Pennsylvania.....	6	---	1	---	---	---	3	---	---	2	---	1
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	1	---	---	1	---	---	1	---	---	1	---	---
South Dakota.....	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	6	---	---	1	---	---	1	---	---	2	---	---
Texas.....	40	2	17	---	---	---	8	---	1	8	---	3
Utah.....	1	---	---	1	---	1	---	---	---	---	---	---
Vermont.....	2	---	1	---	---	---	---	---	---	---	---	---
Virginia.....	19	1	6	---	---	---	---	---	---	6	---	4
Washington.....	7	---	2	---	---	---	2	---	---	1	---	---
West Virginia....	14	---	4	1	---	---	---	---	---	2	---	---
Wisconsin.....	1	---	---	---	---	---	3	---	1	---	---	---
Wyoming.....	2	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	316	28	80	23	2	6	83	1	17	67	1	16

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE D-2. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND WARNING DEVICE CATEGORY

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	2	2
Amtrak (National Railroad Passenger Corp.)	---	---	---	---	8	3	1	7	19
Atchison, Topeka and Santa Fe Railway Co..	1	---	2	---	13	3	---	8	27
Bangor And Aroostook Railroad Company.....	---	---	---	---	1	---	---	---	1
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	---	---	1	1	1	1	---	---	4
Burlington Northern.....	1	1	---	1	18	10	---	25	56
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	---	---	---	1	---	---	---	1
Central of Georgia Railroad Company.....	---	---	---	2	---	---	---	4	6
Central Vermont Railway Incorporated.....	---	---	---	---	---	---	---	2	2
Chessie System Railroads.....	---	3	---	1	13	---	2	14	33
Chicago and Northwestern Transportation Co	---	---	---	---	1	1	1	5	8
Chicago And Illinois Midland Railway Co...	---	---	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	---	---	---	---	---	---	---	---	---
Cincinnati, New Orleans & Texas Pacific RR	---	---	---	---	1	---	---	3	4
Consolidated Rail Corporation.....	1	6	1	1	12	4	3	27	55
Delaware and Hudson Railroad Company.....	---	---	---	---	---	---	---	---	---
Denver and Rio Grande Western Railroad Co.	---	---	---	---	2	---	4	---	6
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company.....	---	---	---	---	---	---	---	1	1
Georgia Southern And Florida Railway.....	---	---	---	---	1	---	---	1	2
Grand Trunk Western Railroad Company.....	---	1	1	1	1	---	2	1	7
Green Bay And Western Railroad.....	---	---	---	---	---	---	---	1	1
Illinois Central Gulf Railroad.....	---	---	---	1	2	---	---	10	13
Kansas City Southern Railway Company.....	---	1	---	---	2	---	---	1	4
Louisiana & Arkansas Railway Company.....	---	---	---	---	1	---	---	---	1
Maine Central Railroad Company.....	---	---	---	---	1	---	---	1	2
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri-Kansas-Texas Railroad Company....	---	---	---	---	1	1	1	2	5
Monogahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	---	---	---	2	6	2	2	14	26
Northwestern Pacific Railroad.....	---	---	---	---	---	1	---	---	1
Oklahoma, Kansas And Texas Railroad Co....	---	---	---	---	---	---	---	---	---
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	1	---	---	---	---	---	---	1	2
Seaboard System Railroad.....	---	2	---	6	23	2	---	23	56
Soo Line Railroad.....	---	---	---	---	---	---	---	3	3
Southern Pacific Transportation Company...	1	---	1	2	7	12	1	12	36
Southern Railway Company.....	---	2	---	1	11	---	---	18	32
Spokane International Railroad.....	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company....	---	1	---	---	3	---	---	2	6
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Union Pacific Railroad.....	---	---	2	3	20	2	1	23	51
All Other Railroads.....	2	3	3	3	7	2	2	12	34
Total.....	7	20	11	25	157	44	20	223	507

Note: "Special" are crossings protected by watchmen or members of train crew.

The totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

TABLE D-3. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS BY TYPE OF ROADWAY USER

Type Of Vehicle	---Acc/Inc---		---Killed---		---Injured---		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	240	45.45	23	60.53	57	43.85	19	34
Truck.....	144	27.27	7	18.42	34	26.15	5	31
Truck-trailer....	100	18.94	2	5.26	24	18.46	2	19
Bus.....	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	5	.95	---	---	4	3.08	---	4
Pedestrian.....	3	.57	2	5.26	1	.77	2	1
Other.....	36	6.82	4	10.53	10	7.69	3	9
Total.....	528	100.00	38	100.00	130	100.00	31	98

TABLE D-4. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			---Other---			---Unknown---			---Total---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	5	2	4	---	---	---	---	---	---	2	---	1	---	---	---	7	2	5
Cantilever flashrs	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
Standard flashers	---	---	---	2	1	---	14	---	4	2	---	---	---	---	---	18	1	4
Hwy Sig,W W,Bells	---	---	---	2	---	---	5	1	---	4	---	---	---	---	---	11	1	---
Special Devices..	---	---	---	2	---	---	16	---	2	7	---	---	---	---	---	25	---	2
Crossbucks.....	---	---	---	9	---	4	89	4	30	42	4	10	9	2	2	149	10	46
Stopsigns.....	---	---	---	1	---	---	18	---	3	18	1	1	4	---	---	41	1	4
Other Signs.....	---	---	---	---	---	---	13	4	6	5	---	---	1	---	---	19	4	6
No Signs Or Signl	---	---	---	9	1	---	103	7	39	102	4	12	3	1	1	217	13	52
Total.....	5	2	4	25	2	4	260	16	84	182	9	24	17	3	3	489	32	119

Note: "Special" are crossings protected by watchmen or members of train crew.
 "Hwy Sig" = Highway signals, W W = Wigwags.

TABLE D-5. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN, CIRCUMSTANCE, AND VISIBILITY

Number Of Cars	VISIBILITY			VISIBILITY			VISIBILITY			VISIBILITY			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	1	---	---	95	8	22	4	1	4	24	---	1	124	9	27
10-19.....	2	---	3	25	---	7	3	---	---	19	---	3	49	---	13
20-29.....	---	---	---	11	1	5	1	---	---	4	---	---	16	1	5
30-39.....	---	---	---	12	---	4	---	---	---	6	1	1	18	1	5
40-49.....	1	1	---	9	3	2	1	---	1	4	1	---	15	5	3
50-59.....	1	---	---	8	1	3	---	---	---	7	---	1	16	1	4
60-69.....	2	1	---	12	1	7	---	---	---	7	1	---	21	3	7
70-79.....	1	---	---	18	3	6	---	---	---	10	1	1	29	4	7
80-89.....	1	---	---	10	---	3	1	---	1	5	---	---	17	---	4
90-99.....	1	1	---	13	3	1	---	---	---	15	---	2	29	4	3
100-109.....	1	---	---	7	---	2	---	---	---	6	---	5	14	---	7
110-119.....	---	---	---	8	---	3	---	---	---	6	---	---	14	---	3
120-129.....	---	---	---	2	---	2	1	---	---	6	1	2	9	1	4
130-139.....	---	---	---	3	---	---	---	---	---	---	---	---	3	---	---
140-149.....	1	---	---	3	---	1	---	---	---	2	---	---	6	---	1
150 And over.....	---	---	---	4	---	1	---	---	---	4	---	---	8	---	1
Locomotives only.	2	---	---	28	1	7	1	---	---	9	---	3	40	1	10
Total.....	14	3	3	268	21	76	12	1	6	134	5	19	428	30	104
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	1	---	---	15	---	1	---	---	---	9	---	2	25	---	3
10-19.....	---	---	---	2	---	---	3	---	1	3	1	1	8	1	2
20-29.....	---	---	---	1	---	---	---	---	---	3	---	---	4	---	---
30-39.....	---	---	---	2	---	---	1	---	1	2	---	1	5	---	2
40-49.....	---	---	---	4	---	2	---	---	---	---	---	---	4	---	2
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60-69.....	---	---	---	---	---	---	---	---	---	1	---	4	1	---	4
70-79.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90-99.....	1	---	1	---	---	---	---	---	---	---	---	---	1	---	1
100-109.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
110-119.....	1	---	---	3	1	---	1	---	---	---	---	---	5	1	---
120-129.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
130-139.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
140-149.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
150 And over.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
Locomotives only.	---	---	---	3	---	1	1	---	---	1	---	---	5	---	1
Total.....	3	---	1	32	1	4	6	---	2	20	1	8	61	2	15
GRAND TOTAL															
1-9.....	2	---	---	110	8	23	4	1	4	33	---	3	149	9	30
10-19.....	2	---	3	27	---	7	6	---	1	22	1	4	57	1	15
20-29.....	---	---	---	12	1	5	1	---	---	7	---	---	20	1	5
30-39.....	---	---	---	14	---	4	1	---	1	8	1	2	23	1	7
40-49.....	1	1	---	13	3	4	1	---	1	4	1	---	19	5	5
50-59.....	1	---	---	8	1	3	---	---	---	7	---	1	16	1	4
60-69.....	2	1	---	12	1	7	---	---	---	8	1	4	22	3	11
70-79.....	1	---	---	18	3	6	---	---	---	10	1	1	29	4	7
80-89.....	1	---	---	10	---	3	1	---	1	5	---	---	17	---	4
90-99.....	2	1	1	13	3	1	---	---	---	15	---	2	30	4	4
100-109.....	1	---	---	8	---	2	---	---	---	6	---	5	15	---	7
110-119.....	1	---	---	11	1	3	1	---	---	6	---	---	19	1	3
120-129.....	---	---	---	2	---	2	1	---	---	6	1	2	9	1	4
130-139.....	---	---	---	3	---	---	---	---	---	---	---	---	3	---	---
140-149.....	1	---	---	3	---	1	---	---	---	2	---	---	6	---	1
150 And over.....	---	---	---	5	---	1	---	---	---	5	---	---	10	---	1
Locomotives only.	2	---	---	31	1	8	2	---	---	10	---	3	45	1	11
Total.....	17	3	4	300	22	80	18	1	8	154	6	27	489	32	119

TABLE D-6. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD AND WARNING DEVICE CATEGORY

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama.....	---	3	1	1	1	---	---	7	13
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	3	1	---	---	4
Arkansas.....	---	---	---	---	2	---	---	5	7
California.....	1	---	3	3	8	9	---	10	34
Colorado.....	---	---	---	---	4	---	3	---	7
Connecticut.....	---	---	---	---	---	1	---	---	1
Delaware.....	---	---	---	---	---	1	---	2	3
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	---	---	---	2	11	---	---	2	15
Georgia.....	---	---	---	2	8	1	---	8	19
Idaho.....	---	---	---	---	2	---	---	2	4
Illinois.....	---	---	---	1	3	---	4	12	20
Indiana.....	---	---	---	---	2	---	1	5	8
Iowa.....	---	---	---	1	1	---	---	6	8
Kansas.....	---	---	---	---	2	---	---	1	3
Kentucky.....	---	---	---	1	6	---	1	21	29
Louisiana.....	---	---	2	---	7	1	---	8	18
Maine.....	---	---	---	---	2	---	---	1	3
Maryland.....	---	---	---	2	2	---	---	4	8
Massachusetts....	---	---	1	1	---	1	---	2	5
Michigan.....	1	4	2	1	1	---	1	5	15
Minnesota.....	1	---	---	---	1	2	---	6	10
Mississippi.....	---	---	---	1	1	---	---	6	8
Missouri.....	---	---	---	1	3	1	---	3	8
Montana.....	---	---	---	---	1	2	---	3	6
Nebraska.....	---	---	---	---	4	---	---	6	10
Nevada.....	---	---	---	---	---	---	---	---	---
New Hampshire.....	---	---	---	---	1	---	---	1	2
New Jersey.....	1	1	---	1	1	1	2	3	10
New Mexico.....	---	---	---	---	1	1	---	2	4
New York.....	1	---	---	---	2	---	1	2	6
North Carolina...	---	---	---	3	8	1	---	11	23
North Dakota.....	---	---	---	---	1	---	---	---	1
Ohio.....	---	4	1	---	7	---	---	12	24
Oklahoma.....	---	---	---	---	2	---	---	2	4
Oregon.....	---	---	---	---	2	3	---	---	5
Pennsylvania.....	---	---	---	---	4	2	1	4	11
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	---	---	---	1	2	1	---	---	4
South Dakota.....	---	---	---	---	1	---	---	---	1
Tennessee.....	---	1	---	---	2	---	---	7	10
Texas.....	1	4	---	1	22	5	2	21	56
Utah.....	---	---	---	---	---	---	1	1	2
Vermont.....	---	---	---	---	---	---	---	2	2
Virginia.....	1	---	---	2	7	1	2	12	25
Washington.....	---	1	1	---	3	5	---	---	10
West Virginia....	---	2	---	---	8	---	---	7	17
Wisconsin.....	---	---	---	---	---	1	---	3	4
Wyoming.....	---	---	---	---	---	---	---	2	2
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	7	20	11	25	149	41	19	217	489

Note: "Special" are crossings protected by watchmen or members of train crew

TABLE D-7. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS BY RAILROAD

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	2	---	---	---	---	---	2	---	---
Amtrak (National Railroad Passenger Corp.)	19	---	---	2	---	---	21	---	---
Atchison, Topeka and Santa Fe Railway Co..	27	1	7	---	---	---	27	1	7
Bangor And Aroostook Railroad Company.....	1	---	---	---	---	---	1	---	---
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	4	---	---	---	---	---	4	---	---
Burlington Northern.....	56	4	11	6	1	---	62	5	11
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	1	---	---	---	---	---	1	---	---
Central of Georgia Railroad Company.....	6	1	1	---	---	---	6	1	1
Central Vermont Railway Incorporated.....	2	---	1	---	---	---	2	---	1
Chessie System Railroads.....	33	1	12	5	2	1	38	3	13
Chicago and Northwestern Transportation Co	8	3	---	---	---	---	8	3	---
Chicago And Illinois Midland Railway Co...	---	---	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	---	---	---	---	---	---	---	---	---
Cincinnati, New Orleans & Texas Pacific RR	4	1	---	---	---	---	4	1	---
Consolidated Rail Corporation.....	55	---	5	3	---	---	58	---	5
Delaware and Hudson Railroad Company.....	---	---	---	---	---	---	---	---	---
Denver and Rio Grande Western Railroad Co.	6	1	3	---	---	---	6	1	3
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company.....	1	---	---	---	---	---	1	---	---
Georgia Southern And Florida Railway.....	2	---	---	---	---	---	2	---	---
Grand Trunk Western Railroad Company.....	7	4	1	---	---	---	7	4	1
Green Bay And Western Railroad.....	1	---	---	---	---	---	1	---	---
Illinois Central Gulf Railroad.....	13	---	6	3	1	1	16	1	7
Kansas City Southern Railway Company.....	4	---	1	---	---	---	4	---	1
Louisiana & Arkansas Railway Company.....	1	---	---	---	---	---	1	---	---
Maine Central Railroad Company.....	2	---	1	---	---	---	2	---	1
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri-Kansas-Texas Railroad Company....	5	---	---	---	---	---	5	---	---
Monogahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	26	1	7	---	---	---	26	1	7
Northwestern Pacific Railroad.....	1	---	---	---	---	---	1	---	---
Oklahoma, Kansas And Texas Railroad Co....	---	---	---	---	---	---	---	---	---
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	2	---	1	---	---	---	2	---	1
Seaboard System Railroad.....	56	3	14	5	1	2	61	4	16
Soo Line Railroad.....	3	---	3	2	---	2	5	---	5
Southern Pacific Transportation Company...	36	3	7	---	---	---	36	3	7
Southern Railway Company.....	32	---	4	3	---	1	35	---	5
Spokane International Railroad.....	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company....	6	1	---	---	---	---	6	1	---
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Union Pacific Railroad.....	51	6	21	9	1	3	60	7	24
All Other Railroads.....	34	2	13	3	---	1	37	2	14
Total.....	507	32	119	41	6	11	548	38	130

Note: A/I totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

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