

Tom Woll



U.S. Department
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**Federal Railroad
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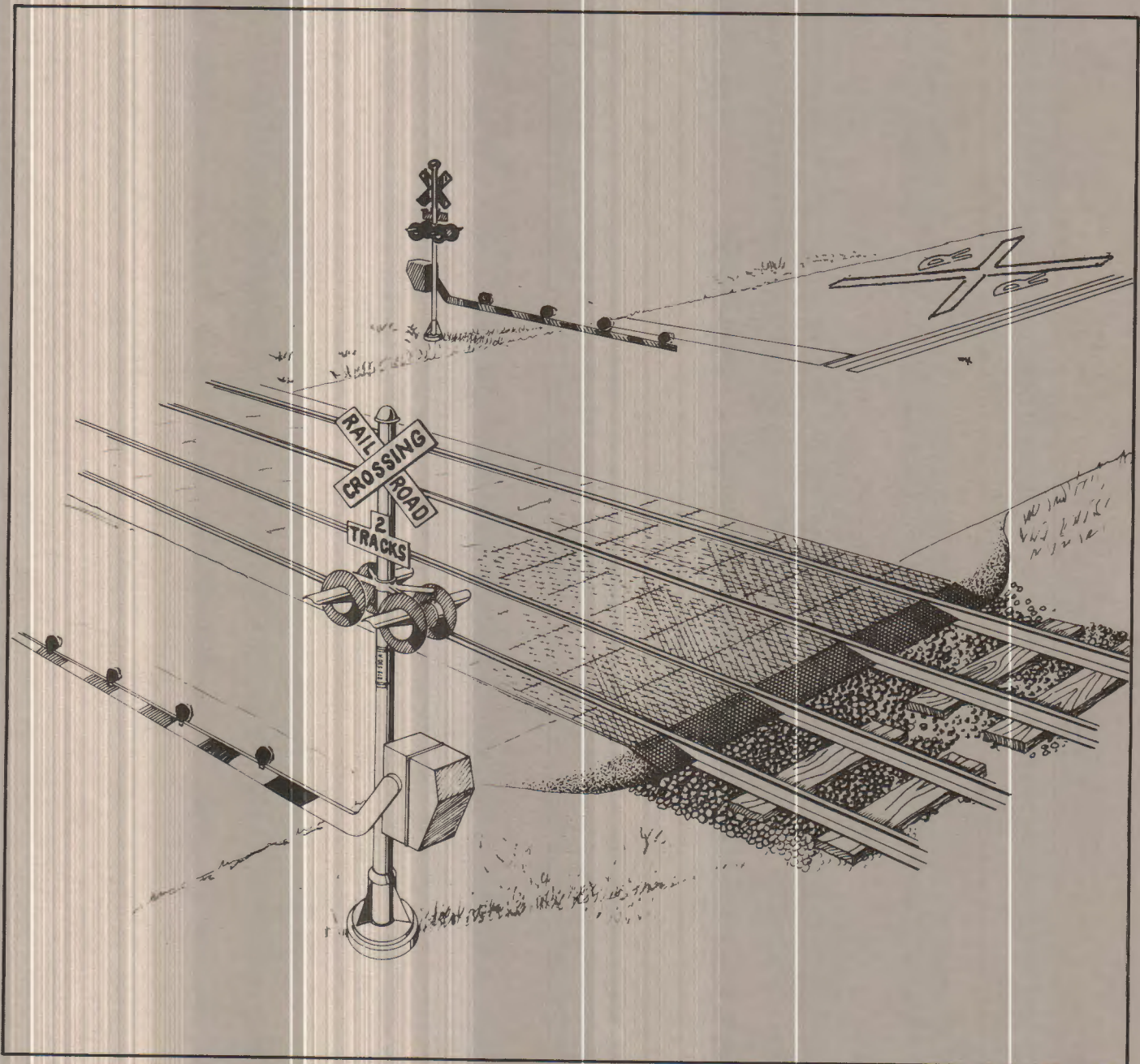
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Office of Safety, RRS-22
400 Seventh Street, S.W.
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LIST OF ABBREVIATIONS

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

The thirteenth annual report, issued by the Federal Railroad Administration (FRA) Office of Safety, combines highway-rail crossing accident/incident statistics with the National highway-rail Crossing Inventory. Accident/Incident data is compiled from monthly reports filed by railroads. The National Highway-Rail Crossing Inventory contains sight-survey data about individual crossings and is provided by states and railroads.

Information concerning trespassers who were killed or injured as a result of railroad operations can be found in Appendix E. Additional summaries of accidents/incidents involving trespassers can be found in the annual Accident/Incident Bulletin published by FRA.

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 highway-rail Crossing Inventory was developed in response to the Federal Railroad Safety Act of 1970 and the Federal Highway Safety Acts of 1970 and 1973, which require the Secretary of Transportation to work towards improving safety at highway-rail crossings.

* * * * *

Section 1 presents historical data on highway-rail crossing accidents/incidents at public crossings for 1985 through 1990.

Section 2 contains 1990 accident/incident statistics on highway-rail crossing accidents/incidents that occurred at public crossing sites.

Section 3 combines information from the highway-rail crossing accident/incident file with data in the National highway-rail Crossing Inventory. This section displays the relationship between certain grade-crossing characteristics and accident frequencies.

Section 4 gives the physical and operation statistics for all public at-grade highway-rail crossings as described in the inventory on June 10, 1991.

The tables and figures in Sections 1, 2, 3, 4, and Appendix C furnish data on public highway-rail crossings. Appendix D and tables 33 and 34 present data on private crossings. The majority of the accident tables and charts shown in this bulletin provide information on motor vehicle accidents. Those tables and figures that do not refer to motor vehicle in their title contain data for all accidents/incidents. The trespasser information found in Appendix E includes all reportable situations; the grade crossing counts in this section cover both public and private crossings.

Resource Allocation Procedure Constants

The U.S. DOT Rail-Highway Crossing Resource Allocation Procedure, described in the Rail-Highway Crossing Resource Allocation Procedure User's Guide, Third Edition, DOT/FRA/OS-87/10, August 1987, uses three "normalizing constants" in the accident prediction formulas, Formula A, Section 3.2.4, Page 17. These constants need to be adjusted periodically in order to keep the formulas matched with current accident trends. Presently, the Federal Railroad Administration is performing this function on a bi-annual basis. The last readjustment was made for Calendar Year 1988 and was published in Bulletin No. 11.

These constants were recalculated for the "national" model using crossings in the inventory as of December 31, 1989. Organizations using the DOT Model should update such models by replacing the old constants with the recalculated constants. The constants referenced here are located in the computer program ACPD.NEW as shown in the coding at the top of page A-4, Appendix A1 of the User's Guide Third Edition.

The new constants will be used in fulfilling requests for accident prediction and resource allocation procedure listings starting approximately October 1, 1990, i.e. after six (6) months of 1990 accident history data is available.

The following Table lists the new and prior constants.

ACCIDENT PREDICTION MODEL NORMALIZING CONSTANTS			
Warning Device Groups	New	Prior Years	
	1990	1988	1986
(1) Passive	.9417	.8778	.8644
(2) Flashing Lights	.8345	.8013	.8887
(3) Gates	.8901	.8911	.8131

TABLE — S
SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1990

TypeTotal.....		Motor Vehicles....		Non-Motor Vehicles..		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	5,233	648	2,254	5,022	568	2,186	211	80	68
Private	480	50	153	458	46	146	22	4	7
Total	5,713	698	2,407	5,480	614	2,332	233	84	75

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
1985	6,359	537	2,508	3,045	0.48
1986	5,868	578	2,328	2,906	0.50
1987	5,859	598	2,313	2,911	0.50
1988	6,025	652	2,417	3,069	0.51
1989	5,979	757	2,683	3,440	0.58
1990	5,233	648	2,254	2,902	0.55

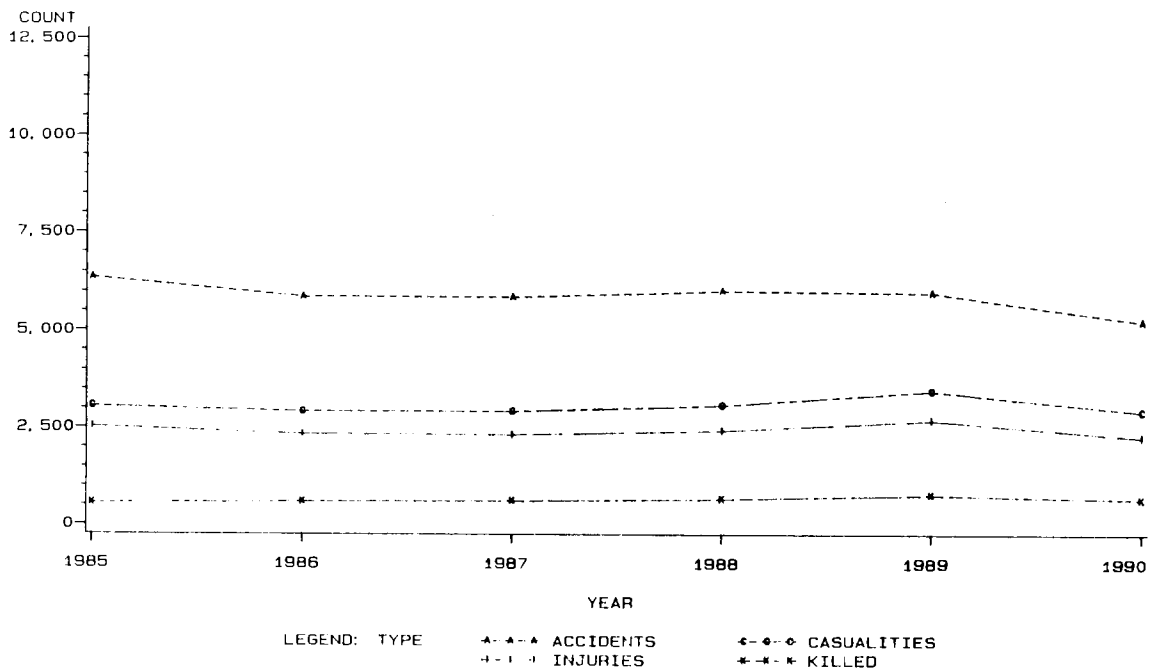


FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

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
1985	6,093	176,468	34.53
1986	5,620	180,747	31.09
1987	5,627	183,220	30.71
1988	5,820	188,258	30.92
1989	5,772	190,940	30.23
1990	5,022	193,723	25.92

¹Figures supplied by the Federal Highway Administration

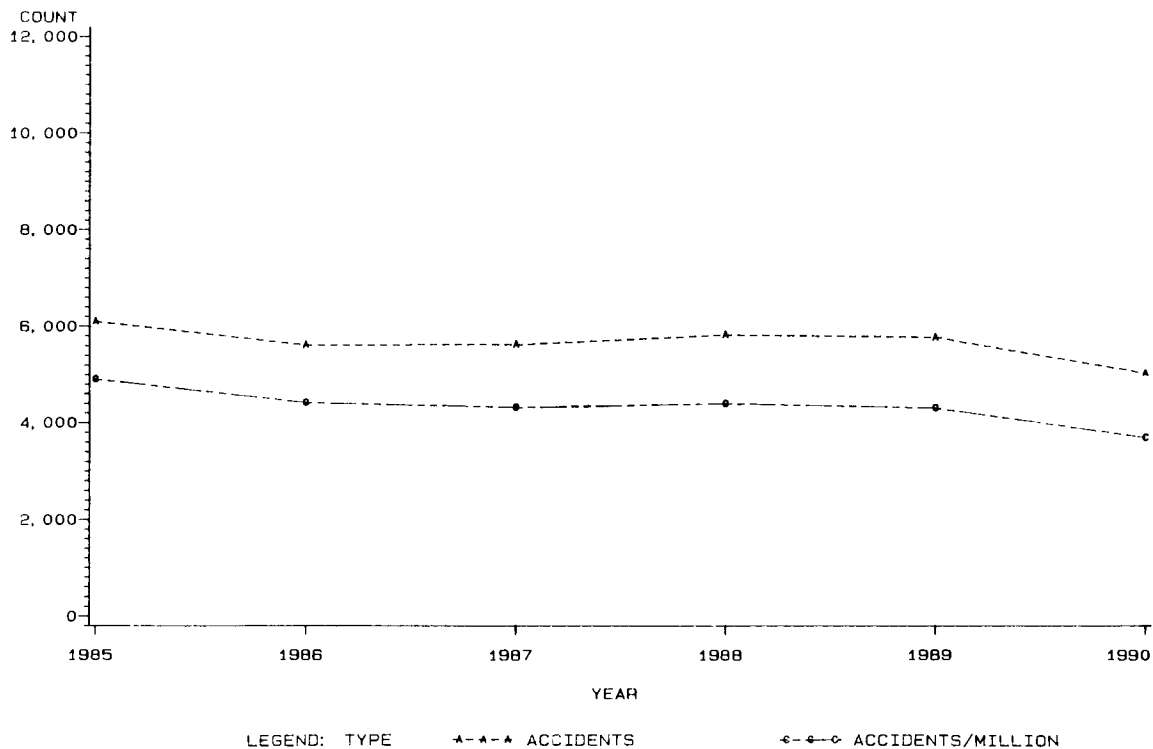


FIGURE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, LAST SIX YEARS

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1990

STATE AND RAILROAD DATA

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

State	No. Of Acc/Inc	---Killed---		---Injured---		Total -Casualties--	
		No.	%	No.	%	No.	%
Alabama.....	175	20	3.09	57	2.53	77	2.65
Alaska.....	11	---	---	8	.35	8	.28
Arizona.....	32	2	.31	9	.40	11	.38
Arkansas.....	127	15	2.31	52	2.31	67	2.31
California.....	188	37	5.71	87	3.86	124	4.27
Colorado.....	52	8	1.23	25	1.11	33	1.14
Connecticut.....	10	4	.62	1	.04	5	.17
Delaware.....	14	1	.15	5	.22	6	.21
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	169	33	5.09	77	3.42	110	3.79
Georgia.....	216	15	2.31	68	3.02	83	2.86
Idaho.....	48	10	1.54	19	.84	29	1.00
Illinois.....	328	55	8.49	129	5.72	184	6.34
Indiana.....	299	37	5.71	105	4.66	142	4.89
Iowa.....	180	5	.77	66	2.93	71	2.45
Kansas.....	106	15	2.31	58	2.57	73	2.52
Kentucky.....	107	9	1.39	56	2.48	65	2.24
Louisiana.....	263	29	4.48	171	7.59	200	6.89
Maine.....	16	1	.15	5	.22	6	.21
Maryland.....	17	1	.15	8	.35	9	.31
Massachusetts....	10	---	---	4	.18	4	.14
Michigan.....	221	19	2.93	97	4.30	116	4.00
Minnesota.....	116	18	2.78	50	2.22	68	2.34
Mississippi.....	146	13	2.01	109	4.84	122	4.20
Missouri.....	131	27	4.17	47	2.09	74	2.55
Montana.....	21	8	1.23	4	.18	12	.41
Nebraska.....	68	17	2.62	20	.89	37	1.27
Nevada.....	6	4	.62	2	.09	6	.21
New Hampshire.....	3	---	---	---	---	---	---
New Jersey.....	58	6	.93	20	.89	26	.90
New Mexico.....	18	1	.15	8	.35	9	.31
New York.....	51	13	2.01	16	.71	29	1.00
North Carolina...	179	12	1.85	76	3.37	88	3.03
North Dakota.....	23	4	.62	7	.31	11	.38
Ohio.....	308	57	8.80	141	6.26	198	6.82
Oklahoma.....	133	15	2.31	80	3.55	95	3.27
Oregon.....	42	7	1.08	20	.89	27	.93
Pennsylvania.....	128	7	1.08	39	1.73	46	1.59
Rhode Island.....	---	---	---	---	---	---	---
South Carolina...	112	11	1.70	46	2.04	57	1.96
South Dakota.....	25	1	.15	11	.49	12	.41
Tennessee.....	125	6	.93	36	1.60	42	1.45
Texas.....	525	80	12.35	260	11.54	340	11.72
Utah.....	31	5	.77	13	.58	18	.62
Vermont.....	2	---	---	---	---	---	---
Virginia.....	87	7	1.08	37	1.64	44	1.52
Washington.....	89	6	.93	26	1.15	32	1.10
West Virginia....	28	2	.31	4	.18	6	.21
Wisconsin.....	178	5	.77	70	3.11	75	2.58
Wyoming.....	11	---	---	5	.22	5	.17
Unknown.....	---	---	---	---	---	---	---
Total.....	5,233	648	100.00	2,254	100.00	2,902	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.....	174	20	57	77	3,727,000	.47	.05	.15
Alaska.....	10	---	7	7	376,000	.27	---	.19
Arizona.....	31	2	8	10	2,931,000	.11	.01	.03
Arkansas.....	123	13	52	65	1,462,000	.84	.09	.36
California.....	176	31	85	116	22,803,000	.08	.01	.04
Colorado.....	51	7	25	32	3,357,000	.15	.02	.07
Connecticut.....	10	4	1	5	2,722,000	.04	.01	---
Delaware.....	12	1	5	6	539,000	.22	.02	.09
Dist. of Columbia	---	---	---	---	257,000	---	---	---
Florida.....	159	28	74	102	11,738,000	.14	.02	.06
Georgia.....	210	14	66	80	5,445,000	.39	.03	.12
Idaho.....	48	10	19	29	1,076,000	.45	.09	.18
Illinois.....	305	43	120	163	8,346,000	.37	.05	.14
Indiana.....	280	30	100	130	4,507,000	.62	.07	.22
Iowa.....	173	4	64	68	2,773,000	.62	.01	.23
Kansas.....	103	14	57	71	2,072,000	.50	.07	.28
Kentucky.....	102	7	53	60	2,922,000	.35	.02	.18
Louisiana.....	258	24	163	187	3,043,000	.85	.08	.54
Maine.....	15	1	5	6	985,000	.15	.01	.05
Maryland.....	16	1	8	9	3,635,000	.04	---	.02
Massachusetts.....	10	---	4	4	3,840,000	.03	---	.01
Michigan.....	216	19	95	114	7,385,000	.29	.03	.13
Minnesota.....	109	16	50	66	3,453,000	.32	.05	.14
Mississippi.....	143	12	107	119	1,929,000	.74	.06	.55
Missouri.....	126	25	47	72	3,949,000	.32	.06	.12
Montana.....	20	6	3	9	785,000	.25	.08	.04
Nebraska.....	65	16	20	36	1,409,000	.46	.11	.14
Nevada.....	6	4	2	6	864,000	.07	.05	.02
New Hampshire.....	3	---	---	---	991,000	.03	---	---
New Jersey.....	51	3	18	21	5,677,000	.09	.01	.03
New Mexico.....	16	1	8	9	1,353,000	.12	.01	.06
New York.....	42	6	15	21	10,353,000	.04	.01	.01
North Carolina...	179	12	76	88	5,280,000	.34	.02	.14
North Dakota.....	20	3	7	10	649,000	.31	.05	.11
Ohio.....	293	52	135	187	9,639,000	.30	.05	.14
Oklahoma.....	128	14	78	92	2,649,000	.48	.05	.29
Oregon.....	39	5	19	24	2,504,000	.16	.02	.08
Pennsylvania.....	127	6	39	45	8,195,000	.15	.01	.05
Rhode Island.....	---	---	---	---	698,000	---	---	---
South Carolina...	109	9	43	52	2,585,000	.42	.03	.17
South Dakota.....	24	1	11	12	751,000	.32	.01	.15
Tennessee.....	120	6	33	39	4,492,000	.27	.01	.07
Texas.....	512	78	258	336	12,883,000	.40	.06	.20
Utah.....	28	4	11	15	1,217,000	.23	.03	.09
Vermont.....	1	---	---	---	488,000	.02	---	---
Virginia.....	84	5	36	41	5,039,000	.17	.01	.07
Washington.....	88	6	26	32	4,417,000	.20	.01	.06
West Virginia....	25	1	4	5	1,239,000	.20	.01	.03
Wisconsin.....	171	4	67	71	3,783,000	.45	.01	.18
Wyoming.....	11	---	5	5	511,000	.22	---	.10
Unknown.....	---	---	---	---	---	---	---	---
Total.....	5,022	568	2,186	2,754	193,723,000	.26	.03	.11

Note: Vehicle registration figures are for 1990 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	TYPE OF MOTOR VEHICLE																	
	---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.....	115	13	31	38	6	18	19	1	8	1	---	---	1	---	---	---	---	---
Alaska.....	8	---	5	2	---	2	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	18	1	3	5	---	2	6	1	2	---	---	---	---	---	---	2	---	1
Arkansas.....	69	6	23	39	6	23	15	1	6	---	---	---	---	---	---	---	---	---
California.....	111	27	48	43	3	19	22	1	18	---	---	---	---	---	---	---	---	---
Colorado.....	35	4	19	15	3	5	1	---	1	---	---	---	---	---	---	---	---	---
Connecticut.....	8	4	1	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---
Delaware.....	6	1	2	3	---	2	3	---	1	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	114	22	46	31	5	13	9	---	13	1	---	---	---	---	---	4	1	2
Georgia.....	128	11	37	39	2	10	39	1	19	2	---	---	1	---	---	1	---	---
Idaho.....	28	7	9	12	3	5	8	---	5	---	---	---	---	---	---	---	---	---
Illinois.....	230	32	99	54	10	11	20	---	10	---	---	---	---	---	1	1	---	---
Indiana.....	196	22	74	68	8	22	16	---	4	---	---	---	---	---	---	---	---	---
Iowa.....	115	3	51	36	---	9	18	---	3	2	1	---	2	---	1	---	---	---
Kansas.....	62	11	37	31	2	10	10	1	10	---	---	---	---	---	---	1	1	---
Kentucky.....	44	3	34	31	3	18	6	---	1	---	---	---	---	---	---	---	---	---
Louisiana.....	154	16	98	79	8	44	23	---	18	---	---	---	---	---	---	2	---	3
Maine.....	10	1	4	5	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	10	1	4	6	---	4	---	---	---	---	---	---	---	---	---	---	---	---
Massachusetts.....	7	---	4	2	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	167	12	66	45	7	28	3	---	1	---	---	---	---	---	---	1	---	---
Minnesota.....	61	7	17	35	7	10	11	---	2	---	---	---	1	2	21	1	---	---
Mississippi.....	90	6	58	38	6	33	15	---	16	---	---	---	---	---	---	---	---	---
Missouri.....	72	21	27	38	3	15	15	1	4	---	---	---	---	---	---	1	---	1
Montana.....	12	4	3	6	---	2	---	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	40	8	7	24	8	13	1	---	---	---	---	---	---	---	---	---	---	---
Nevada.....	2	1	1	2	3	1	2	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	2	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	40	2	12	10	1	6	1	---	---	---	---	---	---	---	---	---	---	---
New Mexico.....	11	---	7	3	---	1	1	---	---	---	---	---	---	---	---	1	1	---
New York.....	34	5	12	8	1	3	---	---	---	---	---	---	---	---	---	---	---	---
North Carolina.....	123	10	53	38	1	19	18	1	4	---	---	---	---	---	---	---	---	---
North Dakota.....	12	1	5	6	1	2	1	---	---	---	---	---	---	---	---	1	1	---
Ohio.....	205	35	96	70	15	34	13	---	2	---	---	1	---	---	4	2	3	---
Oklahoma.....	80	7	49	38	7	27	9	---	2	1	---	---	---	---	---	---	---	---
Oregon.....	27	1	10	8	4	5	4	---	4	---	---	---	---	---	---	---	---	---
Pennsylvania.....	93	6	30	22	---	4	10	---	4	---	---	---	---	---	2	---	---	1
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	70	6	32	26	3	5	13	---	6	---	---	---	---	---	---	---	---	---
South Dakota.....	14	1	8	9	---	2	1	---	1	---	---	---	---	---	---	---	---	---
Tennessee.....	79	1	18	28	---	11	13	5	4	---	---	---	---	---	---	---	---	---
Texas.....	320	50	163	148	26	78	44	2	17	---	---	---	---	---	---	---	---	---
Utah.....	18	1	6	10	3	5	---	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	55	4	29	23	1	5	6	---	2	---	---	---	---	---	---	---	---	---
Washington.....	60	5	19	20	1	4	8	---	3	---	---	---	---	---	---	---	---	---
West Virginia.....	14	---	2	8	---	2	2	---	---	---	---	---	---	---	1	1	---	---
Wisconsin.....	131	4	56	32	---	9	7	---	1	---	---	---	---	---	1	---	---	1
Wyoming.....	5	---	1	5	---	3	1	---	1	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,325	383	1,416	1,242	159	543	417	15	193	7	1	---	7	2	22	24	8	12

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

State	TYPE OF TRAIN											
	Freight			Passenger			Yard Switching			Other		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	144	18	51	3	1	---	9	---	1	18	1	5
Alaska.....	9	---	6	---	---	---	---	---	---	1	---	1
Arizona.....	18	1	5	2	1	---	6	---	2	5	---	1
Arkansas.....	105	11	50	2	2	---	9	---	1	7	---	1
California.....	109	18	55	26	8	13	16	2	9	25	3	8
Colorado.....	41	7	20	1	---	4	7	---	1	2	---	---
Connecticut.....	3	---	---	5	3	1	---	---	---	2	1	---
Delaware.....	8	1	3	---	---	---	1	---	---	3	---	2
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	106	21	60	20	4	7	17	1	3	16	2	4
Georgia.....	166	13	55	3	---	3	20	---	1	21	1	7
Idaho.....	40	10	17	1	---	1	2	---	---	5	---	1
Illinois.....	204	34	83	49	6	20	16	---	4	36	3	13
Indiana.....	211	19	83	19	8	5	17	---	2	33	3	10
Iowa.....	131	4	56	1	---	---	24	---	4	17	---	4
Kansas.....	84	14	48	1	---	2	11	---	6	7	---	1
Kentucky.....	82	6	46	---	---	---	8	1	1	12	---	6
Louisiana.....	184	21	124	2	1	---	36	2	19	36	---	20
Maine.....	13	1	4	---	---	---	2	---	1	---	---	---
Maryland.....	14	1	8	---	---	---	---	---	---	2	---	---
Massachusetts.....	6	---	2	3	---	2	---	---	---	1	---	---
Michigan.....	152	15	67	10	4	3	29	---	13	25	---	12
Minnesota.....	73	14	42	2	2	1	18	---	---	16	---	7
Mississippi.....	112	12	75	6	---	20	11	---	8	14	---	4
Missouri.....	105	24	42	1	---	---	8	---	3	12	1	2
Montana.....	14	6	3	---	---	---	4	---	---	2	---	---
Nebraska.....	60	15	18	---	---	---	3	---	1	2	1	1
Nevada.....	6	4	2	---	---	---	---	---	---	---	---	---
New Hampshire.....	2	---	---	---	---	---	1	---	---	---	---	---
New Jersey.....	35	1	14	10	2	---	---	---	---	6	---	4
New Mexico.....	16	1	8	---	---	---	---	---	---	---	---	---
New York.....	26	5	12	7	1	1	---	---	---	9	---	2
North Carolina.....	138	11	60	10	1	2	11	---	2	20	---	12
North Dakota.....	16	3	6	---	---	---	---	---	---	4	---	1
Ohio.....	253	47	115	8	3	7	7	---	4	25	2	9
Oklahoma.....	112	14	74	---	---	---	5	---	2	11	---	2
Oregon.....	32	5	16	---	---	---	2	---	1	5	---	2
Pennsylvania.....	102	6	32	2	---	---	8	---	1	15	---	6
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	87	6	42	4	1	---	7	---	---	11	2	1
South Dakota.....	17	1	8	---	---	---	2	---	1	5	---	2
Tennessee.....	94	6	28	3	---	1	15	---	1	8	---	3
Texas.....	393	71	210	15	4	4	53	2	22	51	1	22
Utah.....	21	4	10	---	---	---	4	---	---	3	---	1
Vermont.....	1	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	64	4	33	4	1	---	3	---	1	13	---	2
Washington.....	51	6	14	3	---	2	16	---	4	18	---	6
West Virginia.....	20	1	3	---	---	---	1	---	---	4	---	1
Wisconsin.....	125	4	60	5	---	2	28	---	2	13	---	3
Wyoming.....	10	---	4	---	---	---	1	---	1	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,815	486	1,774	228	53	101	438	8	122	541	21	189

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	Way Sig. Highways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corporation	1	3	---	---	6	---	---	---	10
Amtrak (National Railroad Passenger Corp.)	63	28	2	3	44	---	---	---	140
Atchison, Topeka And Santa Fe Railway Co.	65	54	2	---	38	1	---	2	212
Bessemer & Lake Erie Railroad Company	---	1	---	---	5	---	---	---	6
Buffalo & Pittsburgh Railroad, Inc.	---	2	---	---	4	---	---	---	6
Burlington Northern Railroad Company	65	128	8	1	271	3	1	1	478
Central Michigan Railway Company	---	1	---	---	5	---	---	---	6
Chesapeake & Albemarle Railroad Company	1	1	---	---	2	---	---	---	4
Chicago And North Western Transportation	39	48	2	4	68	1	---	---	163
Chicago, Central & Pacific Railroad Co.	4	12	3	---	12	---	---	---	31
Consolidated Rail Corporation	104	136	5	7	166	2	1	6	427
CSX Transportation	117	231	23	6	297	2	---	4	680
Dakota, Minnesota & Eastern Railroad	---	6	1	---	15	1	---	---	23
Delaware And Hudson Railroad Company	---	2	---	---	3	---	---	1	6
Denver And Rio Grande Western Railroad Co.	5	3	---	---	2	1	---	---	11
Detroit And Mackinac Railway Company	---	2	1	---	5	---	---	---	8
Elgin, Joliet And Eastern Railway Company	3	2	---	1	4	---	---	1	11
Escanaba And Lake Superior Railroad Co.	---	2	---	---	3	---	---	---	5
Florida East Coast Railway Company	50	---	---	---	1	---	---	---	51
Fox River Valley Railroad Corporation	1	7	4	---	3	---	1	---	16
Gateway Western Railway	1	3	1	---	7	---	---	1	10
Georgia Southwestern Railroad Division	1	1	---	---	7	---	---	---	9
Grand Trunk Western Railroad Company	24	32	---	---	17	1	1	---	75
Green Bay And Western Railroad Company	1	4	---	1	13	---	---	---	19
Houston Belt & Terminal Railway Company	7	---	---	---	6	---	---	---	7
Huron & Eastern Railway	---	---	---	---	6	---	---	---	7
Illinois Central Railroad Company	9	47	2	1	68	---	1	2	130
Indiana Harbor Belt Railroad Company	15	---	---	1	2	---	---	---	18
Indiana Hi-rail Corporation	---	1	---	---	5	---	---	---	6
Indiana Rail Road Company	---	2	---	---	4	---	---	---	6
Iowa Interstate Railroad	1	3	---	---	9	---	---	---	13
Kansas City Southern Railway Company	2	16	---	---	25	---	---	1	44
Kiamichi Railroad Company, Inc.	---	---	---	2	6	---	---	---	8
Long Island Rail Road	5	---	---	1	1	---	---	---	7
Louisiana & Arkansas Railway Company	2	24	1	---	18	---	---	1	46
Louisiana & Delta Railroad	1	1	---	---	4	---	---	---	7
Metro North Commuter Railroad Company	1	4	---	---	---	---	---	---	6
Midsouth Rail Corporation	---	12	1	---	20	---	---	---	32
Monongahela Railway Company	---	---	---	---	2	---	---	---	3
Montana Rail Link	2	1	---	---	7	---	---	---	10
Nashville & Eastern Railroad	---	1	2	---	3	---	---	---	6
New Jersey Transit Rail Operations	7	3	---	---	---	---	---	---	10
New York, Susquehanna And Western Railroad	3	3	2	---	1	---	---	---	9
Norfolk And Western Railway Company	48	84	2	4	118	1	---	---	257
Northeast Illinois Regional Commuter Rail	20	3	---	---	1	---	---	---	24
Paducah & Louisville Railway Company	---	2	---	---	5	---	---	---	7
Port Terminal Railroad Association	1	---	---	---	3	---	---	---	4
Red River Valley & Western Railroad	---	3	---	---	2	---	---	---	5
Soo Line Railroad Company	13	34	4	2	57	---	---	1	111
Southeastern Pennsylvania Transportation	---	4	---	---	---	---	---	---	4
Southern Pacific Transportation Company	84	67	14	5	118	4	1	3	296
Southern Pacific, Chicago-St. Louis Corp.	3	2	---	---	1	---	---	---	6
Southern Railway Company	71	117	2	18	256	4	4	20	492
Southrail Corporation	---	2	---	---	17	---	---	---	19
Springfield Terminal Railway Company	2	7	---	2	4	---	---	---	15
St. Lawrence & Atlantic Railroad Company	---	1	---	---	2	---	---	---	3
St. Louis Southwestern Railway Company	14	20	4	1	43	---	---	1	83
Terminal Railroad Association Of St. Louis	1	---	---	---	4	---	---	---	5
Texas Mexican Railway Company	---	4	---	---	4	---	---	---	8
Toldeo, Peoria And Western Railroad	---	5	---	---	4	---	---	---	9
Union Belt Of Detroit	---	4	---	---	2	---	---	1	7
Union Pacific Railroad Company	100	134	17	11	330	1	1	6	600
UTSZ Transit Service, Incorporated	7	---	---	---	---	---	---	---	7
Visalia Electric Railroad Company	---	---	---	---	13	---	---	---	13
Washington Central Railroad Company	1	1	---	---	6	---	---	---	8
Winchester And Western Railroad Company	---	---	1	1	5	---	---	---	7
Wisconsin Calumet Railroad	---	1	---	---	4	---	---	---	5
Wisconsin Central Ltd.	7	42	3	1	32	---	---	---	85
All Other Railroads.....	13	52	4	5	86	---	1	2	163
Total.....	985	1,417	112	78	2,343	22	13	54	5,024

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
Alaska Railroad Corporation	10	---	7	1	---	1	11	---	8
Amtrak (National Railroad Passenger Corp.)	140	43	74	18	9	3	158	52	77
Atchison, Topeka And Santa Fe Railway Co.	212	26	107	9	2	1	221	28	108
Bessemer & Lake Erie Railroad Company	6	---	1	---	---	---	6	---	1
Buffalo & Pittsburgh Railroad, Inc.	6	7	168	24	12	8	502	87	176
Burlington Northern Railroad Company	478	---	4	1	---	---	7	---	4
Central Michigan Railway Company	6	---	2	---	---	---	4	---	2
Chesapeake & Albemarle Railroad Company	6	---	2	---	---	---	4	---	2
Chicago And North Western Transportation	163	8	52	8	5	1	171	13	53
Chicago, Central & Pacific Railroad Co.	31	---	16	1	---	1	32	---	17
Consolidated Rail Corporation	427	43	138	15	7	4	442	50	142
CSX Transportation	680	67	313	20	8	9	700	75	322
Dakota, Minnesota & Eastern Railroad	23	---	10	2	---	---	25	---	10
Delaware And Hudson Railroad Company	6	---	2	---	---	---	6	---	2
Denver And Rio Grande Western Railroad Co.	11	---	7	1	---	1	12	---	8
Detroit And Mackinac Railway Company	8	---	2	---	---	---	8	---	2
Elgin, Joliet And Eastern Railway Company	11	---	2	---	---	---	11	---	4
Escanaba And Lake Superior Railroad Co.	5	1	3	1	---	1	6	---	2
Florida East Coast Railway Company	51	13	21	3	2	---	54	15	21
Fox River Valley Railroad Corporation	16	---	4	---	---	---	16	---	4
Gateway Western Railway	10	---	8	2	---	---	11	---	4
Georgia Southwestern Railroad Division	7	2	8	2	---	---	11	2	8
Grand Trunk Western Railroad Company	75	9	34	2	---	1	77	9	35
Green Bay And Western Railroad Company	19	---	2	1	---	---	20	---	2
Houston Belt & Terminal Railway Company	6	---	1	---	---	---	7	---	1
Huron & Eastern Railway	6	1	4	---	---	---	6	1	4
Illinois Central Railroad Company	130	8	102	1	---	1	131	8	103
Indiana Harbor Belt Railroad Company	18	---	5	---	---	---	18	---	5
Indiana Hi-rail Corporation	6	---	---	---	---	---	6	---	---
Indiana Rail Road Company	6	---	1	---	---	---	6	---	1
Iowa Interstate Railroad	13	---	7	1	---	---	14	---	7
Kansas City Southern Railway Company	44	1	21	---	---	---	44	1	21
Kiamichi Railroad Company, Inc.	8	---	5	---	---	---	8	---	5
Long Island Rail Road	7	1	1	6	5	---	13	6	1
Louisiana & Arkansas Railway Company	46	2	20	1	---	1	47	2	21
Louisiana & Delta Railroad	7	---	1	---	---	---	7	---	1
Metro North Commuter Railroad Company	7	4	1	---	---	---	6	4	1
Midsouth Rail Corporation	32	---	5	2	---	---	34	---	5
Monongahela Railway Company	3	---	---	---	---	---	3	---	---
Montana Rail Link	10	5	2	---	---	---	10	5	2
Nashville & Eastern Railroad	6	---	2	---	---	---	6	---	2
New Jersey Transit Rail Operations	10	2	2	4	2	2	14	4	4
New York, Susquehanna And Western Railroad	9	1	5	---	---	---	9	1	5
Norfolk And Western Railway Company	257	30	84	28	10	5	285	40	89
Northeast Illinois Regional Commuter Rail	24	3	6	---	---	---	24	3	6
Paducah & Louisville Railway Company	7	---	2	---	---	---	7	---	2
Port Terminal Railroad Association	4	---	3	---	---	---	4	---	3
Red River Valley & Western Railroad	5	---	3	---	---	---	5	---	3
Soo Line Railroad Company	111	10	55	10	1	4	121	11	59
Southeastern Pennsylvania Transportation	4	---	1	---	---	---	4	---	1
Southern Pacific Transportation Company	296	53	155	14	7	12	310	60	167
Southern Pacific, Chicago-St. Louis Corp.	6	---	---	---	---	---	6	---	---
Southern Railway Company	492	42	198	8	3	6	500	45	204
Southrail Corporation	19	---	10	1	---	1	20	---	11
Springfield Terminal Railway Company	15	1	1	1	---	---	16	1	1
St. Lawrence & Atlantic Railroad Company	3	---	3	---	---	---	3	---	3
St. Louis Southwestern Railway Company	83	18	48	2	---	---	85	18	48
Terminal Railroad Association Of St. Louis	5	---	---	---	---	---	5	---	---
Texas Mexican Railway Company	8	---	3	---	---	---	8	---	3
Toldeo, Peoria And Western Railroad	9	---	3	---	---	---	9	---	3
Union Belt Of Detroit	7	---	---	1	---	---	8	---	---
Union Pacific Railroad Company	600	87	305	14	5	4	614	92	309
UTSZ Transit Service, Incorporated	7	1	4	---	---	---	7	1	4
Visalia Electric Railroad Company	13	---	10	---	---	---	13	---	10
Washington Central Railroad Company	8	1	2	---	---	---	8	1	2
Winchester And Western Railroad Company	7	---	3	---	---	---	7	---	3
Wisconsin Calumet Railroad	5	---	---	---	---	---	5	---	---
Wisconsin Central Ltd.	85	2	51	2	2	---	87	4	51
All Other Railroads.....	163	6	69	6	---	1	169	6	70
Total.....	5,024	568	2,186	211	80	68	5,235	648	2,254

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	May Sig. Highways Bellis	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	4	39	6	2	116	3	---	4	174
Alaska.....	1	5	---	---	6	---	---	---	10
Arizona.....	11	16	---	---	4	---	---	---	31
Arkansas.....	17	30	1	3	71	---	---	1	123
California.....	84	35	13	3	36	4	---	1	176
Colorado.....	7	9	5	---	28	1	---	1	51
Connecticut.....	1	4	1	2	2	---	---	---	10
Delaware.....	2	7	---	---	2	---	---	1	12
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	100	28	2	5	24	---	---	---	159
Georgia.....	53	31	4	7	113	---	---	2	210
Idaho.....	2	7	3	---	35	---	---	1	48
Illinois.....	108	92	5	2	97	1	---	---	305
Indiana.....	64	95	2	2	115	1	---	1	280
Iowa.....	16	57	5	5	87	1	1	1	173
Kansas.....	23	16	2	---	62	---	---	---	103
Kentucky.....	12	51	1	---	34	---	3	1	102
Louisiana.....	10	94	5	5	140	---	1	3	258
Maine.....	1	7	---	1	6	---	---	---	15
Maryland.....	4	4	---	---	8	---	---	---	16
Massachusetts.....	5	4	---	---	1	---	---	---	10
Michigan.....	51	99	2	1	59	1	1	2	216
Minnesota.....	7	26	2	1	71	1	1	---	109
Mississippi.....	8	38	3	---	93	1	---	---	143
Missouri.....	18	38	2	1	66	---	1	---	126
Montana.....	4	3	---	---	13	---	---	---	20
Nebraska.....	16	8	---	1	40	---	---	---	65
Nevada.....	1	---	---	---	5	---	---	---	6
New Hampshire.....	---	2	---	1	---	---	---	---	3
New Jersey.....	12	31	3	---	5	---	---	---	51
New Mexico.....	4	2	---	1	8	1	---	---	16
New York.....	19	3	2	3	14	---	---	1	42
North Carolina.....	29	35	1	3	103	---	1	7	179
North Dakota.....	5	4	---	---	11	---	---	---	20
Ohio.....	43	72	4	1	169	1	---	3	293
Oklahoma.....	6	35	1	1	84	---	---	1	128
Oregon.....	5	2	1	---	27	2	---	2	39
Pennsylvania.....	15	46	3	4	53	2	1	3	127
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina.....	13	29	3	7	55	---	---	2	109
South Dakota.....	---	7	---	---	17	---	---	---	24
Tennessee.....	17	34	5	4	52	1	---	7	120
Texas.....	115	156	6	2	227	1	2	3	512
Utah.....	9	3	1	---	11	---	---	4	28
Vermont.....	---	1	---	---	---	---	---	---	1
Virginia.....	25	20	1	5	33	---	---	---	84
Washington.....	13	20	6	4	44	---	---	1	88
West Virginia.....	13	4	2	---	6	---	---	---	25
Wisconsin.....	11	66	7	1	84	---	1	1	171
Wyoming.....	1	3	2	---	5	---	---	---	11
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	985	1,416	112	78	2,342	22	13	54	5,022

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

HIGHWAY USER AND VEHICLE DATA

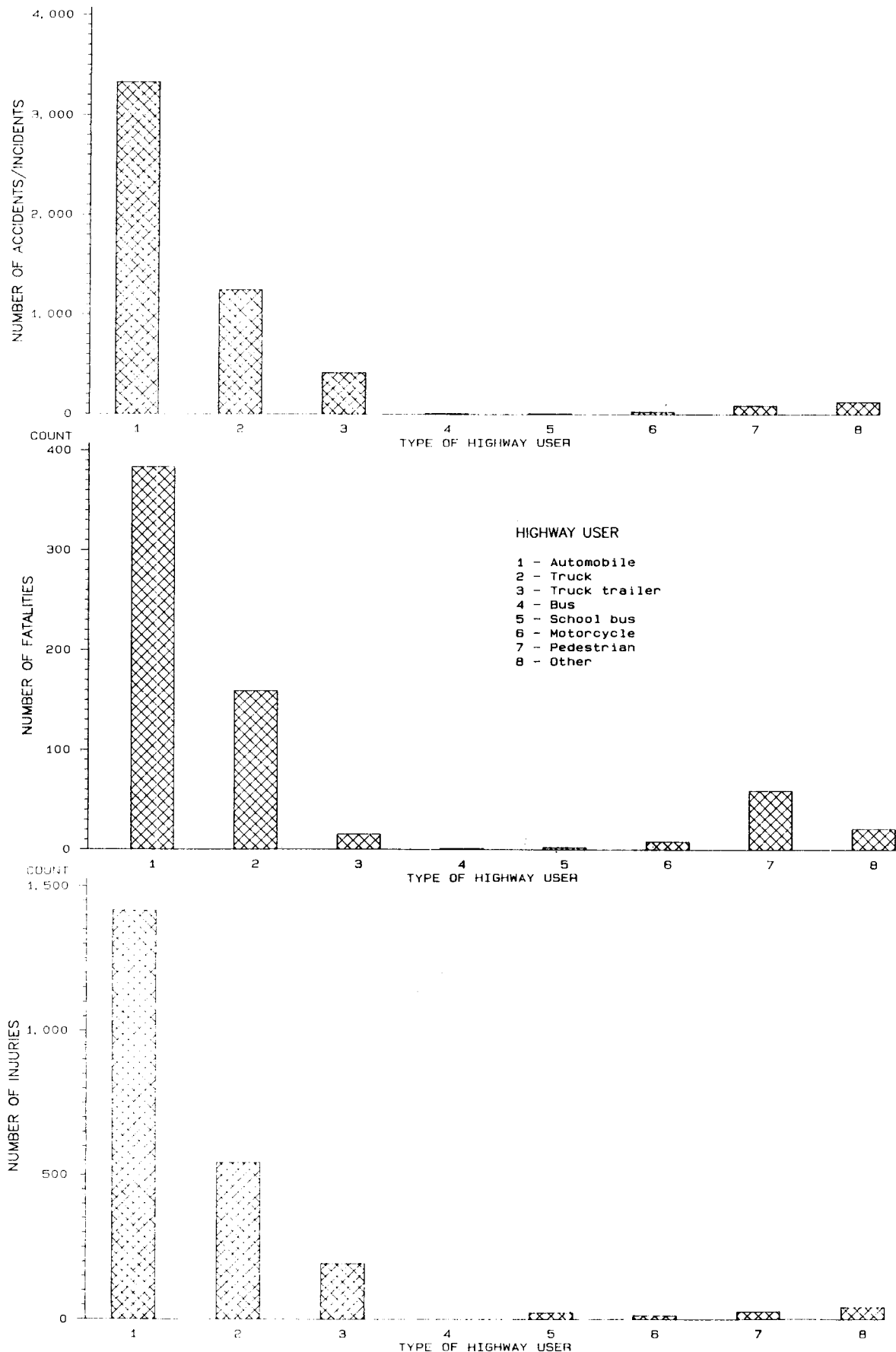


FIGURE 3. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

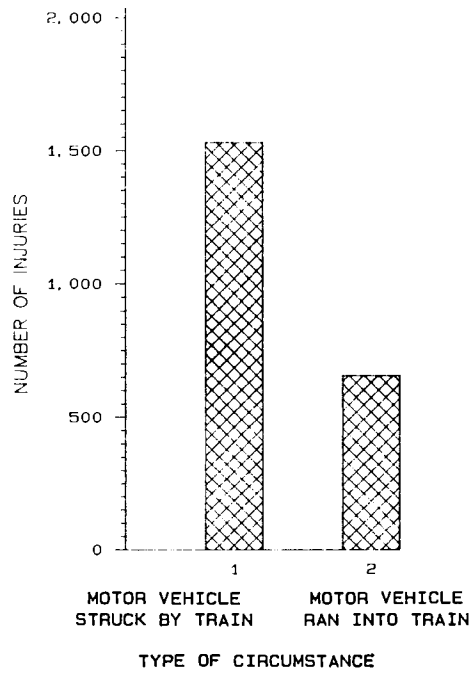
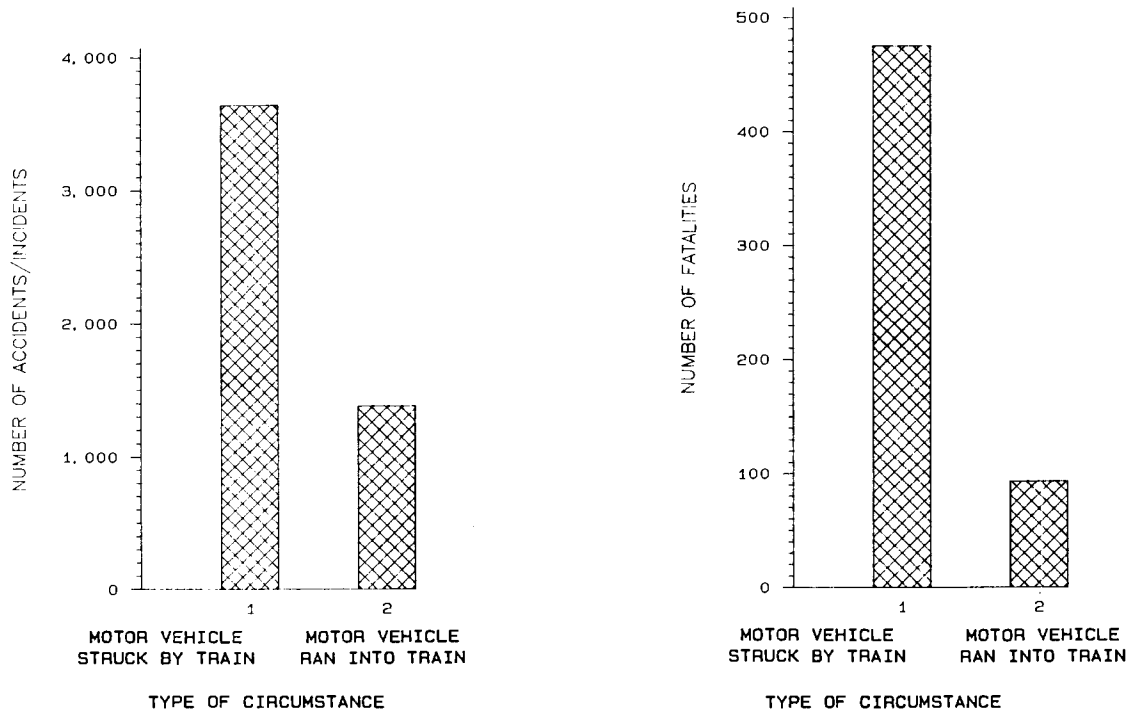


FIGURE 4. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

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.....	3,325	63.54	383	59.10	1,416	62.82	301	972
Truck.....	1,242	23.73	159	24.54	543	24.09	124	377
Truck-trailer....	417	7.97	15	2.31	193	8.56	12	113
Bus.....	7	.13	1	.15	---	---	1	---
School bus.....	7	.13	2	.31	22	.98	1	1
Motorcycle.....	24	.46	8	1.23	12	.53	8	10
Pedestrian.....	86	1.64	59	9.10	26	1.15	58	25
Other.....	125	2.39	21	3.24	42	1.86	16	28
Total.....	5,233	100.00	648	100.00	2,254	100.00	521	1,526

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	3,642	72.52	475	83.63	1,531	70.04	371	1,001
Ran into consist.	1,380	27.48	93	16.37	655	29.96	76	472
Total.....	5,022	100.00	568	100.00	2,186	100.00	447	1,473

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...	3,325	4,300	1.29	381	.11	1,372	.41	10,379,744	3,122
Truck.....	1,242	1,506	1.21	159	.13	498	.40	5,591,882	4,502
Truck-trailer	417	414	.99	10	.02	99	.24	5,239,226	12,564
Bus.....	7	6	.86	1	.14	0	.00	38,200	5,457
School bus...	7	28	4.00	2	.29	22	3.14	133,320	19,046
Motorcycle...	24	25	1.04	8	.33	12	.50	26,750	1,115
Total	5,022	6,279	1.25	561	.11	2,003	.40	21,409,122	4,263

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.....	60	4	23	1,193	192	497	90	19	41	1,022	117	381
Truck.....	31	6	9	532	79	275	32	7	14	281	34	97
Truck-trailer....	10	---	---	302	11	142	12	---	4	56	1	25
Bus.....	---	---	---	5	---	---	---	---	---	2	1	---
School bus.....	---	---	---	6	2	21	---	---	---	---	---	---
Motorcycle.....	---	---	---	4	1	---	---	---	---	4	1	2
Total.....	101	10	32	2,042	285	935	134	26	59	1,365	154	505
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	28	---	10	402	19	178	31	---	11	499	32	275
Truck.....	13	4	3	176	10	81	11	---	7	166	19	57
Truck-trailer....	2	---	2	24	3	15	2	---	---	9	---	5
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	1	---	1	---	---	---	---	---	---
Motorcycle.....	---	---	---	7	3	4	2	---	2	7	3	4
Total.....	43	4	15	610	35	279	46	---	20	681	54	341
GRAND TOTAL												
Automobile.....	88	4	33	1,595	211	675	121	19	52	1,521	149	656
Truck.....	44	10	12	708	89	356	43	7	21	447	53	154
Truck-trailer....	12	---	2	326	14	157	14	---	4	65	1	30
Bus.....	---	---	---	5	---	---	---	---	---	2	1	---
School bus.....	---	---	---	7	2	22	---	---	---	---	---	---
Motorcycle.....	---	---	---	11	4	4	2	---	2	11	4	6
Total.....	144	14	47	2,652	320	1,214	180	26	79	2,046	208	846

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

TYPE OF PERSON

Type Of Vehicle	---EOD---		---ENOD---		---PSGR---		---NONT---		---TRES---		---CONT---		-----Total-----		
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	A/I
RAIL CONSIST STRUCK HIGHWAY USER															
Automobile.....	---	14	---	---	---	2	255	808	77	118	---	---	332	942	2,365
Truck.....	---	26	---	1	---	1	113	337	13	28	---	2	126	395	876
Truck-trailer....	4	77	---	---	---	5	7	85	1	4	---	---	12	171	380
Bus.....	---	---	---	---	---	1	---	---	---	---	---	---	1	---	7
School bus.....	---	---	---	---	---	2	21	---	---	---	---	---	2	21	6
Motorcycle.....	---	---	---	---	---	2	1	---	1	---	---	---	2	2	8
Pedestrian.....	---	---	---	---	---	18	8	39	17	---	---	---	57	25	83
Other.....	---	2	---	---	---	14	34	4	2	---	---	---	18	38	111
Total.....	4	119	---	1	---	8	412	1,294	134	170	---	2	550	1,594	3,836
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	11	---	---	---	1	39	423	12	39	---	---	51	474	960
Truck.....	---	9	---	---	---	---	31	124	2	15	---	---	33	148	366
Truck-trailer....	---	8	---	---	---	---	2	14	1	---	---	---	3	22	37
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	1	---	---	---	---	---	---	1	1
Motorcycle.....	---	---	---	---	---	---	5	9	1	1	---	---	6	10	16
Pedestrian.....	---	---	---	---	---	---	---	1	2	---	---	---	2	1	3
Other.....	---	---	---	---	---	---	3	3	---	1	---	---	3	4	14
Total.....	---	28	---	---	---	1	80	575	18	56	---	---	98	660	1,397
GRAND TOTAL															
Automobile.....	---	25	---	---	---	3	294	1,231	89	157	---	---	383	1,416	3,325
Truck.....	---	35	---	1	---	1	144	461	15	43	---	2	159	543	1,242
Truck-trailer....	4	85	---	---	---	5	9	99	2	4	---	---	15	193	417
Bus.....	---	---	---	---	---	1	---	---	---	---	---	---	1	---	7
School bus.....	---	---	---	---	---	2	22	---	---	---	---	---	2	22	7
Motorcycle.....	---	---	---	---	---	7	10	1	2	---	---	---	8	12	24
Pedestrian.....	---	---	---	---	---	18	9	41	17	---	---	---	59	26	86
Other.....	---	2	---	---	---	17	37	4	3	---	---	---	21	42	125
Total.....	4	147	---	1	---	9	492	1,869	152	226	---	2	648	2,254	5,233

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.....	37	---	4	657	42	158	45	2	12	509	23	79	1,248	67	253
1-9.....	15	2	4	412	57	195	21	3	8	189	14	93	637	76	300
10-19.....	18	2	7	382	59	222	25	10	15	222	24	110	647	95	354
20-29.....	14	3	10	237	47	131	18	6	11	171	37	93	440	93	245
30-39.....	4	3	1	138	28	86	11	3	5	114	20	62	267	54	154
40-49.....	---	---	---	61	19	49	1	2	---	30	12	5	92	33	54
50-59.....	---	---	---	30	8	30	1	---	2	12	12	6	43	20	38
60 and over.....	1	---	1	7	2	9	---	---	---	4	1	3	12	3	13
Unknown.....	12	---	5	118	23	55	12	---	6	114	11	54	256	34	120
Total.....	101	10	32	2,042	285	935	134	26	59	1,365	154	505	3,642	475	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	9	---	3	120	2	28	13	---	4	100	2	21	242	4	56
10-19.....	8	1	2	133	2	38	7	---	2	124	3	42	272	6	84
20-29.....	7	---	4	115	7	61	7	---	2	137	5	81	266	12	148
30-39.....	7	2	1	87	6	52	5	---	2	100	7	54	199	15	109
40-49.....	3	---	3	57	8	38	5	---	4	57	3	38	122	11	83
50-59.....	1	---	1	30	5	27	1	---	1	33	12	25	65	17	54
60 and over.....	1	1	---	8	4	9	---	---	---	15	13	11	24	18	20
Unknown.....	7	---	1	60	1	26	8	---	5	115	9	69	190	10	101
Total.....	43	4	15	610	35	279	46	---	20	681	54	341	1,380	93	655
GRAND TOTAL															
Standing.....	37	---	4	657	42	158	45	2	12	509	23	79	1,248	67	253
1-9.....	24	2	7	532	59	223	34	3	12	289	16	114	879	80	356
10-19.....	26	3	9	515	61	260	32	10	17	346	27	152	919	101	438
20-29.....	21	3	14	352	54	192	25	6	13	308	42	174	706	105	393
30-39.....	11	5	2	225	34	138	16	3	7	214	27	116	466	69	263
40-49.....	3	---	3	118	27	87	6	2	4	87	15	43	214	44	137
50-59.....	1	---	1	60	13	57	2	---	3	45	24	31	108	37	92
60 and over.....	2	1	1	15	6	18	---	---	---	19	14	14	36	21	33
Unknown.....	19	---	6	178	24	81	20	---	11	229	20	123	446	44	221
Total.....	144	14	47	2,652	320	1,214	180	26	79	2,046	208	846	5,022	568	2,186

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.....	334	19	36	538	34	125	2,453	330	1,255
Truck.....	84	5	7	182	9	50	976	145	486
Truck-trailer....	40	---	18	60	---	17	317	15	158
Bus.....	2	---	---	2	---	---	3	1	---
School bus.....	2	---	---	2	---	---	3	2	22
Motorcycle.....	1	---	---	1	---	---	22	8	12
Total.....	463	24	61	785	43	192	3,774	501	1,933

TRAIN AND TRACK DATA

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

Speed Of Consist	VISIBILITY									Total						
	Dawn			Day			Dusk			Dark			A/I	Kld	Inj	
	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.....	---	---	---	3	356	1	59	24	---	8	250	4	51	643	5	121
1-9.....	13	---	---	5	302	4	107	20	---	5	227	7	94	566	11	211
10-19.....	17	---	---	6	373	13	178	22	2	19	306	17	144	718	32	347
20-29.....	17	---	---	3	335	49	196	18	1	6	220	31	102	590	85	307
30-39.....	17	4	3	11	395	87	252	32	8	14	221	47	83	674	146	360
40-49.....	26	4	1	2	184	84	100	14	10	6	93	35	21	296	130	129
50-59.....	5	1	2	67	37	23	2	---	---	---	34	5	8	109	43	33
60-69.....	6	1	2	30	10	20	2	5	1	13	8	2	45	23	23	---
70-79.....	---	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	101	10	32	2,042	285	935	134	26	59	1,365	154	505	3,642	475	1,531	
HIGHWAY USER STRUCK RAIL CONSIST																
Standing.....	---	---	---	15	---	---	1	---	---	90	10	43	106	10	43	
1-9.....	12	1	3	162	1	37	14	---	7	204	12	94	392	14	138	
10-19.....	9	---	4	123	3	58	10	---	4	133	2	57	275	5	126	
20-29.....	7	---	3	116	9	65	7	---	4	101	9	63	231	18	135	
30-39.....	6	---	3	82	5	46	8	---	4	81	6	40	177	11	93	
40-49.....	4	---	1	73	11	52	5	---	1	42	3	24	124	14	78	
50-59.....	4	3	---	27	5	13	1	---	---	22	9	11	54	17	24	
60-69.....	---	---	---	8	---	8	---	---	---	6	2	4	14	2	12	
70-79.....	1	---	1	4	1	---	---	---	---	1	1	1	6	2	2	
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
90 and over.....	---	---	---	---	---	---	---	---	---	1	---	4	1	---	4	
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total.....	43	4	15	610	35	279	46	---	20	681	54	341	1,380	93	655	
GRAND TOTAL																
Standing.....	---	---	---	15	---	---	1	---	---	90	10	43	106	10	43	
1-9.....	25	1	6	518	2	96	38	---	12	454	16	145	1,035	19	259	
10-19.....	26	---	9	425	7	165	30	---	12	360	9	151	841	16	337	
20-29.....	24	---	9	489	22	243	29	2	23	407	26	207	949	50	482	
30-39.....	23	4	6	417	54	242	26	1	10	301	37	142	767	96	400	
40-49.....	30	4	12	468	98	304	37	8	15	263	50	107	798	160	438	
50-59.....	9	4	2	211	89	113	15	10	6	115	44	32	350	147	153	
60-69.....	6	1	2	75	37	31	2	---	---	40	7	12	123	45	45	
70-79.....	1	---	1	34	11	20	2	5	1	14	9	3	51	25	25	
80-89.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---	
90 and over.....	---	---	---	---	---	---	---	---	---	1	---	4	1	---	4	
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total.....	144	14	47	2,652	320	1,214	180	26	79	2,046	208	846	5,022	568	2,186	

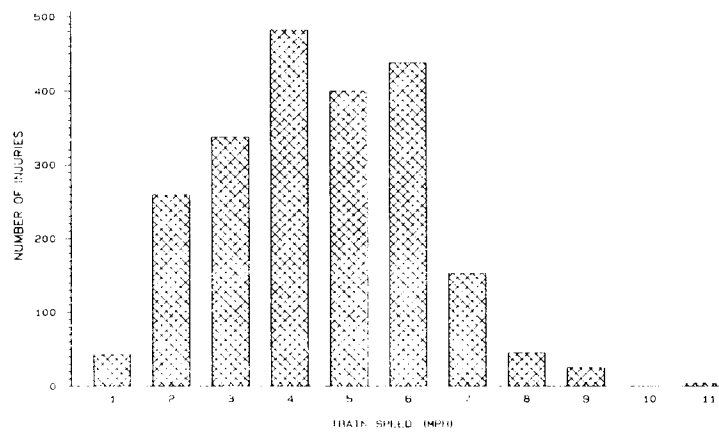
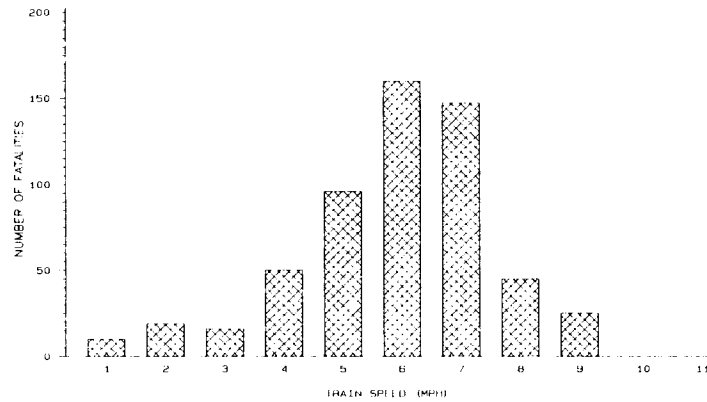
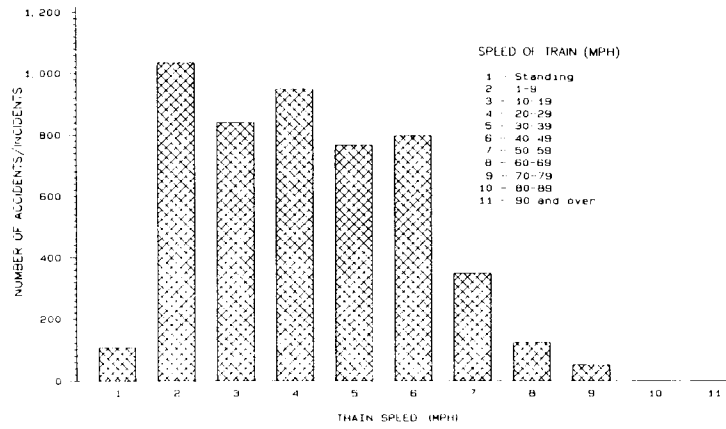


FIGURE 5. ACCIDENTS/ INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

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-----					-----Visibility-----			
				-----Quarter-----					Dawn	Day	Dusk	Dark
				1	2	3	4	Unknown				
Train (Units Pulling)	3,131	1,017	646	153	97	47	47	27	124	2,219	152	1,653
Train (Units Pushing)	192	106	63	4	6	8	24	1	7	136	14	141
Train (Standing)	---	95	15	26	14	18	16	6	---	8	1	86
Cars (Moving)	58	37	35	---	---	---	1	1	1	87	---	7
Cars (Standing)	---	6	3	---	1	---	1	1	---	4	---	2
Light Locos (Moving)	259	113	102	---	1	2	8	---	12	192	13	155
Light Locos (Standing)	---	5	5	---	---	---	---	---	---	3	---	2
Other	2	1	1	---	---	---	---	---	---	3	---	---
Total	3,642	1,380	870	183	119	75	97	36	144	2,652	180	2,046

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	72	10	34	---	---	---	21	---	9	13	---	---	106	10	43
1-9	495	12	137	11	1	3	294	4	72	235	2	47	1,035	19	259
10-19	585	8	241	17	1	2	105	4	36	134	3	58	841	16	337
20-29	843	48	426	20	1	6	16	---	5	70	1	45	949	50	482
30-39	680	91	360	30	2	11	2	---	---	55	3	29	767	96	400
40-49	747	154	411	31	3	20	---	---	---	20	3	7	798	160	438
50-59	306	127	134	31	11	16	---	---	---	13	9	3	350	147	153
60-69	76	32	27	46	13	18	---	---	---	1	---	---	123	45	45
70-79	11	4	4	40	21	21	---	---	---	---	---	---	51	25	25
80-89	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over	---	---	---	1	---	4	---	---	---	---	---	---	1	---	4
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	3,815	486	1,774	228	53	101	438	8	122	541	21	189	5,022	568	2,186

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.....	531	47	225	163	32	64	260	3	72	130	3	44	1,084	85	405
10-19.....	388	45	185	62	21	37	89	3	29	15	1	3	554	70	254
20-29.....	318	47	161	---	---	---	25	1	6	5	---	1	348	48	168
30-39.....	254	31	103	1	---	---	22	---	6	3	---	---	280	31	109
40-49.....	273	36	134	---	---	---	14	1	2	4	---	2	291	37	138
50-59.....	294	42	135	---	---	---	8	---	2	1	---	---	303	42	137
60-69.....	274	36	117	---	---	---	4	---	1	2	1	---	280	37	118
70-79.....	288	34	122	1	---	---	4	---	2	1	---	---	294	34	124
80-89.....	215	38	93	---	---	---	1	---	---	2	---	---	218	38	93
90-99.....	263	32	138	---	---	---	2	---	2	1	---	1	266	32	141
100-109.....	201	14	94	1	---	---	---	---	---	---	---	---	202	14	94
110-119.....	256	52	125	---	---	---	1	---	---	---	---	---	257	52	125
120-129.....	82	11	63	---	---	---	---	---	---	---	---	---	82	11	63
130-139.....	49	6	19	---	---	---	2	---	---	---	---	---	51	6	19
140-149.....	44	4	14	---	---	---	1	---	---	---	---	---	45	4	14
150 And over.....	58	7	37	---	---	---	---	---	---	---	---	---	58	7	37
Locomotives only.	27	4	9	---	---	---	5	---	---	377	16	138	409	20	147
Total.....	3,815	486	1,774	228	53	101	438	8	122	541	21	189	5,022	568	2,186

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.....	11	1	3	498	42	193	32	9	10	203	21	64	744	73	270
10-19.....	3	---	---	229	33	117	11	1	4	139	18	52	382	52	173
20-29.....	5	1	2	134	18	72	11	3	4	89	14	35	239	36	113
30-39.....	6	---	---	105	15	36	11	1	5	86	10	33	208	26	74
40-49.....	11	---	5	117	22	53	9	---	3	93	11	39	230	33	100
50-59.....	8	1	3	115	26	59	10	1	8	103	12	32	236	40	102
60-69.....	7	---	3	107	21	48	9	2	3	96	11	37	219	34	91
70-79.....	5	2	4	117	15	48	3	2	1	90	7	33	215	26	86
80-89.....	9	1	2	85	19	36	9	2	10	71	14	16	174	36	64
90-99.....	8	1	6	107	12	59	4	---	---	81	11	32	200	24	97
100-109.....	4	1	---	86	4	52	4	1	3	64	5	15	158	11	70
110-119.....	5	---	1	109	34	62	3	2	2	71	7	34	188	43	99
120-129.....	2	1	---	28	5	30	5	2	3	25	2	11	60	10	44
130-139.....	2	1	---	18	4	3	2	---	1	16	1	9	38	6	13
140-149.....	2	---	---	17	---	3	1	---	---	10	1	6	30	1	9
150 And over.....	2	---	1	22	4	13	---	---	---	19	3	9	43	7	23
Locomotives only.....	11	---	2	148	11	51	10	---	2	109	6	48	278	17	103
Total.....	101	10	32	2,042	285	935	134	26	59	1,365	154	505	3,642	475	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	7	---	2	205	6	76	11	---	4	117	6	53	340	12	135
10-19.....	4	---	1	86	7	35	6	---	1	76	11	44	172	18	81
20-29.....	6	1	2	40	7	24	5	---	---	58	4	29	109	12	55
30-39.....	3	---	1	29	2	14	2	---	---	38	3	20	72	5	35
40-49.....	2	---	1	19	---	12	---	---	---	40	4	25	61	4	38
50-59.....	1	---	1	27	---	11	7	---	5	32	2	18	67	2	35
60-69.....	2	---	1	18	1	6	2	---	1	39	2	19	61	3	27
70-79.....	3	---	---	25	5	12	1	---	2	51	3	24	79	8	38
80-89.....	2	---	3	13	1	13	2	---	1	26	1	12	44	2	29
90-99.....	3	---	1	25	1	19	2	---	4	36	7	20	66	8	44
100-109.....	2	---	1	13	---	6	1	---	1	28	3	16	44	3	24
110-119.....	4	3	1	24	2	14	1	---	---	40	4	11	69	9	26
120-129.....	---	---	---	10	1	8	---	---	---	12	---	11	22	1	19
130-139.....	---	---	---	3	---	1	---	---	---	10	---	5	13	---	6
140-149.....	---	---	---	5	---	2	1	---	---	9	3	3	15	3	5
150 And over.....	---	---	---	6	---	6	1	---	---	8	---	8	15	---	14
Locomotives only.....	4	---	---	62	2	20	4	---	1	61	1	23	131	3	44
Total.....	43	4	15	610	35	279	46	---	20	681	54	341	1,380	93	655
GRAND TOTAL															
1-9.....	18	1	5	703	48	269	43	9	14	320	27	117	1,084	85	405
10-19.....	7	---	1	315	40	152	17	1	5	215	29	96	554	70	254
20-29.....	11	2	4	174	25	96	16	3	4	147	18	64	348	48	168
30-39.....	9	---	1	134	17	50	13	1	5	124	13	53	280	31	109
40-49.....	13	---	6	136	22	65	9	---	3	133	15	64	291	37	138
50-59.....	9	1	4	142	26	70	17	1	13	135	14	50	303	42	137
60-69.....	9	---	4	125	22	54	11	2	4	135	13	56	280	37	118
70-79.....	7	2	4	142	20	60	4	2	3	141	10	57	294	34	124
80-89.....	12	1	5	98	20	49	11	2	11	97	15	28	218	38	93
90-99.....	11	1	7	132	13	78	6	---	4	117	18	52	266	32	141
100-109.....	6	1	1	99	4	58	5	1	4	92	8	31	202	14	94
110-119.....	9	3	2	133	36	76	4	2	2	111	11	45	257	52	125
120-129.....	2	1	---	38	6	38	5	2	3	37	2	22	82	11	63
130-139.....	2	---	---	21	4	4	2	---	1	26	1	14	51	6	19
140-149.....	2	---	---	22	---	5	2	---	---	19	4	9	45	4	14
150 And over.....	2	---	1	28	4	19	1	---	---	27	3	17	58	7	37
Locomotives only.....	15	---	2	210	13	71	14	---	3	170	7	71	409	20	147
Total.....	144	14	47	2,652	320	1,214	180	26	79	2,046	208	846	5,022	568	2,186

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.....	391	6	101	201	1	53	38	---	14	151	4	51	---	---	---	781	11	219
2.....	919	45	423	42	---	8	12	1	2	35	2	11	---	---	---	1,008	48	444
3.....	1,283	116	617	24	---	12	6	---	---	12	---	3	---	---	---	1,325	116	632
4.....	1,691	348	783	9	---	1	1	---	---	7	1	2	---	---	---	1,708	349	786
5.....	142	41	80	---	---	---	---	---	---	---	---	---	---	---	---	142	41	80
6.....	2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	2	1	---
Unknown.....	38	2	19	9	---	1	2	---	3	7	---	2	---	---	---	56	2	25
Total.....	4,466	559	2,023	285	1	75	59	1	19	212	7	69	---	---	---	5,022	568	2,186

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.....	543	90	236	2	1	---	9	1	4	413	25	76	18	1	2	985	118	318
Cantilever flashrs	---	---	---	21	2	5	266	26	185	61	1	14	4	---	2	352	29	206
Standard flashers	---	---	---	82	6	31	724	104	371	241	6	51	17	1	9	1,064	117	462
Hwy Sig, W W, Bells	---	---	---	11	---	1	66	4	28	32	---	9	3	---	2	112	4	40
Special Devices..	---	---	---	7	---	---	55	6	19	15	---	2	1	---	---	78	6	21
Crossbucks.....	---	---	---	120	12	41	1,611	227	901	561	47	146	50	5	25	2,342	291	1,113
Stopsigns.....	---	---	---	3	---	---	11	1	7	7	---	2	1	---	---	22	1	9
Other Signs.....	---	---	---	---	---	---	7	---	2	6	---	2	---	---	---	13	---	4
No Signs Or Signl	---	---	---	3	---	---	29	1	12	21	1	1	1	---	---	54	2	13
Total.....	543	90	236	249	21	78	2,778	370	1,529	1,357	80	303	95	7	40	5,022	568	2,186

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

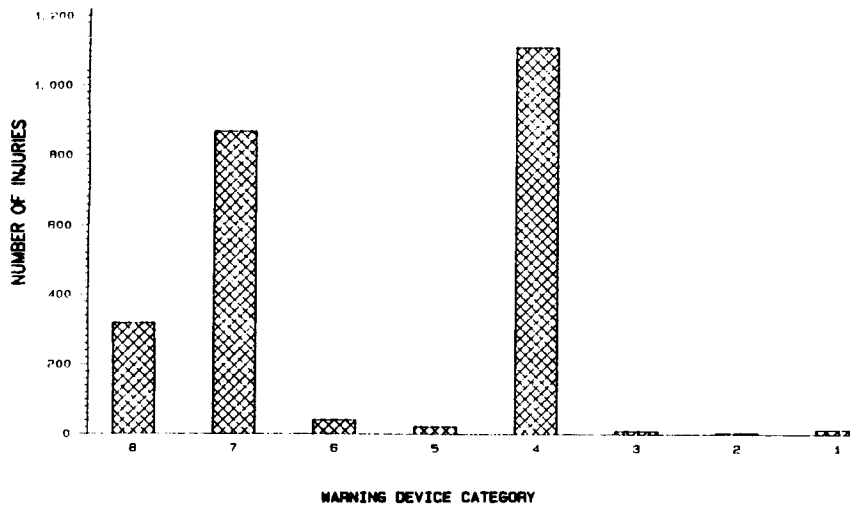
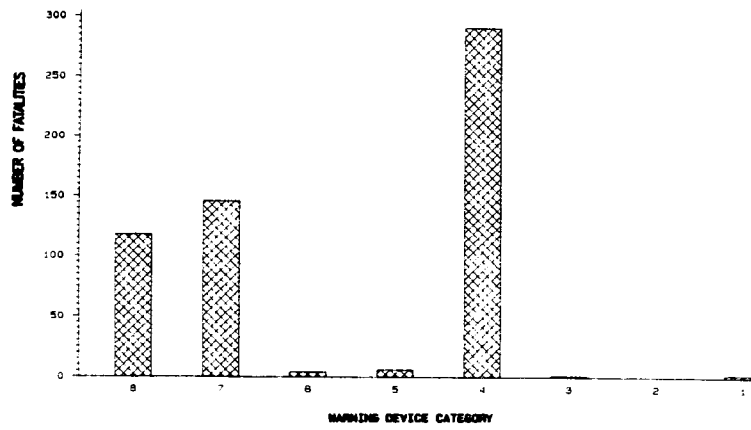
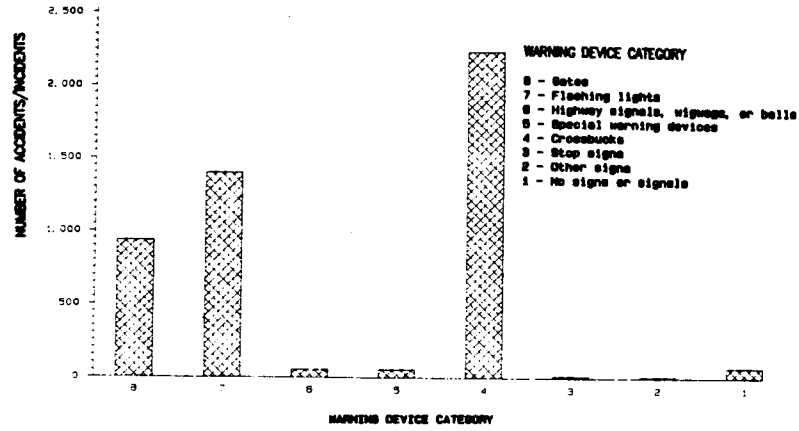


FIGURE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

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-			-----Struck By Consist-----				-----Highway User-----			
	Yes	No	N/A	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	967	4	14	32	314	18	407	7	61	4	142
Cantilever flashrs	348	1	3	3	133	8	89	4	56	2	57
Standard flashers	1,042	4	18	16	408	26	277	13	158	6	160
Hwy Sig,W W,Bells	112	---	---	1	48	4	22	---	16	2	19
Special Devices..	---	---	78	2	24	2	11	1	10	3	25
Crossbucks.....	---	---	2,342	43	1,079	73	533	18	301	28	267
Stopsigns.....	---	---	22	---	8	---	7	---	4	---	3
Other Signs.....	---	---	13	---	5	1	5	---	---	---	2
No Signs Or Signl	---	---	54	4	23	2	14	---	4	1	6
Total.....	2,469	9	2,544	101	2,042	134	1,365	43	610	46	681

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

	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	841	92	335	371	23	160	1,212	115	495
Not Lighted.....	2,073	296	901	732	54	383	2,805	350	1,284
Not Reported.....	680	78	273	259	15	104	939	93	377
Total.....	3,642	475	1,531	1,380	93	655	5,022	568	2,186

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

Warning Device	VISIBILITY														
	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.....	49	4	15	864	103	334	55	12	23	760	89	282	1,728	208	654
Automatic, Side Of Approach.....	3	---	2	35	2	12	1	---	1	28	5	7	67	7	22
Automatic, Opposite Side.....	---	---	---	2	1	1	---	---	---	3	---	---	5	1	1
Automatic, Side Not Reported.....	---	---	---	2	---	2	---	---	---	4	---	---	6	---	2
Manual, Both Sides.....	2	---	---	18	1	6	2	---	2	7	1	---	29	2	8
Manual, Side Of Approach.....	---	---	---	5	---	---	---	---	---	3	---	---	8	---	---
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Manual, Side Not Reported.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Other, Both Sides.....	40	5	14	997	163	517	70	13	27	518	58	209	1,625	239	767
Other, Side Of Approach.....	2	---	1	59	5	38	2	---	4	20	1	4	83	6	47
Other, Opposite Side.....	1	---	---	22	4	11	1	1	2	1	---	---	25	5	13
Other, Side Not Reported.....	---	---	---	14	5	5	1	---	---	6	---	1	21	5	6
No Signs Or Signals.....	4	1	---	23	1	9	2	---	---	14	---	2	43	2	11
Total.....	101	10	32	2,042	285	935	134	26	59	1,365	154	505	3,642	475	1,531
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	24	2	8	270	19	136	14	---	6	359	29	178	667	50	328
Automatic, Side Of Approach.....	---	---	---	16	---	4	---	---	---	18	2	14	34	2	18
Automatic, Opposite Side.....	---	---	---	5	---	---	---	---	---	---	---	---	2	---	---
Automatic, Side Not Reported.....	---	---	---	3	---	1	---	---	---	1	---	---	4	---	1
Manual, Both Sides.....	1	---	---	9	---	3	3	---	---	20	4	6	33	4	9
Manual, Side Of Approach.....	---	---	---	1	---	---	---	---	---	2	---	---	1	3	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported.....	---	---	---	---	---	---	---	---	---	3	---	3	3	---	3
Other, Both Sides.....	15	2	5	283	16	121	26	---	11	258	18	132	582	36	269
Other, Side Of Approach.....	3	---	2	15	---	12	1	---	2	11	1	4	30	1	20
Other, Opposite Side.....	---	---	---	3	---	1	---	---	---	2	---	2	5	---	3
Other, Side Not Reported.....	---	---	---	4	---	---	1	---	1	1	---	---	6	---	1
No Signs Or Signals.....	---	---	---	4	---	1	1	---	---	6	---	1	11	---	2
Total.....	43	4	15	610	35	279	46	---	20	681	54	341	1,380	93	655
GRAND TOTAL															
Automatic, Both Sides.....	73	6	23	1,134	122	470	69	12	29	1,119	118	460	2,395	258	982
Automatic, Side Of Approach.....	3	---	2	51	2	16	1	---	1	46	7	21	101	9	40
Automatic, Opposite Side.....	---	---	---	4	1	1	---	---	---	3	---	---	7	1	1
Automatic, Side Not Reported.....	---	---	---	5	---	3	---	---	---	5	---	---	10	---	3
Manual, Both Sides.....	3	---	---	27	1	9	5	---	2	27	5	6	62	6	17
Manual, Side Of Approach.....	---	---	---	6	---	---	---	---	---	5	---	1	11	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Manual, Side Not Reported.....	---	---	---	1	---	---	---	---	---	3	---	3	4	---	3
Other, Both Sides.....	55	7	19	1,280	179	638	96	13	38	776	76	341	2,207	275	1,036
Other, Side Of Approach.....	5	---	3	74	5	50	3	---	6	31	2	8	113	7	67
Other, Opposite Side.....	1	---	---	25	4	12	1	1	2	3	---	2	30	5	16
Other, Side Not Reported.....	---	---	---	18	5	5	2	---	1	7	---	1	27	5	7
No Signs Or Signals.....	4	1	---	27	1	10	3	---	---	20	---	3	54	2	13
Total.....	144	14	47	2,652	320	1,214	180	26	79	2,046	208	846	5,022	568	2,186

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

Visibility	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	101	10	32	43	4	15	144	14	47
Day.....	2,042	285	935	610	35	279	2,652	320	1,214
Dusk.....	134	26	59	46	---	20	180	26	79
Dark.....	1,365	154	505	681	54	341	2,046	208	846
Total.....	3,642	475	1,531	1,380	93	655	5,022	568	2,186

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

Temperature	CIRCUMSTANCE								-----Total-----			
	----Struck By Consist----				----Ran Into Consist----				Dawn	Day	Dusk	Dark
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark				
Over 100.....	---	7	---	1	---	1	---	---	---	8	---	1
80 To 100.....	9	593	18	81	2	149	3	33	11	742	21	114
60 To 79.....	29	729	39	447	13	200	17	229	42	929	56	676
40 To 59.....	36	479	46	493	16	141	15	253	52	620	61	746
20 To 39.....	20	205	27	305	8	92	10	129	28	297	37	434
0 To 19.....	7	26	3	33	3	25	1	33	10	51	4	66
-20 To -1.....	---	3	1	3	1	2	---	3	1	5	1	6
Under -20.....	---	---	---	2	---	---	---	1	---	---	---	3
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	101	2,042	134	1,365	43	610	46	681	144	2,652	180	2,046

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

TIME	CIRCUMSTANCE								
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	-----Total-----		
							A/I	Kld	Inj
MID TO 12:59 AM..	100	22	34	62	8	29	162	30	63
1 TO 1:59 AM...	94	5	34	73	4	46	167	9	80
2 TO 2:59 AM...	83	14	30	84	7	48	167	21	78
3 TO 3:59 AM...	70	5	19	54	2	24	124	7	43
4 TO 4:59 AM...	68	4	25	36	6	15	104	10	40
5 TO 5:59 AM...	80	9	21	40	7	20	120	16	41
6 TO 6:59 AM...	106	15	31	39	1	12	145	16	43
7 TO 7:59 AM...	167	20	103	46	5	12	213	25	115
8 TO 8:59 AM...	176	24	91	56	3	25	232	27	116
9 TO 9:59 AM...	201	24	87	48	6	18	249	30	105
10 TO 10:59 AM.	148	25	61	57	---	25	205	25	86
11 TO 11:59 AM.	183	27	69	55	8	35	238	35	104
NOON TO 12:59 PM.	169	18	85	64	5	33	233	23	118
1 TO 1:59 PM...	192	27	96	37	---	17	229	27	113
2 TO 2:59 PM...	177	26	94	61	3	32	238	29	126
3 TO 3:59 PM...	208	28	76	67	2	35	275	30	111
4 TO 4:59 PM...	205	23	84	60	2	24	265	25	108
5 TO 5:59 PM...	187	25	68	62	4	24	249	29	92
6 TO 6:59 PM...	200	35	86	58	2	14	258	37	100
7 TO 7:59 PM...	178	19	77	51	1	27	229	20	104
8 TO 8:59 PM...	176	16	89	58	4	35	234	20	124
9 TO 9:59 PM...	163	20	62	63	3	31	226	23	93
10 TO 10:59 PM.	178	29	52	81	3	39	259	32	91
11 TO 11:59 PM.	133	15	57	68	7	35	201	22	92
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	3,642	475	1,531	1,380	93	655	5,022	568	2,186

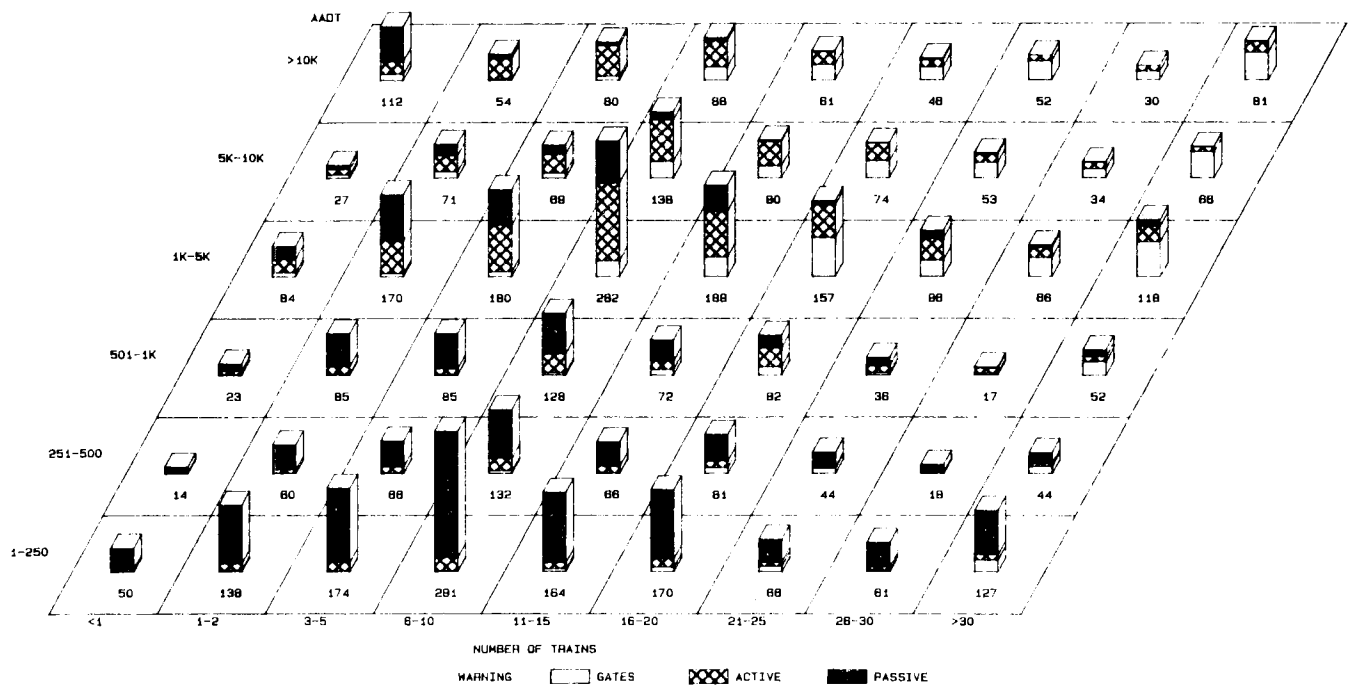
TABLE 29. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE

Month	CIRCUMSTANCE								
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	-----Total-----		
							A/I	Kld	Inj
January.....	349	46	159	151	7	75	500	53	234
February.....	329	43	138	121	3	49	450	46	187
March.....	319	33	135	131	16	72	450	49	207
April.....	255	39	108	97	7	49	352	46	157
May.....	251	37	105	103	3	42	354	40	147
June.....	284	45	91	90	9	44	374	54	135
July.....	261	36	129	107	9	46	368	45	175
August.....	275	32	116	95	6	35	370	38	151
September.....	268	30	112	120	12	63	388	42	175
October.....	337	45	112	110	8	51	447	53	163
November.....	342	43	167	112	8	62	454	51	229
December.....	372	46	159	143	5	67	515	51	226
Total.....	3,642	475	1,531	1,380	93	655	5,022	568	2,186

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

Weather	---Struck By Consist---				---Ran Into Consist---				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	58	1,452	78	866	25	398	32	385	83	1,850	110	1,251
Cloudy.....	28	395	34	269	11	116	9	158	39	511	43	427
Rain.....	4	155	12	161	3	60	3	90	7	215	15	251
Fog.....	9	14	1	33	3	12	---	25	12	26	1	58
Sleet.....	---	3	1	7	1	5	2	5	1	8	3	12
Snow.....	2	21	7	27	---	19	---	18	2	40	7	45
Not Reported.....	---	2	1	2	---	---	---	---	---	2	1	2
Total.....	101	2,042	134	1,365	43	610	46	681	144	2,652	180	2,046

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								Total			
	----Struck By Consist----				----Ran Into Consist----				Dawn	Day	Dusk	Dark
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark				
Permanent structure...	5	45	4	25	1	30	---	15	6	75	4	40
Standing RR Equipment.	---	17	---	3	---	3	---	7	---	20	---	10
Passing Train.....	---	3	1	5	---	---	1	2	---	3	2	7
Topography.....	2	21	1	7	1	3	---	3	3	24	1	10
Vegetation.....	---	54	1	9	1	33	1	2	1	87	2	11
Highway Vehicle.....	1	12	---	1	---	2	---	---	1	14	---	1
Other.....	3	25	1	17	2	9	1	4	5	34	2	21
Not Obstructed.....	89	1,862	126	1,298	38	530	43	647	127	2,392	169	1,945
Unknown.....	1	3	---	---	---	---	---	1	1	3	---	1
Total.....	101	2,042	134	1,365	43	610	46	681	144	2,652	180	2,046

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

Type Of Vehicle	MOTORIST ACTION			Standing Vehicle		
	Struck By Yes	By Second Train No	Unknown	Passed Yes	No	Unknown
Automobile.....	85	3,189	51	145	2,882	298
Truck.....	24	1,201	17	28	1,107	107
Truck-trailer....	13	397	7	8	384	25
Bus.....	---	7	---	1	6	---
School bus.....	---	7	---	---	6	1
Motorcycle.....	---	22	2	1	18	5
Total.....	122	4,823	77	183	4,403	436

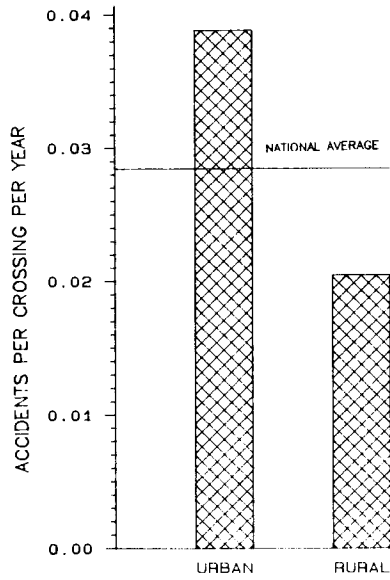


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

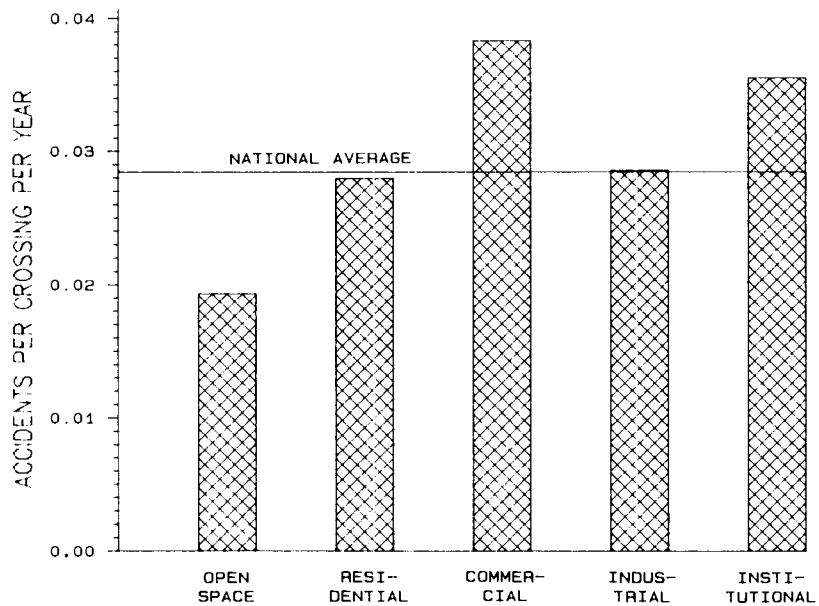


FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

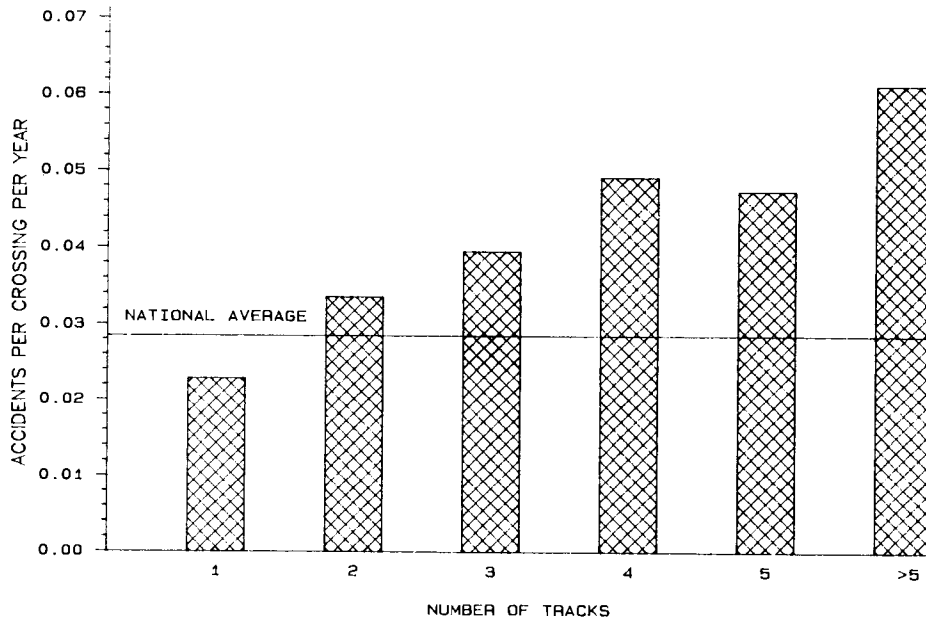


FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

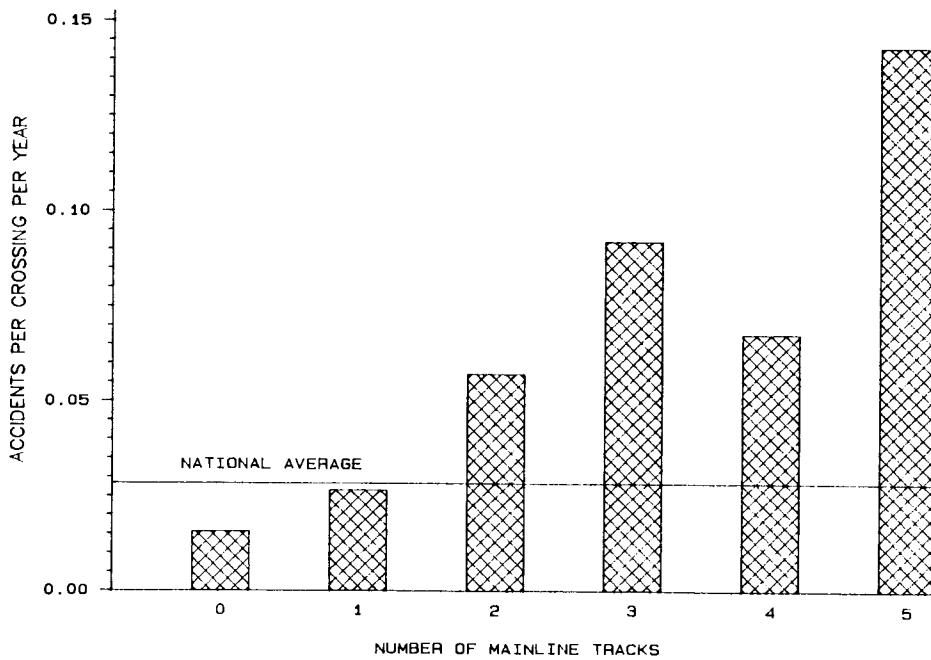


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

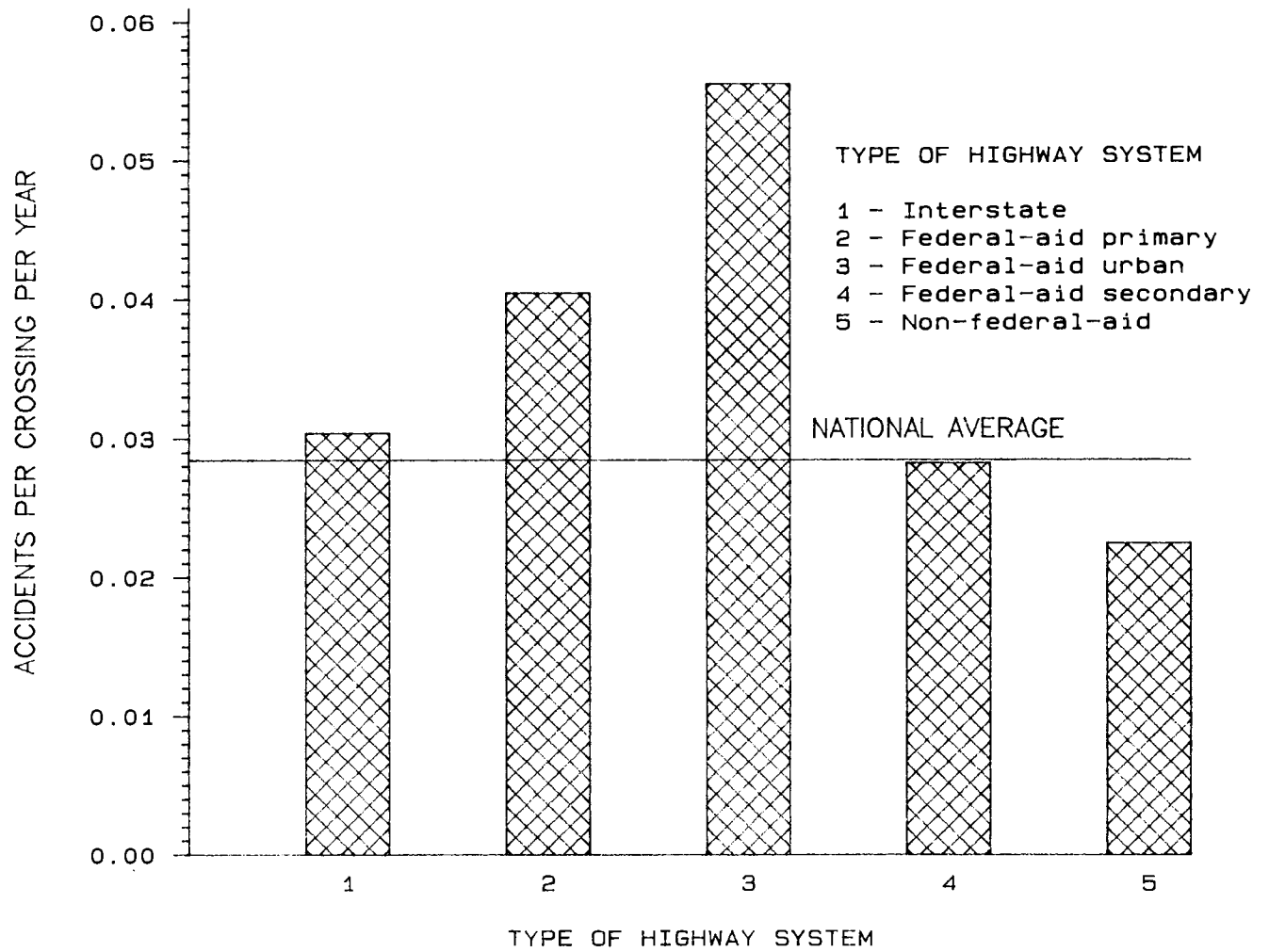


FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

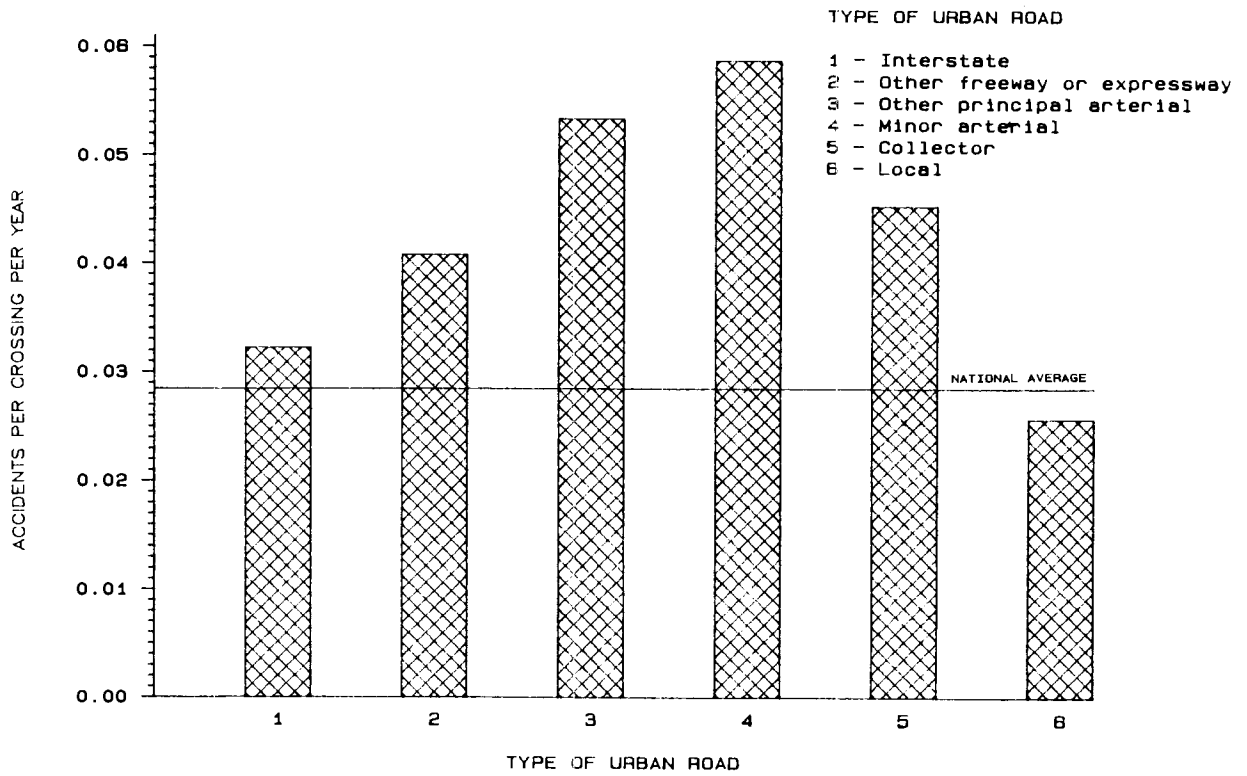


FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

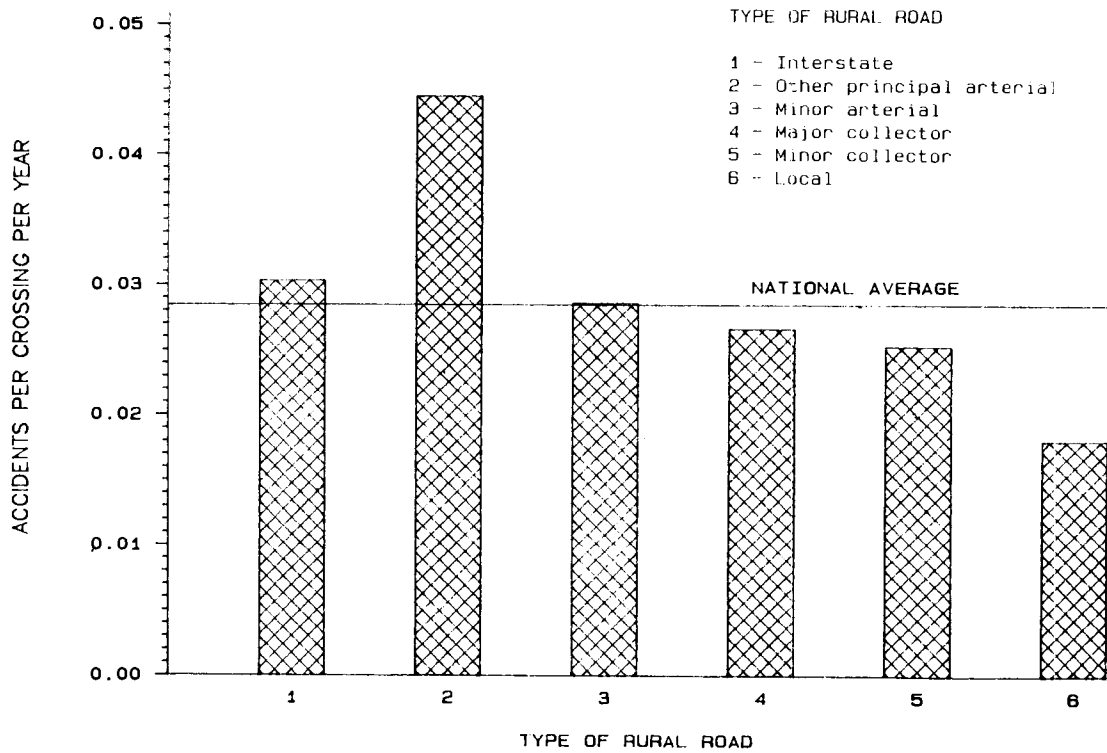


FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

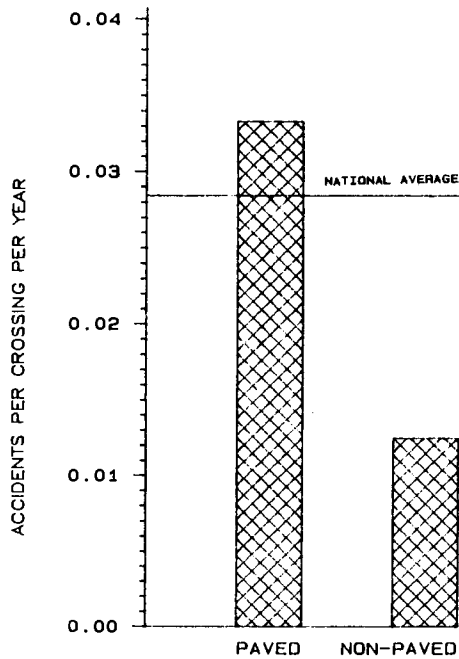


FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

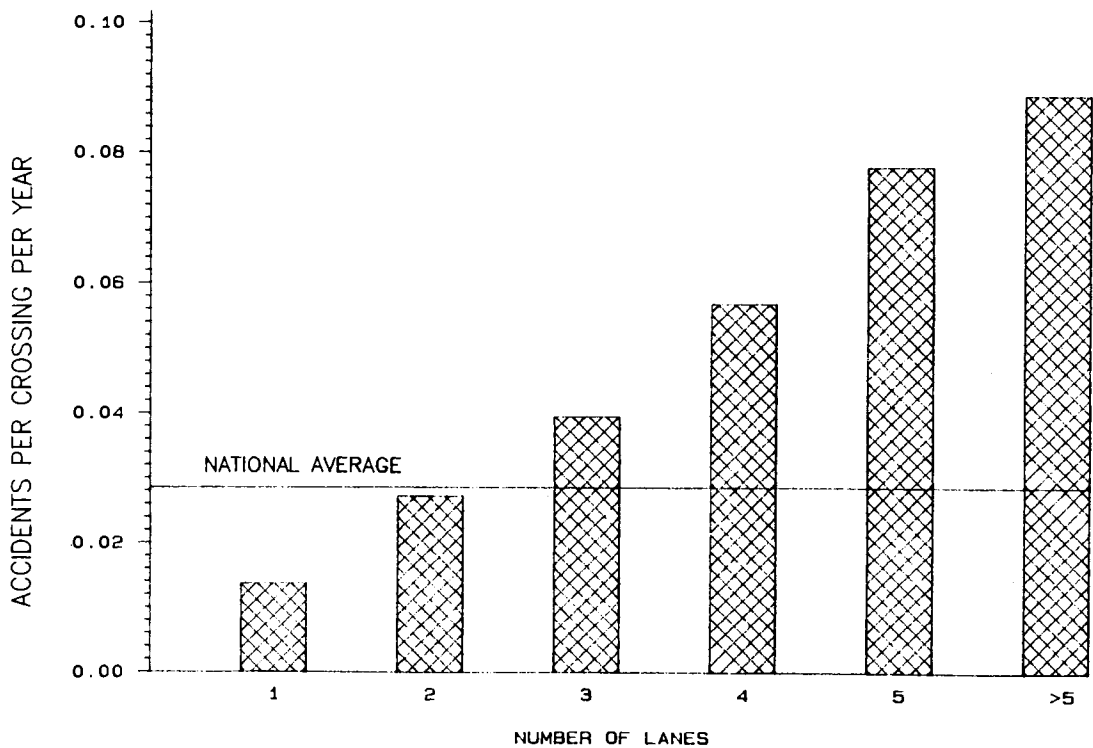


FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

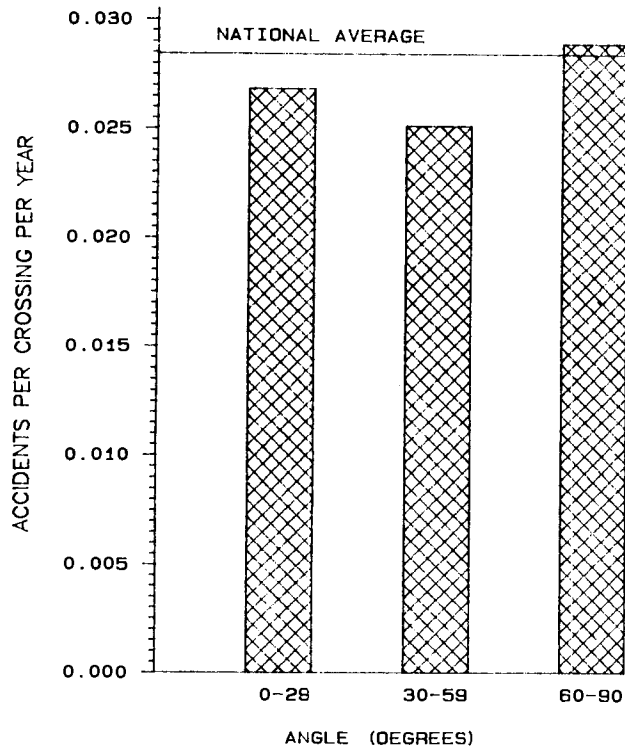


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

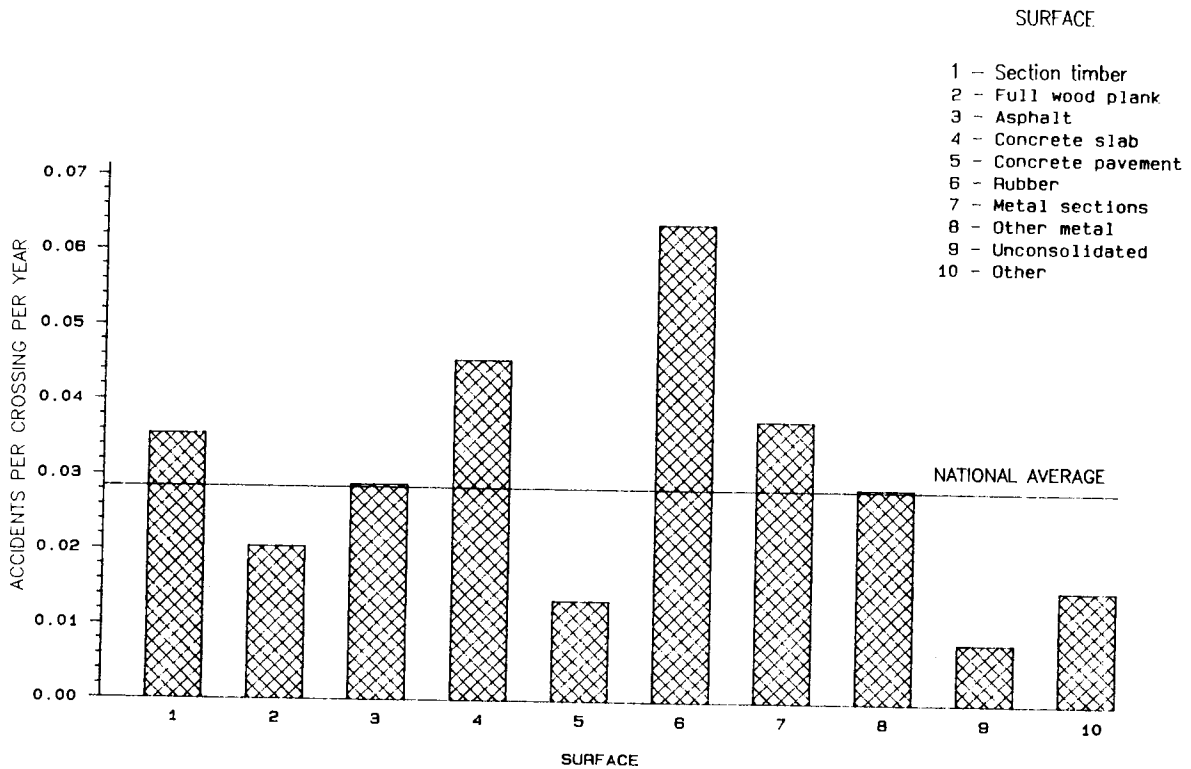


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

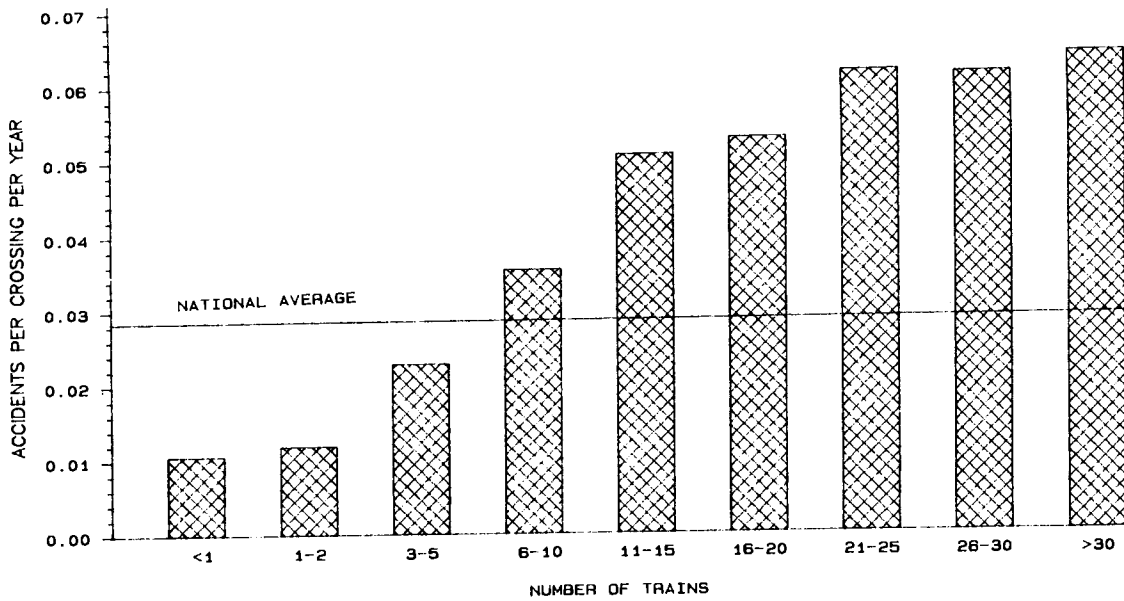


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

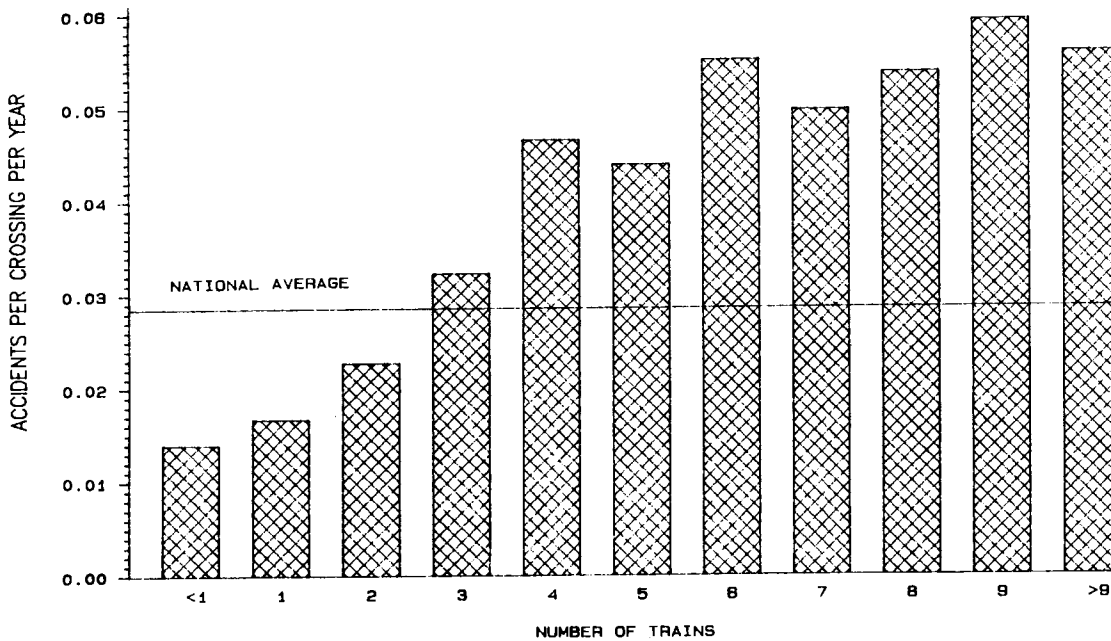


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM TO 6PM)

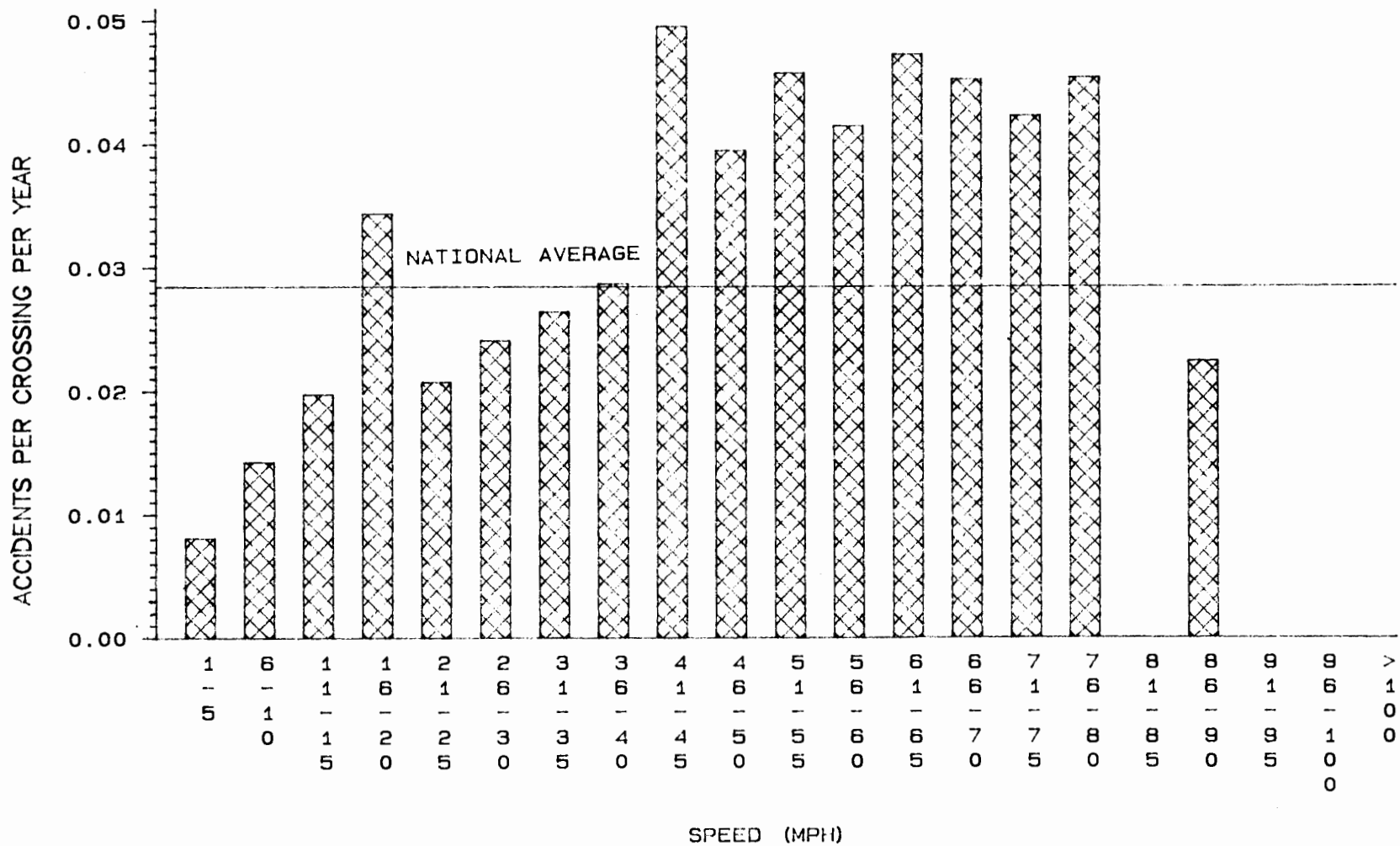


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

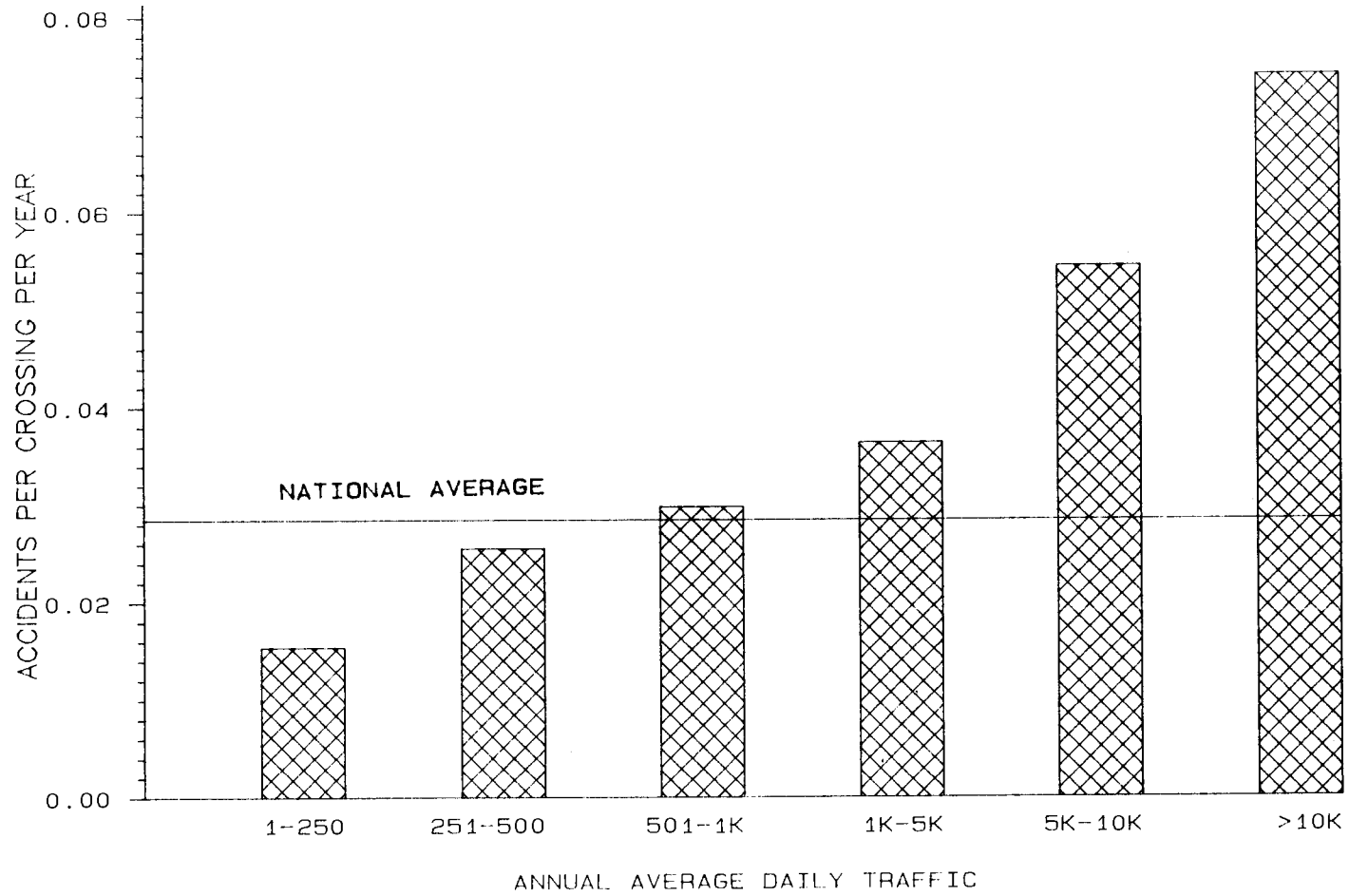


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

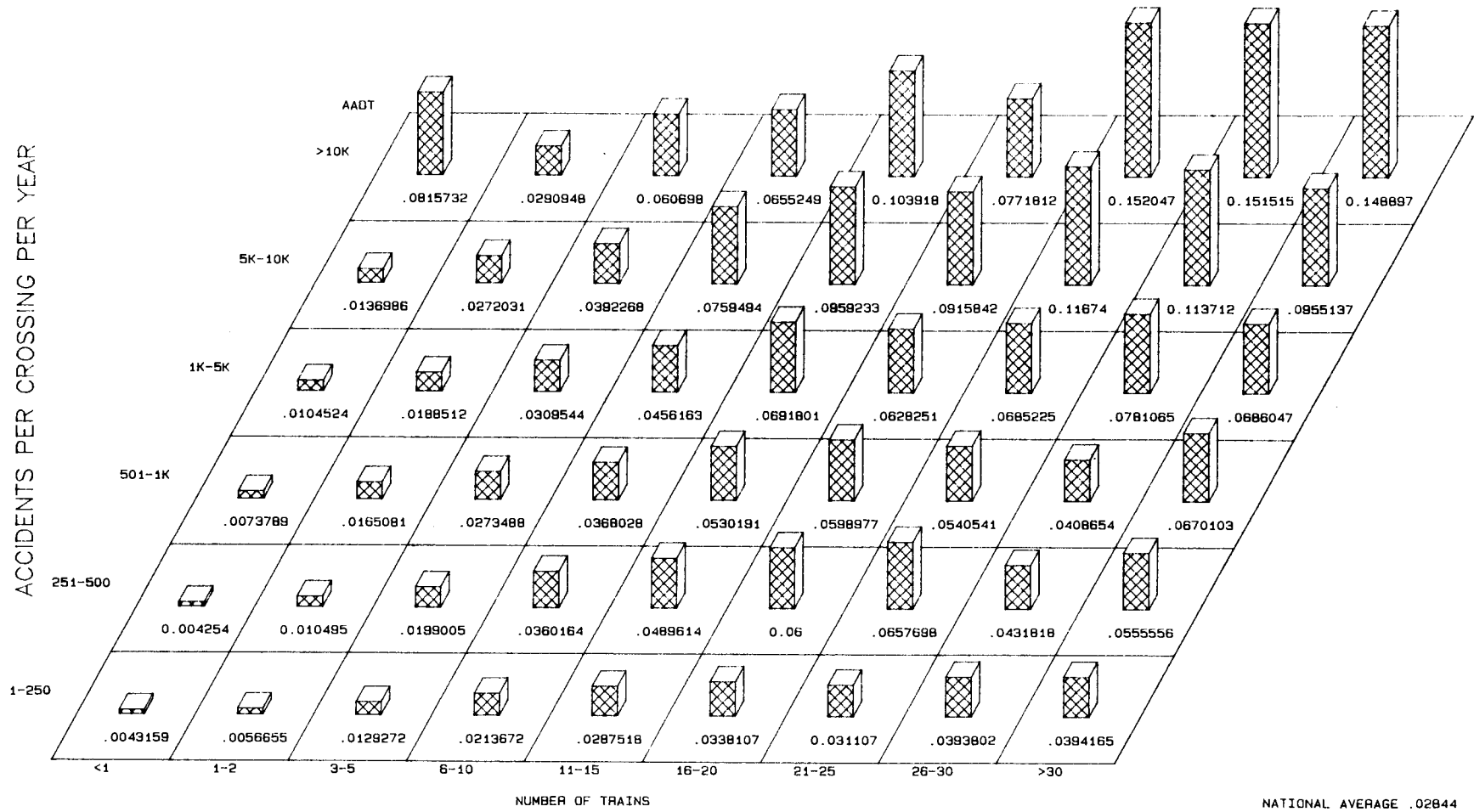


FIGURE 23. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

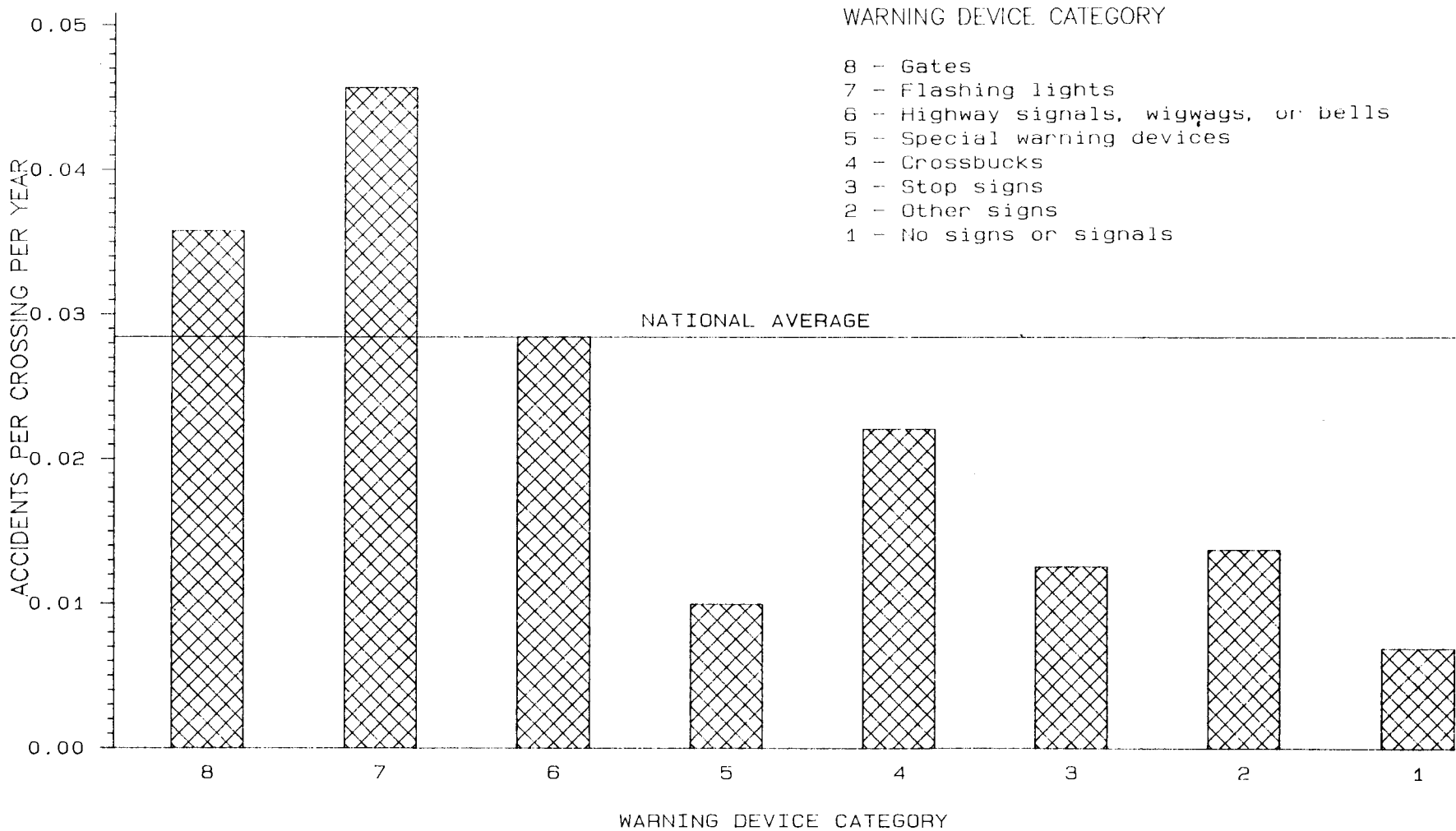


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

4. CURRENT YEAR RAIL-HIGHWAY CROSSING INVENTORY

PHYSICAL CHARACTERISTICS

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

State	Public At Grade	RR Under	RR Over	Private	Pedestrian	Total
Alabama	4,263	484	182	2,249	27	7,205
Alaska	227	11	6	109	12	365
Arizona	976	88	86	820	8	1,978
Arkansas	3,423	181	120	1,660	18	5,402
California	8,293	936	562	5,266	250	15,307
Colorado	2,192	197	115	1,523	14	4,041
Connecticut	503	325	252	420	54	1,554
Delaware	265	47	59	173	4	548
Dist Of Columbia	37	30	38	12	13	130
Florida	4,144	210	75	1,539	67	6,035
Georgia	6,525	561	256	3,004	40	10,386
Hawaii	6	0	0	0	0	6
Idaho	1,712	91	64	1,513	13	3,393
Illinois	10,487	927	1,918	6,152	400	19,884
Indiana	7,428	480	603	3,408	113	12,032
Iowa	6,019	490	351	4,421	61	11,342
Kansas	8,467	355	217	4,476	36	13,551
Kentucky	2,954	442	444	3,250	91	7,181
Louisiana	4,270	228	127	3,696	51	8,372
Maine	928	130	80	963	14	2,115
Maryland	715	319	210	813	29	2,086
Massachusetts	1,197	796	436	589	103	3,121
Michigan	6,191	342	407	2,940	97	9,977
Minnesota	5,708	479	366	3,482	75	10,110
Mississippi	3,052	223	113	2,113	15	5,516
Missouri	5,113	665	422	3,681	105	9,986
Montana	1,545	136	83	2,179	20	3,963
Nebraska	4,210	213	127	2,942	19	7,511
Nevada	271	49	39	256	4	619
New Hampshire	513	118	54	364	13	1,062
New Jersey	1,923	534	728	674	125	3,984
New Mexico	826	68	79	643	4	1,620
New York	3,373	1,359	1,101	3,413	297	9,543
North Carolina	4,942	501	288	3,718	69	9,518
North Dakota	4,918	78	86	2,328	31	7,441
Ohio	7,516	1,172	1,147	4,830	104	14,769
Oklahoma	4,714	261	195	1,817	18	7,005
Oregon	2,594	285	177	3,100	101	6,257
Pennsylvania	5,733	1,568	1,906	3,784	325	13,316
Rhode Island	128	107	38	78	5	356
South Carolina	3,536	390	127	1,562	15	5,630
South Dakota	2,194	88	46	1,429	6	3,763
Tennessee	3,878	490	477	2,187	37	7,069
Texas	13,503	854	793	6,968	49	22,167
Utah	1,029	117	48	809	7	2,010
Vermont	526	81	83	776	52	1,518
Virginia	2,400	604	468	3,513	69	7,054
Washington	3,100	377	318	3,399	108	7,302
West Virginia	2,303	279	359	2,869	107	5,917
Wisconsin	5,231	438	339	3,311	159	9,478
Wyoming	547	113	46	1,044	8	1,758
Puerto Rico	24	0	0	2	0	26
FINAL TOTALS	176,572	19,317	16,661	116,267	3,462	332,279

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

Railroad	Public					Total	
	Grade	RR Under	RR Over	Private	Pedestrian		
AFLR	ALABAMA AND FLORIDA RAILROAD	130	0	3	56	3	192
ARR	ALASKA RAILROAD CORPORATION	223	11	6	109	12	361
ALY	ALLEGHANY RAILROAD	111	10	2	84	4	211
ATK	AMTRAK (NATIONAL RAILROAD PASSENGER CORPORA	166	536	483	98	76	1,359
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	252	7	14	97	0	370
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	10,140	696	649	6,085	85	17,655
ASAB	ATLANTA & SAINT ANDREWS BAY RAILWAY COMPANY	137	6	1	70	1	215
AOLP	ATLANTIC AND GULF RAILROAD	111	4	3	44	0	162
AUHM	AUSTIN AND NORTHWESTERN RAILROAD	168	8	7	111	1	295
BOCT	BALTIMORE & OHIO CHICAGO TERMINAL RAILROAD	125	30	84	39	7	285
BAR	BANGOR AND AROOSTOOK RAILROAD	165	12	23	385	7	592
BLE	BESSEMER & LAKE ERIE RAILROAD COMPANY	140	35	49	99	2	325
BLDL	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	122	0	0	54	1	177
BM	BOSTON AND MAINE CORPORATION	963	450	218	505	55	2,191
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	341	48	56	298	7	750
BN	BURLINGTON NORTHERN RAILROAD COMPANY	19,855	1,529	1,185	13,625	329	56,523
CSP	CANAS PRAIRIE RAILROAD COMPANY	106	3	16	114	4	243
CIC	CEDAR RAPIDS AND IOHA CITY RAILWAY COMPANY	100	16	6	92	4	218
CVAR	CEDAR VALLEY RAILROAD	192	7	3	104	0	306
CMON	CENTRAL MICHIGAN RAILWAY COMPANY	491	29	12	247	9	788
CV	CENTRAL VERMONT RAILWAY, INC.	189	55	47	241	8	540
CJM	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	110	4	4	65	0	183
CMN	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	6,503	581	744	4,539	167	12,534
CMNM	CHICAGO MISSOURI & WESTERN RAILWAY	406	77	70	373	43	969
CSS	CHICAGO SOUTHSORE & SOUTH BEND RAILROAD	126	13	18	28	3	188
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	912	89	79	752	28	1,860
CAOY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	337	4	1	314	3	659
CR	CONSOLIDATED RAIL CORPORATION	14,456	3,350	3,561	8,407	449	30,223
CSX	CSX TRANSPORTATION	21,442	2,641	1,960	14,133	508	40,684
DH	D & H CORPORATION	319	84	93	483	25	1,004
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	882	21	33	618	2	1,556
DROM	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	876	137	67	682	7	1,769
DOD	DEPARTMENT OF DEFENSE	278	3	5	236	5	527
DM	DETROIT AND MICHIGAN RAILWAY COMPANY	41	8	1	209	10	634
DMIR	DULUTH, MISSABE AND IRON RANGE RAILWAY COMP	194	26	33	147	8	408
EJE	ELOIN, JOLIET AND EASTERN RAILWAY COMPANY	202	31	28	104	0	365
ELS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	267	4	2	163	4	440
FCEM	FLORIDA CENTRAL RAILROAD CO.	152	3	5	58	10	228
FEC	FLORIDA EAST COAST RAILWAY COMPANY	703	32	5	80	13	833
FRVR	FOX RIVER VALLEY RAILROAD CORPORATION	442	31	18	217	19	727
GWH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	103	6	7	22	2	140
OSF	GEORGIA SOUTHERN & FLORIDA COMPANY	246	9	1	91	0	245
OSHR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	282	19	3	165	0	469
QNBC	GRAINBELT CORPORATION	255	2	8	93	0	358
GTM	GRAND TRUNK WESTERN RAILROAD COMPANY	1,173	101	178	501	24	1,977
GBM	GREEN BAY AND WESTERN RAILROAD COMPANY	320	10	3	254	0	587
OSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	656	52	29	460	2	1,199
MCRC	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	127	3	2	71	0	203
HBT	HOUSTON BELT & TERMINAL RAILWAY COMPANY	207	25	15	57	5	309
HESR	HURON & EASTERN RAILWAY	0	0	0	143	0	351
IC	ILLINOIS CENTRAL RAILROAD COMPANY	2,937	332	333	1,770	82	5,454
IHRC	INDIANA HI-RAIL CORPORATION	159	5	2	110	2	278
INRD	INDIANA RAIL ROAD COMPANY	274	22	38	162	3	499
IAIS	IOHA INTERSTATE RAILROAD	475	59	43	342	7	926
IANR	IOHA NORTHERN RAILWAY COMPANY	206	5	5	119	0	335
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	1,034	101	77	499	8	1,719
KCT	KANSAS CITY TERMINAL RAILWAY COMPANY	184	47	26	146	3	406
RRR	KIAMICHI RAILROAD COMPANY, INC.	228	4	10	87	0	329
LVRG	LANOILLE VALLEY RAILROAD COMPANY	107	8	2	148	8	274
LI	LONG ISLAND RAIL ROAD	304	294	105	82	88	873
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	727	60	33	568	5	1,393
LDRR	LOUISIANA & DELTA RAILROAD	229	1	0	210	0	440
MDTT	MAINE DEPARTMENT OF TRANSPORTATION	123	16	4	78	1	222
MPA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	109	6	5	21	1	142
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	113	4	0	125	2	244
MNRR	MID-MICHIGAN RAILROAD COMPANY	119	6	0	90	3	216
MSPA	MIDD STATES PORT AUTHORITY	409	19	20	185	1	634
MSRC	MIDSOUTH RAIL CORPORATION	515	72	25	273	2	887
MNMR	MINNESOTA COMMERCIAL RAILWAY	101	0	2	5	0	108
MKT	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY	1,849	170	153	828	7	3,007
MNVA	MNVA RAILROAD, INC. (FORMERLY MINNESOTA VAL	104	2	0	101	1	208
MRL	MONTANA RAIL LINK	460	52	22	694	4	1,232
NERR	NASHVILLE & EASTERN RAILROAD	209	11	11	155	1	387
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	373	197	296	107	63	1,036
NOFP	NEW ORLEANS PUBLIC BELT RAILROAD	11	6	14	2	2	27
NYSW	NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD	247	22	9	234	4	516
NH	NORFOLK AND WESTERN RAILWAY COMPANY	6,330	677	964	4,831	101	12,903
NMP	NORTHWESTERN PACIFIC RAILROAD COMPANY	119	26	4	188	7	344
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	739	36	24	256	1	1,056
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	267	17	8	121	1	414
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	177	12	12	161	1	363
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	278	57	49	224	2	610
PLE	PITTSBURGH & LAKE ERIE RAILROAD COMPANY	109	53	35	114	18	329
PACY	PRAIRIE CENTRAL RAILWAY COMPANY	106	13	0	37	0	158
PARY	PRAIRIE TRUNK RAILWAY	172	1	0	61	1	235
PW	PROVIDENCE AND WORCESTER RAILROAD COMPANY	174	65	46	134	8	427
RRVH	RED RIVER VALLEY & WESTERN RAILROAD	748	4	3	309	0	1,064
SMOR	SEAGRAVES, WHITEFACE AND LUBBOCK RAILROAD C	126	1	2	43	0	172
SOLR	SEMINOLE GULF RAILROAD	159	7	0	31	0	197
S00	S00 LINE RAILROAD COMPANY	5,147	399	414	3,420	108	9,488
SCRF	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	244	7	2	82	3	339
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	321	9	3	284	1	617
SEKR	SOUTHEAST KANSAS RAILROAD	131	0	2	16	0	149
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	262	114	174	75	50	675
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	9,863	985	616	6,744	238	18,446
SSHN	SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORA	230	0	0	0	0	230
SOU	SOUTHERN RAILWAY COMPANY	12,023	1,342	797	7,516	66	21,744
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	138	13	2	53	2	208
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	348	17	8	308	4	856
SSH	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	2,068	114	78	834	2	3,056
SUB	STATE SUBSIDY	35	35	31	149	2	488
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	130	13	13	73	1	230
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	148	49	34	15	1	247
TM	TEXAS MEXICAN RAILWAY COMPANY	239	9	2	195	0	445
TPM	TOLEDO, PEDRIA & WESTERN RAILWAY CORPORATIO	443	11	3	270	6	733
TSBY	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	599	20	7	244	10	880
UP	UNION PACIFIC RAILROAD COMPANY	18,514	1,356	835	12,955	188	33,848
MCRC	WASHINGTON CENTRAL RAILROAD COMPANY	348	17	13	337	0	715
ME	WHEELING & LAKE ERIE RAILWAY COMPANY	540	58	50	410	3	1,061
HTRY	WILMINGTON TERMINAL RAILROAD INC.	287	10	2	120	2	421
WH	WINCHESTER AND WESTERN RAILROAD COMPANY	114	7	3	69	0	193
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	131	6	6	158	3	304
WSOR	WISCONSIN AND SOUTHERN RAILWAY COMPANY	104	0	0	6	1	111
WICT	WISCONSIN CALUMET RAILROAD	413	29	14	357	12	825
WC	WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	1,911	86	74	1,139	34	3,241
	All Other Railroads	13,604	1,197	1,218	10,603	344	26,966
FINAL TOTALS		176,572	19,317	16,661	116,267	3,462	332,279

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

State	Urban	Rural	Total
Alabama.....	2,000	2,263	4,263
Alaska.....	88	139	227
Arizona.....	496	480	976
Arkansas.....	1,312	2,111	3,423
California.....	6,055	2,238	8,293
Colorado.....	757	1,435	2,192
Connecticut.....	397	106	503
Delaware.....	79	186	265
Dist of Columbia.	37	---	37
Florida.....	2,454	1,690	4,144
Georgia.....	2,342	4,183	6,525
Hawaii.....	---	6	6
Idaho.....	297	1,415	1,712
Illinois.....	4,034	6,453	10,487
Indiana.....	3,250	4,178	7,428
Iowa.....	1,820	4,199	6,019
Kansas.....	1,537	6,930	8,467
Kentucky.....	826	2,128	2,954
Louisiana.....	1,975	2,295	4,270
Maine.....	243	685	928
Maryland.....	546	169	715
Massachusetts....	846	351	1,197
Michigan.....	2,558	3,633	6,191
Minnesota.....	1,598	4,110	5,708
Mississippi.....	1,153	1,899	3,052
Missouri.....	1,713	3,400	5,113
Montana.....	286	1,259	1,545
Nebraska.....	613	3,597	4,210
Nevada.....	67	204	271
New Hampshire....	231	282	513
New Jersey.....	1,372	551	1,923
New Mexico.....	247	579	826
New York.....	1,562	1,811	3,373
North Carolina...	2,055	2,887	4,942
North Dakota.....	282	4,636	4,918
Ohio.....	3,662	3,854	7,516
Oklahoma.....	326	4,388	4,714
Oregon.....	1,171	1,423	2,594
Pennsylvania.....	2,984	2,749	5,733
Rhode Island.....	123	5	128
South Carolina...	1,289	2,247	3,536
South Dakota.....	261	1,933	2,194
Tennessee.....	1,629	2,249	3,878
Texas.....	7,193	6,310	13,503
Utah.....	564	465	1,029
Vermont.....	168	358	526
Virginia.....	1,103	1,297	2,400
Washington.....	1,414	1,686	3,100
West Virginia....	487	1,816	2,303
Wisconsin.....	2,108	3,123	5,231
Wyoming.....	70	477	547
Puerto Rico.....	---	24	24
Unknown.....	---	---	---
Total.....	69,680	106,892	176,572

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.

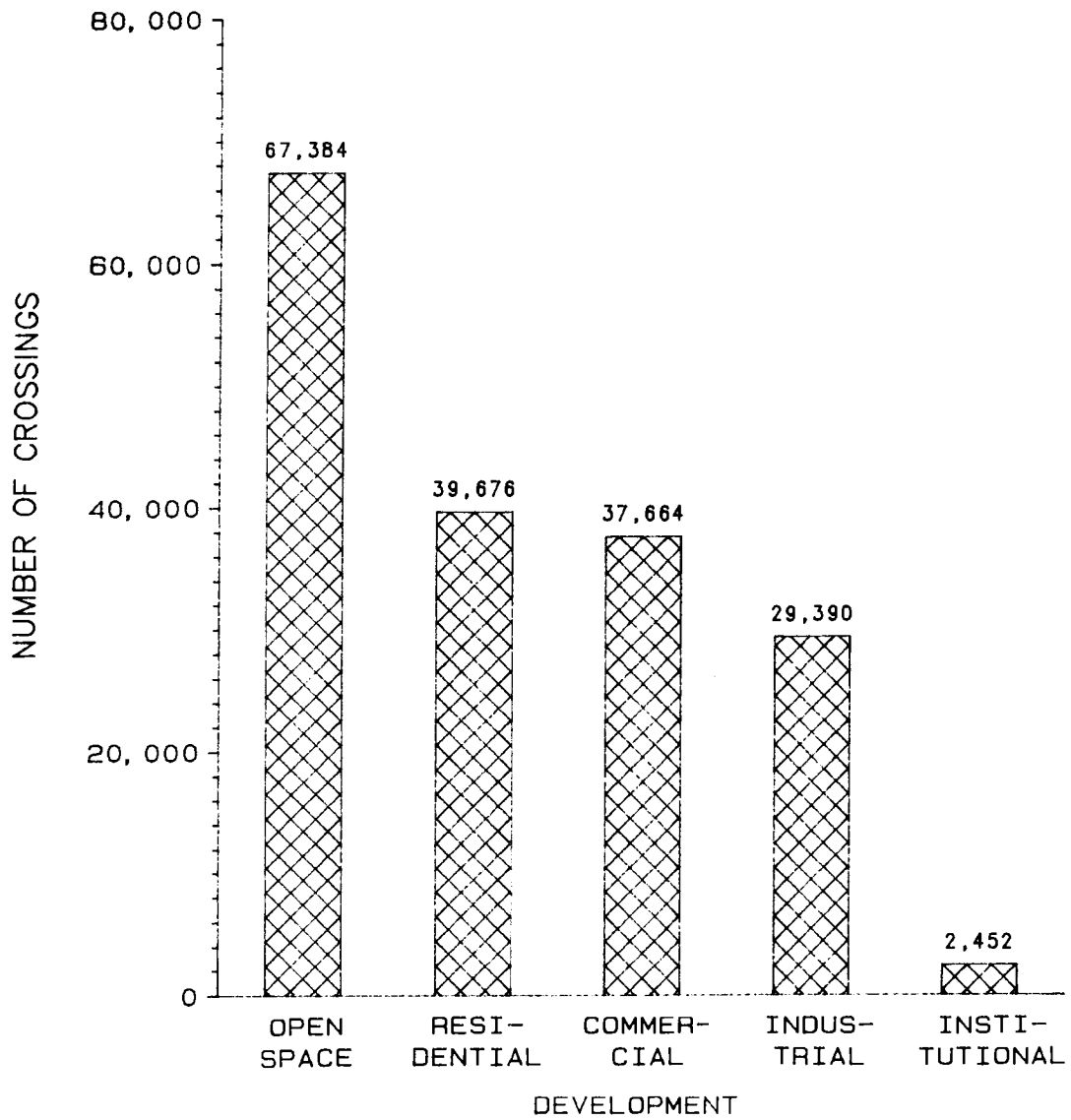


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

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	22	103,932	9,338	317	85	6	7	113,707
1	18,878	22,555	2,681	113	19	---	1	44,247
2	4,278	7,165	1,113	72	18	2	1	12,649
3	1,227	2,114	373	32	13	1	---	3,760
4	335	696	161	12	8	3	1	1,216
5	142	281	73	7	2	1	1	507
>5	134	271	73	2	3	1	2	486
Total	25,016	137,014	13,812	555	148	14	13	176,572

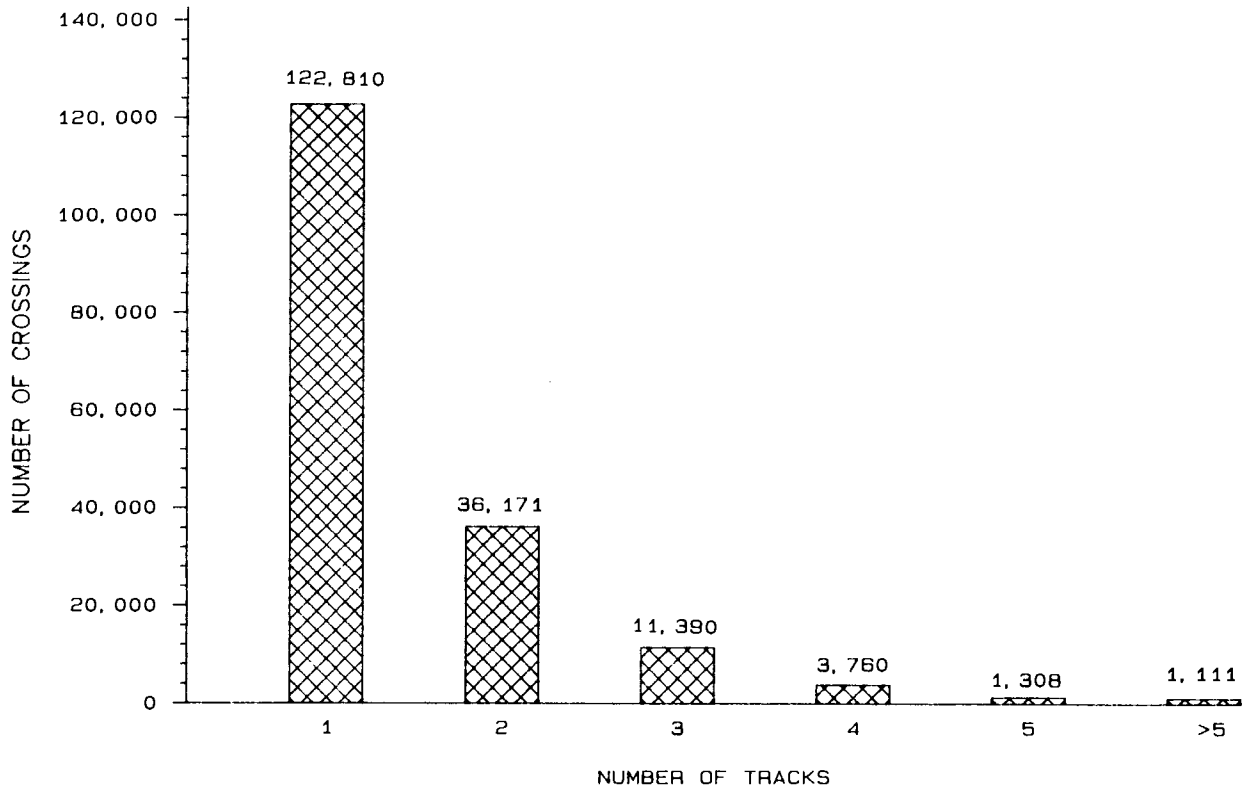


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

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.....	11,049	9,247	3,608	1,354	499	437	26,194
Flashing lights.....	21,540	5,945	2,024	688	248	211	30,656
Hwy. signals, wigwags, bells	1,152	481	165	61	26	15	1,900
Special warning devices.....	3,861	1,070	344	127	56	54	5,512
Crossbucks.....	77,537	17,642	4,746	1,379	416	351	102,071
Stop signs.....	634	171	46	12	5	7	875
Other signs.....	408	117	30	18	1	8	582
No signs or signals.....	6,629	1,498	427	121	57	50	8,782
Total.....	122,810	36,171	11,390	3,760	1,308	1,133	176,572

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

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	21,816	4,408	802	195	46	56	27,323
2	93,424	29,068	9,632	3,226	1,132	960	137,442
3	731	325	103	35	10	13	1,217
4	5,984	2,133	777	287	112	98	9,391
5	372	109	34	8	4	1	528
>5	483	128	42	9	4	5	671
Total	122,810	36,171	11,390	3,760	1,308	1,133	176,572

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,113	732	284	75	27	32	4,263
Alaska.....	186	34	6	1	---	---	227
Arizona.....	705	180	64	16	7	4	976
Arkansas.....	2,366	712	234	64	29	18	3,423
California.....	5,700	1,629	585	198	94	87	8,293
Colorado.....	1,585	429	116	36	13	13	2,192
Connecticut.....	374	95	22	8	4	---	503
Delaware.....	215	34	10	3	2	1	265
Dist of Columbia.	28	7	2	---	---	---	37
Florida.....	2,362	1,136	409	119	64	54	4,144
Georgia.....	4,760	1,223	350	124	31	37	6,525
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,183	330	120	46	15	18	1,712
Illinois.....	6,250	2,848	893	308	104	84	10,487
Indiana.....	5,202	1,669	377	115	37	28	7,428
Iowa.....	4,152	1,178	454	147	44	44	6,019
Kansas.....	6,179	1,405	563	201	61	58	8,467
Kentucky.....	1,939	737	188	61	14	15	2,954
Louisiana.....	3,076	812	250	79	27	26	4,270
Maine.....	747	135	31	10	4	1	928
Maryland.....	538	136	22	12	3	4	715
Massachusetts....	943	190	41	15	4	4	1,197
Michigan.....	4,282	1,346	336	135	45	47	6,191
Minnesota.....	4,093	1,048	375	114	40	38	5,708
Mississippi.....	2,056	637	216	88	27	28	3,052
Missouri.....	3,378	1,111	415	124	42	43	5,113
Montana.....	1,101	294	100	26	11	13	1,545
Nebraska.....	2,749	953	316	112	46	34	4,210
Nevada.....	179	63	17	4	3	5	271
New Hampshire....	436	67	7	2	1	---	513
New Jersey.....	1,383	405	99	18	10	8	1,923
New Mexico.....	578	172	47	18	4	7	826
New York.....	2,339	788	165	50	16	15	3,373
North Carolina...	3,572	914	284	109	33	30	4,942
North Dakota.....	3,997	656	208	38	16	3	4,918
Ohio.....	4,067	2,296	710	292	89	62	7,516
Oklahoma.....	3,513	723	297	106	38	37	4,714
Oregon.....	1,909	475	165	31	12	2	2,594
Pennsylvania.....	3,743	1,389	370	148	44	39	5,733
Rhode Island.....	86	36	6	---	---	---	128
South Carolina...	2,638	674	161	33	18	12	3,536
South Dakota.....	1,756	275	110	38	8	7	2,194
Tennessee.....	2,605	853	273	87	31	29	3,878
Texas.....	9,976	2,359	738	259	88	83	13,503
Utah.....	705	206	74	18	19	7	1,029
Vermont.....	426	76	17	3	---	4	526
Virginia.....	1,551	584	175	62	18	10	2,400
Washington.....	2,206	580	210	65	22	17	3,100
West Virginia....	1,640	471	150	26	6	10	2,303
Wisconsin.....	3,850	945	289	99	33	15	5,231
Wyoming.....	368	119	39	17	4	---	547
Puerto Rico.....	19	5	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	122,810	36,171	11,390	3,760	1,308	1,133	176,572

HIGHWAY SYSTEM DATA

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

State	01	02	03	04	08	Total
Alabama.....	---	202	420	320	3,321	4,263
Alaska.....	7	10	15	21	174	227
Arizona.....	12	30	185	75	674	976
Arkansas.....	2	138	1,024	167	2,092	3,423
California.....	---	970	1,050	610	5,663	8,293
Colorado.....	---	86	386	103	1,617	2,192
Connecticut.....	---	30	186	20	267	503
Delaware.....	---	34	12	114	105	265
Dist of Columbia.....	---	4	---	2	31	37
Florida.....	1	289	768	121	2,965	4,144
Georgia.....	---	417	167	789	5,152	6,525
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	41	101	134	1,436	1,712
Illinois.....	1	634	1,424	787	7,641	10,487
Indiana.....	---	267	461	1,295	5,405	7,428
Iowa.....	3	344	780	546	4,346	6,019
Kansas.....	---	330	438	1,119	6,580	8,467
Kentucky.....	2	87	260	259	2,346	2,954
Louisiana.....	5	161	447	322	3,335	4,270
Maine.....	---	77	22	106	723	928
Maryland.....	---	15	25	13	662	715
Massachusetts.....	---	116	315	122	644	1,197
Michigan.....	4	273	729	938	4,247	6,191
Minnesota.....	1	211	122	904	4,470	5,708
Mississippi.....	---	138	425	312	2,177	3,052
Missouri.....	3	101	251	608	4,150	5,113
Montana.....	---	58	70	108	1,309	1,545
Nebraska.....	---	210	269	477	3,254	4,210
Nevada.....	---	15	12	23	221	271
New Hampshire.....	---	8	155	43	307	513
New Jersey.....	---	68	197	160	1,498	1,923
New Mexico.....	---	22	61	57	686	826
New York.....	---	201	25	575	2,572	3,373
North Carolina.....	---	113	210	367	4,252	4,942
North Dakota.....	4	190	104	497	4,123	4,918
Ohio.....	---	305	1,056	675	5,480	7,516
Oklahoma.....	---	151	307	388	3,868	4,714
Oregon.....	---	141	305	276	1,872	2,594
Pennsylvania.....	132	572	1,045	810	3,174	5,733
Rhode Island.....	---	6	44	14	64	128
South Carolina.....	1	233	222	411	2,669	3,536
South Dakota.....	---	99	90	264	1,741	2,194
Tennessee.....	---	170	31	345	3,332	3,878
Texas.....	84	364	1,444	856	10,755	13,503
Utah.....	1	14	5	135	874	1,029
Vermont.....	---	50	30	64	382	526
Virginia.....	---	101	324	377	1,598	2,400
Washington.....	---	106	175	429	2,390	3,100
West Virginia.....	---	146	49	398	1,710	2,303
Wisconsin.....	---	342	817	445	3,627	5,231
Wyoming.....	---	30	33	44	440	547
Puerto Rico.....	---	6	---	2	16	24
Unknown.....	---	---	---	---	---	---
Total.....	263	8,726	17,093	18,047	132,443	176,572

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			
State	On-State	Off-State	Total
Alabama.....	293	3,970	4,263
Alaska.....	81	146	227
Arizona.....	52	924	976
Arkansas.....	571	2,852	3,423
California.....	339	7,954	8,293
Colorado.....	247	1,945	2,192
Connecticut.....	90	413	503
Delaware.....	254	11	265
Dist of Columbia.	36	1	37
Florida.....	467	3,677	4,144
Georgia.....	773	5,752	6,525
Hawaii.....	---	6	6
Idaho.....	116	1,596	1,712
Illinois.....	1,319	9,168	10,487
Indiana.....	677	6,751	7,428
Iowa.....	351	5,668	6,019
Kansas.....	451	8,016	8,467
Kentucky.....	829	2,125	2,954
Louisiana.....	936	3,334	4,270
Maine.....	181	747	928
Maryland.....	118	597	715
Massachusetts....	45	1,152	1,197
Michigan.....	370	5,821	6,191
Minnesota.....	318	5,390	5,708
Mississippi.....	308	2,744	3,052
Missouri.....	747	4,366	5,113
Montana.....	235	1,310	1,545
Nebraska.....	324	3,886	4,210
Nevada.....	57	214	271
New Hampshire....	116	397	513
New Jersey.....	195	1,728	1,923
New Mexico.....	180	646	826
New York.....	348	3,025	3,373
North Carolina...	3,152	1,790	4,942
North Dakota.....	234	4,684	4,918
Ohio.....	1,004	6,512	7,516
Oklahoma.....	361	4,353	4,714
Oregon.....	144	2,450	2,594
Pennsylvania.....	1,843	3,890	5,733
Rhode Island.....	46	82	128
South Carolina...	2,501	1,035	3,536
South Dakota.....	150	2,044	2,194
Tennessee.....	276	3,602	3,878
Texas.....	2,173	11,330	13,503
Utah.....	109	920	1,029
Vermont.....	130	396	526
Virginia.....	1,492	908	2,400
Washington.....	171	2,929	3,100
West Virginia....	1,404	899	2,303
Wisconsin.....	417	4,814	5,231
Wyoming.....	84	463	547
Puerto Rico.....	19	5	24
Unknown.....	---	---	---
Total.....	27,134	149,438	176,572

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

Rural	Crossings	Urban	Crossings
Interstate.....	33	Interstate.....	155
Other principal arterial	1,304	Other freeway/expressway	417
Minor arterial.....	3,885	Other principal arterial	6,771
Major collector.....	12,636	Minor arterial.....	11,752
Minor collector.....	10,376	Collector.....	11,771
Local.....	78,658	Local.....	38,814
Total.....	106,892	Total.....	69,680

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

State	NUMBER OF LANES (BOTH DIRECTIONS)						Total
	1	2	3	4	5	>5	
Alabama.....	841	3,168	24	211	8	11	4,263
Alaska.....	12	197	2	14	2	---	227
Arizona.....	18	816	15	89	22	16	976
Arkansas.....	756	2,582	15	65	4	1	3,423
California.....	434	5,749	182	1,568	150	210	8,293
Colorado.....	178	1,829	22	144	13	6	2,192
Connecticut.....	28	442	8	22	3	---	503
Delaware.....	2	239	5	18	---	1	265
Dist of Columbia.....	1	30	1	2	1	2	37
Florida.....	165	3,423	79	372	32	73	4,144
Georgia.....	1,253	5,011	30	214	10	7	6,525
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	442	1,206	9	51	2	2	1,712
Illinois.....	2,103	7,640	52	654	15	23	10,487
Indiana.....	1,326	5,698	54	322	11	17	7,428
Iowa.....	723	5,032	43	212	5	4	6,019
Kansas.....	2,056	6,102	10	295	2	2	8,467
Kentucky.....	961	1,933	8	52	---	---	2,954
Louisiana.....	641	3,359	21	221	12	16	4,270
Maine.....	47	865	3	13	---	---	928
Maryland.....	78	574	8	46	3	6	715
Massachusetts.....	43	1,089	8	56	1	---	1,197
Michigan.....	420	5,128	60	507	36	40	6,191
Minnesota.....	878	4,544	16	265	3	2	5,708
Mississippi.....	383	2,555	9	99	2	4	3,052
Missouri.....	1,218	3,745	13	128	6	3	5,113
Montana.....	11	1,505	1	25	2	1	1,545
Nebraska.....	898	3,231	8	71	---	2	4,210
Nevada.....	89	158	1	22	---	1	271
New Hampshire.....	32	459	2	17	2	1	513
New Jersey.....	103	1,673	13	128	---	6	1,923
New Mexico.....	270	514	1	35	3	3	826
New York.....	313	2,915	23	116	3	3	3,373
North Carolina.....	280	4,410	38	193	12	9	4,942
North Dakota.....	1,097	3,794	---	27	---	---	4,918
Ohio.....	978	6,183	53	284	7	11	7,516
Oklahoma.....	895	3,543	6	263	4	3	4,714
Oregon.....	323	2,109	51	84	24	3	2,594
Pennsylvania.....	879	4,524	119	182	2	27	5,733
Rhode Island.....	2	102	---	24	---	---	128
South Carolina.....	426	2,879	8	210	6	7	3,536
South Dakota.....	657	1,490	---	40	4	3	2,194
Tennessee.....	678	2,952	21	204	15	8	3,878
Texas.....	2,317	9,811	73	1,142	58	102	13,503
Utah.....	193	771	---	60	1	4	1,029
Vermont.....	117	397	5	7	---	---	526
Virginia.....	30	2,234	21	95	10	10	2,400
Washington.....	275	2,500	54	233	30	8	3,100
West Virginia.....	1,138	1,144	9	11	---	1	2,303
Wisconsin.....	204	4,755	11	248	1	12	5,231
Wyoming.....	110	404	2	30	1	---	547
Puerto Rico.....	1	23	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	27,323	137,442	1,217	9,391	528	671	176,572

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.....	605	21,330	414	3,276	267	302	26,194
Flashing lights.....	752	25,807	354	3,343	184	216	30,656
Hwy. signals, wigwags, bells	148	1,452	46	208	14	32	1,900
Special warning devices.....	371	4,520	106	472	17	26	5,512
Crossbucks.....	23,024	77,020	231	1,684	35	77	102,071
Stop signs.....	164	680	4	25	---	2	875
Other signs.....	138	420	2	20	---	2	582
No signs or signals.....	2,121	6,213	60	363	11	14	8,782
Total.....	27,323	137,442	1,217	9,391	528	671	176,572

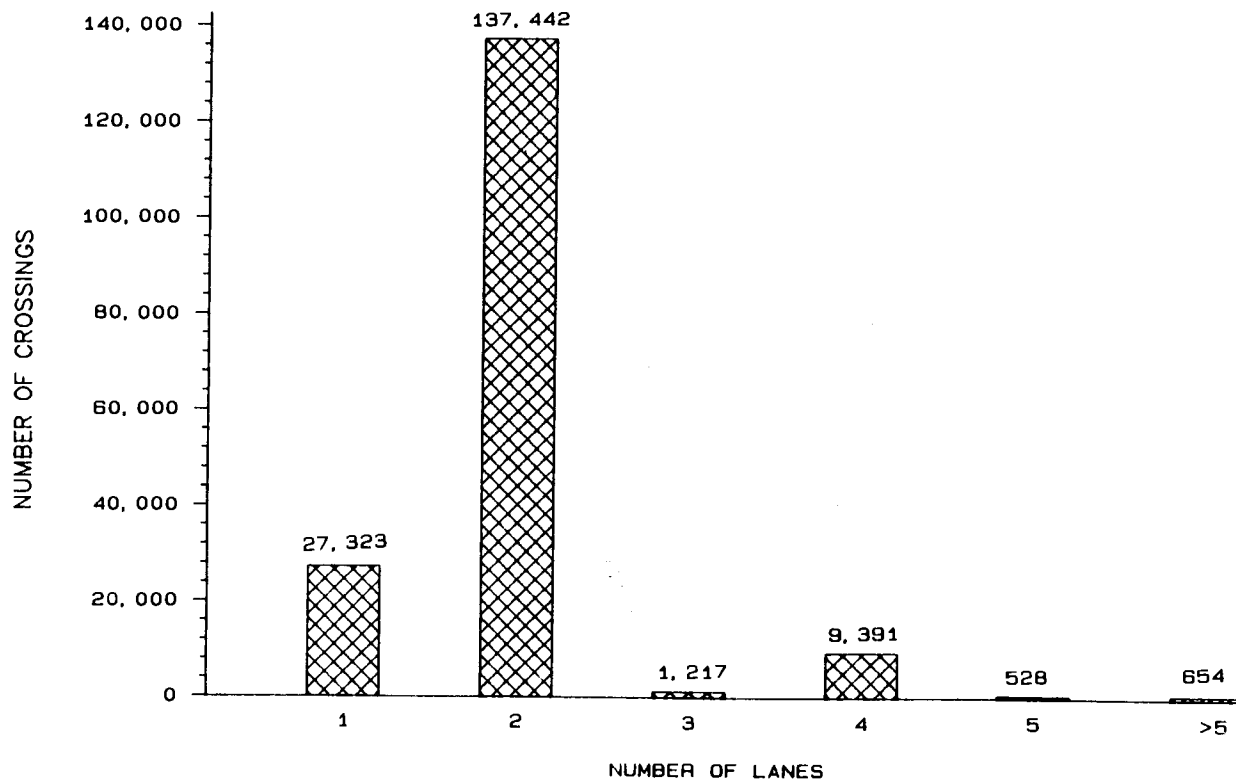


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

WARNING DEVICE DATA

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy. Sig. Highways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	
Alabama.....	237	626	22	55	2,857	63	9	394	4,263
Alaska.....	16	61	---	7	130	4	---	9	227
Arizona.....	292	82	10	70	491	3	---	28	976
Arkansas.....	276	466	23	77	2,434	5	---	142	3,423
California.....	3,104	1,098	334	175	3,341	49	18	174	8,293
Colorado.....	283	302	39	37	1,419	7	3	102	2,192
Connecticut.....	73	166	7	85	61	8	---	101	503
Delaware.....	35	141	2	22	59	---	2	6	265
Dist of Columbia.....	---	4	---	4	20	5	---	3	37
Florida.....	1,997	700	24	106	1,221	20	6	70	4,144
Georgia.....	1,385	416	16	165	4,166	8	7	362	6,525
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	86	198	8	6	1,199	74	5	136	1,712
Illinois.....	1,978	2,636	146	252	5,046	1	4	424	10,487
Indiana.....	1,086	1,828	113	208	3,963	18	10	202	7,428
Iowa.....	561	1,029	56	76	4,108	6	3	180	6,019
Kansas.....	640	750	77	206	6,598	1	2	193	8,467
Kentucky.....	347	853	13	69	1,469	4	---	199	2,954
Louisiana.....	294	786	17	52	2,664	28	25	404	4,270
Maine.....	70	384	1	101	370	7	---	1	928
Maryland.....	94	205	22	33	307	1	7	40	715
Massachusetts.....	192	459	33	222	235	2	3	51	1,197
Michigan.....	749	1,550	46	158	3,589	8	3	88	6,191
Minnesota.....	525	695	14	32	4,253	36	2	151	5,708
Mississippi.....	106	427	15	54	1,936	217	12	285	3,052
Missouri.....	428	1,051	83	98	3,174	13	1	265	5,113
Montana.....	155	187	3	13	1,119	7	3	58	1,545
Nebraska.....	600	314	6	16	3,077	14	---	183	4,210
Nevada.....	97	23	1	4	138	1	1	6	271
New Hampshire.....	31	143	11	115	181	7	7	18	513
New Jersey.....	398	656	25	285	442	---	2	115	1,923
New Mexico.....	155	101	6	9	529	---	5	21	826
New York.....	1,307	688	76	266	925	3	21	87	3,373
North Carolina.....	848	752	11	224	2,637	18	18	434	4,942
North Dakota.....	316	135	1	2	4,246	3	---	215	4,918
Ohio.....	1,169	1,707	55	95	4,228	10	7	245	7,516
Oklahoma.....	346	751	30	116	3,350	4	8	109	4,714
Oregon.....	537	151	57	106	1,422	65	63	193	2,594
Pennsylvania.....	717	1,265	119	672	2,113	74	291	482	5,733
Rhode Island.....	15	33	19	23	11	5	---	22	128
South Carolina.....	424	558	3	250	2,209	1	1	90	3,536
South Dakota.....	12	169	3	---	1,927	1	1	81	2,194
Tennessee.....	253	654	17	260	1,921	26	2	745	3,878
Texas.....	2,060	2,201	79	113	8,264	24	14	748	13,503
Utah.....	135	178	7	88	533	4	5	79	1,029
Vermont.....	28	207	4	39	247	---	---	1	526
Virginia.....	626	506	19	186	903	1	3	156	2,400
Washington.....	378	436	31	52	1,898	8	3	294	3,100
West Virginia.....	187	458	7	37	1,308	8	4	294	2,303
Wisconsin.....	436	1,340	184	151	3,048	1	---	71	5,231
Wyoming.....	106	129	4	2	279	2	---	25	547
Puerto Rico.....	4	1	1	18	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	26,194	30,656	1,900	5,512	102,071	875	582	8,782	176,572

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

Railroad	Dates	WARNING DEVICE CATEGORY						No Signs Or Signals	Total	
		Fashing Lights	Hwy. Sig. Bells	Special	Cross-Bucks	Stop Signs	Other Signs			
AFLR	ALABAMA AND FLORIDA RAILROAD	1	9	0	0	112	0	0	8	130
ARR	ALASKA RAILROAD CORPORATION	16	61	0	7	127	4	0	8	223
ALY	ALLEGHANY RAILROAD	8	30	1	0	51	9	8	4	111
ATK	AMTRAK (NATIONAL RAILROAD PASSENGER CORPORA	119	11	4	3	22	0	0	2	166
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	4	34	4	5	197	0	0	10	252
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	2,014	1,281	152	453	6,188	7	10	35	10,140
ASAB	ATLANTA & SAINT ANDREWS BAY RAILWAY COMPANY	21	34	0	0	76	2	3	1	137
AGLF	ATLANTIC AND GULF RAILROAD	19	5	0	0	87	0	0	0	111
AUNW	AUSTIN AND NORTHWESTERN RAILROAD	28	26	1	0	99	1	0	13	168
BOCT	BALTIMORE & OHIO CHICAGO TERMINAL RAILROAD	41	43	1	18	18	0	0	4	125
BAR	BANGOR AND AROOSTOOK RAILROAD	4	89	0	8	64	0	0	0	165
BLE	BESSEMER & LAKE ERIE RAILROAD COMPANY	36	29	0	2	71	0	0	2	140
BL0L	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	0	13	0	0	108	0	0	1	122
BM	BOSTON AND MAINE CORPORATION	200	223	22	190	273	1	4	50	963
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	38	80	4	12	199	1	1	6	341
BN	BURLINGTON NORTHERN RAILROAD COMPANY	2,515	2,485	97	225	13,781	96	33	623	19,855
CSP	CAMAS PRAIRIE RAILROAD COMPANY	6	6	0	0	89	0	0	5	106
CIC	CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	1	28	0	14	50	0	0	7	100
CVAR	CEDAR VALLEY RAILROAD	1	24	0	17	149	0	0	0	192
CMGN	CENTRAL MICHIGAN RAILWAY COMPANY	16	170	5	29	265	0	0	6	491
CV	CENTRAL VERMONT RAILWAY, INC.	21	103	1	0	60	1	1	2	189
CIM	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	6	43	1	1	59	0	0	0	110
CNW	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	689	1,218	170	69	4,124	5	2	226	6,503
CMNW	CHICAGO MISSOURI & WESTERN RAILWAY	11	94	34	0	257	0	0	10	406
CSS	CHICAGO SOUTHSHORE & SOUTH BEND RAILROAD	35	44	7	0	38	1	0	1	126
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	64	259	15	31	509	2	0	32	912
CAGY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	3	51	0	5	257	14	0	7	337
CR	CONSOLIDATED RAIL CORPORATION	2,767	3,831	211	1,173	5,174	71	273	956	14,456
CSX	CSX TRANSPORTATION	3,936	4,377	106	674	11,076	78	24	1,171	21,442
DH	D & H CORPORATION	144	86	3	3	75	1	5	2	319
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	6	114	4	0	725	2	0	31	882
DRGW	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	105	175	2	8	533	3	3	47	876
DOD	DEPARTMENT OF DE-NENSE	27	56	1	51	117	1	15	10	278
DM	DETROIT AND MACKINAC RAILWAY COMPANY	0	62	3	0	361	0	0	0	406
DMIR	DULUTH, MISSABE AND IRON RANGE RAILWAY COMP	38	38	0	2	147	1	1	0	194
EJF	ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	78	65	2	10	67	0	0	0	202
ELS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	3	64	1	45	151	0	1	2	267
FCEN	FLORIDA CENTRAL RAILROAD CO.	42	18	0	1	90	0	0	1	152
FEC	FLORIDA EAST COAST RAILWAY COMPANY	599	30	0	27	40	0	0	7	703
FRVR	FOX RIVER VALLEY RAILROAD CORPORATION	24	152	31	20	207	0	0	8	442
GHH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	29	25	0	0	25	1	0	23	103
GSF	GEORGIA SOUTHERN & FLORIDA COMPANY	30	37	0	6	70	1	0	0	144
GSHR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	29	16	4	0	222	0	0	11	282
GNBC	GRAINBELT CORPORATION	0	20	0	0	233	0	0	2	255
GTW	GRAND TRUNK WESTERN RAILROAD COMPANY	371	273	3	47	475	1	0	3	1,173
GBW	GREEN BAY AND WESTERN RAILROAD COMPANY	8	39	0	0	221	0	0	1	320
GSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	1	90	0	1	533	31	2	49	656
HCR	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	0	24	0	0	101	0	0	0	127
HBT	HOUSTON BELT & TERMINAL RAILWAY COMPANY	64	34	2	0	83	0	0	24	207
HESR	HURON & EASTERN RAILWAY	1	18	0	0	186	0	0	3	208
IC	ILLINOIS CENTRAL RAILROAD COMPANY	314	582	18	71	1,635	84	4	229	2,937
IHRC	INDIANA HI-RAIL CORPORATION	5	31	12	0	104	1	0	6	159
INRD	INDIANA RAIL ROAD COMPANY	0	59	18	0	188	0	0	9	274
IAIS	IOWA INTERSTATE RAILROAD	100	79	9	0	286	0	0	1	475
IANR	IOWA NORTHERN RAILWAY COMPANY	6	47	0	0	146	0	0	7	206
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	65	181	3	0	703	0	6	76	1,034
KCT	KANSAS CITY TERMINAL RAILWAY COMPANY	2	28	2	0	141	0	1	10	184
KRR	KIAMICHI RAILROAD COMPANY, INC.	1	21	0	3	199	0	0	4	228
LVRC	LAMOLLE VALLEY RAILROAD COMPANY	1	31	0	0	75	0	0	0	107
LI	LONG ISLAND RAIL ROAD	298	0	0	0	0	0	0	1	304
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	35	173	0	0	488	0	0	31	727
LDRR	LOUISIANA & DELTA RAILROAD	22	11	1	0	164	2	0	29	229
MDTT	MAINE DEPARTMENT OF TRANSPORTATION	0	52	0	13	57	1	0	0	123
MPA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	18	17	0	0	59	8	5	2	109
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	4	8	0	3	95	0	0	3	113
MMRR	MID-MICHIGAN RAILROAD COMPANY	3	23	4	1	86	0	0	2	119
MSPA	MIDD STATES PORT AUTHORITY	14	31	1	0	356	0	0	7	409
MSRC	MIDSOUTH RAIL CORPORATION	8	88	3	1	313	40	0	62	515
MNMR	MINNESOTA COMMERCIAL RAILWAY	1	16	0	0	71	0	0	13	101
MKT	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY	259	346	16	4	1,118	2	1	103	1,849
MNVA	MNVA RAILROAD, INC. (FORMERLY MINNESOTA VAL	0	2	0	0	99	0	0	3	104
MRL	MONTANA RAIL LINK	56	66	2	0	320	2	2	12	460
NERR	NASHVILLE & EASTERN RAILROAD	0	30	1	3	143	0	0	32	209
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	211	107	1	11	35	0	0	8	373
NOPB	NEW ORLEANS PUBLIC BELT RAILROAD	5	13	0	0	8	5	17	69	117
NYSH	NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD	79	80	14	13	47	0	0	14	247
NW	NORFOLK AND WESTERN RAILWAY COMPANY	1,111	1,518	70	151	3,286	7	6	181	6,330
NMP	NORTHWESTERN PACIFIC RAILROAD COMPANY	0	68	4	0	29	0	0	3	109
OKDOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	24	91	0	0	567	0	0	57	739
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	19	46	0	0	196	0	0	6	267
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	10	31	0	0	128	1	0	7	177
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	19	97	5	0	147	1	0	9	278
PLE	PITTSBURGH & LAKE ERIE RAILROAD COMPANY	18	10	2	3	62	0	0	14	109
PACY	PRAIRIE CENTRAL RAILWAY COMPANY	0	16	2	0	88	0	0	0	106
PARY	PRAIRIE TRUNK RAILWAY	1	22	0	0	143	0	0	6	172
PW	PROVIDENCE AND WORCESTER RAILROAD COMPANY	23	79	6	19	24	3	0	20	174
RRVW	RED RIVER VALLEY & WESTERN RAILROAD	14	22	0	0	660	1	0	51	748
SGWR	SEAGRAVES, WHITEFACE AND LUBBOCK RAILROAD C	7	18	0	0	101	0	0	0	126
SGLR	SEMINOLE GULF RAILROAD	56	34	0	0	67	0	0	2	159
SOD	SOO LINE RAILROAD COMPANY	466	666	45	91	3,645	13	0	221	5,147
SCRF	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	5	32	0	42	160	0	0	5	244
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	2	17	0	0	274	0	1	35	321
SEKR	SOUTHEAST KANSAS RAILROAD	1	18	0	0	109	0	0	3	131
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	50	77	21	18	33	16	2	45	262
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	3,095	1,167	294	35	4,737	55	19	461	9,863
SSMN	SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORA	92	71	3	3	58	0	0	3	230
SOU	SOUTHERN RAILWAY COMPANY	1,741	1,684	34	454	6,696	28	17	1,369	12,023
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	9	9	1	0	99	8	1	11	138
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	59	182	1	52	122	0	0	0	416
SSW	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	226	280	6	10	1,426	3	0	117	2,068
TUB	STATE SUBSIDY	5	94	25	16	108	3	10	10	271
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	2	19	1	0	88	2	0	18	130
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	43	15	0	59	27	1	0	3	148
TM	TEXAS MEXICAN RAILWAY COMPANY	1	62	0	11	156	1	0	8	239
TBY	TOLEDO, PEORIA & WESTERN RAILWAY CORPORATIO	6	124	4	0	304	0	0	5	443
TBSB	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	3	77	8	1	504	0	1	75	599
UP	UNION PACIFIC RAILROAD COMPANY	2,201	2,659	129	225	12,042	87	28	1,143	18,514
WCRC	WASHINGTON CENTRAL RAILROAD COMPANY	26	43	4	0	254	0	0	21	368
WE	WHEELING & LAKE ERIE RAILWAY COMPANY	31	141	3	2	362	1	0	0	540
WTRY	WILMINGTON TERMINAL RAILROAD INC.	38	17	0	0	228	0	0	4	287
WW	WINCHESTER AND WESTERN RAILROAD COMPANY	1	21	0	24	61	0	0	1	116
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	0	20	3	0	108	0	0	0	131
WSOR	WISCONSIN AND SOUTHERN RAILWAY COMPANY	1	53	3	0	47	0	0	0	104
WICT	WISCONSIN CALUMET RAILROAD	1	86	18	7	292	0	0	9	413
WC	WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	131	501	17	26	1,216	1	0	19	1,911
	All Other Railroads	892	2,263	194	980	8,277	163	72	763	13,604
FINAL TOTALS		26,194	30,656	1,900	5,512	102,071	875	582	8,782	176,572

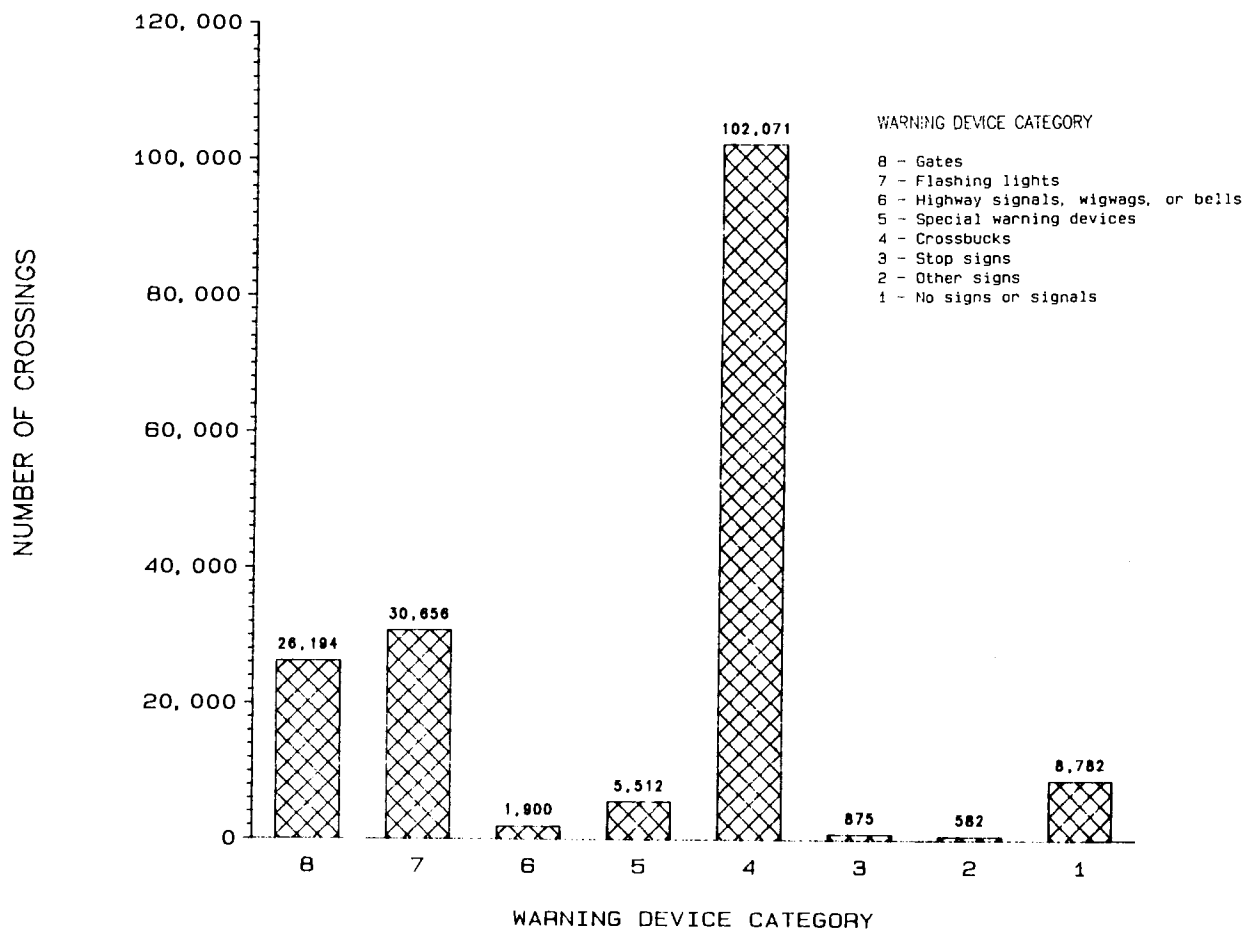


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

State	Stop Lines	RR X-ing Symbol	BothNone.....		Total
				Paved	Unpaved	
Alabama.....	42	137	208	2,891	985	4,263
Alaska.....	9	11	54	65	88	227
Arizona.....	40	19	378	285	254	976
Arkansas.....	57	117	270	1,730	1,249	3,423
California.....	1,042	211	4,833	1,891	316	8,293
Colorado.....	22	30	270	1,044	826	2,192
Connecticut.....	18	5	105	369	6	503
Delaware.....	4	22	124	108	7	265
Dist of Columbia.....	---	---	23	14	---	37
Florida.....	276	375	1,869	1,168	456	4,144
Georgia.....	65	107	2,885	1,787	1,681	6,525
Hawaii.....	2	---	---	4	---	6
Idaho.....	4	5	271	762	670	1,712
Illinois.....	76	138	1,287	4,392	4,594	10,487
Indiana.....	116	430	1,241	4,475	1,166	7,428
Iowa.....	56	149	571	2,303	2,940	6,019
Kansas.....	4	23	896	2,241	5,303	8,467
Kentucky.....	43	374	796	984	757	2,954
Louisiana.....	43	235	583	2,332	1,077	4,270
Maine.....	2	4	572	266	84	928
Maryland.....	11	25	254	379	46	715
Massachusetts.....	55	45	119	944	34	1,197
Michigan.....	94	202	803	3,418	1,674	6,191
Minnesota.....	131	177	495	2,092	2,813	5,708
Mississippi.....	27	42	486	1,630	867	3,052
Missouri.....	67	116	550	2,236	2,144	5,113
Montana.....	4	5	56	508	972	1,545
Nebaska.....	32	271	188	1,040	2,679	4,210
Nevada.....	5	4	105	55	102	271
New Hampshire.....	9	28	59	364	53	513
New Jersey.....	39	216	168	1,397	103	1,923
New Mexico.....	5	24	44	346	407	826
New York.....	127	214	433	2,312	287	3,373
North Carolina.....	45	26	3,674	574	623	4,942
North Dakota.....	17	16	144	648	4,093	4,918
Ohio.....	468	618	3,600	2,237	593	7,516
Oklahoma.....	28	91	162	2,303	2,130	4,714
Oregon.....	369	943	146	623	513	2,594
Pennsylvania.....	65	359	154	4,532	623	5,733
Rhode Island.....	---	---	80	48	---	128
South Carolina.....	101	125	1,138	1,630	542	3,536
South Dakota.....	23	7	143	553	1,468	2,194
Tennessee.....	20	30	246	2,701	881	3,878
Texas.....	---	9	6,409	3,576	3,509	13,503
Utah.....	16	23	182	573	235	1,029
Vermont.....	38	10	98	225	155	526
Virginia.....	95	93	1,019	950	243	2,400
Washington.....	121	71	558	1,701	649	3,100
West Virginia.....	24	14	106	1,409	750	2,303
Wisconsin.....	80	33	625	3,868	625	5,231
Wyoming.....	7	22	55	155	308	547
Puerto Rico.....	3	7	---	12	2	24
Unknown.....	---	---	---	---	---	---
Total.....	4,047	6,258	39,535	74,150	52,582	176,572

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

State	RAILROAD ADVANCE WARNING		
	Yes	No	Total
Alabama.....	895	3,368	4,263
Alaska.....	163	64	227
Arizona.....	557	419	976
Arkansas.....	906	2,517	3,423
California.....	6,635	1,658	8,293
Colorado.....	1,162	1,030	2,192
Connecticut.....	243	260	503
Delaware.....	231	34	265
Dist of Columbia.....	22	15	37
Florida.....	2,575	1,569	4,144
Georgia.....	3,282	3,243	6,525
Hawaii.....	1	5	6
Idaho.....	1,469	243	1,712
Illinois.....	5,375	5,112	10,487
Indiana.....	6,303	1,125	7,428
Iowa.....	4,020	1,999	6,019
Kansas.....	4,168	4,299	8,467
Kentucky.....	1,656	1,298	2,954
Louisiana.....	2,663	1,607	4,270
Maine.....	915	13	928
Maryland.....	450	265	715
Massachusetts.....	883	314	1,197
Michigan.....	4,489	1,702	6,191
Minnesota.....	3,531	2,177	5,708
Mississippi.....	740	2,312	3,052
Missouri.....	1,584	3,529	5,113
Montana.....	896	649	1,545
Nebraska.....	2,952	1,258	4,210
Nevada.....	210	61	271
New Hampshire.....	300	213	513
New Jersey.....	886	1,037	1,923
New Mexico.....	176	650	826
New York.....	2,658	715	3,373
North Carolina.....	3,820	1,122	4,942
North Dakota.....	1,696	3,222	4,918
Ohio.....	4,775	2,741	7,516
Oklahoma.....	1,357	3,357	4,714
Oregon.....	1,014	1,580	2,594
Pennsylvania.....	2,109	3,624	5,733
Rhode Island.....	81	47	128
South Carolina.....	2,259	1,277	3,536
South Dakota.....	1,484	710	2,194
Tennessee.....	681	3,197	3,878
Texas.....	10,445	3,058	13,503
Utah.....	592	437	1,029
Vermont.....	439	87	526
Virginia.....	1,709	691	2,400
Washington.....	2,238	862	3,100
West Virginia.....	520	1,783	2,303
Wisconsin.....	3,329	1,902	5,231
Wyoming.....	291	256	547
Puerto Rico.....	17	7	24
Unknown.....	---	---	---
Total.....	101,852	74,720	176,572

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.....	885	1,464	1,914	4,263
Alaska.....	77	113	37	227
Arizona.....	384	469	123	976
Arkansas.....	765	1,863	795	3,423
California.....	4,536	1,706	2,051	8,293
Colorado.....	624	1,099	469	2,192
Connecticut.....	246	109	148	503
Delaware.....	178	62	25	265
Dist of Columbia.	4	20	13	37
Florida.....	2,721	1,009	414	4,144
Georgia.....	1,817	3,752	956	6,525
Hawaii.....	---	4	2	6
Idaho.....	292	841	579	1,712
Illinois.....	4,760	4,413	1,314	10,487
Indiana.....	3,027	3,611	790	7,428
Iowa.....	1,646	3,283	1,090	6,019
Kansas.....	1,467	2,986	4,014	8,467
Kentucky.....	1,213	1,305	436	2,954
Louisiana.....	1,097	2,387	786	4,270
Maine.....	455	458	15	928
Maryland.....	321	199	195	715
Massachusetts....	684	301	212	1,197
Michigan.....	2,345	3,479	367	6,191
Minnesota.....	1,234	4,012	462	5,708
Mississippi.....	548	1,533	971	3,052
Missouri.....	1,562	1,886	1,665	5,113
Montana.....	345	749	451	1,545
Nebraska.....	920	2,803	487	4,210
Nevada.....	121	88	62	271
New Hampshire....	185	213	115	513
New Jersey.....	1,079	341	503	1,923
New Mexico.....	262	308	256	826
New York.....	2,071	926	376	3,373
North Carolina...	1,611	1,706	1,625	4,942
North Dakota.....	452	2,995	1,471	4,918
Ohio.....	2,931	2,702	1,883	7,516
Oklahoma.....	1,127	1,915	1,672	4,714
Oregon.....	745	1,205	644	2,594
Pennsylvania.....	2,101	1,302	2,330	5,733
Rhode Island.....	67	2	59	128
South Carolina...	985	2,097	454	3,536
South Dakota.....	184	1,820	190	2,194
Tennessee.....	924	1,076	1,878	3,878
Texas.....	4,340	4,165	4,998	13,503
Utah.....	320	488	221	1,029
Vermont.....	239	271	16	526
Virginia.....	1,151	802	447	2,400
Washington.....	845	1,318	937	3,100
West Virginia....	652	830	821	2,303
Wisconsin.....	1,960	2,588	683	5,231
Wyoming.....	239	191	117	547
Puerto Rico.....	6	6	12	24
Unknown.....	---	---	---	---
Total.....	58,750	75,271	42,551	176,572

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.

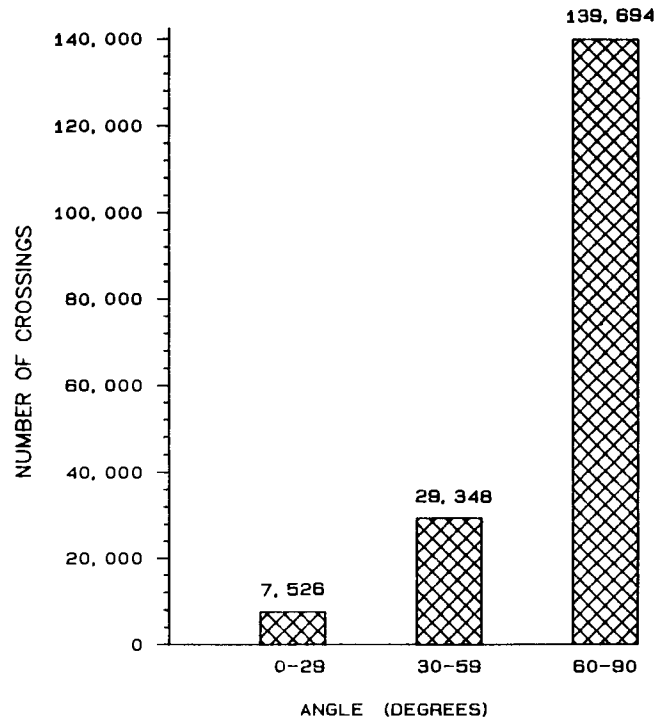


FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

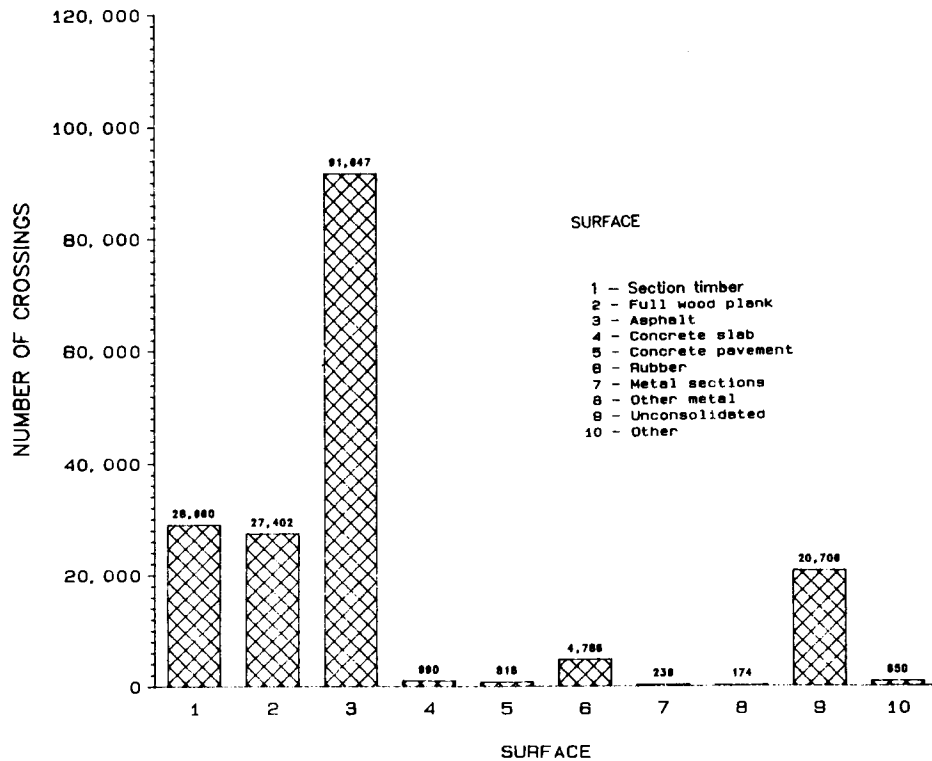


FIGURE 31. CROSSINGS BY CROSSING SURFACE

**OPERATIONAL CHARACTERISTICS
TRAIN TRAFFIC DATA**

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

<u>Trains</u>	<u>Crossings</u>
<1	27,460
1-5	77,585
6-10	30,104
11-15	12,563
16-20	11,650
21-25	5,718
26-30	3,747
31-35	1,822
36-40	1,529
41-45	1,138
46-50	767
51-55	638
56-60	666
61-65	295
66-70	123
71-75	110
76-80	167
81-85	47
86-90	25
91-95	13
96-100	155
>100	250
Total	176,572

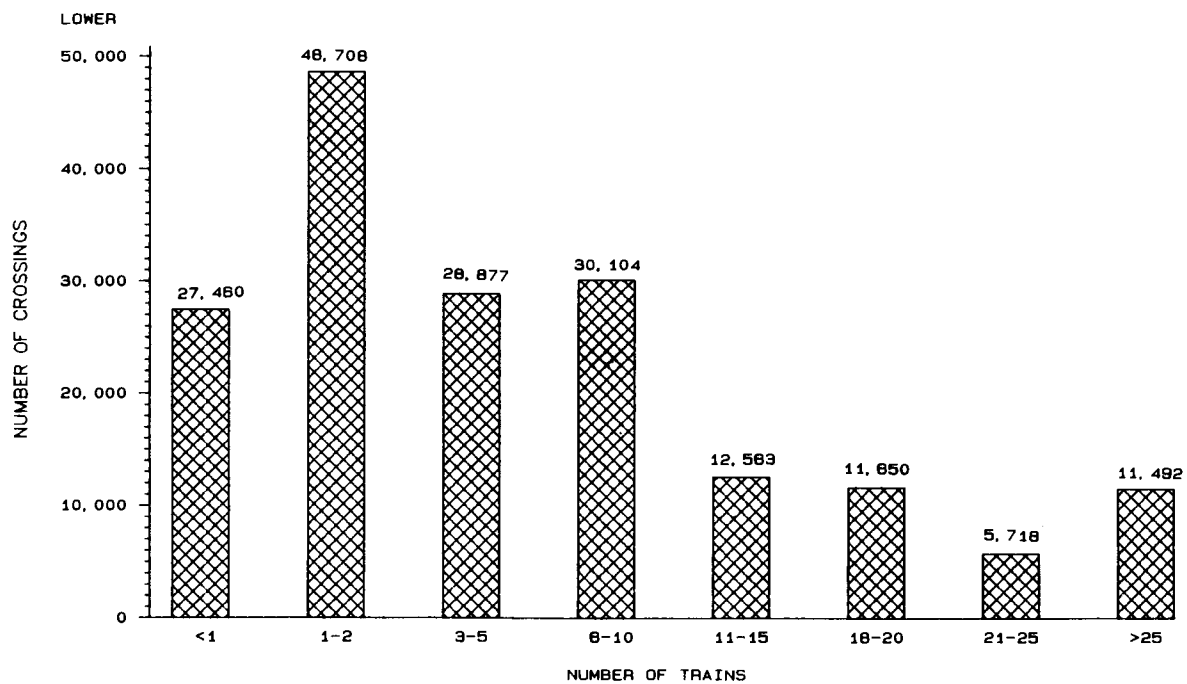


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

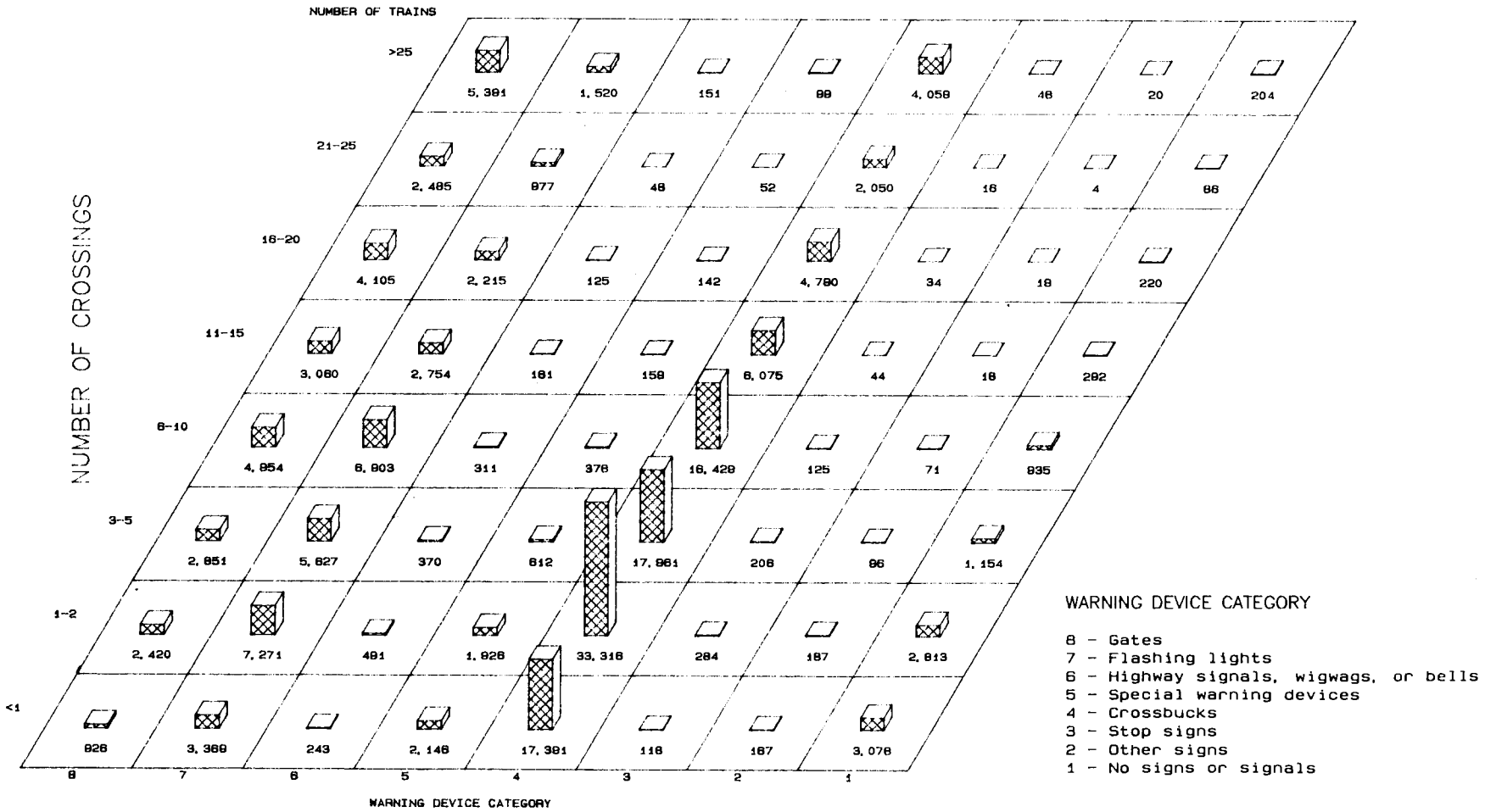


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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	27,460	26,832	12,697	12,162	4,854	4,818	2,199	3,063	94,085
1-2	20,133	9,160	6,577	6,669	2,845	2,779	946	2,432	51,541
2-3	6,125	1,863	2,140	3,341	1,403	881	324	1,609	17,686
6-10	2,632	727	862	1,500	984	1,072	359	754	8,890
11-15	523	106	127	280	282	61	87	379	1,845
16-20	451	101	98	175	209	87	178	163	1,462
21-25	122	42	25	40	36	18	23	61	367
>25	221	65	51	120	59	44	37	99	696
Total	57,667	38,896	22,577	24,287	10,672	9,760	4,153	8,560	176,572

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	27,460	7,471	974	261	7	7	4	6	36,190
1-2	28,795	27,719	3,456	425	21	9	1	4	60,430
2-3	4,868	10,514	16,021	1,813	132	37	35	2	33,422
6-10	1,567	2,333	6,653	14,558	1,680	88	43	10	26,932
11-15	196	149	765	3,720	4,812	583	20	24	10,269
16-20	78	125	268	548	1,214	1,705	403	32	4,373
21-25	43	26	50	150	377	422	773	183	2,024
>25	72	10	18	102	260	407	623	1,440	2,932
Total	63,079	48,347	28,205	21,577	8,503	3,258	1,902	1,701	176,572

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.....	928	2,420	2,851	4,954	3,060	4,105	2,485	5,391	26,194
Flashing lights.....	3,389	7,271	5,627	6,903	2,754	2,215	977	1,520	30,656
Hwy. signals, wigwags, bells	243	491	370	311	161	125	48	151	1,900
Special warning devices.....	2,146	1,926	612	376	159	142	52	99	5,512
Crossbucks.....	17,391	33,316	17,961	16,429	6,075	4,790	2,050	4,059	102,071
Stop signs.....	118	284	206	125	44	34	16	48	875
Other signs.....	167	187	96	71	18	19	4	20	582
No signs or signals.....	3,078	2,813	1,154	935	292	220	86	204	8,782
Total.....	27,460	48,708	28,877	30,104	12,563	11,650	5,718	11,492	176,572

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	11,585	3,291	3,117	6,123	1,971	1,373	27,460
1-2	24,358	5,717	5,149	9,018	2,610	1,856	48,708
2-3	13,460	3,417	3,108	5,815	1,759	1,318	28,877
6-10	13,619	3,665	3,478	6,182	1,817	1,343	30,104
11-15	5,704	1,348	1,358	2,732	834	587	12,563
16-20	5,028	1,350	1,369	2,499	808	596	11,650
21-25	2,186	669	666	1,401	454	342	5,718
>25	4,771	1,232	1,192	2,565	990	742	11,492
Total	80,711	20,689	19,437	36,335	11,243	8,157	176,572

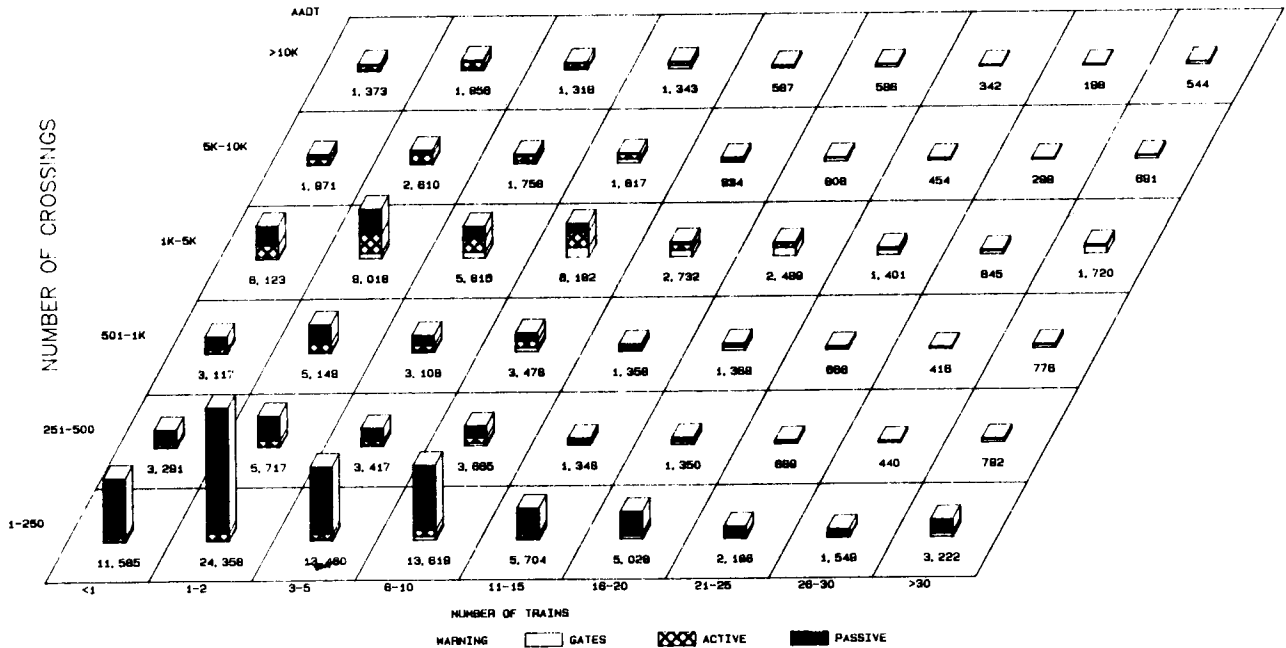


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

TRAIN SPEED DATA

TABLE 55. TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	6,717
6-10	30,767
11-15	10,243
16-20	14,200
21-25	22,476
26-30	18,384
31-35	11,407
36-40	18,244
41-45	3,877
46-50	15,306
51-55	3,499
56-60	9,288
61-65	1,143
66-70	5,044
71-75	473
76-80	4,741
81-85	4
86-90	536
91-95	1
96-100	8
>100	214
Total	176,572

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

<u>Speed Variation</u>	<u>Crossings</u>
<1	14,901
1-5	44,795
6-10	41,782
11-15	18,759
16-20	17,078
21-25	10,405
26-30	9,128
31-35	4,797
36-40	4,444
41-45	2,284
46-50	3,258
51-55	885
56-60	2,065
61-65	673
66-70	291
71-75	195
76-80	647
81-85	10
86-90	2
91-95	---
96-100	---
>100	173
Total	176,572

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

AADT	Crossings
1-100	56,886
101-200	16,275
201-300	12,921
301-400	7,664
401-500	7,654
501-600	5,025
601-700	3,648
701-800	4,262
801-900	2,677
901-1,000	3,825
1,001-2,000	16,601
2,001-3,000	9,046
3,001-4,000	5,737
4,001-5,000	4,951
5,001-6,000	3,128
6,001-7,000	2,395
7,001-8,000	2,280
8,001-9,000	1,658
9,001-10,000	1,782
10,001-20,000	6,290
>20,000	1,867
Total	176,572

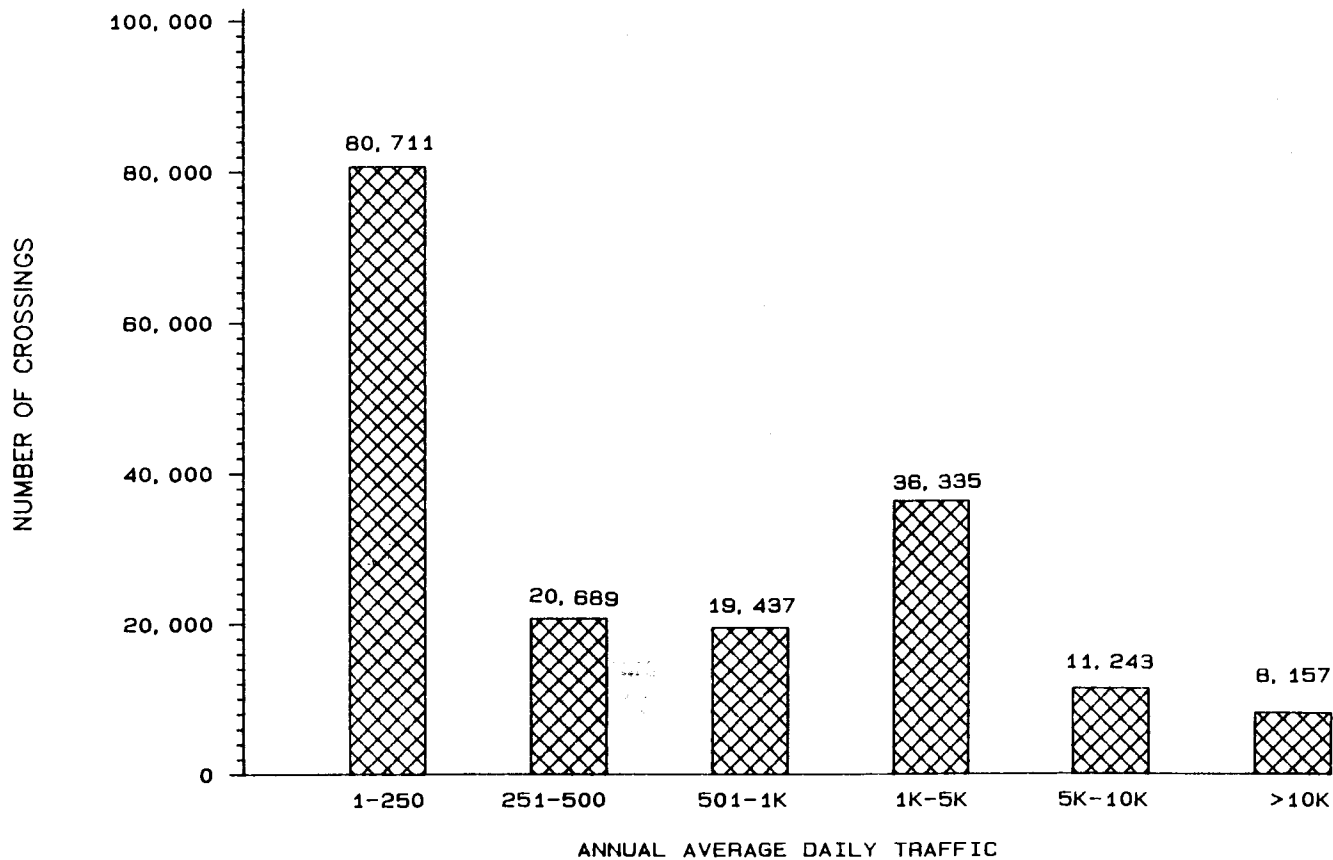


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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.....	3,434	2,585	3,430	9,526	3,878	3,341	26,194
Flashing lights.....	4,104	3,542	4,657	11,441	3,996	2,916	30,656
Hwy. signals, wigwags, bells	521	228	238	503	221	189	1,900
Special warning devices.....	1,128	682	743	1,790	679	490	5,512
Crossbucks.....	66,187	12,394	9,214	11,296	1,992	988	102,071
Stop signs.....	434	129	115	154	29	14	875
Other signs.....	243	89	93	110	32	15	582
No signs or signals.....	4,660	1,040	947	1,515	416	204	8,782
Total.....	80,711	20,689	19,437	36,335	11,243	8,157	176,572

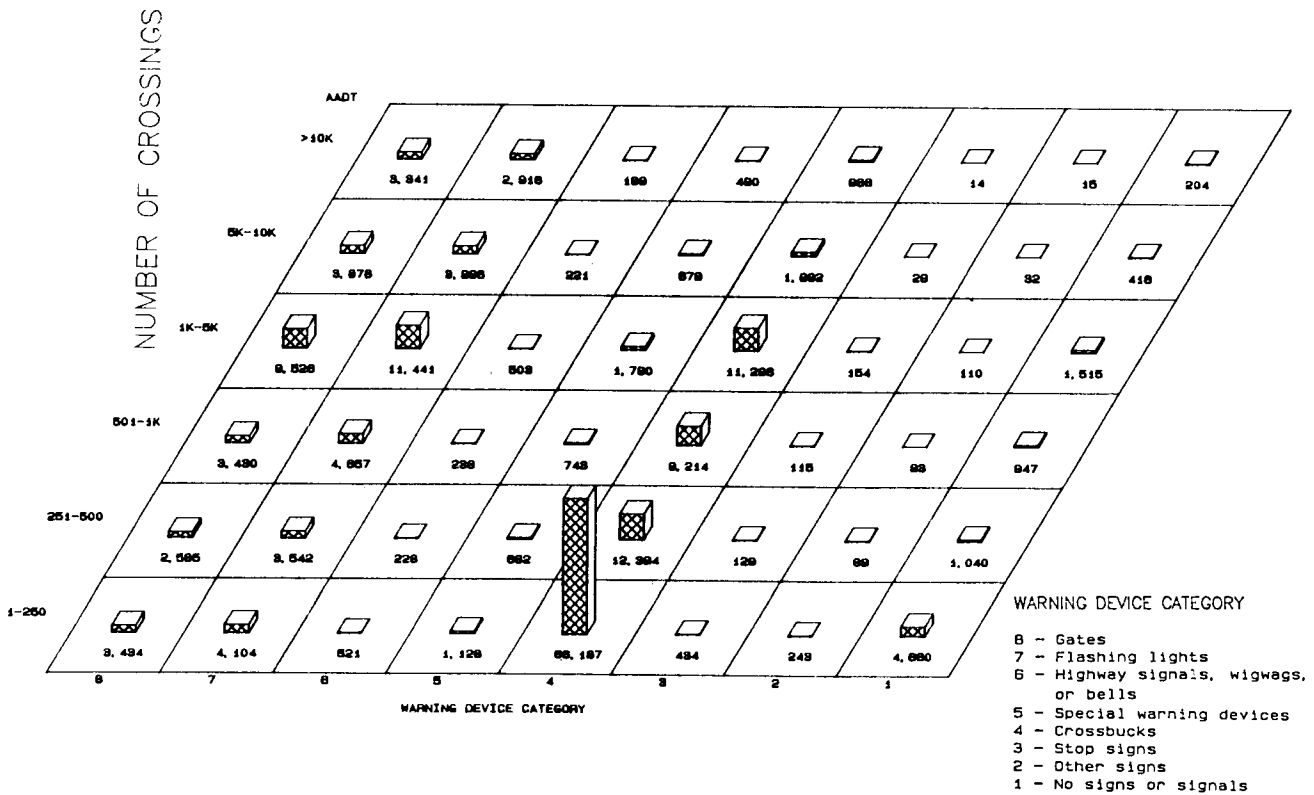


FIGURE 36. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

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

%	Crossings
<1	7,073
1-5	76,836
6-10	58,723
11-15	16,772
16-20	8,634
21-25	2,289
26-30	5,372
31-35	377
36-40	1,019
41-45	112
46-50	938
51-55	22
56-60	152
61-65	8
66-70	56
71-75	102
76-80	70
81-85	6
86-90	53
91-95	3
96-99	10
Total	178,627

TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE

State	Section Timber	Full Wood Plank	Concrete Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	168	413	3,185	4	1	18	2	1	463	8
Alaska	11	97	58	10	0	39	0	0	1	11
Arizona	99	244	475	0	2	64	0	0	71	1
Arkansas	640	242	1,768	3	8	11	3	2	742	4
California	858	1,333	5,791	40	32	68	0	0	143	28
Colorado	697	408	696	4	4	95	8	30	234	16
Connecticut	107	5	329	4	2	49	2	0	3	2
Delaware	16	4	200	2	9	29	0	0	5	0
Dist Of Columbia	6	1	25	0	5	0	0	0	0	0
Florida	1,235	53	2,137	302	34	219	8	1	114	41
Georgia	115	128	5,698	21	17	7	1	1	536	1
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	221	884	464	9	0	22	0	0	99	13
Illinois	1,787	1,306	5,342	31	38	689	8	7	1,261	18
Indiana	1,445	250	5,041	7	18	308	8	3	344	4
Iowa	96	1,298	2,610	5	15	203	1	2	1,685	104
Kansas	2,366	2,139	1,407	13	15	81	7	2	2,425	12
Kentucky	341	345	1,618	1	5	73	2	3	566	0
Louisiana	774	619	1,834	4	9	501	1	17	510	1
Maine	56	234	622	0	7	9	0	0	7	0
Maryland	213	75	342	0	7	57	0	0	18	3
Massachusetts	64	29	1,001	8	0	80	0	0	15	0
Michigan	1,765	712	2,767	10	10	307	160	1	446	13
Minnesota	119	2,925	2,116	14	7	180	0	2	330	15
Mississippi	152	384	1,605	3	3	116	1	1	785	2
Missouri	1,286	886	1,805	10	4	86	2	1	1,017	16
Montana	16	1,168	279	13	2	30	0	8	20	9
Nebraska	909	739	729	22	42	57	2	2	1,691	17
Nevada	51	55	85	17	1	16	0	1	38	7
New Hampshire	12	59	427	1	0	7	0	0	6	1
New Jersey	166	11	1,516	14	19	59	0	14	82	42
New Mexico	498	163	50	0	2	15	0	0	98	0
New York	449	159	2,388	9	15	246	0	1	97	9
North Carolina	22	48	4,517	8	12	5	2	1	320	7
North Dakota	57	3,844	513	25	2	26	0	2	442	7
Ohio	2,129	187	4,785	11	25	100	0	6	259	14
Oklahoma	1,693	504	1,119	9	15	36	1	6	1,320	11
Oregon	530	106	1,543	9	18	21	0	0	66	301
Pennsylvania	986	77	3,891	61	247	84	1	16	366	4
Rhode Island	1	1	79	0	10	36	0	1	0	0
South Carolina	51	16	3,182	50	7	1	3	1	219	6
South Dakota	9	1,458	481	1	1	102	0	0	88	54
Tennessee	167	321	2,886	7	2	25	2	9	455	4
Texas	4,896	1,121	4,889	103	109	218	5	19	2,137	6
Utah	235	237	430	9	5	17	3	2	88	0
Vermont	39	42	356	0	1	10	0	0	78	0
Virginia	230	53	1,928	6	3	9	5	10	135	21
Washington	80	1,355	1,396	101	4	124	0	0	36	4
West Virginia	940	12	908	2	5	9	0	1	424	2
Wisconsin	115	425	4,170	5	25	193	1	0	296	1
Wyoming	42	207	136	2	1	29	0	0	123	7
Puerto Rico	0	0	22	0	0	0	0	0	2	0
FINAL TOTALS	28,960	27,402	91,647	990	818	4,786	239	174	20,706	850

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.....	1078	1520	2080	1895	1662	1151	1023	603	31	4	2	0	11049
FLASHING LIGHTS.....	4335	3457	5488	3813	2550	1317	328	246	16	0	0	0	21550
HWY. SIGNALS, WIGWAGS, BELLS.....	405	201	242	156	69	58	9	9	2	0	1	0	1152
SPECIAL WARNING DEVICES.....	2636	668	323	105	49	29	15	23	12	2	0	0	3862
CROSSBUCKS.....	14780	9566	21017	15400	8543	5376	1316	1366	181	0	1	0	77546
STOP SIGNS.....	226	99	149	88	39	9	17	7	0	0	0	0	634
OTHER SIGNS.....	188	101	81	18	14	1	2	3	0	0	0	0	408
NO SIGNS OR SIGNALS.....	3322	1331	1010	462	282	139	50	31	4	0	0	0	6631
TOTAL.....	26970	16943	30390	21937	13208	8080	2760	2288	246	6	4	0	122832
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.....	935	1549	2454	2410	2216	1961	1836	1647	134	2	1	0	15145
FLASHING LIGHTS.....	1765	1427	2179	1549	1001	683	277	215	10	0	0	0	9106
HWY. SIGNALS, WIGWAGS, BELLS.....	192	119	165	88	53	53	55	16	7	0	0	0	748
SPECIAL WARNING DEVICES.....	1059	267	173	54	25	46	10	12	3	1	0	0	1650
CROSSBUCKS.....	5463	3599	5186	3469	2571	1895	1203	999	140	0	0	0	24525
STOP SIGNS.....	105	37	49	12	13	7	11	7	0	0	0	0	241
OTHER SIGNS.....	58	46	34	19	14	1	2	0	0	0	0	0	174
NO SIGNS OR SIGNALS.....	1146	456	230	113	82	61	33	30	0	0	0	0	2151
TOTAL.....	10723	7500	10470	7714	5975	4707	3427	2926	294	3	1	0	53740
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.....	2013	3069	4534	4305	3878	3112	2859	2250	165	6	3	0	26194
FLASHING LIGHTS.....	6100	4884	7667	5362	3551	2000	605	461	26	0	0	0	30656
HWY. SIGNALS, WIGWAGS, BELLS.....	597	320	407	244	122	111	64	25	9	0	1	0	1900
SPECIAL WARNING DEVICES.....	3695	935	496	159	74	75	25	35	15	3	0	0	5512
CROSSBUCKS.....	20243	13165	26203	18869	11114	7271	2519	2365	321	0	1	0	102071
STOP SIGNS.....	331	136	198	100	52	16	28	14	0	0	0	0	875
OTHER SIGNS.....	246	147	115	37	28	2	4	3	0	0	0	0	582
NO SIGNS OR SIGNALS.....	4468	1787	1240	575	364	200	83	61	4	0	0	0	8782
TOTAL.....	37693	24443	40860	29651	19183	12787	6187	5214	540	9	5	0	176572

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1989 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more stated 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 \$5,700 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 \$5,700 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	
TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

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.

1. NAME OF REPORTING RAILROAD		Amtrak	1a. Alphabetic Code		1b. Railroad Accident/Incident No.																
		Autotrain																			
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		6. TIME OF ACCIDENT/INCIDENT																
			month	day	year	am <input type="checkbox"/> pm <input type="checkbox"/>															
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry)																					
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.)															
LOCATION																					
12. DIVISION		13. NEAREST STATION		14. MILEPOST (to nearest tenth)		15. STATE (two letter code)															
ENVIRONMENTAL CONDITIONS																					
16. TEMPERATURE (specify if minus)		17. VISIBILITY (single entry)		18. WEATHER (single entry)		CODE															
°F		1. Dawn 3. Dusk 2. Day 4. Dark		1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow		CODE															
OPERATIONAL DATA																					
19. METHOD																					
(place X in appropriate box(es)) <table style="width:100%; border: none;"> <tr> <td>1 <input type="checkbox"/> Manual block</td> <td>4 <input type="checkbox"/> Automatic block</td> <td>7 <input type="checkbox"/> Yard rules</td> <td>10 <input type="checkbox"/> Auto. train control</td> <td>13 <input type="checkbox"/> Other (specify)</td> </tr> <tr> <td>2 <input type="checkbox"/> Interlocking</td> <td>5 <input type="checkbox"/> Traffic control</td> <td>8 <input type="checkbox"/> Time table</td> <td>11 <input type="checkbox"/> Verbal permission</td> <td></td> </tr> <tr> <td>3 <input type="checkbox"/> Cab signal</td> <td>6 <input type="checkbox"/> Auto. train stop</td> <td>9 <input type="checkbox"/> Radio</td> <td>12 <input type="checkbox"/> Train orders</td> <td></td> </tr> </table>							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	
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)		21. TRAIN NUMBER		22. TIME TABLE DIRECTION		CODE															
MPH Recorded		Est.		1. North 2. South 3. East 4. West																	
EQUIPMENT																					
23. TRAILING TONS (gross tonnage, excluding power units)		24. TYPE OF EQUIPMENT CONSIST (single entry)			25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED?																
		1. Freight train 3. Mixed train 5. Single car 7. Yard/switching			CODE																
		2. Passenger train 4. Work train 6. Cut of cars 8. Light loco(s)			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															
						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		32. CARS (no. of)		Loaded Empty															
		b. Manual c. Remote				a. Freight b. Pass. c. Freight d. Pass. e. Caboose															
(1) Total in Train				(1) Total in Equipment Consist																	
(2) Total Derailed				(2) Total Derailed																	
PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)																					
33. EQUIPMENT DAMAGE				34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE																	
(to be reported for this equipment consist only)				(to be reported by railroad in item 3 only)																	
\$				\$																	
ACCIDENT/INCIDENT CAUSE CODE																					
35. PRIMARY CAUSE		36. CONTRIBUTING CAUSE		37. If no code available, explain cause.																	
CODE		CODE																			
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		45. ENGINEER		46. CONDUCTOR															
				Hrs: Mins:		Hrs: Mins:															
43. CONDUCTORS		44. BRAKEMEN																			
47. TYPED NAME AND TITLE				48. SIGNATURE		49. DATE															
50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident																					

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <div style="display: flex; justify-content: space-between;"> Amtrak <input type="checkbox"/> </div> <div style="display: flex; justify-content: space-between;"> Autotrain <input type="checkbox"/> </div>	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			
	1. North	3. East					
	2. South	4. West					
15. POSITION	CODE			18. CIRCUMSTANCE			
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?				1. Highway user	2. Rail equipment	3. Both	4. Neither

ENVIRONMENT

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

TRAIN AND TRACK

23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry	CODE
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) MPH Recorded	30. TIME TABLE DIRECTION 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 Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No	CODE
	2. <input type="checkbox"/> Cantilever FLS	6. <input type="checkbox"/> Audible	10. <input type="checkbox"/> Flagged by crew		
	3. <input type="checkbox"/> Standard FLS	7. <input type="checkbox"/> Crossbucks	11. <input type="checkbox"/> Other (specify)		
	4. <input type="checkbox"/> Wig Wags	8. <input type="checkbox"/> Stop Signs	12. <input type="checkbox"/> None		
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	CODE	35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown	CODE

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown	CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	CODE
38. MOTORIST 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) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 4. Topography 5. Vegetation 6. Highway vehicles 7. Other (specify) 8. Not obstructed			

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured	CODE	42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No	CODE
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
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U.S. DOT - AAR CROSSING INVENTORY FORM

A. INITIATING AGENCY

RAILROAD STATE

C. REASON FOR UPDATE:

- CHANGES IN EXISTING CROSSING DATA
- NEW CROSSING
- CLOSED CROSSING

D. EFFECTIVE DATE

M D Y

B. CROSSING NUMBER

Part I Location and Classification of All Crossings (Must Be Completed)

<p>1. Railroad Operating Company <input type="text"/></p> <p>4. State <input type="text"/></p> <p>7. City <input type="text"/></p> <p>10. Street or Road Name <input type="text"/></p> <p>12. Nearest RR Timetable Station <input type="text"/></p> <p>15. Pedestrian Crossing <input type="checkbox"/> 1. at grade <input type="checkbox"/> 2. RR under <input type="checkbox"/> 3. RR over</p>	<p>2. Railroad Division or Region <input type="text"/></p> <p>5. County <input type="text"/></p> <p>8. Nearest City <input type="text"/></p> <p>11. RR I. D. No. <input type="text"/></p> <p>13. Branch or Line Name <input type="text"/></p> <p>16. Private Vehicle Crossing <input type="checkbox"/> 1. Farm <input type="checkbox"/> 2. Residential <input type="checkbox"/> 3. Recreational <input type="checkbox"/> 4. Industrial <input type="checkbox"/> 5. at grade <input type="checkbox"/> 6. RR under <input type="checkbox"/> 7. RR over <input type="checkbox"/> 8. signs-specify <input type="text"/> <input type="checkbox"/> 9. signals-specify <input type="text"/> <input type="checkbox"/> 0. none</p>	<p>3. Railroad Subdivision or District <input type="text"/></p> <p>6. County Map. Ref. No. <input type="text"/></p> <p>9. Highway Type and No. <input type="text"/></p> <p>14. Railroad Mile Post <input type="text"/></p> <p>17. Public Vehicle Crossing <input type="checkbox"/> 1. at grade <input type="checkbox"/> 2. RR under <input type="checkbox"/> 3. RR over</p>
---	--	--

DO NOT WRITE IN THIS SPACE

State County
 City Nearest City

 RR Code Timetable Station

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements

Daylight (6 AM to 6 PM)		Night (6 PM to 6 AM)	
thru trains	switching	thru trains	switching
<input type="text"/> 1	<input type="text"/> 2	<input type="text"/> 3	<input type="text"/> 4

18. Check if Less Than One Movement Per Day 5

2. Speed of Train at Crossing
 A. Maximum time table speed 1
 B. Typical Speed Range Over Crossing from 2 to 3 mph

3. Type and Number of Tracks
 main 1 other 2 If other specify 3

4. Does Another RR Operate a Separate Track at Crossing?
 Yes No Specify: RR 2

5. Does Another RR Operate Over Your Track at Crossing?
 Yes No Specify: RR 2

6. Type of Warning Device at Crossing
 A. Signs

Crossbucks		Standard Highway Stop Sign	Other Stop Signs	Other Signs: Specify	
reflectORIZED	non-reflectORIZED			Number	Number
<input type="text"/> 01	<input type="text"/> 02	<input type="text"/> 03	<input type="text"/> 04	<input type="text"/> 05	<input type="text"/> 06
Number	Number	Number	Number	Number	Number

B. Train Activated Devices

Gates		Cantilevered Flashing Lights		Mast Mounted Flashing Lights	Other Flashing Lights Specify	Highway Traffic Signals	Wigwags	Bells
red & white reflectORIZED	other colored	over traffic lane	not over traffic lane					
<input type="text"/> 09	<input type="text"/> 10	<input type="text"/> 11	<input type="text"/> 12	<input type="text"/> 13	<input type="text"/> 14	<input type="text"/> 15	<input type="text"/> 16	<input type="text"/> 17
Number	Number	Number	Number	Number	Number	Number	Number	Number

C. Specify Special Warning Device not Train Activated 19

D. No Signs or Signals 20

7. Is Commercial Power Available? Yes No

8. Does Crossing Signal Provide Speed Selection for Trains? Yes No N/A

9. Method of Signalling for Train Operation: Is Track Equipped with Signals? Yes No

Part III Physical Data

<p>1. Type of Development <input type="checkbox"/> 1. Open Sp. <input type="checkbox"/> 2. Res <input type="checkbox"/> 3. Comm. <input type="checkbox"/> 4. Ind. <input type="checkbox"/> 5. Inst.</p> <p>2. Smallest Crossing Angle <input type="checkbox"/> 0°-29° <input type="checkbox"/> 30°-59° <input type="checkbox"/> 60°-90°</p> <p>3. Number of Traffic Lanes Crossing Railroad <input type="text"/> Number</p> <p>4. Are Truck Pullout Lanes Present? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>5. Is Highway Paved <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>6. Pavement Markings <input type="checkbox"/> Stoplines <input type="checkbox"/> RR Xing Sym. <input type="checkbox"/> None</p> <p>7. Are RR Advance Warning Signs Present? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>8. Crossing Surface <input type="checkbox"/> 1. Sec. Timber <input type="checkbox"/> 2. Full Wd. Plank <input type="checkbox"/> 3. Asphalt <input type="checkbox"/> 4. Concrete Slab <input type="checkbox"/> 5. Concrete Pave. <input type="checkbox"/> 6. Rubber <input type="checkbox"/> 7. Metal Sections <input type="checkbox"/> 8. Other Metal <input type="checkbox"/> 9. Unconsolidated <input type="checkbox"/> 0. Other Specify</p>	<p>9. Does Track Run Down A Street? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>10. Nearby Intersecting Highway? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
--	--	---

Part IV Highway Department Information

<p>1. Highway System <input type="text"/></p> <p>2. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input type="checkbox"/> No.</p> <p>3. Functional Classification of Road over Crossing <input type="text"/></p>	<p>4. Estimate AADT <input type="text"/></p> <p>5. Estimate Percent Trucks <input type="text"/></p>	<p>I. D. Number <input type="text"/></p>
---	---	--

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 139 NO 4,883 NOT REPORTED 0

2. WAS DRIVER IN VEHICLE?
 YES 4,411 NO 603 NOT REPORTED 8

3. DRIVER WAS:
 KILLED 390 INJURED 1,376 UNINJURED 3,231 NOT REPORTED 25

4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?
 YES 370 NO 3,133 NOT REPORTED 848 N/A 671

5. DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:
 NORTH 1,265 SOUTH 1,180 EAST 1,266 WEST 1,278 NOT REPORTED 33

6. TRAIN TIMETABLE DIRECTION:
 NORTH 1,079 SOUTH 1,044 EAST 1,424 WEST 1,451 NOT REPORTED 24

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

LESS THAN ONE TRAIN PER DAY?					
YES	28,845	NO	147,725	N/R	2
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	4,366	NO	172,124	N/R	82
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	27,247	NO	149,223	N/R	102
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	166,268	NO	9,347	N/R	953
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	54,228	NO	122,343	N/R	1
IS HIGHWAY PAVED?					
YES	123,661	NO	52,911	N/R	0
IS COMMERCIAL POWER AVAILABLE?					
YES	160,322	NO	16,213	N/R	37
DOES TRACK RUN DOWN A STREET? ¹					
YES	5,292	NO	169,695	N/R	1,585
NEARBY INTERSECTING HIGHWAY? ¹					
YES	68,998	NO	105,940	N/R	1,634
RR ADVANCE WARNING SIGNS PRESENT?					
YES	101,852	NO	74,720	N/R	0
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,306	NO	174,258	N/R	8
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	27,134	NO	149,438	N/R	0
DOES CROSSING PROVIDE SPEED SELECTION?					
YES	9,254	NO	59,800	N/R	107,519

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	TYPE OF TRAIN											
	---Freight---			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	9	---	1	---	---	---	6	1	1	3	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	3	2	---	---	---	---	---	---	---	1	---	---
Arkansas.....	8	2	1	---	---	---	2	---	1	---	---	---
California.....	12	1	12	1	---	---	4	---	2	4	---	---
Colorado.....	2	---	3	---	---	---	---	---	---	---	---	---
Connecticut.....	1	---	1	3	1	4	---	---	---	---	---	---
Delaware.....	1	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	5	1	1	3	1	4	2	---	---	3	---	---
Georgia.....	7	---	---	---	---	---	3	---	---	---	---	---
Idaho.....	2	---	3	---	---	---	1	---	---	---	---	---
Illinois.....	8	2	2	---	---	---	4	---	---	4	---	1
Indiana.....	8	1	1	1	---	---	2	---	---	3	---	---
Iowa.....	5	---	3	---	---	---	3	---	---	---	---	---
Kansas.....	5	2	---	---	---	---	---	---	---	---	---	---
Kentucky.....	18	---	4	---	---	---	---	---	---	2	---	---
Louisiana.....	6	---	4	---	---	---	3	---	---	1	---	---
Maine.....	3	2	3	---	---	---	2	---	---	2	---	1
Maryland.....	3	1	1	---	---	---	1	---	---	---	---	---
Massachusetts....	1	---	---	2	---	1	---	---	---	1	---	1
Michigan.....	7	---	---	---	---	---	2	---	---	1	---	---
Minnesota.....	4	2	---	---	---	---	---	---	---	1	---	---
Mississippi.....	11	---	11	---	---	---	3	---	---	1	---	1
Missouri.....	8	---	5	3	---	---	3	---	---	1	---	1
Montana.....	8	6	1	---	---	---	---	---	---	1	---	---
Nebraska.....	4	---	1	---	---	---	1	---	---	4	---	---
Nevada.....	2	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	3	---	5	3	1	---	---	---	---	---	---	---
New Mexico.....	8	2	1	---	---	---	---	---	---	---	---	---
New York.....	7	---	5	1	---	---	---	---	---	2	---	1
North Carolina...	14	2	5	1	---	---	5	---	---	3	---	---
North Dakota.....	1	1	---	---	---	---	---	---	---	---	---	---
Ohio.....	13	1	5	---	---	---	2	---	---	1	---	1
Oklahoma.....	2	1	2	---	---	---	---	---	---	1	---	1
Oregon.....	9	---	4	---	---	---	6	---	---	2	---	1
Pennsylvania.....	8	---	3	1	---	---	4	---	1	3	---	1
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	6	---	1	---	---	---	1	---	---	---	---	---
South Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	6	1	2	---	---	---	3	---	---	3	---	1
Texas.....	28	5	11	---	---	---	4	---	---	5	---	2
Utah.....	---	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	1	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	14	3	6	1	---	---	4	1	3	3	---	2
Washington.....	11	1	---	1	---	---	8	---	1	2	---	---
West Virginia....	8	2	1	---	---	---	1	---	---	1	---	---
Wisconsin.....	6	---	4	---	---	---	1	---	---	---	---	---
Wyoming.....	1	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	297	41	113	21	3	9	81	2	9	59	---	15

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

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Nibwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama.....	---	1	---	1	8	2	---	6	18
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	1	---	---	---	2	---	---	1	4
Arkansas.....	---	1	---	1	5	1	---	2	10
California.....	3	2	---	4	4	5	1	2	21
Colorado.....	---	---	---	---	1	---	---	1	2
Connecticut.....	---	1	1	---	---	---	---	1	4
Delaware.....	---	---	---	---	---	---	1	1	4
Dist. of Columbia	---	---	---	---	---	---	---	1	1
Florida.....	---	2	---	1	8	---	1	1	13
Georgia.....	---	---	---	---	7	---	---	3	10
Idaho.....	---	---	---	---	1	---	1	1	3
Illinois.....	---	1	---	1	5	1	---	8	16
Indiana.....	---	---	---	---	4	2	---	8	14
Iowa.....	---	1	---	---	2	1	---	4	8
Kansas.....	---	---	---	---	3	---	---	2	5
Kentucky.....	---	---	---	---	8	---	1	11	20
Louisiana.....	---	2	---	1	6	1	---	5	10
Maine.....	---	---	---	---	---	1	1	---	7
Maryland.....	---	---	---	---	2	---	---	2	4
Massachusetts....	---	1	---	---	---	1	---	2	4
Michigan.....	---	---	---	---	1	2	---	7	10
Minnesota.....	---	---	---	---	1	1	1	2	5
Mississippi.....	---	---	1	2	8	---	---	4	15
Missouri.....	---	---	---	1	1	3	1	9	15
Montana.....	---	---	---	---	2	4	---	3	9
Nebraska.....	---	---	---	---	1	4	---	4	9
Nevada.....	1	---	---	---	1	---	---	---	2
New Hampshire.....	---	---	---	---	---	---	---	---	---
New Jersey.....	1	2	---	---	2	---	---	1	6
New Mexico.....	---	---	---	---	7	---	---	1	8
New York.....	---	1	1	---	---	---	1	7	10
North Carolina....	---	---	---	2	13	---	---	8	23
North Dakota.....	---	---	---	---	---	1	---	---	1
Ohio.....	---	1	---	---	5	---	---	10	16
Oklahoma.....	---	---	---	---	1	---	---	2	3
Oregon.....	---	---	2	1	5	5	---	4	17
Pennsylvania.....	1	---	---	---	3	1	---	11	16
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina....	---	1	---	---	3	---	---	3	7
South Dakota.....	---	---	---	---	---	---	---	---	---
Tennessee.....	---	---	---	---	2	---	---	10	12
Texas.....	2	---	1	1	20	4	1	8	37
Utah.....	---	---	---	---	---	---	---	---	---
Vermont.....	---	---	---	---	---	---	---	---	---
Virginia.....	---	2	---	---	---	---	---	1	1
Washington.....	1	---	1	2	6	---	---	12	22
West Virginia....	---	---	---	---	8	3	---	9	22
Wisconsin.....	1	1	---	1	3	---	1	5	10
Wyoming.....	---	---	---	---	2	---	1	1	7
Unknown.....	---	---	---	---	---	---	---	1	1
Total.....	11	20	7	20	161	43	12	184	458

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.....	218	45.42	24	48.00	74	48.37	17	52
Truck.....	157	32.71	20	40.00	44	28.76	18	31
Truck-trailer.....	79	16.46	1	2.00	20	13.07	1	13
Bus.....	1	.21	---	---	---	---	---	---
School bus.....	1	.21	---	---	8	5.23	---	1
Motorcycle.....	2	.42	1	2.00	---	---	1	---
Pedestrian.....	3	.63	1	2.00	2	1.31	1	2
Other.....	19	3.96	3	6.00	5	3.27	3	4
Total.....	480	100.00	50	100.00	153	100.00	41	103

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.....	6	---	3	---	---	---	1	---	---	4	---	---	---	---	---	11	---	3
Canilever flashrs	---	---	---	---	---	---	5	1	6	1	---	---	---	---	---	6	1	6
Standard flashers	---	---	---	1	---	---	10	1	9	3	---	2	---	---	---	14	1	11
Hwy Sig, W H, Bells	---	---	---	---	---	---	4	---	4	2	---	1	1	---	---	7	---	5
Special Devices...	---	---	---	1	---	---	15	---	---	2	---	---	2	---	---	20	---	---
Crossbucks.....	---	---	---	12	1	3	76	12	32	70	5	18	3	---	---	161	18	53
Stopsigns.....	---	---	---	2	---	1	29	6	12	9	1	3	3	1	---	43	8	16
Other Signs.....	---	---	---	---	---	---	7	---	4	5	---	4	---	---	---	12	---	8
No Signs Or Signl	---	---	---	9	---	1	98	10	28	70	7	12	7	1	3	184	18	44
Total.....	6	---	3	25	1	5	245	30	95	166	13	40	16	2	3	458	46	146

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

TABLE D-5. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE 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.....	2	---	---	81	---	9	2	---	---	30	---	4	115	---	13
10-19.....	---	---	---	39	2	6	2	---	---	14	---	5	55	2	11
20-29.....	---	---	---	31	1	19	2	---	---	11	---	6	44	1	25
30-39.....	4	1	3	40	4	22	3	---	3	13	---	1	60	5	29
40-49.....	4	2	2	46	16	27	2	2	---	20	3	6	72	23	35
50-59.....	1	---	---	13	5	4	---	---	---	15	2	8	29	7	12
60-69.....	1	---	---	12	2	7	1	---	---	5	1	1	19	3	8
70-79.....	---	---	---	4	1	5	---	---	---	---	---	---	4	1	5
80-89.....	---	---	---	1	1	---	---	---	---	---	---	---	1	1	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	12	3	5	267	32	99	12	2	3	108	6	31	399	43	138
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	7	---	1	7	---	1
1-9.....	---	---	---	16	---	2	---	---	---	10	1	---	26	1	2
10-19.....	---	---	---	2	---	---	---	---	---	4	---	2	6	---	2
20-29.....	---	---	---	3	---	1	---	---	---	3	1	2	6	1	3
30-39.....	---	---	---	3	---	---	---	---	---	---	---	---	3	---	---
40-49.....	---	---	---	6	---	---	---	---	---	2	---	---	8	---	---
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60-69.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
70-79.....	---	---	---	---	---	---	2	1	---	---	---	---	2	1	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	---	---	---	31	---	3	2	1	---	26	2	5	59	3	8
GRAND TOTAL															
Standing.....	---	---	---	---	---	---	---	---	---	7	---	1	7	---	1
1-9.....	2	---	---	97	---	11	2	---	---	40	1	4	141	1	15
10-19.....	---	---	---	41	2	6	2	---	---	18	---	7	61	2	13
20-29.....	---	---	---	34	1	20	2	---	---	14	1	8	50	2	28
30-39.....	4	1	3	43	4	22	3	---	3	13	---	1	63	5	29
40-49.....	4	2	2	52	16	27	2	2	---	22	3	6	80	23	35
50-59.....	1	---	---	13	5	4	---	---	---	15	2	8	29	7	12
60-69.....	1	---	---	13	2	7	1	---	---	5	1	1	20	3	8
70-79.....	---	---	---	4	1	5	2	1	---	---	---	---	6	2	5
80-89.....	---	---	---	1	1	---	---	---	---	---	---	---	1	1	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	12	3	5	298	32	102	14	3	3	134	8	36	458	46	146

TABLE D-6. ACCIDENTS/INCIDENTS AT PRIVATE 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
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	---	1	---	---	5	2	---	6	14
Atchison, Topeka And Santa Fe Railway Co.	2	---	---	---	14	---	---	3	19
Bessemer & Lake Erie Railroad Company	---	---	---	---	---	---	---	1	1
Buffalo & Pittsburgh Railroad, Inc.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Company	---	---	---	2	12	13	1	32	61
Central Michigan Railway Company	1	---	---	---	---	---	---	---	---
Chesapeake & Albemarle Railroad Company	---	---	---	---	2	---	---	---	2
Chicago And North Western Transportation	---	1	---	---	1	---	1	---	3
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	1	1
Consolidated Rail Corporation	---	3	1	---	7	3	2	19	35
CSX Transportation	---	4	---	2	32	2	1	25	66
Dakota, Minnesota & Eastern Railroad	---	---	---	---	1	---	---	---	1
Delaware And Hudson Railroad Company	---	1	---	---	---	---	---	2	3
Denver And Rio Grande Western Railroad Co.	---	---	---	---	1	---	---	---	1
Detroit And Mackinac Railway Company	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Company	---	---	---	---	---	1	---	2	3
Escanaba And Lake Superior Railroad Co.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company	---	1	---	---	---	---	---	---	1
Fox River Valley Railroad Corporation	---	---	---	---	---	---	---	---	---
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Georgia Southwestern Railroad Division	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	---	---	---	---	---	---	---	---	---
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	---	---	---	---	---	---	---	---	---
Huron & Eastern Railway	---	---	---	---	1	---	---	---	1
Illinois Central Railroad Company	---	---	1	---	4	---	---	2	7
Indiana Harbor Belt Railroad Company	---	---	---	---	---	---	---	1	1
Indiana Hi-rail Corporation	---	---	---	---	---	---	---	---	---
Indiana Rail Road Company	---	---	---	---	1	---	---	---	1
Iowa Interstate Railroad	---	---	---	---	1	---	---	1	2
Kansas City Southern Railway Company	---	---	---	1	3	1	---	1	6
Kiamichi Railroad Company, Inc.	---	---	---	---	---	---	---	---	---
Long Island Rail Road	---	---	---	---	---	---	---	2	2
Louisiana & Arkansas Railway Company	---	---	---	---	5	---	---	---	5
Louisiana & Delta Railroad	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Company	---	1	1	---	---	---	---	---	2
Midsouth Rail Corporation	---	---	---	---	2	---	---	1	3
Monongahela Railway Company	---	---	---	---	---	---	---	2	2
Montana Rail Link	---	---	---	---	2	---	---	1	3
Nashville & Eastern Railroad	---	---	---	---	---	---	---	---	---
New Jersey Transit Rail Operations	1	---	---	---	2	---	---	---	3
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	---	1	---	3	5	2	1	20	32
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	1	1
Paducah & Louisville Railway Company	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Association	---	---	---	---	1	---	---	---	1
Red River Valley & Western Railroad	---	---	---	---	---	---	---	---	---
Soo Line Railroad Company	---	---	---	1	1	---	---	2	4
Southeastern Pennsylvania Transportation	1	---	---	---	---	---	---	---	1
Southern Pacific Transportation Company	4	3	2	5	7	8	2	5	36
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	---	1	1
Southern Railway Company	---	1	---	1	13	---	1	27	43
Southrail Corporation	---	---	---	---	3	---	---	---	3
Springfield Terminal Railway Company	---	---	---	---	---	1	---	5	6
St. Lawrence & Atlantic Railroad Company	---	---	---	---	---	---	1	1	2
St. Louis Southwestern Railway Company	---	---	---	---	5	1	---	1	7
Terminal Railroad Association Of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Company	---	---	---	---	1	---	---	---	1
Toldeo, Peoria And Western Railroad	---	---	---	---	---	---	---	2	2
Union Belt Of Detroit	---	---	---	---	---	---	---	1	1
Union Pacific Railroad Company	1	2	1	---	21	5	1	7	38
UTSZ Transit Service, Incorporated	---	---	---	---	---	---	---	---	---
Visalia Electric Railroad Company	---	---	---	---	---	---	---	---	---
Washington Central Railroad Company	---	---	---	---	---	---	---	---	---
Winchester And Western Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin Calumet Railroad	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	---	---	---	---	2	---	1	1	4
All Other Railroads.....	1	1	1	5	7	4	---	8	27
Total.....	11	20	7	20	161	43	12	184	458

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-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
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	14	2	5	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Railway Co.	19	3	7	2	1	---	16	3	5
Bessemer & Lake Erie Railroad Company	---	---	---	---	---	---	19	3	7
Buffalo & Pittsburgh Railroad, Inc.	1	---	---	---	---	---	1	---	---
Burlington Northern Railroad Company	61	10	14	2	1	1	63	11	15
Central Michigan Railway Company	---	---	---	---	---	---	---	---	---
Chesapeake & Albemarle Railroad Company	2	---	2	---	---	---	2	---	2
Chicago And North Western Transportation	3	---	2	---	---	---	3	---	2
Chicago, Central & Pacific Railroad Co.	1	---	---	---	---	---	1	---	---
Consolidated Rail Corporation	35	1	10	4	1	2	39	2	12
CSX Transportation	66	5	15	1	---	---	67	5	15
Dakota, Minnesota & Eastern Railroad	1	---	---	---	---	---	1	---	---
Delaware And Hudson Railroad Company	3	---	3	---	---	---	3	---	3
Denver And Rio Grande Western Railroad Co.	---	---	---	---	---	---	---	---	---
Detroit And Mackinac Railway Company	---	---	---	---	---	---	1	---	---
Elgin, Joliet And Eastern Railway Company	3	---	---	---	---	---	---	---	---
Esplanade And Lake Superior Railroad Co.	---	---	---	---	---	---	3	---	---
Florida East Coast Railway Company	1	---	---	---	---	---	---	---	---
Fox River Valley Railroad Corporation	---	---	---	1	---	---	1	---	---
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Georgia Southwestern Railroad Division	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	---	---	---	---	---	---	---	---	---
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	---	---	---	---	---	---	---	---	---
Huron & Eastern Railway	1	---	---	---	---	---	1	---	---
Illinois Central Railroad Company	7	---	12	2	---	1	9	---	13
Indiana Harbor Belt Railroad Company	1	---	---	---	---	---	1	---	---
Indiana Hi-Rail Corporation	---	---	---	---	---	---	---	---	---
Indiana Rail Road Company	---	---	---	---	---	---	---	---	---
Iowa Interstate Railroad	2	---	---	---	---	---	---	---	---
Kansas City Southern Railway Company	6	---	2	1	---	---	7	---	2
Kiamichi Railroad Company, Inc.	---	---	---	---	---	---	---	---	---
Long Island Rail Road	2	---	---	---	---	---	---	---	---
Louisiana & Arkansas Railway Company	5	---	2	---	---	---	5	---	2
Louisiana & Delta Railroad	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Company	2	---	4	---	---	---	2	---	4
Midsouth Rail Corporation	3	---	---	---	---	---	3	---	---
Monongahela Railway Company	2	---	---	---	---	---	2	---	---
Montana Rail Link	3	1	1	---	---	---	3	1	1
Nashville & Eastern Railroad	---	---	---	---	---	---	---	---	---
New Jersey Transit Rail Operations	3	1	---	---	---	---	3	1	---
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	32	4	13	---	---	---	32	4	13
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Company	1	---	---	---	---	---	1	---	---
Port Terminal Railroad Association	1	---	1	---	---	---	1	---	1
Red River Valley & Western Railroad	---	---	---	---	---	---	---	---	---
Soo Line Railroad Company	4	---	1	3	1	1	7	1	2
Southeastern Pennsylvania Transportation	1	---	---	---	---	---	1	---	---
Southern Pacific Transportation Company	36	2	20	---	---	---	36	2	20
Southern Pacific, Chicago-St. Louis Corp.	1	---	1	---	---	---	1	---	1
Southern Railway Company	43	4	6	1	---	---	44	4	6
Southrail Corporation	3	---	1	---	---	---	3	---	1
Springfield Terminal Railway Company	6	---	1	---	---	---	6	---	1
St. Lawrence & Atlantic Railroad Company	2	---	2	---	---	---	2	---	2
St. Louis Southwestern Railway Company	7	3	2	---	---	---	7	3	2
Terminal Railroad Association Of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Company	1	---	---	---	---	---	1	---	---
Toldeo, Peoria And Western Railroad	2	1	1	---	---	---	2	1	1
Union Belt Of Detroit	1	---	---	---	---	---	1	---	---
Union Pacific Railroad Company	38	5	10	2	---	2	40	5	12
UTSZ Transit Service, Incorporated	---	---	---	---	---	---	---	---	---
Visalia Electric Railroad Company	---	---	---	---	---	---	---	---	---
Washington Central Railroad Company	---	---	---	---	---	---	---	---	---
Winchester And Western Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin Calumet Railroad	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	4	1	2	---	---	---	4	1	2
All Other Railroads.....	27	3	6	3	---	---	30	3	6
Total.....	458	46	146	22	4	7	480	50	153

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.

APPENDIX E. TRESPASSER CASUALTIES

APPENDIX E: TRESPASSER CASUALTIES

A person on a rail-highway crossing is classified as a trespasser whenever the crossing is protected by gates, or other similar barriers that were closed when the person went on the crossing. Individuals attempting to pass over, under or between rail equipment occupying a crossing are also classified as trespassers. Persons who are on a part of railroad property used in railroad operation and whose presence is prohibited, forbidden, or unlawful are identified as trespassers in other situations.

TABLE E-1. TRESPASSER CASUALTIES BY YEAR

YEAR	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
1985	474	734	83	242	391	492
1986	519	706	121	246	398	460
1987	584	673	131	227	453	446
1988	598	920	150	358	448	562
1989	641	898	200	370	441	528
1990	700	793	157	233	543	560

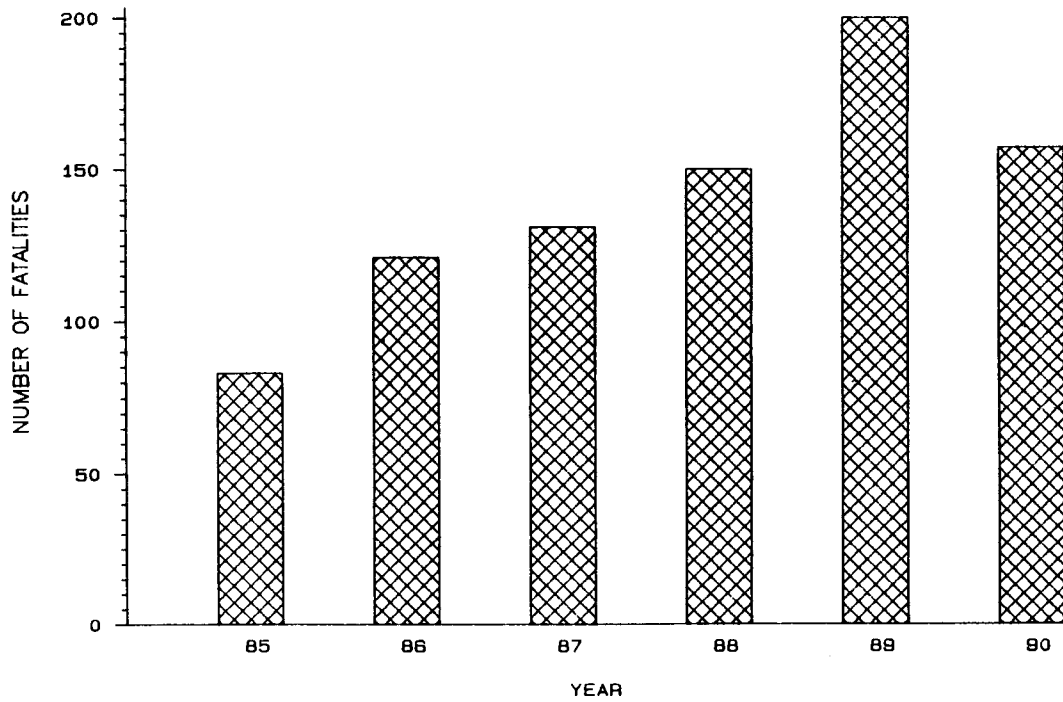


FIGURE 37. TRESPASSER FATALITIES AT RAIL—HIGHWAY CROSSING, BY YEAR

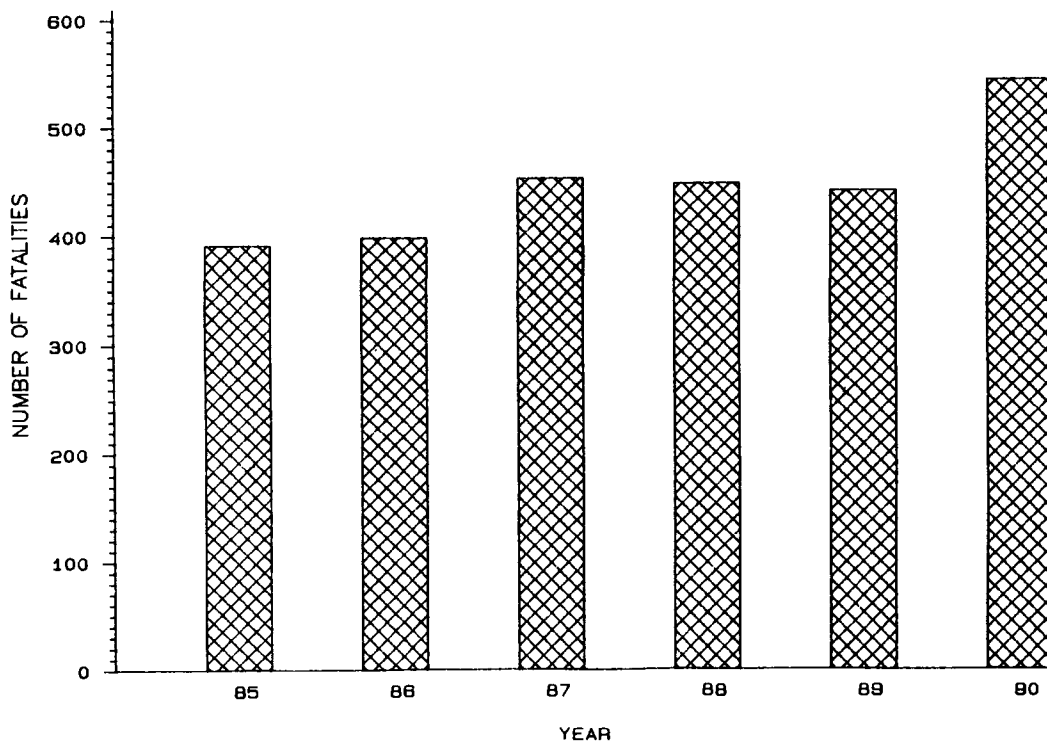


FIGURE 38. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSING, BY YEAR

TABLE E-2. 1990 TRESPASSER CASUALTIES BY MONTH

MONTH	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
January	55	61	20	26	35	35
February	50	41	12	14	38	27
March	50	83	12	31	38	52
April	57	62	16	18	41	44
May	55	67	11	9	44	58
June	69	74	13	23	56	51
July	60	67	6	8	54	59
August	81	80	17	22	64	58
September	56	65	11	13	45	52
October	62	69	12	21	50	48
November	52	68	11	28	41	40
December	53	56	16	20	37	36
FINAL TOTALS	700	793	157	233	543	560

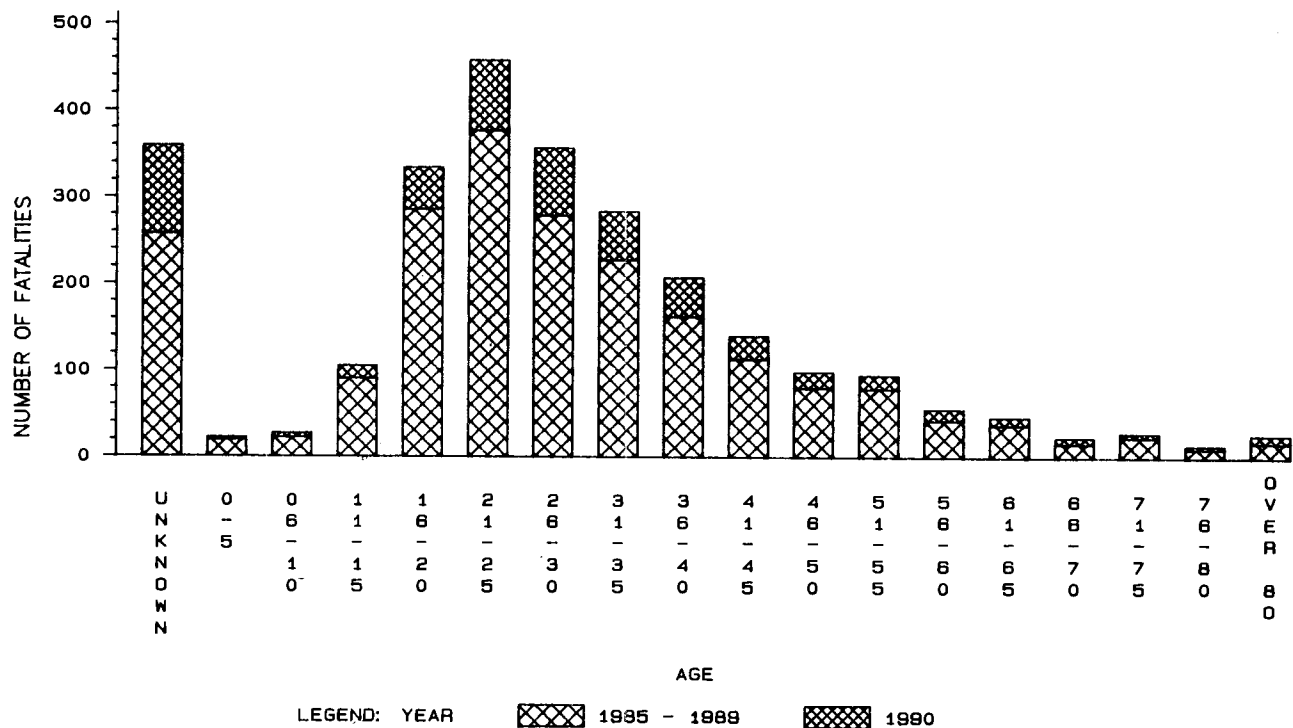


FIGURE 39. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSINGS, BY AGE GROUP

TABLE E-3. TRESPASSER CASUALTIES BY RAILROAD

RAILROAD	TOTAL		AT RAIL-HIGHWAY		NOT AT RAIL-HWY	
	KILLED	INJURED	GRADE	CROSSING	GRADE	CROSSING
			KILLED	INJURED	KILLED	INJURED
ATLANTIC AND EAST CAROLINA RAILWAY	0	2	0	0	0	2
ALABAMA GREAT SOUTHERN RAILROAD	3	0	1	0	2	0
ALTON & SOUTHERN RAILROAD	0	2	0	0	0	2
ALASKA RAILROAD CORPORATION	0	1	0	0	0	1
AMTRAK (NATIONAL RAILROAD PASSENGER CORPORATION)	93	48	29	21	64	27
ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY	27	46	0	0	27	46
AROOSTOOK VALLEY RAILROAD COMPANY	0	1	0	1	0	0
BESSEMER & LAKE ERIE RAILROAD COMPANY	0	1	0	0	0	1
BURLINGTON NORTHERN RAILROAD COMPANY	69	56	10	13	59	43
CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	1	1	0	0	1	1
CENTRAL OF GEORGIA RAILROAD COMPANY	4	2	0	0	4	2
CHEHALIS WESTERN	0	1	0	0	0	1
CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RAILWAY	5	2	0	0	5	2
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY	20	21	6	14	14	7
CONSOLIDATED RAIL CORPORATION	60	77	16	30	44	47
CAROLINA AND NORTHWESTERN RAILWAY COMPANY	2	1	0	0	2	1
CHICAGO SOUTHSHORE & SOUTH BEND RAILROAD	0	2	0	1	0	1
CSX TRANSPORTATION	70	93	11	37	59	56
D & H CORPORATION	2	4	0	1	2	3
FLORIDA EAST COAST RAILWAY COMPANY	25	27	12	17	13	10
FOX RIVER VALLEY RAILROAD CORPORATION	1	2	0	0	1	2
GEORGIA SOUTHERN & FLORIDA COMPANY	1	2	0	0	1	2
GRAND TRUNK WESTERN RAILROAD COMPANY	2	4	1	0	1	4
HOUSTON BELT & TERMINAL RAILWAY COMPANY	0	3	0	1	0	2
ILLINOIS CENTRAL RAILROAD COMPANY	4	4	0	0	4	4
INDIANA HARBOR BELT RAILROAD COMPANY	1	7	0	5	1	2
KANSAS CITY SOUTHERN RAILWAY COMPANY	3	1	0	0	3	1
KANSAS CITY TERMINAL RAILWAY COMPANY	0	1	0	0	0	1
LOUISIANA & ARKANSAS RAILWAY COMPANY	0	3	0	0	0	3
LONG ISLAND RAIL ROAD	19	12	6	1	13	11
METRO NORTH COMMUTER RAILROAD COMPANY	13	6	4	2	9	4
MONTANA RAIL LINK	0	1	0	0	0	1
MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	0	1	0	0	0	1
MIDSOUTH RAIL CORPORATION	1	3	0	0	1	3
NORTHEAST ILLINOIS REGIONAL COMMUTER RAIL CORPORAT	5	12	3	6	2	6
NEW JERSEY TRANSIT RAIL OPERATIONS	27	14	5	1	22	13
NEW ORLEANS TERMINAL COMPANY	0	3	0	0	0	3
NORFOLK AND PORTSMOUTH BELT LINE RAILROAD COMPANY	0	1	0	0	0	1
NORFOLK AND WESTERN RAILWAY COMPANY	27	34	8	10	19	24
NORTHWESTERN PACIFIC RAILROAD COMPANY	0	2	0	0	0	2
NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD CORPORA	2	1	0	1	2	0
PROVIDENCE AND WORCESTER RAILROAD COMPANY	1	0	0	0	1	0
RICHMOND, FREDERICKSBURG & POTOMAC RAILROAD COMPAN	0	1	0	0	0	1
SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	0	1	0	0	0	1
SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY	6	8	0	0	6	8
SOO LINE RAILROAD COMPANY	8	14	4	5	4	9
SOUTHERN RAILWAY COMPANY	42	43	2	4	40	39
SOUTHERN PACIFIC TRANSPORTATION COMPANY	64	74	13	19	51	55
SOUTHRAIL CORPORATION	1	1	0	1	1	0
SAND SPRINGS RAILWAY COMPANY	0	1	0	0	0	1
ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	9	14	4	6	5	8
SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORATION (S	1	2	0	0	1	2
SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMONT)	2	3	1	0	1	3
TEXAS MEXICAN RAILWAY COMPANY	0	1	0	0	0	1
TEXAS, OKLAHOMA AND EASTERN RAILROAD COMPANY	0	2	0	0	0	2
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	0	1	0	0	0	1
UNION PACIFIC RAILROAD COMPANY	76	118	21	33	55	85
UTDC TRANSIT SERVICE, INCORPORATED	1	1	0	1	1	0
WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	0	1	0	0	0	1
WASHINGTON CENTRAL RAILROAD COMPANY	1	0	0	0	1	0
WHEELING & LAKE ERIE RAILWAY COMPANY	1	0	0	0	1	0
WINCHESTER AND WESTERN RAILROAD COMPANY	0	2	0	2	0	0
FINAL TOTALS	700	793	157	233	543	560

TABLE E-4. TRESPASSER CASUALTIES BY STATE

STATE	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
Alabama	8	7	2	2	6	5
Alaska	0	1	0	0	0	1
Arizona	15	18	1	2	14	16
Arkansas	9	14	3	2	6	12
California	88	87	25	17	63	70
Colorado	3	6	1	2	2	4
Connecticut	9	5	5	2	4	3
Delaware	1	4	0	2	1	2
Dist Of Columbia	1	0	0	0	1	0
Florida	57	58	24	36	33	22
Georgia	16	17	0	5	16	12
Idaho	3	1	0	1	3	0
Illinois	52	74	17	31	35	43
Indiana	26	33	11	18	15	15
Iowa	4	10	2	5	2	5
Kansas	4	10	2	3	2	7
Kentucky	12	15	0	1	12	14
Louisiana	11	20	0	2	11	18
Maine	1	1	1	1	0	0
Maryland	11	3	0	0	11	3
Massachusetts	8	15	0	4	8	11
Michigan	10	17	2	13	8	4
Minnesota	8	7	2	1	6	6
Mississippi	9	4	0	2	9	2
Missouri	13	13	5	3	8	10
Montana	9	4	1	0	8	4
Nebraska	8	10	2	4	6	6
Nevada	4	2	1	0	3	2
New Jersey	36	27	6	4	30	23
New Mexico	1	8	0	1	1	7
New York	43	38	12	8	31	30
North Carolina	28	20	1	0	27	20
North Dakota	3	3	2	0	1	3
Ohio	25	25	8	12	17	13
Oklahoma	6	7	1	0	5	7
Oregon	16	6	2	1	14	5
Pennsylvania	29	26	2	5	27	21
Rhode Island	3	0	0	0	3	0
South Carolina	12	18	3	1	9	17
Tennessee	8	8	0	1	8	7
Texas	47	90	11	29	36	61
Utah	4	7	1	2	3	5
Virginia	10	17	0	4	10	13
Washington	20	16	0	1	20	15
West Virginia	4	8	0	1	4	7
Wisconsin	5	12	1	4	4	8
Wyoming	0	1	0	0	0	1
FINAL TOTALS	700	793	157	233	543	560