

Thomas P. Wolf



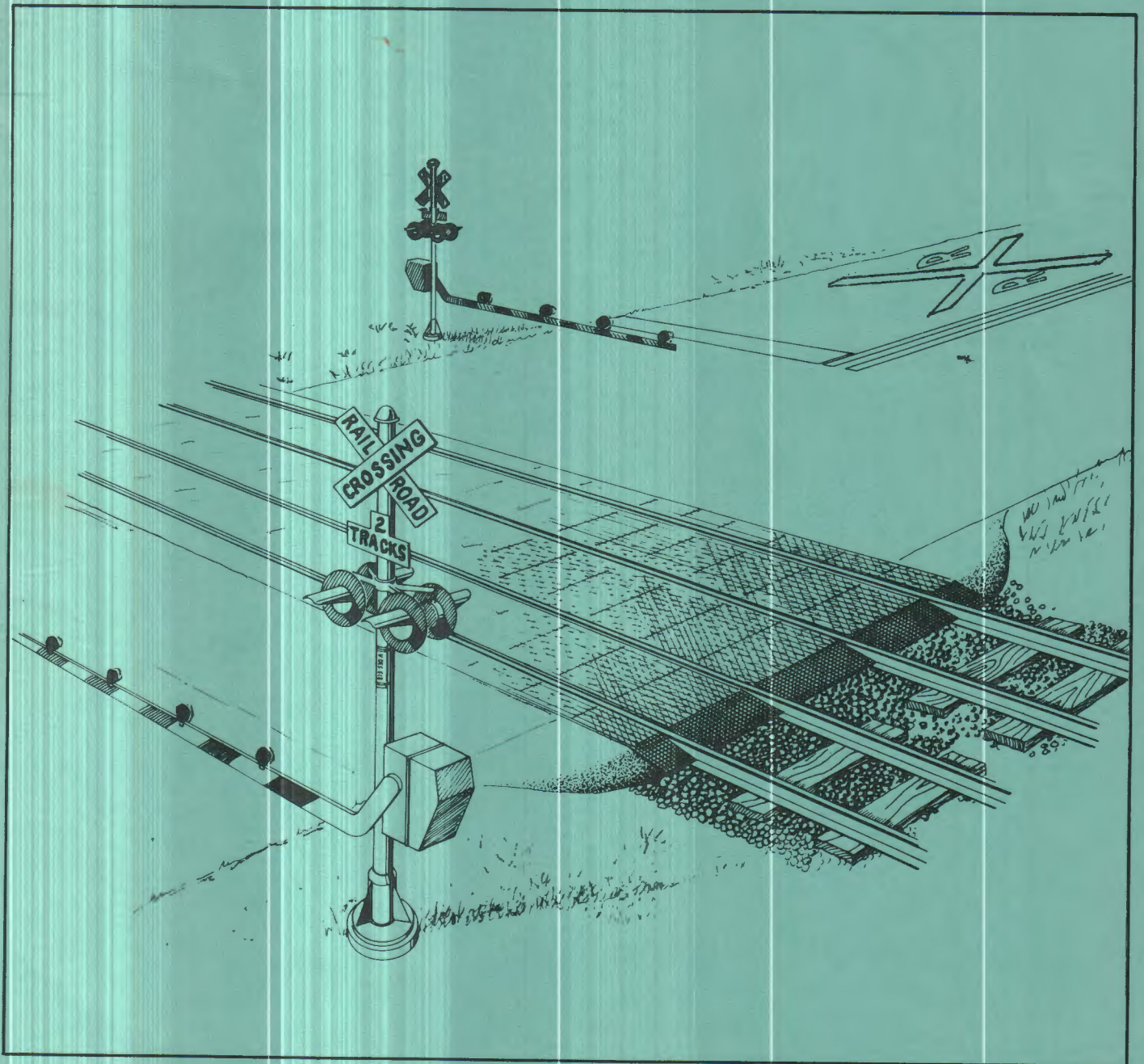
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TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
INTRODUCTION.	1
1. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS; HISTORICAL DATA LAST SIX YEARS	3
2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS (1991).	5
State and Railroad Data.	5
Highway User and Vehicle Data.	12
Train and Track Data	20
Warning Device Data.	26
Time, Day, and Weather Data.	30
Motorist Action Data	33
3. RAIL-HIGHWAY CROSSING ACCIDENT RATES.	34
4. CURRENT YEAR RAIL-HIGHWAY CROSSING INVENTORY.	45
Physical Characteristics	45
Track Data	50
Highway System Data.	53
Warning Device Data.	59
Operational Characteristics.	66
Train Traffic Data	66
Train Speed Data	71
Highway Traffic Data	72
APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS.	A-1
APPENDIX B: REPORTING FORMS	B-1
APPENDIX C: MISCELLANEOUS DATA.	C-1
APPENDIX D: ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS.	D-1
APPENDIX E: TRESPASSER CASUALTIES.	E-1

LIST OF TABLES

<u>Table</u>	<u>Page</u>
S SUMMARY OF RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS, 1991	2
1 SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS	3
2 SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES, LAST SIX YEARS	4
3 SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE.	5
4 ACCIDENTS/INCIDENTS AND CASUALTY RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE.	6
5 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF MOTOR VEHICLE.	7
6 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF TRAIN.	8
7 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD AND WARNING DEVICE CATEGORY	9
7a ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD	10
8 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND WARNING DEVICE CATEGORY.	11
9 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER.	14
10 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE	14
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.	15
12 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY.	16
13 CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON INVOLVED, TYPE OF HIGHWAY USER, AND CIRCUMSTANCE.	17
14 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY.	18

LIST OF TABLES (continued)

<u>Table</u>	<u>Page</u>
15 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY POSITION AND TYPE OF VEHICLE. . . .	19
16 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN, CIRCUMSTANCE, AND VISIBILITY.	20
17 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD EQUIPMENT INVOLVED, PART OF TRAIN STRUCK, CIRCUMSTANCE, AND VISIBILITY.	22
18 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRAIN SPEED AND TYPE OF TRAIN . . .	22
19 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY NUMBER OF CARS IN TRAIN AND TYPE OF TRAIN.	23
20 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION	24
21 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRACK TYPE AND TRACK CLASS.	25
22 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION	26
23 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE AND OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE, AND VISIBILITY.	28
24 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES DURING DUSK AND DARK HOURS BY ILLUMINATION OF CROSSING AND CIRCUMSTANCE	28
25 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY LOCATION AND TYPE OF WARNING DEVICE, CIRCUMSTANCE AND VISIBILITY.	29
26 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY VISIBILITY AND CIRCUMSTANCE	30
27 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TEMPERATURE, CIRCUMSTANCE, AND VISIBILITY	30
28 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TIME OF DAY AND CIRCUMSTANCE.	31

LIST OF TABLES (continued)

<u>Table</u>	<u>Page</u>
29 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE.	31
30 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WEATHER CONDITIONS, CIRCUMSTANCE, AND VISIBILITY.	32
31 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY OBSTRUCTION OF MOTORISTS' VIEW, CIRCUMSTANCE, AND VISIBILITY.	33
32 ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MOTORISTS ACTION AND TYPE OF VEHICLE.	33
33 TOTAL PUBLIC AND PRIVATE CROSSINGS BY STATE AND TYPE.	45
34 TOTAL PUBLIC AND PRIVATE CROSSINGS BY CLASS I RAILROAD AND TYPE.	46
35 TOTAL CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL.	47
36 TOTAL CROSSINGS BY NUMBER OF MAIN AND OTHER TRACKS.	50
37 TOTAL CROSSINGS BY NUMBER OF TRACK AND WARNING DEVICE CATEGORY.	51
38 TOTAL CROSSINGS BY NUMBER OF TRACKS AND TRAFFIC LANES	51
39 TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE.	52
40 TOTAL CROSSINGS BY TYPE OF HIGHWAY SYSTEM AND STATE	53
41 TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE	54
42 TOTAL CROSSINGS BY FUNCTIONAL CLASSIFICATION OF ROAD AT RAIL-HIGHWAY CROSSING.	55
43 TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND STATE.	56
44 TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND WARNING DEVICE CATEGORY.	57
45 TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE.	59
46 TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD	60
47 TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE.	62
48 TOTAL CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE	63
49 TOTAL CROSSINGS MEETING THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' STANDARD FOR CROSSBUCKS BY STATE	64

LIST OF TABLES (continued)

<u>Table</u>	<u>Page</u>
50 TOTAL CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY	66
51 TOTAL CROSSINGS BY NUMBER OF THRU TRAINS AND SWITCHING TRAINS PER DAY	68
52 TOTAL CROSSINGS BY NUMBER OF DAY AND NIGHT TRAINS PER DAY.	68
53 TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE . . .	69
54 TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC	70
55 TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED	71
56 TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION.	71
57 TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC	72
58 TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY	73
59 TOTAL CROSSINGS BY TRUCK TRAFFIC AS A PERCENTAGE OF ANNUAL AVERAGE DAILY TRAFFIC	74
60 TOTAL CROSSINGS BY CROSSING SURFACE	75
61 TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED, WARNING DEVICE CATEGORY NUMBER OF TRACKS	76
C-1 MISCELLANEOUS DATA RECEIVED FROM THE RAIL-HIGHWAY CROSSINGS ACCIDENT/INCIDENT REPORTS	C-2
C-2 MISCELLANEOUS DATA RECEIVED FROM DOT-AAR INVENTORY FORMS.	C-3
D-1 ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND TYPE OF TRAIN	D-2
D-2 ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND WARNING DEVICE CATEGORY.	D-3
D-3 ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS BY TYPE OF ROADWAY USER.	D-4
D-4 ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORISTS ACTION.	D-4
D-5 ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN, CIRCUMSTANCE AND VISIBILITY.	D-5
D-6 ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS INVOLVING MOTOR VEHICLES BY RAILROAD AND WARNING DEVICE CATEGORY	D-6
D-7 ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS BY RAILROAD.	D-7

LIST OF TABLES (continued)

<u>Table</u>	<u>Page</u>
E-1 TRESPASSER CASUALTIES BY YEAR	E-1
E-2 1991 TRESPASSER CASUALTIES BY MONTH	E-3
E-3 1991 TRESPASSER CASUALTIES BY RAILROAD.	E-4
E-4 1991 TRESPASSER CASUALTIES BY STATE	E-5

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1 SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS	3
2 SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES, LAST SIX YEARS	4
3 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER.	12
4 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE.	13
5 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN.	21
6 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY	27
7 ACCIDENTS/INCIDENTS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT).	32
8 CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL	34
9 CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT.	34
10 CROSSING ACCIDENT RATE BY NUMBER OF TRACKS.	35
11 CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS	35
12 CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM.	36
13 CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD.	37
14 CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD.	37
15 CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE.	38
16 CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES	38
17 CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE	39
18 CROSSING ACCIDENT RATE BY CROSSING SURFACE.	39
19 CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY.	40
20 CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6 AM TO 6 PM)	40

LIST OF FIGURES (continued)

<u>Figure</u>	<u>Page</u>
21 CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED.	41
22 CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC.	42
23 CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC	43
24 CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY	44
25 CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL.	48
26 CROSSINGS BY TYPE OF DEVELOPMENT.	49
27 CROSSINGS BY NUMBER OF TRACKS	50
28 CROSSINGS BY NUMBER OF TRAFFIC LANES.	58
29 CROSSINGS BY WARNING DEVICE CATEGORY.	61
30 CROSSINGS BY SMALLEST CROSSING ANGLE.	65
31 CROSSINGS BY CROSSING SURFACE	65
32 CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY	66
33 CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY.	67
34 CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT).	70
35 CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC	72
36 CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY.	73
37 TRESPASSER FATALITIES AT RAIL-HIGHWAY CROSSINGS, BY YEAR	E-2
38 TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSINGS, BY YEAR. . .	E-2
39 TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSINGS, BY AGE GROUPS	E-3

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 fourteenth 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 1986 through 1991.

Section 2 contains 1991 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 May 22, 1992.

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.

1992 ACCIDENT PREDICTION AND 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 1990 and was published in Bulletin No. 12.

The process of determining the three (3) new normalizing constants for 1992 is performed so that the sum of the December 1991, predictions using only accident history data for Calendar Years 1986 to 1990 for the top 20 percent of each of the three classes of crossings (gates, flashing lights, passive) for the respective three formulas is made equal to the actual number of accidents that occurred for those same crossings in 1991. This process is performed for each of the three warning device groups, (1) passive, (2) flashing lights, and (3) gates.

These constants were redetermined for the "national" model using the crossings in the inventory as of December 31, 1991. Organizations using the "DOT Model" should update their 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 and in RESAL.NEW on page B-3, Appendix B1.

These new constants will be used in fulfilling requests for accident prediction and resource allocation procedure listings. The table below lists the new and prior constants.

ACCIDENT PREDICTION AND RESOURCE ALLOCATION
PROCEDURE NORMALIZING CONSTANTS

WARNING DEVICE GROUPS	NEW 1992	PRIOR YEARS		
		1990	1988	1986
(1) Passive	.8239	.9417	.8778	.8644
(2) Flashing Lights	.6935	.8345	.8013	.8887
(3) Gates	.6714	.8901	.8911	.8131

TABLE — S
SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1991

12 MOS. 1991	THE NATION								
	TOTAL			MOTOR VEHICLES			NON-MOTOR VEHICLES		
	ACCI	FATAL	INJ	ACCI	FATAL	INJ	ACCI	FATAL	INJ
PUBLIC	4,861	565	1,923	4,677	497	1,866	184	68	57
PRIVATE	525	43	171	495	38	163	30	5	8
TOTAL	5,386	608	2,094	5,172	535	2,029	214	73	65

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 ACCIDENTSTOTAL.....			CASUALTY PER ACCIDENT
		KILLED	INJURED	CASUALTIES	
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
1991	4,861	565	1,923	2,488	0.51

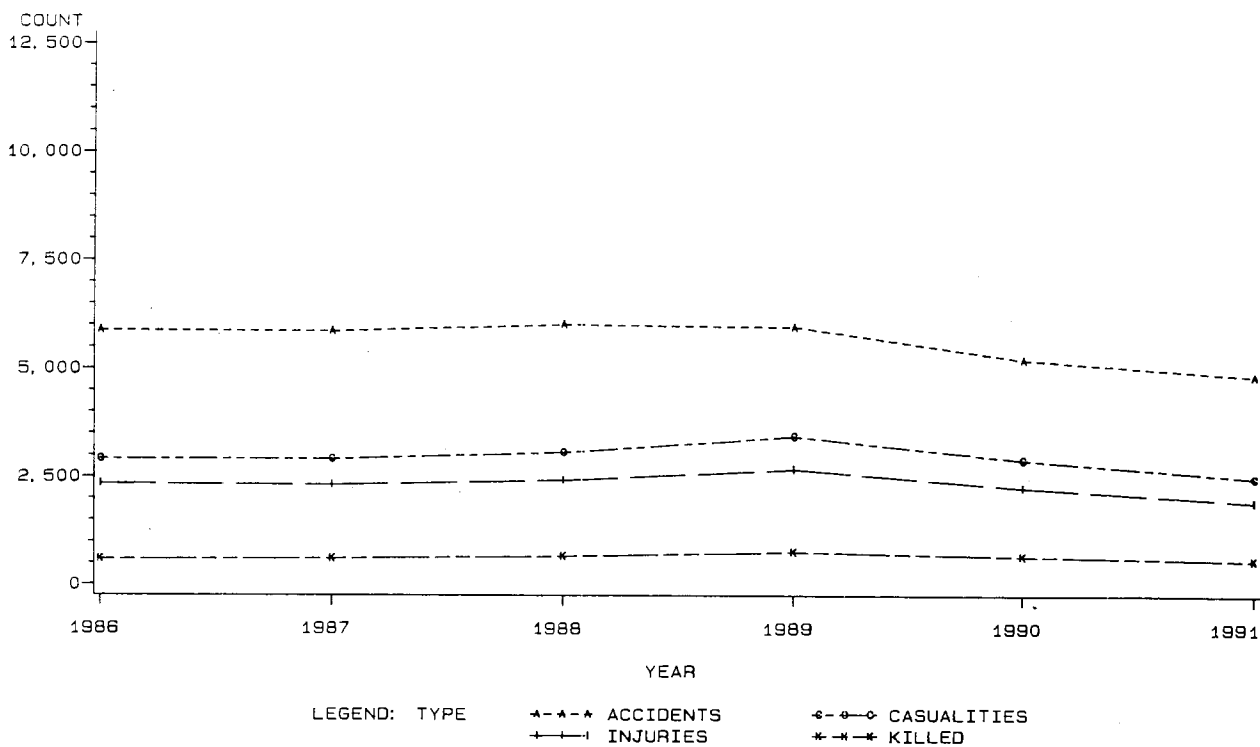


FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

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
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	192,123	26.14
1991	4,677	194,077	24.10

1Figures supplied by the Federal Highway Administration

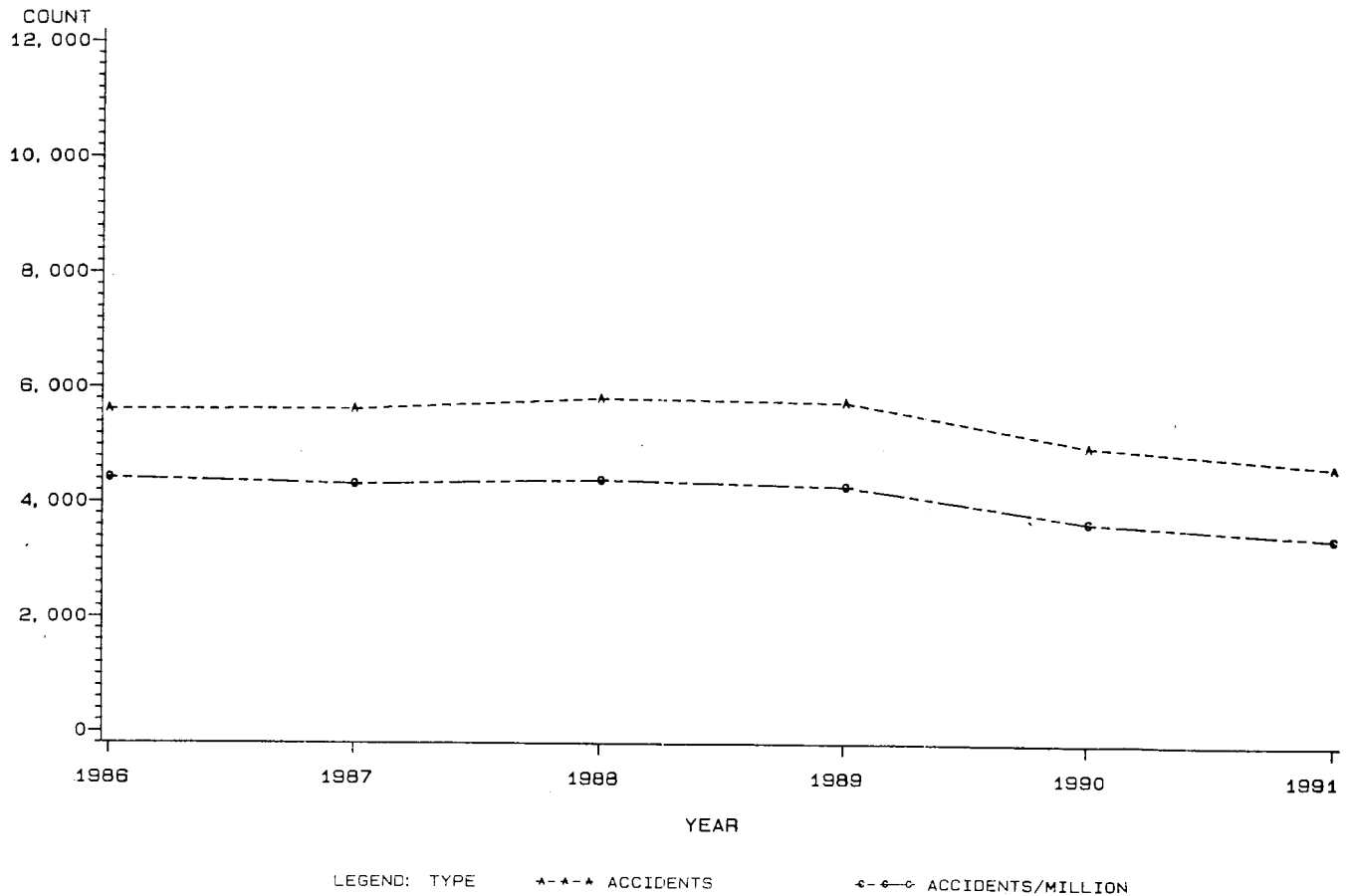


FIGURE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, LAST SIX YEARS

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1991

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.....	199	18	3.19	62	3.22	80	3.22
Alaska.....	8	2	.35	1	.05	3	.12
Arizona.....	27	2	.35	10	.52	12	.48
Arkansas.....	127	23	4.07	50	2.60	73	2.93
California.....	207	27	4.78	89	4.63	116	4.66
Colorado.....	45	3	.53	19	.99	22	.88
Connecticut.....	9	1	.18	2	.10	3	.12
Delaware.....	8	---	---	1	.05	1	.04
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	116	26	4.60	40	2.08	66	2.65
Georgia.....	184	28	4.96	73	3.80	101	4.06
Idaho.....	57	6	1.06	28	1.46	34	1.37
Illinois.....	301	43	7.61	149	7.75	192	7.72
Indiana.....	275	30	5.31	97	5.04	127	5.10
Iowa.....	156	8	1.42	69	3.59	77	3.09
Kansas.....	102	8	1.42	31	1.61	39	1.57
Kentucky.....	83	7	1.24	30	1.56	37	1.49
Louisiana.....	239	5	.88	128	6.66	133	5.35
Maine.....	15	1	.18	4	.21	5	.20
Maryland.....	17	---	---	3	.16	3	.12
Massachusetts....	13	1	.18	10	.52	11	.44
Michigan.....	186	17	3.01	62	3.22	79	3.18
Minnesota.....	129	10	1.77	47	2.44	57	2.29
Mississippi.....	148	24	4.25	80	4.16	104	4.18
Missouri.....	119	17	3.01	47	2.44	64	2.57
Montana.....	18	---	---	4	.21	4	.16
Nebraska.....	77	23	4.07	40	2.08	63	2.53
Nevada.....	6	---	---	1	.05	1	.04
New Hampshire.....	4	---	---	---	---	---	---
New Jersey.....	43	1	.18	12	.62	13	.52
New Mexico.....	20	2	.35	14	.73	16	.64
New York.....	48	6	1.06	21	1.09	27	1.09
North Carolina...	154	15	2.65	51	2.65	66	2.65
North Dakota.....	15	2	.35	4	.21	6	.24
Ohio.....	306	54	9.56	131	6.81	185	7.44
Oklahoma.....	134	27	4.78	58	3.02	85	3.42
Oregon.....	38	3	.53	11	.57	14	.56
Pennsylvania.....	86	7	1.24	27	1.40	34	1.37
Rhode Island.....	---	---	---	---	---	---	---
South Carolina...	104	10	1.77	33	1.72	43	1.73
South Dakota.....	26	---	---	7	.36	7	.28
Tennessee.....	122	11	1.95	28	1.46	39	1.57
Texas.....	500	62	10.97	204	10.61	266	10.69
Utah.....	26	5	.88	12	.62	17	.68
Vermont.....	3	---	---	2	.10	2	.08
Virginia.....	64	5	.88	18	.94	23	.92
Washington.....	80	10	1.77	19	.99	29	1.17
West Virginia....	45	2	.35	13	.68	15	.60
Wisconsin.....	167	12	2.12	78	4.06	90	3.62
Wyoming.....	5	1	.18	3	.16	4	.16
Unknown.....	---	---	---	---	---	---	---
Total.....	4,861	565	100.00	1,923	100.00	2,488	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	Ini	Total		Acc/Inc	Kld	Ini
Alabama.....	196	18	62	80	3,857,000	.51	.05	.16
Alaska.....	8	2	1	3	494,000	.16	.04	.02
Arizona.....	25	1	9	10	2,956,000	.08	---	.03
Arkansas.....	120	18	48	66	1,471,000	.82	.12	.33
California.....	194	23	83	106	22,743,000	.09	.01	.04
Colorado.....	45	3	19	22	3,268,000	.14	.01	.06
Connecticut.....	9	1	2	3	2,659,000	.03	---	.01
Delaware.....	8	---	1	1	539,000	.15	---	.02
Dist. of Columbia	---	---	---	---	266,000	---	---	---
Florida.....	109	23	39	62	11,386,000	.10	.02	.03
Georgia.....	177	24	71	95	5,708,000	.31	.04	.12
Idaho.....	54	4	27	31	1,105,000	.49	.04	.24
Illinois.....	273	24	143	167	8,004,000	.34	.03	.18
Indiana.....	270	27	96	123	4,499,000	.60	.06	.21
Iowa.....	145	8	61	69	2,833,000	.51	.03	.22
Kansas.....	101	8	31	39	2,112,000	.48	.04	.15
Kentucky.....	82	7	30	37	2,997,000	.27	.02	.10
Louisiana.....	234	5	126	131	3,042,000	.77	.02	.41
Maine.....	15	1	4	5	986,000	.15	.01	.04
Maryland.....	17	---	3	3	3,724,000	.05	---	.01
Massachusetts....	13	1	10	11	3,726,000	.03	---	.03
Michigan.....	178	17	62	79	7,424,000	.24	.02	.08
Minnesota.....	125	10	44	54	3,734,000	.33	.03	.12
Mississippi.....	145	23	80	103	1,913,000	.76	.12	.42
Missouri.....	114	16	46	62	4,013,000	.28	.04	.11
Montana.....	17	---	3	3	826,000	.21	---	.04
Nebraska.....	74	22	38	60	1,404,000	.53	.16	.27
Nevada.....	6	---	1	1	894,000	.07	---	.01
New Hampshire.....	4	---	---	---	995,000	.04	---	---
New Jersey.....	40	---	9	9	5,747,000	.07	---	.02
New Mexico.....	20	2	14	16	1,342,000	.15	.01	.10
New York.....	43	4	20	24	10,479,000	.04	---	.02
North Carolina...	150	13	50	63	5,265,000	.28	.02	.09
North Dakota.....	12	1	4	5	643,000	.19	.02	.06
Ohio.....	294	47	129	176	8,672,000	.34	.05	.15
Oklahoma.....	130	26	58	84	2,750,000	.47	.09	.21
Oregon.....	33	1	9	10	2,563,000	.13	---	.04
Pennsylvania.....	83	6	25	31	8,196,000	.10	.01	.03
Rhode Island.....	---	---	---	---	695,000	---	---	---
South Carolina...	102	7	33	40	2,605,000	.39	.03	.13
South Dakota.....	26	---	7	7	734,000	.35	---	.10
Tennessee.....	119	10	28	38	4,623,000	.26	.02	.06
Texas.....	491	62	202	264	13,171,000	.37	.05	.15
Utah.....	26	5	12	17	1,243,000	.21	.04	.10
Vermont.....	3	---	2	2	479,000	.06	---	.04
Virginia.....	60	3	16	19	5,069,000	.12	.01	.03
Washington.....	77	9	18	27	4,448,000	.17	.02	.04
West Virginia....	44	2	10	12	1,251,000	.35	.02	.08
Wisconsin.....	161	12	77	89	3,958,000	.41	.03	.19
Wyoming.....	5	1	3	4	566,000	.09	.02	.05
Unknown.....	---	---	---	---	---	---	---	---
Total.....	4,677	497	1,866	2,363	194,077,000	.24	.03	.10

Note: Vehicle registration figures are for 1991 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	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj
Alabama.....	124	14	47	59	4	15	13	---	---	---	---	---	---	---	---	---	---	---
Alaska.....	7	2	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	19	---	6	6	1	3	---	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	71	13	31	31	4	7	18	1	10	---	---	---	---	---	---	---	---	---
California.....	118	14	55	50	9	23	22	---	5	2	---	---	---	---	---	---	2	---
Colorado.....	25	1	14	14	1	3	5	1	1	---	---	---	---	---	1	---	1	---
Connecticut.....	6	1	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	6	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	80	19	30	22	4	6	5	---	3	1	---	---	---	---	---	---	1	---
Georgia.....	110	19	34	43	5	19	22	---	18	1	---	---	---	---	---	---	1	---
Idaho.....	29	2	14	17	2	9	8	---	4	---	---	---	---	---	---	---	---	---
Illinois.....	195	19	75	53	4	48	24	1	6	1	---	14	---	---	---	---	---	---
Indiana.....	186	22	61	67	4	29	16	1	5	---	---	---	---	---	---	---	1	---
Iowa.....	91	7	41	40	---	14	13	1	5	---	---	---	---	---	---	---	1	---
Kansas.....	57	5	13	31	3	13	13	---	5	---	---	---	---	---	---	---	---	---
Kentucky.....	54	6	26	22	1	4	6	---	---	---	---	---	---	---	---	---	---	---
Louisiana.....	161	4	87	60	1	36	13	---	3	---	---	---	---	---	---	---	---	---
Maine.....	11	---	2	3	---	---	1	1	2	---	---	---	---	---	---	---	---	---
Maryland.....	11	---	2	3	---	1	3	---	---	---	---	---	---	---	---	---	---	---
Massachusetts.....	10	---	8	3	1	2	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	128	17	47	40	---	13	10	---	2	---	---	---	---	---	---	---	---	---
Minnesota.....	81	5	31	33	4	12	11	1	1	---	---	---	---	---	---	---	---	---
Mississippi.....	102	18	70	36	5	10	7	---	---	---	---	---	---	---	---	---	---	---
Missouri.....	63	10	26	39	6	16	12	---	4	---	---	---	---	---	---	---	---	---
Montana.....	7	---	1	9	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	42	16	21	24	5	13	8	1	4	---	---	---	---	---	---	---	---	---
Nevada.....	2	---	1	3	---	---	1	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	30	---	6	8	---	2	2	---	1	---	---	---	---	---	---	---	---	---
New Mexico.....	12	1	7	6	---	7	1	---	---	---	---	---	---	---	---	---	1	1
New York.....	30	4	18	9	---	1	4	---	1	---	---	---	---	---	---	---	---	---
North Carolina.....	93	9	30	38	4	13	19	---	7	---	---	---	---	---	---	---	---	---
North Dakota.....	8	1	3	2	---	1	2	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	208	36	90	66	9	28	20	2	11	---	---	---	---	---	---	---	---	---
Oklahoma.....	74	10	26	43	14	28	11	1	1	1	---	3	---	---	---	1	1	---
Oregon.....	22	1	8	9	---	1	2	---	---	---	---	---	---	---	---	---	---	---
Pennsylvania.....	55	3	11	23	3	13	5	---	1	---	---	---	---	---	---	---	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	73	6	25	21	1	6	8	---	2	---	---	---	---	---	---	---	---	---
South Dakota.....	19	---	6	6	---	1	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	90	10	21	22	---	7	7	---	---	---	---	---	---	---	---	---	---	---
Texas.....	294	29	133	145	30	60	48	2	8	1	---	---	---	---	---	3	1	1
Utah.....	14	3	10	8	1	2	4	1	---	---	---	---	---	---	---	---	---	---
Vermont.....	2	---	1	---	---	1	---	---	1	---	---	---	---	---	---	---	---	---
Virginia.....	42	2	12	15	1	4	3	---	---	---	---	---	---	---	---	---	---	---
Washington.....	49	5	12	20	4	6	7	---	---	1	---	---	---	---	---	---	---	---
West Virginia.....	26	2	8	14	---	2	4	---	---	---	---	---	---	---	---	---	---	---
Wisconsin.....	114	12	53	28	---	12	15	---	4	---	---	---	2	---	---	8	---	---
Wyoming.....	---	---	---	4	1	3	1	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,057	348	1,226	1,200	132	496	398	14	115	8	---	17	3	---	9	11	3	3

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

State	---Freight---			---Passenger---			-Yard Switching			----Other----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	159	12	54	6	3	---	17	---	4	14	3	4
Alaska.....	5	---	---	---	---	---	1	---	---	2	2	1
Arizona.....	19	1	7	---	---	---	2	---	---	4	---	2
Arkansas.....	102	18	43	4	---	2	5	---	---	9	---	3
California.....	131	17	50	13	2	1	32	2	18	18	2	14
Colorado.....	31	3	11	2	---	---	6	---	6	6	---	2
Connecticut.....	5	1	---	4	---	2	---	---	---	---	---	---
Delaware.....	7	---	1	1	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	85	19	34	11	3	1	2	---	1	11	1	3
Georgia.....	145	21	60	3	1	3	18	2	3	11	---	5
Idaho.....	47	4	24	1	---	---	1	---	---	5	---	3
Illinois.....	178	16	100	42	5	33	27	2	5	26	1	5
Indiana.....	231	25	85	18	---	6	9	1	1	12	1	4
Iowa.....	96	7	43	---	---	---	21	1	5	28	---	13
Kansas.....	86	8	28	1	---	---	5	---	---	9	---	3
Kentucky.....	68	7	21	---	---	---	2	---	1	12	---	8
Louisiana.....	174	5	95	4	---	---	32	---	14	24	---	17
Maine.....	14	1	4	---	---	---	---	---	---	1	---	---
Maryland.....	11	---	2	---	---	---	2	---	---	4	---	1
Massachusetts....	3	1	---	10	---	10	---	---	---	---	---	---
Michigan.....	134	15	50	8	1	1	14	---	3	22	1	8
Minnesota.....	89	9	34	3	1	4	23	---	5	10	---	1
Mississippi.....	123	19	72	5	4	1	6	---	2	11	---	5
Missouri.....	95	14	42	---	---	---	7	---	---	12	2	4
Montana.....	13	---	3	1	---	---	---	---	---	3	---	---
Nebraska.....	60	18	34	4	4	4	4	---	---	6	---	---
Nevada.....	4	---	---	1	---	---	---	---	---	1	---	1
New Hampshire.....	3	---	---	---	---	---	---	---	---	1	---	---
New Jersey.....	24	---	5	9	---	---	3	---	1	4	---	3
New Mexico.....	19	2	13	1	---	1	---	---	---	---	---	---
New York.....	27	1	12	12	3	5	2	---	---	2	---	3
North Carolina....	118	12	39	7	1	1	8	---	4	17	---	6
North Dakota.....	6	1	3	1	---	---	2	---	1	3	---	---
Ohio.....	239	41	110	6	4	---	10	---	3	39	2	16
Oklahoma.....	115	26	51	---	---	---	8	---	4	7	---	3
Oregon.....	25	1	6	3	---	1	1	---	---	4	---	2
Pennsylvania.....	67	3	18	6	---	6	---	---	---	10	3	1
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina....	74	4	30	9	3	2	11	---	1	8	---	---
South Dakota.....	20	---	7	---	---	---	1	---	---	5	---	---
Tennessee.....	96	9	24	1	---	---	15	1	4	7	---	---
Texas.....	375	59	150	11	3	2	49	---	24	56	---	26
Utah.....	16	4	8	1	---	1	6	1	3	3	---	---
Vermont.....	3	---	2	---	---	---	---	---	---	---	---	---
Virginia.....	44	3	11	---	---	---	8	---	3	8	---	2
Washington.....	51	8	15	1	1	---	15	---	2	10	---	1
West Virginia....	32	1	8	1	---	---	2	---	2	9	1	---
Wisconsin.....	118	6	60	4	1	1	22	---	3	17	5	13
Wyoming.....	4	1	3	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,591	423	1,472	215	40	88	399	10	123	472	24	183

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

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

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Balls	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Aberdeen And Rockfish Railroad Company	---	---	---	---	5	---	---	---	5
Aberdeen, Carolina And Western Railroad	---	1	---	1	---	---	---	---	5
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	8
Alaska Railroad Corporation	---	2	---	---	6	---	---	---	126
Amtrak (National Railroad Passenger Corp.)	54	24	4	---	44	---	---	---	220
Atchison, Topeka And Santa Fe Railway Co.	73	59	1	1	86	---	---	---	5
Atlanta & Saint Andrews Bay Railway Co.	---	3	---	---	2	---	---	---	2
Bangor And Aroostook Railroad	---	2	---	---	---	---	---	---	436
Burlington Northern Railroad Company	77	96	5	4	252	2	---	---	5
Carolina Piedmont Division-South Carolina	---	---	---	---	5	---	---	---	14
Central Michigan Railway Company	---	4	---	---	10	---	---	---	---
Central Of Georgia Railroad Company	---	---	---	---	---	---	---	---	140
Chicago And North Western Transportation	29	30	6	3	68	1	---	3	26
Chicago, Central & Pacific Railroad Co.	1	10	---	1	14	---	---	---	7
Cincinnati, New Orleans & Texas Pacific Rwy	---	---	---	---	3	---	---	---	360
Columbus And Greenville Railway Company	---	4	---	---	149	2	1	2	643
Consolidated Rail Corporation	90	100	8	8	291	4	1	3	14
CSX Transportation	110	211	12	11	3	---	---	---	4
Dakota, Minnesota & Eastern Railroad	1	16	---	---	2	---	---	---	9
Delaware And Hudson Railroad Company	1	1	---	---	3	---	---	---	5
Denver And Rio Grande Western Railroad Co.	2	3	---	1	3	---	---	---	6
Detroit And Mackinac Railway Company	---	---	---	---	5	---	---	---	13
Elgin, Joliet And Eastern Railway Company	1	---	---	---	5	---	---	---	31
Escanaba And Lake Superior Railroad Co.	1	6	---	---	---	---	---	---	15
Florida East Coast Railway Company	31	---	---	---	---	---	---	---	15
Fox River Valley Railroad Corporation	1	8	3	---	5	---	---	---	15
Gateway Western Railway	1	10	1	---	3	---	---	---	67
Georgia Southern & Florida Company	---	---	---	---	20	---	1	1	10
Grand Trunk Western Railroad Company	17	27	1	1	5	1	---	---	7
Green Bay And Western Railroad Company	2	3	---	---	2	---	---	---	3
Houston Belt & Terminal Railway Company	---	---	---	---	3	---	---	---	112
Huron & Eastern Railway	17	39	1	2	52	1	---	---	10
Illinois Central Railroad Company	6	3	---	---	1	---	---	---	5
Indiana Harbor Belt Railroad Company	1	3	---	---	1	---	---	---	4
Indiana Hi-rail Corporation	---	1	---	---	3	---	---	---	14
Indiana Rail Road Company	---	---	---	---	8	---	---	---	44
Iowa Interstate Railroad	3	5	---	---	24	---	---	---	9
Kansas City Southern Railway Company	1	17	1	1	15	---	---	1	5
Long Island Rail Road	9	---	---	---	9	---	---	---	23
Louisiana & Arkansas Railway Company	---	35	1	---	2	1	---	---	4
Louisiana & Delta Railroad	1	13	---	---	4	---	---	---	7
Mid-south Rail Corporation	---	1	---	---	2	---	---	---	9
Monongahela Railway Company	2	1	---	---	4	---	---	---	6
Montana Rail Link	8	1	---	---	---	---	---	---	8
New Jersey Transit Rail Operations	---	2	---	---	4	---	---	---	236
New Orleans Lower Coast Railroad, Inc.	---	4	---	---	---	---	---	---	350
New York, Susquehanna And Western Railroad	3	4	---	1	---	---	---	---	17
Norfolk And Western Railway Company	54	65	2	5	107	---	---	3	6
Norfolk Southern Corporation	38	71	1	8	202	1	---	9	17
Northeast Illinois Regional Commuter Rail	14	3	---	---	---	---	---	---	4
Northern Indiana Transportation Commuter	1	---	---	---	4	---	---	---	5
Paducah & Louisville Railway Company	---	2	---	---	3	---	---	---	9
Port Terminal Railroad Association	---	3	---	---	1	---	---	---	115
Soo Line Railroad Company	15	27	---	1	69	1	---	2	5
Southeastern Pennsylvania Transportation	3	2	---	---	---	---	---	---	262
Southern Pacific Transportation Company	102	43	20	7	88	2	---	---	15
Southrail Corporation	---	2	---	---	13	---	---	---	15
Springfield Terminal Railway Company	---	11	---	2	2	---	---	---	56
St. Louis Southwestern Railway Company	5	14	3	---	34	---	---	---	10
Texas Mexican Railway Company	---	5	---	---	5	---	---	---	8
Tuscola And Saginaw Bay Railroad Company	108	2	12	8	313	3	1	11	620
Union Pacific Railroad Company	6	---	---	---	---	---	---	---	6
UTSZ Transit Service, Incorporated	2	3	---	---	19	---	---	---	24
Visalia Electric Railroad Company	1	1	---	---	4	---	---	---	8
Washington Central Railroad Company	---	4	---	---	3	---	---	---	7
Wisconsin & Southern Railroad Company	---	3	---	---	4	---	---	---	72
Wisconsin Calumet Railroad	4	30	1	1	36	---	---	---	333
Wisconsin Central Ltd.	---	---	---	---	---	---	---	---	---
All Other Railroads.....	26	105	8	10	178	2	---	4	924
Total.....	924	1,301	91	78	2,221	21	4	39	4,679

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			
Aberdeen And Rockfish Railroad Company	5	---	3	---	---	---	5	---	3
Aberdeen, Carolina And Western Railroad	5	---	1	---	---	---	5	---	1
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---
Alaska Railroad Corporation	8	2	1	---	---	---	8	2	1
Amtrak (National Railroad Passenger Corp.)	126	26	27	12	6	1	138	32	28
Atchison, Topeka And Santa Fe Railway Co.	220	22	103	7	2	---	227	24	104
Atlanta & Saint Andrews Bay Railway Co.	5	---	1	---	---	---	5	---	1
Bangor And Aroostook Railroad	2	---	---	---	---	---	2	---	---
Burlington Northern Railroad Company	456	52	177	12	5	6	448	57	183
Carolina Piedmont Division-South Carolina	5	---	7	---	---	---	5	---	2
Central Michigan Railway Company	14	---	---	---	---	---	14	---	7
Central Of Georgia Railroad Company	---	---	---	---	---	---	---	---	---
Chicago And North Western Transportation	140	10	44	17	8	6	157	18	50
Chicago, Central & Pacific Railroad Co.	26	1	15	1	---	1	27	1	16
Cincinnati, New Orleans & Texas Pacific Rv	---	---	---	---	---	---	---	---	---
Columbus And Greenville Railway Company	7	2	8	---	---	---	7	2	8
Consolidated Rail Corporation	360	37	98	11	3	3	371	40	101
CSX Transportation	643	70	258	15	8	3	658	78	261
Dakota, Minnesota & Eastern Railroad	14	1	2	---	---	---	14	1	2
Delaware And Hudson Railroad Company	4	---	3	---	---	---	4	---	4
Denver And Rio Grande Western Railroad Co.	9	1	3	---	---	---	9	1	3
Detroit And Mackinac Railway Company	6	---	2	---	---	---	5	---	2
Elgin, Joliet And Eastern Railway Company	5	---	2	---	---	---	6	---	2
Escanaba And Lake Superior Railroad Co.	13	---	5	---	---	---	13	---	5
Florida East Coast Railway Company	31	7	13	3	1	1	34	8	14
Fox River Valley Railroad Corporation	17	1	5	---	---	---	17	1	5
Gateway Western Railway	15	---	6	1	---	---	16	---	6
Georgia Southern & Florida Company	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	67	19	33	2	1	---	69	20	33
Green Bay And Western Railroad Company	10	1	10	1	---	---	11	1	10
Houston Belt & Terminal Railway Company	7	---	4	---	---	---	7	---	4
Muron & Eastern Railway	3	---	4	1	---	---	4	---	4
Illinois Central Railroad Company	112	4	71	2	1	---	114	5	71
Indiana Harbor Belt Railroad Company	10	---	3	---	---	---	10	---	3
Indiana Hi-rail Corporation	5	1	1	---	---	---	5	1	1
Indiana Rail Road Company	4	---	2	---	---	---	4	---	2
Iowa Interstate Railroad	14	---	7	---	---	---	14	---	7
Kansas City Southern Railway Company	44	3	24	5	1	2	49	4	26
Long Island Rail Road	9	3	5	3	2	1	12	5	6
Louisiana & Arkansas Railway Company	52	3	26	1	---	2	53	3	28
Louisiana & Delta Railroad	5	---	1	---	---	---	5	---	1
Midsouth Rail Corporation	23	---	18	---	---	---	23	---	18
Monongahela Railway Company	4	---	---	---	---	---	4	---	---
Montana Rail Link	7	1	---	2	1	1	9	2	1
New Jersey Transit Rail Operations	9	---	3	---	---	---	10	---	3
New Orleans Lower Coast Railroad, Inc.	6	---	6	---	---	---	6	---	6
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	236	27	85	13	8	6	249	35	91
Norfolk Southern Corporation	330	30	97	8	3	---	338	33	97
Northeast Illinois Regional Commuter Rail	17	3	29	4	2	2	21	5	31
Northern Indiana Transportation Commuter	6	---	1	2	1	---	8	1	2
Paducah & Louisville Railway Company	5	3	4	---	---	---	5	3	4
Port Terminal Railroad Association	9	---	8	---	---	---	9	---	8
Seo Line Railroad Company	115	7	47	10	1	2	125	8	49
Southeastern Pennsylvania Transportation	5	---	6	---	---	---	5	---	6
Southern Pacific Transportation Company	262	33	123	9	3	4	271	36	127
Southern Railway Corporation	15	---	9	---	---	---	15	---	9
Springfield Terminal Railway Company	15	1	---	---	---	---	15	1	---
St. Louis Southwestern Railway Company	56	7	22	4	1	2	60	8	24
Texas Mexican Railway Company	10	---	1	---	---	---	11	---	1
Tuscola And Saginaw Bay Railroad Company	8	---	3	---	---	---	8	---	3
Union Pacific Railroad Company	620	91	245	21	8	7	641	99	252
UTSZ Transit Service, Incorporated	6	1	1	---	---	---	6	1	1
Visalia Electric Railroad Company	24	2	15	---	---	---	24	2	15
Washington Central Railroad Company	5	---	4	---	---	---	5	---	4
Wisconsin & Southern Railroad Company	8	1	7	---	---	---	8	1	7
Wisconsin Calumet Railroad	7	---	2	---	---	---	7	---	2
Wisconsin Central Ltd.	7	5	33	2	---	---	7	5	33
All Other Railroads.....	333	19	118	13	1	5	346	20	123
Total.....	4,679	497	1,866	184	68	57	4,863	565	1,923

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

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

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	14	55	4	3	117	2	---	1	196
Alaska.....	---	2	---	---	6	---	---	---	8
Arizona.....	8	13	---	---	4	---	---	---	25
Arkansas.....	22	39	---	---	59	---	---	---	120
California.....	96	29	19	6	43	1	---	---	194
Colorado.....	5	12	1	1	25	1	---	---	45
Connecticut.....	---	8	1	---	---	---	---	---	9
Delaware.....	3	3	---	---	2	---	---	---	8
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	67	22	---	---	20	---	---	---	109
Georgia.....	32	25	1	6	111	2	---	---	177
Idaho.....	2	9	---	1	40	1	---	1	54
Illinois.....	107	82	3	3	75	---	1	2	273
Indiana.....	62	77	3	1	125	---	1	1	270
Iowa.....	18	34	1	4	86	1	---	1	145
Kansas.....	13	25	---	1	60	---	---	2	101
Kentucky.....	10	38	1	1	27	1	---	4	82
Louisiana.....	19	104	9	3	97	---	---	2	234
Maine.....	---	11	---	---	4	---	---	---	15
Maryland.....	1	7	1	1	6	1	---	---	17
Massachusetts.....	5	7	---	1	---	---	---	---	13
Michigan.....	33	77	1	1	63	---	1	2	178
Minnesota.....	8	32	---	---	84	---	---	1	125
Mississippi.....	9	38	5	1	88	2	---	2	145
Missouri.....	14	32	3	---	63	---	---	2	114
Montana.....	5	2	---	---	10	---	---	---	17
Nebraska.....	16	7	---	3	47	---	---	1	74
Nevada.....	1	---	---	---	5	---	---	---	6
New Hampshire.....	---	1	---	2	1	---	---	---	4
New Jersey.....	17	17	1	2	3	---	---	---	40
New Mexico.....	6	5	---	---	9	---	---	---	20
New York.....	20	10	1	4	8	---	---	---	43
North Carolina.....	15	25	---	3	102	---	---	5	150
North Dakota.....	3	2	---	---	7	---	---	---	12
Ohio.....	36	63	5	3	183	---	1	1	294
Oklahoma.....	12	53	2	1	61	---	---	1	130
Oregon.....	7	1	2	1	21	1	---	---	33
Pennsylvania.....	15	25	1	1	38	2	---	1	83
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina.....	15	21	1	3	62	---	---	---	102
South Dakota.....	---	8	---	---	18	---	---	---	26
Tennessee.....	27	40	2	1	47	---	---	2	119
Texas.....	116	131	9	9	220	2	---	4	491
Utah.....	6	3	3	---	14	---	---	---	26
Vermont.....	---	---	---	---	3	---	---	---	3
Virginia.....	14	18	2	6	19	---	---	1	60
Washington.....	20	15	1	1	40	---	---	---	77
West Virginia.....	11	14	---	1	17	---	---	1	44
Wisconsin.....	12	57	8	3	78	2	---	1	161
Wyoming.....	2	2	---	---	1	---	---	---	5
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	924	1,301	91	78	2,219	21	4	39	4,677

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

HIGHWAY USER AND VEHICLE DATA

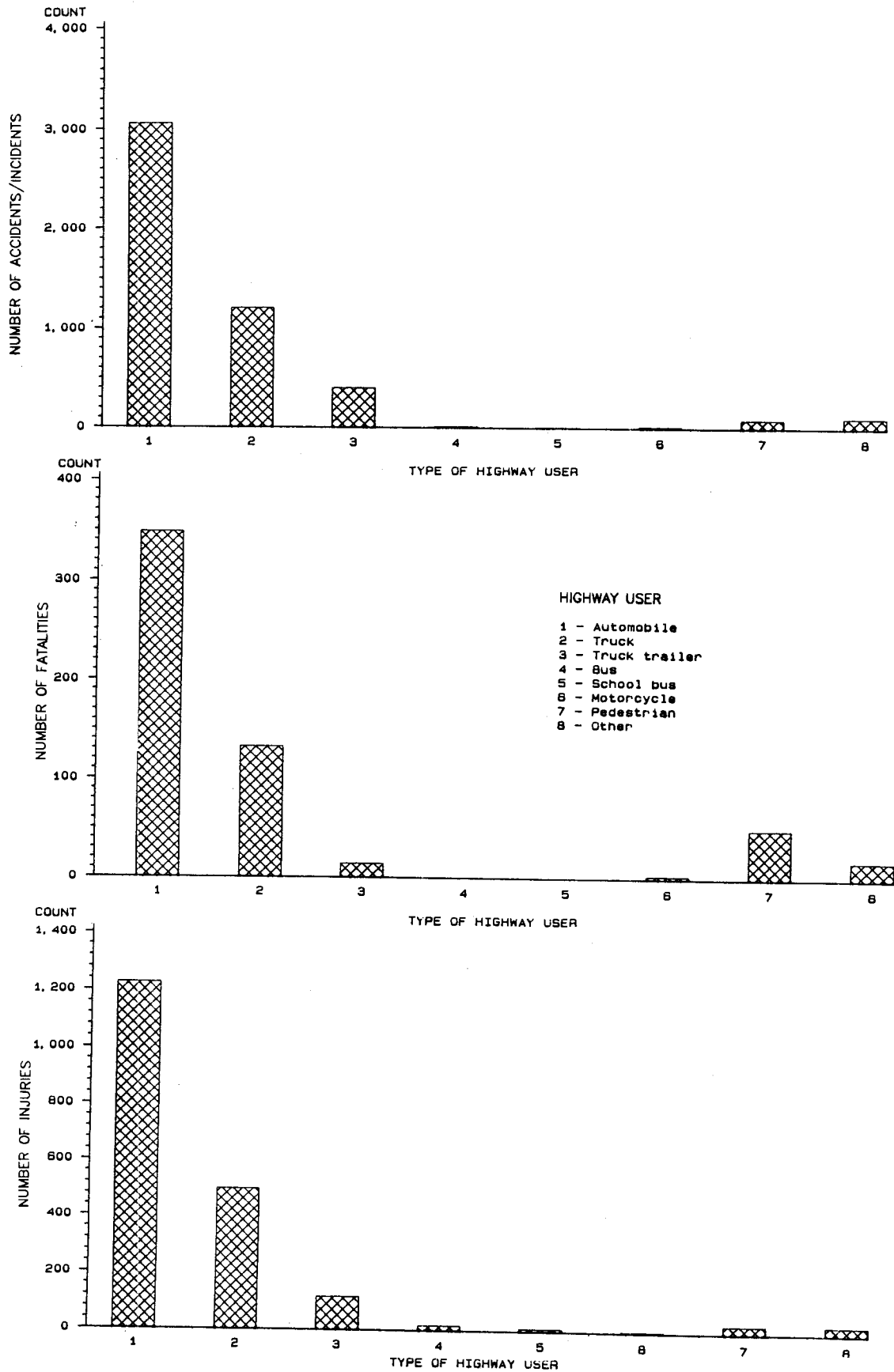


FIGURE 3. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

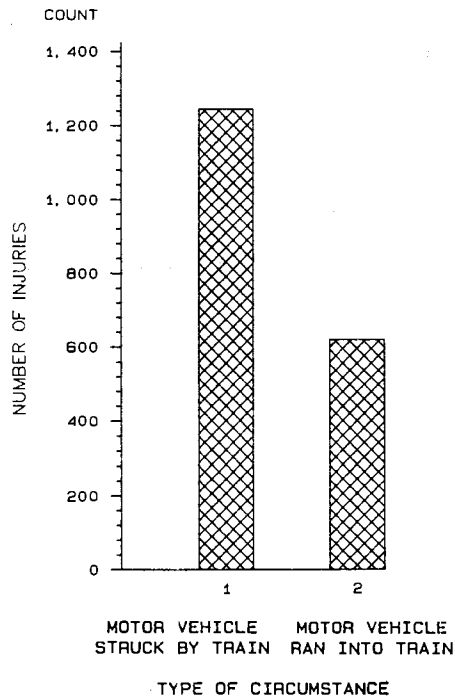
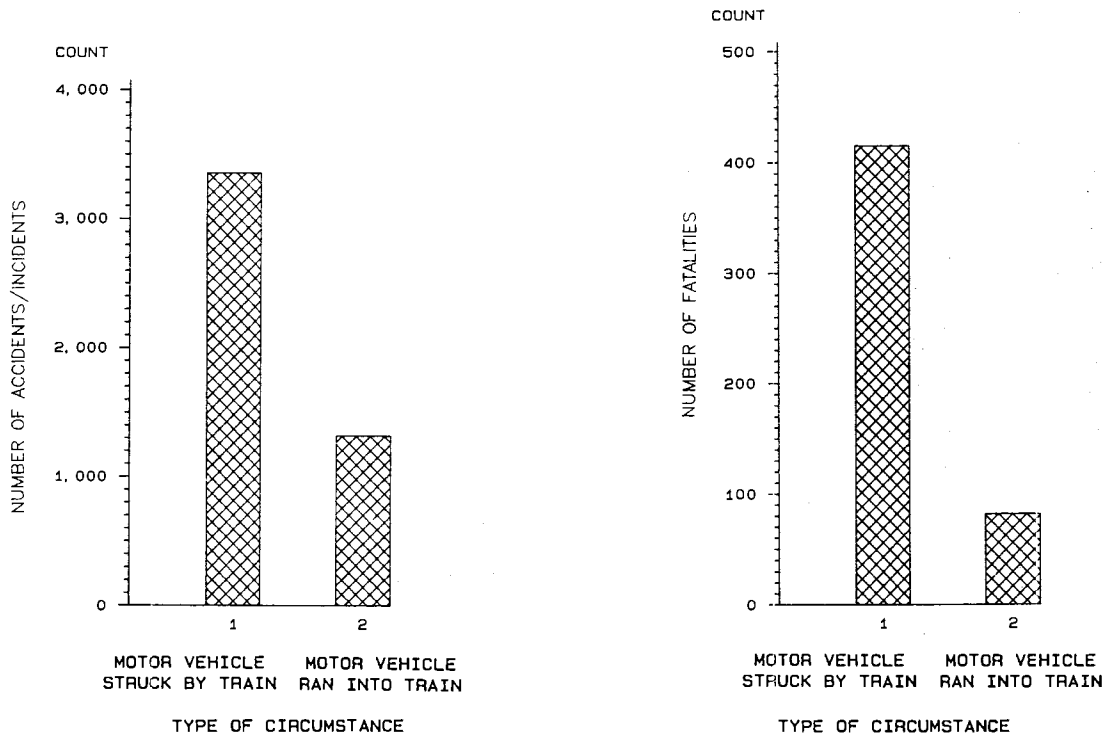


FIGURE 4. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

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.....	3,057	62.89	348	61.59	1,226	63.75	269	840
Truck.....	1,200	24.69	132	23.36	496	25.79	109	336
Truck-trailer....	398	8.19	14	2.48	115	5.98	14	79
Bus.....	8	.16	---	---	17	.88	---	2
School bus.....	3	.06	---	---	9	.47	---	3
Motorcycle.....	11	.23	3	.53	3	.16	3	2
Pedestrian.....	82	1.69	50	8.85	28	1.46	49	25
Other.....	102	2.10	18	3.19	29	1.51	18	20
Total.....	4,861	100.00	565	100.00	1,923	100.00	462	1,307

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	3,357	71.78	415	83.50	1,245	66.72	327	833
Ran into consist.	1,320	28.22	82	16.50	621	33.28	68	429
Total.....	4,677	100.00	497	100.00	1,866	100.00	395	1,262

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...	3,057	3,999	1.31	348	.11	1,201	.39	7,382,193	2,415
Truck.....	1,200	1,401	1.17	132	.11	445	.37	4,605,302	3,838
Truck-trailer	398	403	1.01	13	.03	58	.15	3,527,680	8,864
Bus.....	8	38	4.75	0	.00	17	2.13	20,300	2,538
School bus...	3	29	9.67	0	.00	9	3.00	9,000	3,000
Motorcycle...	11	8	.73	3	.27	3	.27	6,050	550
Total	4,677	5,878	1.26	496	.11	1,733	.37	15,550,525	3,325

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.....	57	10	20	1,101	154	407	87	14	45	932	118	329
Truck.....	22	6	3	508	63	208	32	8	12	253	30	105
Truck-trailer....	14	1	6	286	11	76	10	---	2	41	---	6
Bus.....	1	---	---	3	---	14	2	---	3	1	---	---
School bus.....	1	---	1	2	---	8	---	---	---	---	---	---
Motorcycle.....	---	---	---	2	---	---	---	---	---	2	---	---
Total.....	95	17	30	1,902	228	713	131	22	62	1,229	148	440
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	23	1	9	349	15	169	31	---	4	477	36	243
Truck.....	17	2	5	189	12	69	13	---	6	166	11	88
Truck-trailer....	2	---	---	34	2	21	2	---	1	9	---	3
Bus.....	---	---	---	---	---	---	---	---	---	1	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	2	---	1	1	1	---	4	2	2
Total.....	42	3	14	574	29	260	47	1	11	657	49	336
GRAND TOTAL												
Automobile.....	80	11	29	1,450	169	576	118	14	49	1,409	154	572
Truck.....	39	8	8	697	75	277	45	8	18	419	41	193
Truck-trailer....	16	1	6	320	13	97	12	---	3	50	---	9
Bus.....	1	---	---	3	---	14	2	---	3	2	---	---
School bus.....	1	---	1	2	---	8	---	---	---	---	---	---
Motorcycle.....	---	---	---	4	---	1	1	1	---	6	2	2
Total.....	137	20	44	2,476	257	973	178	23	73	1,886	197	776

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.....	---	17	---	---	---	1	232	663	64	118	---	2	296	801	2,177
Truck.....	---	23	---	---	---	19	88	253	19	33	---	---	107	328	815
Truck-trailer....	1	49	---	---	---	---	11	38	---	3	---	---	12	90	351
Bus.....	---	---	---	---	---	---	---	17	---	---	---	---	---	17	7
School bus.....	---	---	---	---	---	---	---	8	---	1	---	---	---	9	3
Motorcycle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4
Pedestrian.....	---	---	---	---	---	---	12	7	34	20	---	---	46	27	77
Other.....	---	9	---	---	---	---	11	12	6	3	---	---	17	24	82
Total.....	1	98	---	---	---	20	354	998	123	178	---	2	478	1,296	3,516
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	3	---	---	---	1	48	382	4	39	---	---	52	425	880
Truck.....	---	9	---	---	---	---	21	150	4	9	---	---	25	168	385
Truck-trailer....	---	6	---	---	---	1	2	17	---	1	---	---	2	25	47
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	3	3	---	---	---	---	3	3	7
Pedestrian.....	---	---	---	---	---	---	---	1	4	---	---	---	4	1	5
Other.....	---	---	---	---	---	---	---	4	1	1	---	---	1	5	20
Total.....	---	18	---	---	---	2	74	557	13	50	---	---	87	627	1,345
GRAND TOTAL															
Automobile.....	---	20	---	---	---	2	280	1,045	68	157	---	2	348	1,226	3,057
Truck.....	---	32	---	---	---	19	109	403	23	42	---	---	132	496	1,200
Truck-trailer....	1	55	---	---	---	1	13	55	---	4	---	---	14	115	398
Bus.....	---	---	---	---	---	---	---	17	---	---	---	---	---	17	8
School bus.....	---	---	---	---	---	---	---	8	---	1	---	---	---	9	3
Motorcycle.....	---	---	---	---	---	---	3	3	---	---	---	---	3	3	11
Pedestrian.....	---	---	---	---	---	---	12	8	38	20	---	---	50	28	82
Other.....	---	9	---	---	---	---	11	16	7	4	---	---	18	29	102
Total.....	1	116	---	---	---	22	428	1,555	136	228	---	2	565	1,923	4,861

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.....	31	5	3	605	26	150	37	7	6	443	8	61	1,116	46	220
1-9.....	21	5	8	422	49	133	27	5	9	180	21	65	650	80	215
10-19.....	17	3	5	354	49	143	24	4	12	206	24	89	601	80	249
20-29.....	14	3	4	205	32	107	22	3	14	158	41	99	399	79	224
30-39.....	6	---	4	145	31	90	7	1	8	99	16	61	257	48	163
40-49.....	2	---	1	49	19	25	3	1	2	38	11	25	92	31	53
50-59.....	---	---	---	24	6	9	3	---	7	19	9	8	46	15	24
60 and over.....	2	---	4	5	1	---	---	---	3	1	3	10	2	7	
Unknown.....	2	1	1	93	15	56	8	1	4	83	17	29	186	34	90
Total.....	95	17	30	1,902	228	713	131	22	62	1,229	148	440	3,357	415	1,245
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	11	---	---	116	5	26	15	---	5	101	1	30	243	6	61
10-19.....	7	1	2	122	---	34	10	---	---	126	3	55	265	4	91
20-29.....	7	---	---	110	1	55	5	---	1	119	8	61	241	9	117
30-39.....	5	---	4	79	3	43	4	---	1	122	8	72	210	11	120
40-49.....	5	1	3	53	7	44	2	---	2	54	6	35	114	14	84
50-59.....	3	---	4	35	5	26	2	---	---	42	7	29	82	12	59
60 and over.....	1	1	---	8	3	8	2	1	1	15	5	13	26	10	22
Unknown.....	3	---	1	51	5	24	7	---	1	78	11	41	139	16	67
Total.....	42	3	14	574	29	260	47	1	11	657	49	336	1,320	82	621
GRAND TOTAL															
Standing.....	31	5	3	605	26	150	37	7	6	443	8	61	1,116	46	220
1-9.....	32	5	8	538	54	159	42	5	14	281	22	95	893	86	276
10-19.....	24	4	7	476	49	177	34	4	12	332	27	144	866	84	340
20-29.....	21	3	4	315	33	162	27	3	15	277	49	160	640	88	341
30-39.....	11	---	8	224	34	133	11	1	9	221	24	133	467	59	283
40-49.....	7	1	4	102	26	69	5	1	4	92	17	60	206	45	137
50-59.....	3	---	4	59	11	35	5	---	7	61	16	37	128	27	83
60 and over.....	3	1	4	13	4	8	2	1	1	18	6	16	36	12	29
Unknown.....	5	1	2	144	20	80	15	1	5	161	28	70	325	50	157
Total.....	137	20	44	2,476	257	973	178	23	73	1,886	197	776	4,677	497	1,866

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.....	285	10	22	480	19	123	2,292	319	1,081
Truck.....	91	2	14	158	13	31	951	117	451
Truck-trailer....	34	---	4	60	2	5	304	12	106
Bus.....	---	---	---	4	---	14	4	---	3
School bus.....	---	---	---	1	---	7	2	---	2
Motorcycle.....	1	---	---	2	---	---	8	3	3
Total.....	411	12	40	705	34	180	3,561	451	1,646

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	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	13	---	3	338	2	53	25	---	16	217	---	54	593	2	126
10-19.....	12	---	4	304	2	83	20	---	10	202	2	73	538	4	170
20-29.....	15	1	6	353	14	161	24	2	9	259	21	118	651	38	294
30-39.....	16	1	5	322	30	150	21	5	8	224	35	94	583	71	257
40-49.....	18	5	2	332	89	147	23	10	8	200	47	69	573	151	226
50-59.....	10	5	3	171	56	79	14	5	9	79	26	22	274	92	113
60-69.....	9	4	5	54	22	37	3	---	2	29	14	5	95	40	49
70-79.....	2	1	2	27	13	3	1	---	---	17	3	2	47	17	7
80-89.....	---	---	---	---	---	---	---	---	---	2	---	3	2	---	3
90 and over.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	95	17	30	1,902	228	713	131	22	62	1,229	148	440	3,357	415	1,245
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	13	---	5	---	---	---	84	6	34	97	6	39
1-9.....	10	---	6	166	4	47	14	1	2	206	14	102	396	19	157
10-19.....	5	---	---	109	1	45	10	---	1	110	3	57	234	4	103
20-29.....	8	---	3	101	4	70	7	---	3	105	4	64	221	8	140
30-39.....	8	1	4	77	4	41	6	---	1	70	7	40	161	12	86
40-49.....	7	1	1	74	8	38	8	---	3	51	11	24	140	20	66
50-59.....	3	1	---	21	4	13	---	---	---	24	2	10	48	7	23
60-69.....	1	---	---	9	4	1	2	---	1	5	---	5	17	4	7
70-79.....	---	---	---	4	---	---	---	---	---	2	2	---	6	2	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	42	3	14	574	29	260	47	1	11	657	49	336	1,320	82	621
GRAND TOTAL															
Standing.....	---	---	---	13	---	5	---	---	---	84	6	34	97	6	39
1-9.....	23	---	9	504	6	100	39	1	18	423	14	156	989	21	283
10-19.....	17	---	4	413	3	128	30	---	11	312	5	130	772	8	273
20-29.....	23	1	9	454	18	231	31	2	12	364	25	182	872	46	434
30-39.....	24	2	9	399	34	191	27	5	9	294	42	134	744	83	343
40-49.....	25	6	3	406	97	185	31	10	11	251	58	93	713	171	292
50-59.....	13	6	3	192	60	92	14	5	9	103	28	32	322	99	136
60-69.....	10	4	5	63	26	38	5	---	3	34	14	10	112	44	56
70-79.....	2	1	2	31	13	3	1	---	---	19	5	2	53	19	7
80-89.....	---	---	---	---	---	---	---	---	---	2	---	3	2	---	3
90 and over.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	137	20	44	2,476	257	973	178	23	73	1,886	197	776	4,677	497	1,866

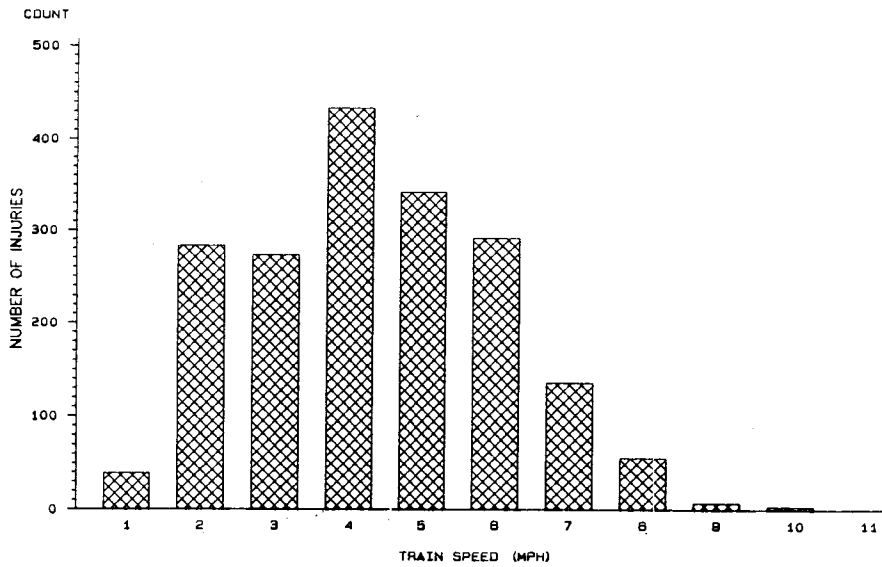
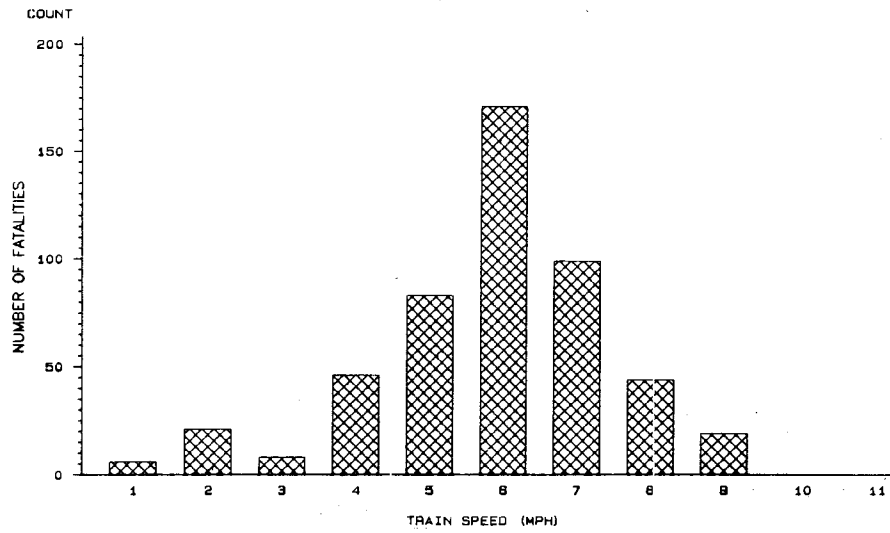
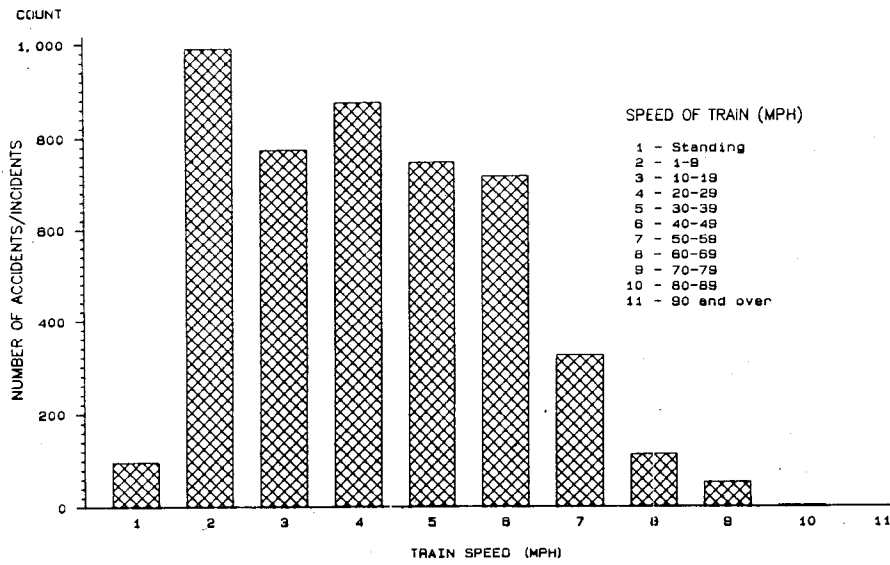


FIGURE 5. ACCIDENTS/ INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

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

CIRCUMSTANCE

Type Consist	Consist Struck Vehicle	Vehicle Struck Consist	Lead Unit	-----Part Of Consist Struck-----					Unknown	-----Visibility-----			
				1	Quarter		3	4		Dawn	Day	Dusk	Dark
Train (Units Pulling)..	2,872	1,005	682	154	64	52	45	8	115	2,080	145	1,537	
Train (Units Pushing)..	190	91	60	4	6	6	15	---	10	126	14	131	
Train (Standing).....	---	87	17	19	25	14	12	---	---	7	---	80	
Cars (Moving).....	61	33	31	---	1	---	---	1	1	87	1	5	
Cars (Standing).....	---	5	5	---	---	---	---	---	---	4	---	1	
Light Locom (Moving)..	233	93	84	---	1	4	4	---	11	168	18	129	
Light Locom (Standing)	---	5	5	---	---	---	---	---	---	2	---	3	
Other.....	1	1	1	---	---	---	---	---	---	2	---	---	
Total.....	3,357	1,320	885	177	97	76	76	9	137	2,476	178	1,886	

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.....	69	6	28	---	---	---	17	---	7	11	---	4	97	6	39
1-9.....	478	10	143	12	---	1	276	7	72	223	4	67	989	21	283
10-19.....	567	7	188	25	---	18	81	1	29	99	---	38	772	8	273
20-29.....	755	40	370	30	2	16	16	1	12	71	3	36	872	46	434
30-39.....	684	77	318	21	1	6	5	1	1	34	4	18	744	83	343
40-49.....	668	163	271	24	4	6	3	---	2	18	4	13	713	171	292
50-59.....	291	87	128	20	4	2	1	---	---	10	8	6	322	99	136
60-69.....	72	29	23	34	14	32	---	---	---	6	1	1	112	44	56
70-79.....	7	4	3	46	15	4	---	---	---	---	---	---	53	19	7
80-89.....	---	---	---	2	---	3	---	---	---	---	---	---	2	---	3
90 and over.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,591	423	1,472	215	40	88	399	10	123	472	24	183	4,677	497	1,866

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	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
1-9.....	514	47	207	149	27	75	219	7	61	126	2	59	1,008	83	402
10-19.....	393	25	160	54	12	8	88	3	25	5	3	3	540	40	196
20-29.....	322	28	137	---	---	---	38	---	12	5	---	2	365	28	151
30-39.....	258	50	113	---	---	---	17	---	10	1	---	---	276	50	123
40-49.....	279	36	116	---	---	---	11	---	3	---	---	---	290	36	119
50-59.....	293	51	104	---	---	---	6	---	---	1	---	---	300	51	104
60-69.....	271	35	106	---	---	---	5	---	5	2	---	2	278	35	113
70-79.....	253	22	94	---	---	---	4	---	3	1	---	1	258	22	98
80-89.....	207	25	86	---	---	---	---	---	---	---	---	---	207	25	86
90-99.....	239	30	96	---	---	---	3	---	3	---	---	---	242	30	99
100-109.....	173	26	86	1	---	---	---	---	---	---	---	---	174	26	86
110-119.....	212	34	87	---	---	---	2	---	1	---	---	---	214	34	88
120-129.....	87	9	40	---	---	---	---	---	---	1	---	---	88	9	40
130-139.....	33	2	21	---	---	---	---	---	---	---	---	---	33	2	21
140-149.....	22	3	6	---	---	---	---	---	---	---	---	---	22	3	6
150 And over.....	28	---	11	---	---	---	---	---	---	1	---	---	29	---	11
Locomotives only.	7	---	2	11	1	5	6	---	---	329	22	116	353	23	123
Total.....	3,591	423	1,472	215	40	88	399	10	123	472	24	183	4,677	497	1,866

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	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
RAIL CONSIST STRUCK HIGHWAY USER															
1-9	17	3	3	456	37	176	32	6	16	170	23	60	675	69	255
10-19	9	---	5	234	22	75	15	1	11	125	12	43	383	35	134
20-29	11	2	4	137	12	52	13	1	9	105	9	37	266	24	102
30-39	5	3	---	100	20	41	5	4	---	85	10	36	195	37	77
40-49	6	---	3	115	16	45	8	---	1	84	14	28	213	30	77
50-59	5	1	2	117	28	32	9	2	3	90	16	33	221	47	70
60-69	7	---	4	120	14	34	9	1	4	70	15	25	206	30	67
70-79	3	---	2	89	14	32	4	---	3	90	7	21	186	21	58
80-89	2	---	---	73	9	23	4	2	4	82	8	34	161	19	61
90-99	3	2	---	112	16	58	7	1	---	66	4	22	188	23	80
100-109	6	---	1	62	12	29	5	1	---	44	6	22	117	19	52
110-119	8	1	1	95	15	39	4	---	---	65	13	28	172	29	68
120-129	4	2	2	37	4	15	1	---	---	25	2	15	67	8	32
130-139	1	---	1	6	1	3	---	---	---	15	---	7	22	1	11
140-149	1	---	1	7	1	1	---	---	---	6	2	1	14	3	3
150 And over	---	---	---	15	---	8	---	---	---	6	---	---	21	---	8
Locomotives only	7	3	1	127	7	50	15	3	11	101	7	28	250	20	90
Total	95	17	30	1,902	228	713	131	22	62	1,229	148	440	3,357	415	1,245
HIGHWAY USER STRUCK RAIL CONSIST															
1-9	7	1	3	202	8	92	11	---	2	113	5	50	333	14	147
10-19	3	---	1	70	---	27	6	---	---	78	5	34	157	5	62
20-29	5	---	3	44	1	25	6	1	2	44	2	19	99	4	49
30-39	5	1	---	27	4	12	2	---	1	47	8	33	81	13	46
40-49	2	---	---	28	3	14	3	---	1	44	3	27	77	6	42
50-59	2	1	2	30	1	11	2	---	---	45	2	21	79	4	34
60-69	3	---	1	29	3	17	3	---	3	37	2	25	72	5	46
70-79	2	---	---	22	1	17	3	---	---	45	---	23	72	1	40
80-89	---	---	---	15	2	13	1	---	---	30	4	12	46	6	25
90-99	5	---	1	11	2	3	3	---	---	35	5	15	54	7	19
100-109	1	---	---	17	2	11	1	---	---	38	5	23	57	7	34
110-119	2	---	---	14	2	4	1	---	---	25	3	16	42	5	20
120-129	---	---	---	6	---	2	1	---	---	14	1	6	21	1	8
130-139	1	---	---	5	---	5	---	---	---	5	1	5	11	1	10
140-149	---	---	---	3	---	---	---	---	---	5	---	3	8	---	3
150 And over	---	---	---	---	---	---	---	---	---	8	---	3	8	---	3
Locomotives only	4	---	3	51	---	7	4	---	2	44	3	21	103	3	33
Total	42	3	14	574	29	260	47	1	11	657	49	336	1,320	82	621
GRAND TOTAL															
1-9	24	4	6	658	45	268	43	6	18	283	28	110	1,008	83	402
10-19	12	---	6	304	22	102	21	1	11	203	17	77	540	40	196
20-29	16	2	7	181	13	77	19	2	11	149	11	56	365	28	151
30-39	10	4	---	127	24	53	7	4	1	132	18	69	276	50	123
40-49	8	---	3	143	19	59	11	---	2	128	17	55	290	36	119
50-59	7	2	4	147	29	43	11	2	3	135	18	54	300	51	104
60-69	10	---	5	149	17	51	12	1	7	107	17	50	278	35	113
70-79	5	---	2	111	15	49	7	---	3	135	7	44	258	22	98
80-89	2	---	---	88	11	36	5	2	4	112	12	46	207	25	86
90-99	8	2	1	123	18	61	10	1	---	101	9	37	242	30	99
100-109	7	---	1	79	14	40	6	1	---	82	11	45	174	26	86
110-119	10	1	1	109	17	43	5	---	---	90	16	44	214	34	88
120-129	4	2	2	43	4	17	2	---	---	39	3	21	88	9	40
130-139	2	---	1	11	1	8	---	---	---	20	1	12	33	2	21
140-149	1	---	1	10	1	1	---	---	---	11	2	4	22	3	6
150 And over	---	---	---	15	---	8	---	---	---	14	---	3	29	---	11
Locomotives only	11	3	4	178	7	57	19	3	13	145	10	49	353	23	123
Total	137	20	44	2,476	257	973	178	23	73	1,886	197	776	4,677	497	1,866

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.....	364	3	124	179	6	53	31	---	4	118	3	44	---	---	---	692	12	225
2.....	863	41	344	38	---	11	19	---	6	22	1	5	---	---	---	942	42	366
3.....	1,277	127	570	20	---	6	9	---	1	15	1	4	---	---	---	1,321	128	581
4.....	1,517	277	615	5	---	1	1	---	---	6	---	1	---	---	---	1,529	277	617
5.....	140	35	51	---	---	---	2	---	---	---	---	---	---	---	---	142	35	51
6.....	6	1	3	---	---	---	---	---	---	---	---	---	---	---	---	6	1	3
Unknown.....	22	---	21	14	---	1	1	---	---	8	2	1	---	---	---	45	2	23
Total....	4,189	484	1,728	256	6	72	63	---	11	169	7	55	---	---	---	4,677	497	1,866

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.....	594	106	260	1	---	2	14	---	2	292	14	58	23	1	4	924	121	326
Cantilever flashers	---	---	---	17	---	2	247	23	125	73	---	23	7	1	3	344	24	153
Standard flashers	---	---	---	72	---	17	673	74	367	204	4	42	8	---	7	957	78	433
Hwy Sig, H W, Bells	---	---	---	8	---	1	57	4	24	23	---	4	3	---	1	91	4	30
Special Devices..	---	---	---	12	---	2	54	1	23	11	---	2	1	---	---	78	1	27
Crossbucks.....	---	---	---	112	8	34	1,538	217	714	523	38	127	46	3	11	2,219	266	886
Stopsigns.....	---	---	---	5	---	2	7	---	4	9	---	---	---	---	---	21	---	6
Other Signs.....	---	---	---	---	---	---	2	---	---	2	---	---	---	---	---	4	---	---
No Signs Or Signl	---	---	---	1	---	2	22	3	3	15	---	---	1	---	---	39	3	5
Total.....	594	106	260	228	8	62	2,614	322	1,262	1,152	56	256	89	5	26	4,677	497	1,866

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

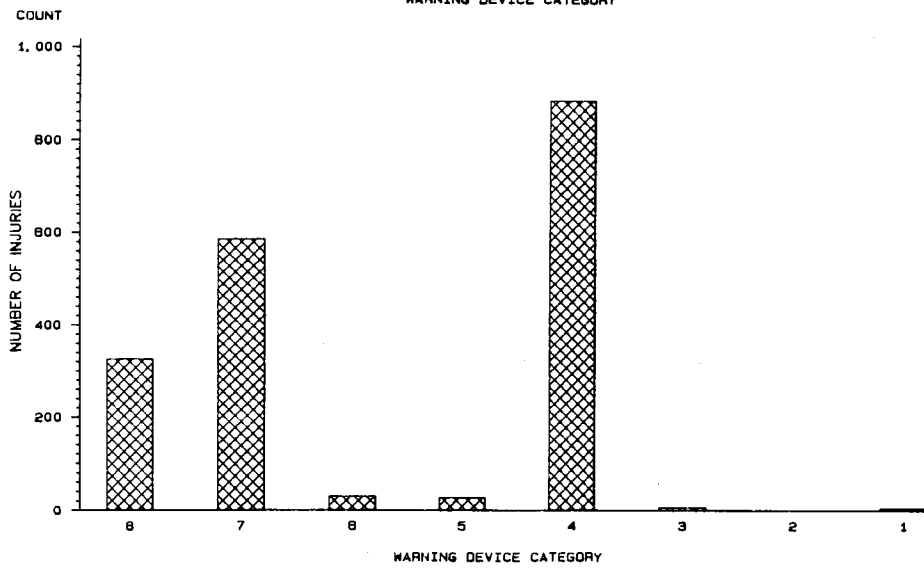
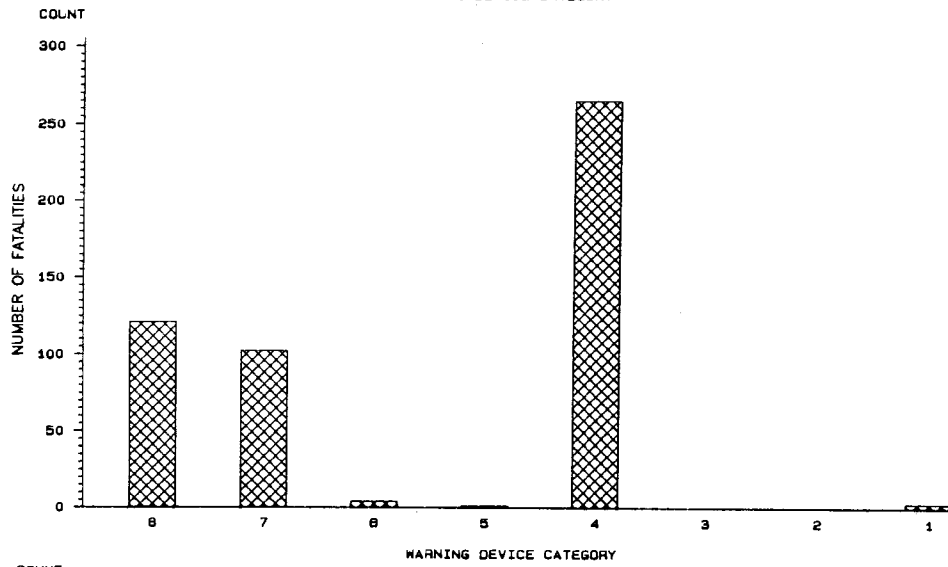
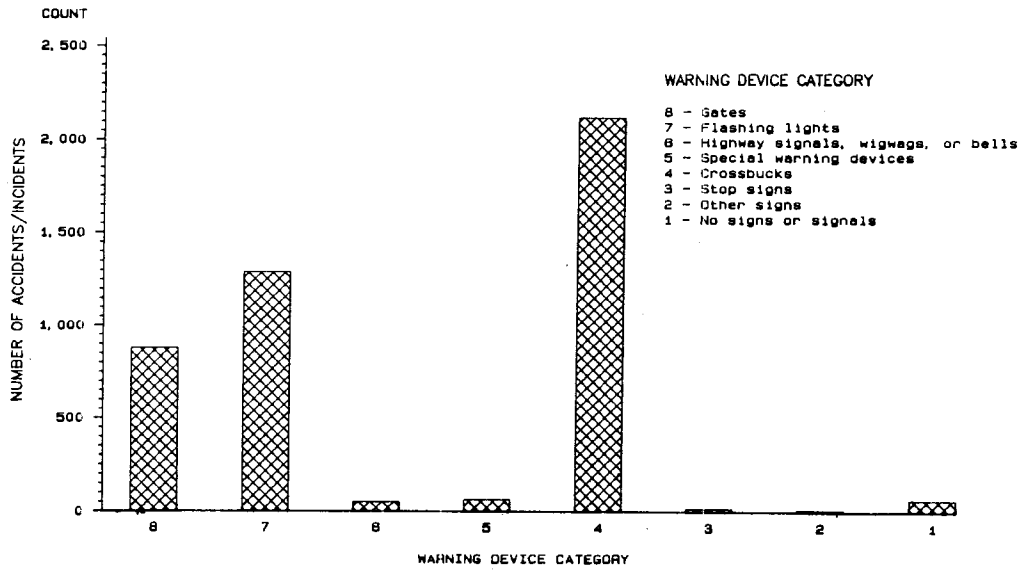


FIGURE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

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.....	897	5	22	31	279	32	402	8	54	6	112
Cantilever flashrs	337	3	4	5	122	6	81	4	69	2	55
Standard flashers	934	4	19	14	373	22	241	11	145	6	145
Hwy Sig, W, Bells	86	---	5	1	48	1	18	---	17	1	5
Special Devices..	---	---	78	---	21	2	15	---	9	6	24
Crossbucks.....	---	---	2,219	44	1,022	67	458	17	277	26	308
Stopsigns.....	---	---	21	---	13	---	4	1	---	---	3
Other Signs.....	---	---	4	---	3	---	1	---	---	---	---
No Signs Or Signl	---	---	39	---	21	1	9	---	---	---	---
Total.....	2,254	12	2,411	95	1,902	131	1,229	42	574	47	657

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

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

	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
Lighted.....	805	79	313	328	20	140	1,133	99	453
Not Lighted.....	1,923	263	732	719	47	358	2,642	310	1,090
Not Reported.....	606	70	196	260	14	117	866	84	313
Total.....	3,357	415	1,245	1,320	82	621	4,677	497	1,866

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

VISIBILITY

Warning Device	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	48	9	17	769	71	306	56	6	25	720	89	259	1,593	175	607
Automatic, Side Of Approach.....	3	---	---	40	1	10	5	---	---	21	5	12	69	6	22
Automatic, Opposite Side.....	---	---	---	8	1	---	---	---	---	1	---	2	9	1	2
Automatic, Side Not Reported.....	---	---	---	5	1	---	---	---	---	---	---	---	5	1	---
Manual, Both Sides.....	---	---	---	14	---	1	2	---	---	12	---	5	28	---	6
Manual, Side Of Approach.....	---	---	---	3	---	1	---	---	---	---	---	---	3	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported.....	---	---	---	4	---	---	---	---	---	3	---	1	7	---	1
Other, Both Sides.....	42	8	12	963	139	375	62	16	31	433	53	144	1,500	216	562
Other, Side Of Approach.....	2	---	1	48	7	14	5	---	6	26	1	14	81	8	35
Other, Opposite Side.....	---	---	---	10	2	3	---	---	---	2	---	---	12	2	3
Other, Side Not Reported.....	---	---	---	17	3	1	---	---	---	2	---	1	19	3	2
No Signs Or Signals.....	---	---	---	21	3	2	1	---	---	9	---	2	31	3	4
Total.....	95	17	30	1,902	228	713	131	22	62	1,229	148	440	3,357	415	1,245
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	22	---	7	265	14	120	14	---	3	300	29	165	601	43	295
Automatic, Side Of Approach.....	1	---	---	17	1	10	1	---	---	13	---	5	32	1	15
Automatic, Opposite Side.....	---	---	---	2	---	1	---	---	---	1	---	---	3	---	1
Automatic, Side Not Reported.....	---	---	---	1	---	---	---	---	---	3	---	---	4	---	---
Manual, Both Sides.....	1	---	---	7	---	---	4	---	---	20	1	16	32	1	16
Manual, Side Of Approach.....	---	---	---	---	---	---	1	---	---	1	---	---	2	---	---
Manual, Opposite Side.....	---	---	---	1	---	---	1	---	2	---	---	---	4	---	2
Manual, Side Not Reported.....	---	---	---	1	---	---	---	---	---	3	---	1	4	---	1
Other, Both Sides.....	16	3	4	264	11	118	23	1	6	288	17	133	591	32	261
Other, Side Of Approach.....	2	---	3	10	3	5	2	---	---	15	2	12	29	5	20
Other, Opposite Side.....	---	---	---	1	---	4	1	---	---	5	---	3	7	---	7
Other, Side Not Reported.....	---	---	---	2	---	1	---	---	---	3	---	1	5	---	2
No Signs Or Signals.....	---	---	---	3	---	1	---	---	---	5	---	---	8	---	1
Total.....	42	3	14	574	29	260	47	1	11	657	49	336	1,320	82	621
GRAND TOTAL															
Automatic, Both Sides.....	70	9	24	1,034	85	426	70	6	28	1,020	118	424	2,194	218	902
Automatic, Side Of Approach.....	4	---	---	57	2	20	6	---	---	34	5	17	101	7	37
Automatic, Opposite Side.....	---	---	---	10	1	1	---	---	---	2	---	2	12	1	3
Automatic, Side Not Reported.....	---	---	---	6	1	---	---	---	---	3	---	---	9	1	---
Manual, Both Sides.....	1	---	---	21	---	1	6	---	---	32	1	21	60	1	22
Manual, Side Of Approach.....	---	---	---	3	---	1	1	---	---	1	---	---	5	---	1
Manual, Opposite Side.....	---	---	---	1	---	---	1	---	2	---	---	---	2	---	2
Manual, Side Not Reported.....	---	---	---	5	---	---	---	---	---	6	---	2	11	---	2
Other, Both Sides.....	58	11	16	1,227	150	493	85	17	37	721	70	277	2,091	248	823
Other, Side Of Approach.....	4	---	4	58	10	19	7	---	6	41	3	26	110	13	55
Other, Opposite Side.....	---	---	---	11	2	7	1	---	---	7	---	3	19	2	10
Other, Side Not Reported.....	---	---	---	19	3	2	---	---	---	5	---	2	24	3	4
No Signs Or Signals.....	---	---	---	24	3	3	1	---	---	14	---	2	39	3	5
Total.....	137	20	44	2,476	257	973	178	23	73	1,886	197	776	4,677	497	1,866

Note: Automatic devices include gates, flashing lights, and other devices which are activated by the approach of a rail consist. Manual devices include "Watchman" 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.....	95	17	30	42	3	14	137	20	44
Day.....	1,902	228	713	574	29	260	2,476	257	973
Dusk.....	131	22	62	47	1	11	178	23	73
Dark.....	1,229	148	440	657	49	336	1,886	197	776
Total.....	3,357	415	1,245	1,320	82	621	4,677	497	1,866

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

Temperature	CIRCUMSTANCE											
	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	4	1	---	---	2	---	---	---	6	1	---
80 To 100.....	6	588	26	74	1	180	4	38	7	768	30	112
60 To 79.....	34	613	38	388	11	189	16	218	45	802	54	606
40 To 59.....	34	411	39	437	18	99	16	190	52	510	55	627
20 To 39.....	18	236	20	284	12	80	10	167	30	316	30	451
0 To 19.....	3	45	7	44	---	21	1	37	3	66	8	81
-20 To -1.....	---	5	---	2	---	3	---	5	---	8	---	7
Under -20.....	---	---	---	---	---	---	---	2	---	---	---	2
Not Reported....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	95	1,902	131	1,229	42	574	47	657	137	2,476	178	1,886

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

TIME	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	113	22	34	59	3	24	172	25	58
1 TO 1:59 AM...	76	13	26	66	8	32	142	21	58
2 TO 2:59 AM...	90	8	23	57	8	32	147	16	55
3 TO 3:59 AM...	75	7	33	30	6	20	105	13	53
4 TO 4:59 AM...	51	6	21	41	2	17	92	8	38
5 TO 5:59 AM...	62	8	15	33	2	16	95	10	31
6 TO 6:59 AM...	107	23	32	56	5	16	163	28	48
7 TO 7:59 AM...	134	22	46	43	4	24	177	26	70
8 TO 8:59 AM...	165	20	64	48	3	19	213	23	83
9 TO 9:59 AM...	152	15	62	55	3	18	207	18	80
10 TO 10:59 AM.	180	24	56	48	2	16	228	26	72
11 TO 11:59 AM.	181	24	95	50	---	19	231	24	114
NOON TO 12:59 PM.	169	23	56	62	6	33	231	29	89
1 TO 1:59 PM...	182	18	57	54	1	25	236	19	82
2 TO 2:59 PM...	187	16	83	63	5	34	250	21	117
3 TO 3:59 PM...	184	19	71	48	1	23	232	20	94
4 TO 4:59 PM...	184	23	55	52	2	23	236	25	78
5 TO 5:59 PM...	185	29	70	48	1	12	233	30	82
6 TO 6:59 PM...	180	19	76	66	1	39	246	20	115
7 TO 7:59 PM...	173	17	72	64	2	38	237	19	110
8 TO 8:59 PM...	116	17	28	71	5	36	187	22	64
9 TO 9:59 PM...	148	13	61	69	2	30	217	15	91
10 TO 10:59 PM.	140	17	66	74	6	38	214	23	104
11 TO 11:59 PM.	123	12	43	63	4	37	186	16	80
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	3,357	415	1,245	1,320	82	621	4,677	497	1,866

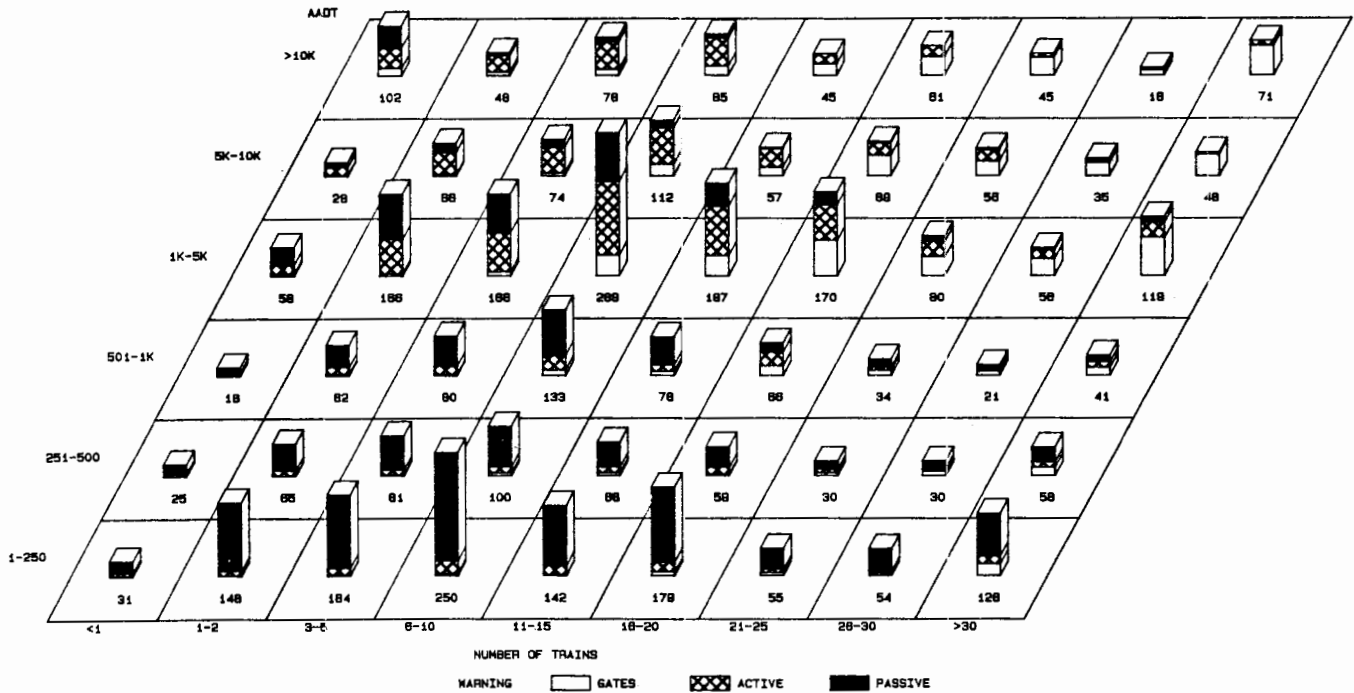
TABLE 29. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE

Month	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	352	49	137	172	10	72	524	59	209
February.....	277	35	97	104	5	60	381	40	157
March.....	284	39	124	112	11	65	396	50	189
April.....	228	23	88	96	5	35	324	28	123
May.....	264	42	92	85	6	35	349	48	127
June.....	227	26	85	90	7	56	317	33	141
July.....	269	31	116	92	6	52	361	37	168
August.....	256	38	77	127	11	52	383	49	129
September.....	255	31	112	93	6	54	348	37	166
October.....	287	34	103	112	5	50	399	39	153
November.....	314	35	109	117	2	46	431	37	155
December.....	344	32	105	120	8	44	464	40	149
Total.....	3,357	415	1,245	1,320	82	621	4,677	497	1,866

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

Weather	CIRCUMSTANCE								Total			
	Struck By		Consist		Ran Into		Consist		Dawn	Day	Dusk	Dark
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark				
Clear.....	50	1,344	76	735	21	375	27	378	71	1,719	103	1,113
Cloudy.....	22	417	40	280	9	117	11	144	31	534	51	424
Rain.....	9	106	12	143	7	56	3	79	16	162	15	222
Fog.....	11	11	---	31	4	5	2	22	15	16	2	53
Sleet.....	---	1	---	2	---	1	1	8	---	2	1	10
Snow.....	3	23	3	36	1	20	3	25	4	43	6	61
Not Reported.....	---	---	---	2	---	---	---	1	---	---	---	3
Total.....	95	1,902	131	1,229	42	574	47	657	137	2,476	178	1,886

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

CIRCUMSTANCE

Type Obstruction	---Struck By Consist---				---Ran Into Consist---				---Total---			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	1	49	4	20	1	20	---	14	2	69	4	34
Standing RR Equipment.	2	17	2	5	---	2	---	2	2	19	2	7
Passing Train.....	---	9	2	4	---	4	2	3	---	13	4	7
Topography.....	---	22	1	13	---	5	2	1	---	27	3	14
Vegetation.....	---	41	1	7	1	18	3	10	1	59	4	17
Highway Vehicle.....	---	9	---	4	---	2	---	1	---	11	---	5
Other.....	3	24	2	7	---	8	---	6	3	32	2	13
Not Obstructed.....	89	1,731	119	1,167	40	514	40	620	129	2,245	159	1,787
Unknown.....	---	---	---	2	---	1	---	---	---	1	---	2
Total.....	95	1,902	131	1,229	42	574	47	657	137	2,476	178	1,886

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

MOTORIST ACTION

Type Of Vehicle	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	75	2,956	26	119	2,736	202
Truck.....	39	1,147	14	45	1,048	107
Truck-trailer....	10	387	1	6	376	16
Bus.....	---	8	---	---	8	---
School bus.....	---	3	---	---	3	---
Motorcycle.....	---	10	1	---	8	3
Total.....	124	4,511	42	170	4,179	328

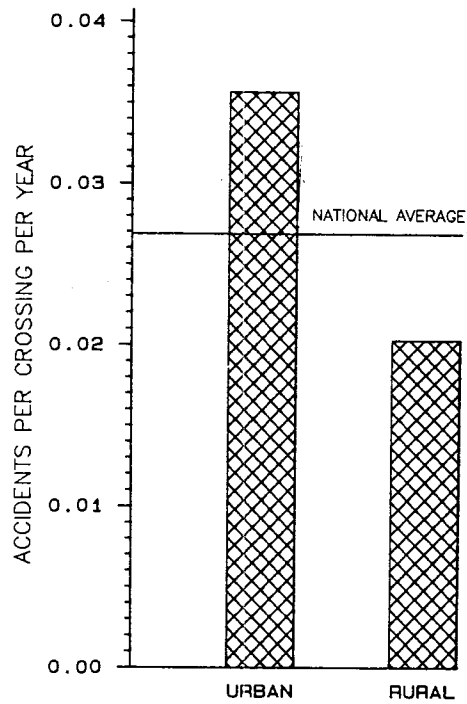


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

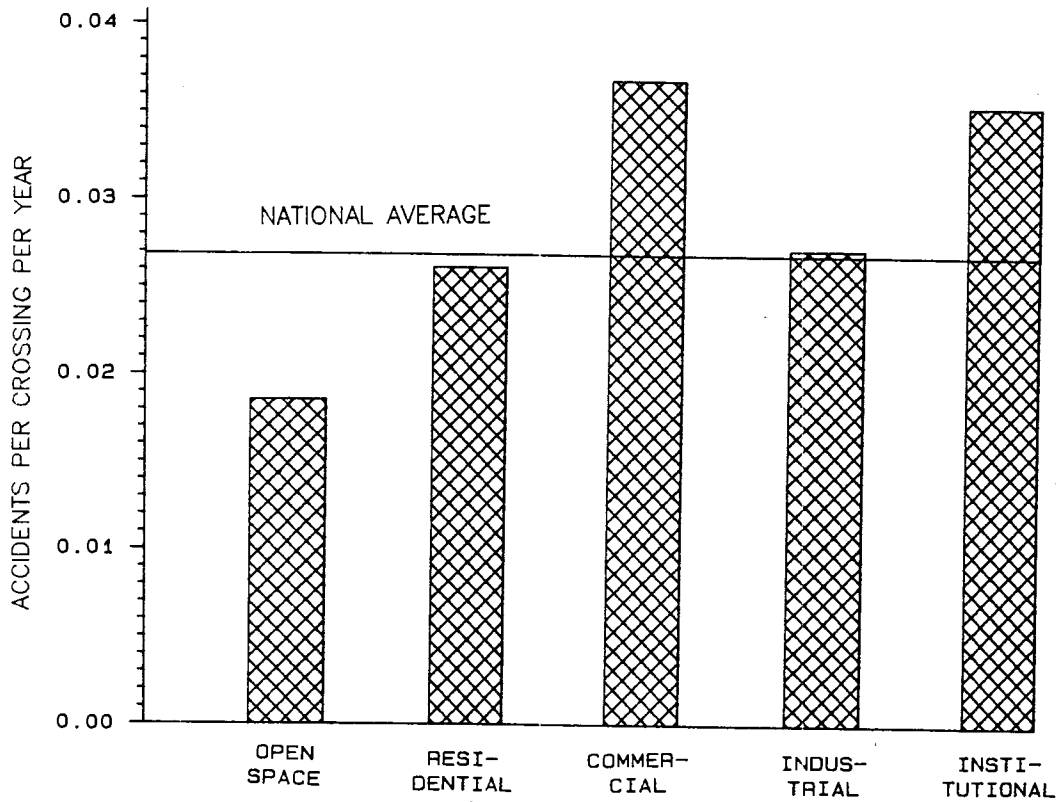


FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

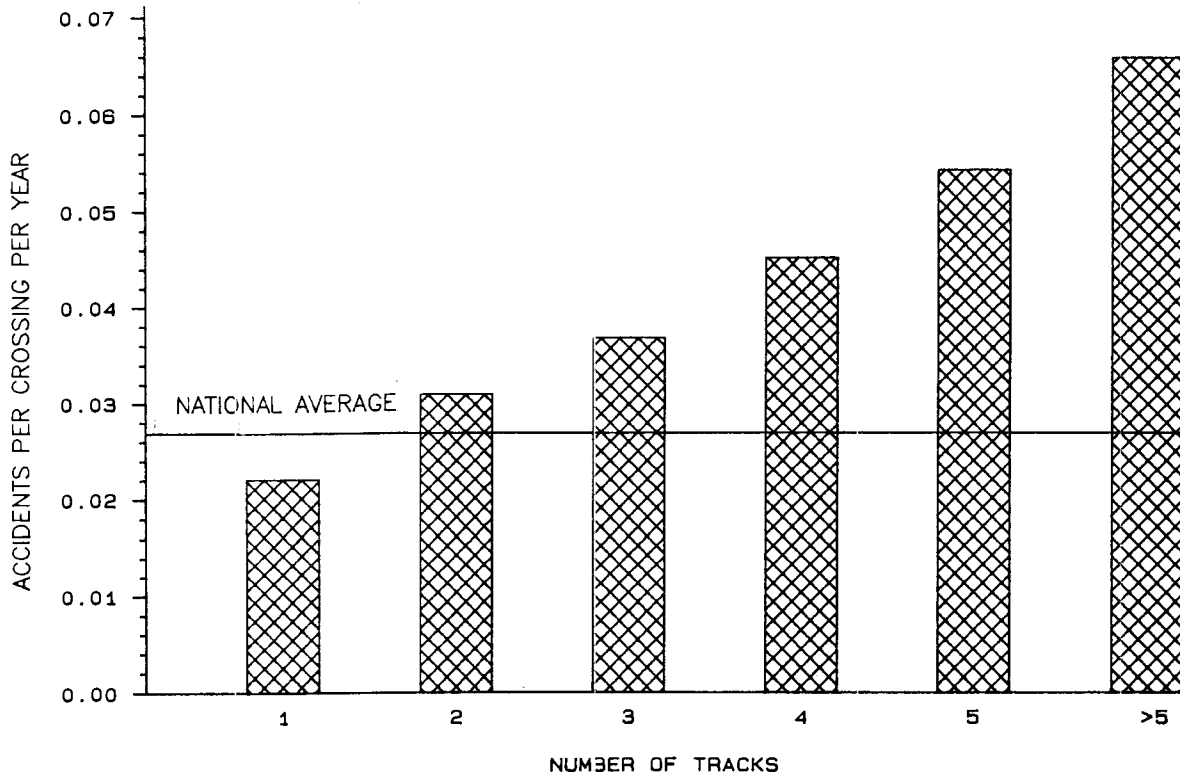


FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

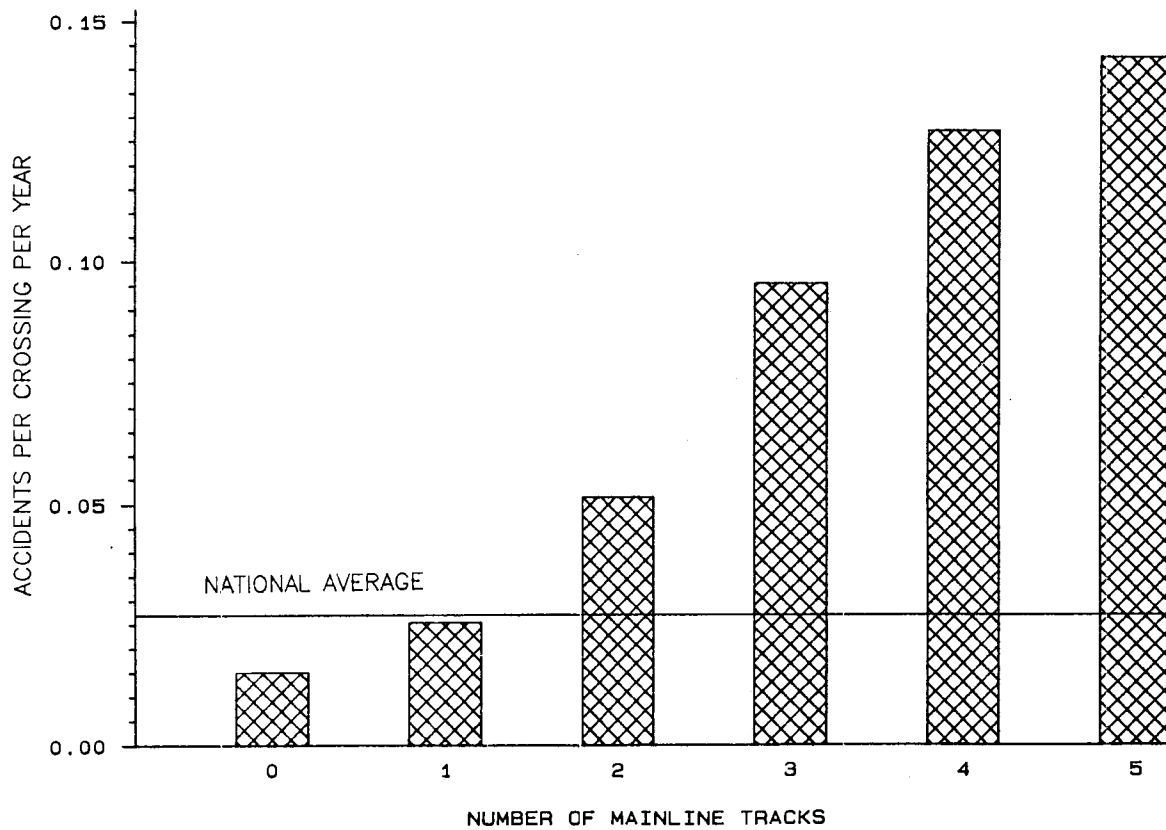


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

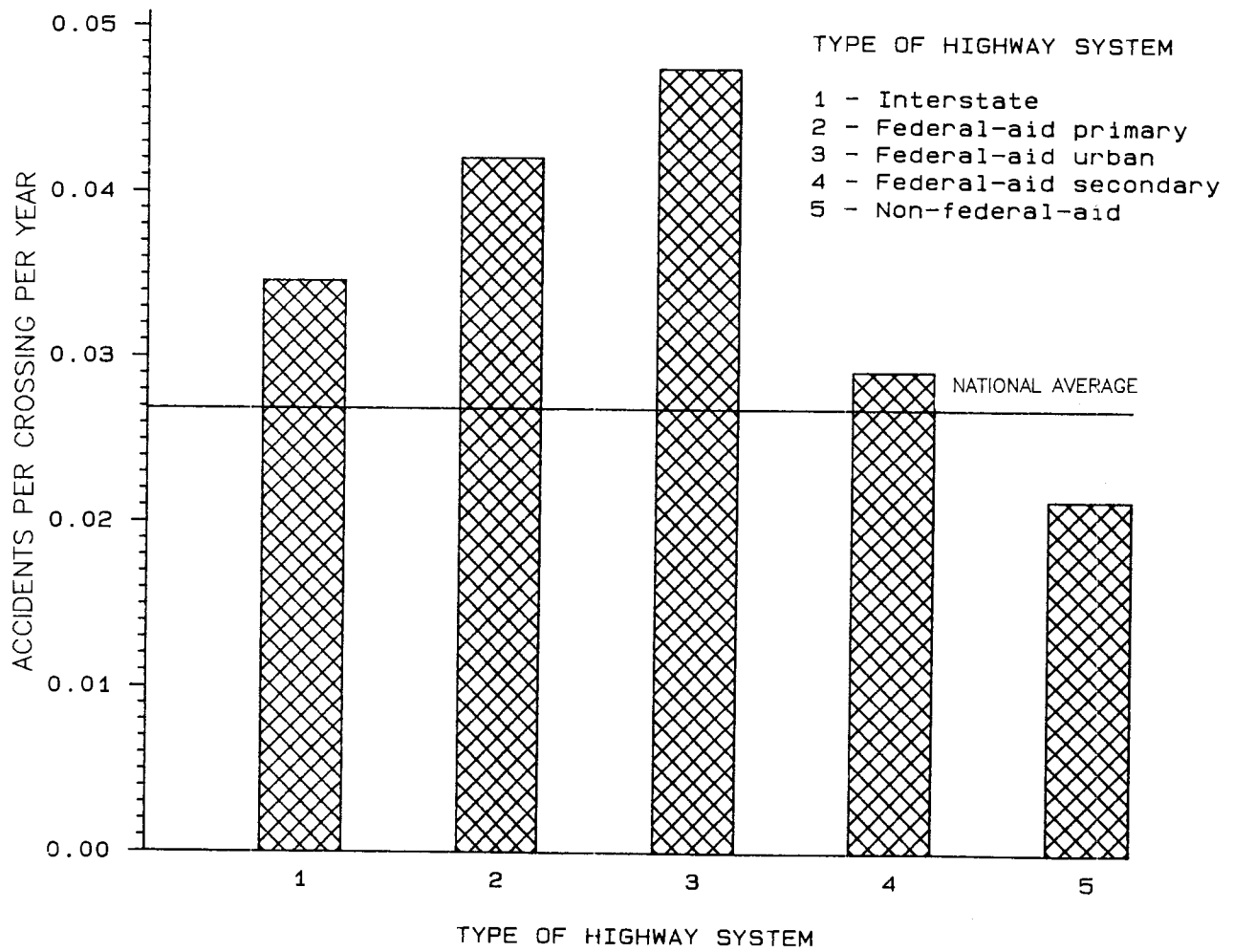


FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

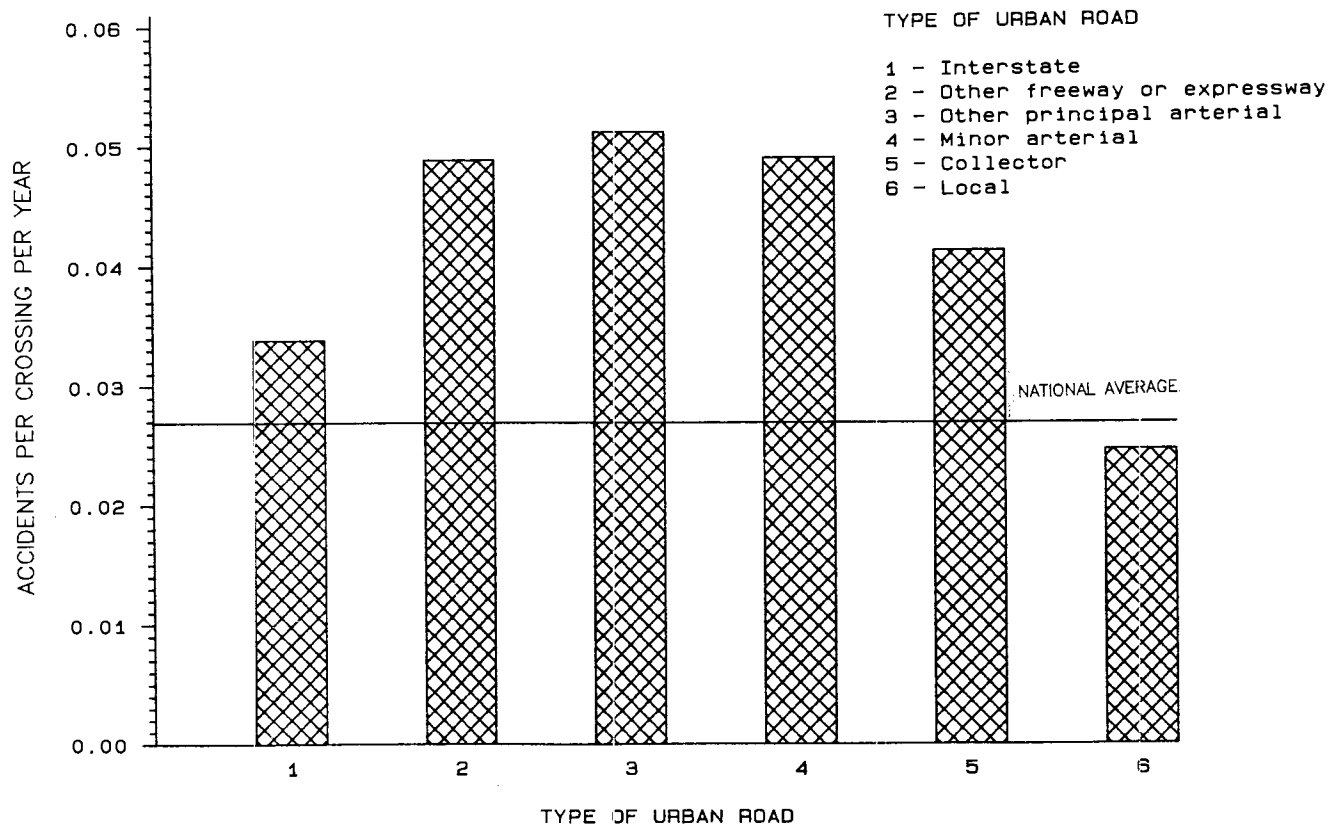


FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

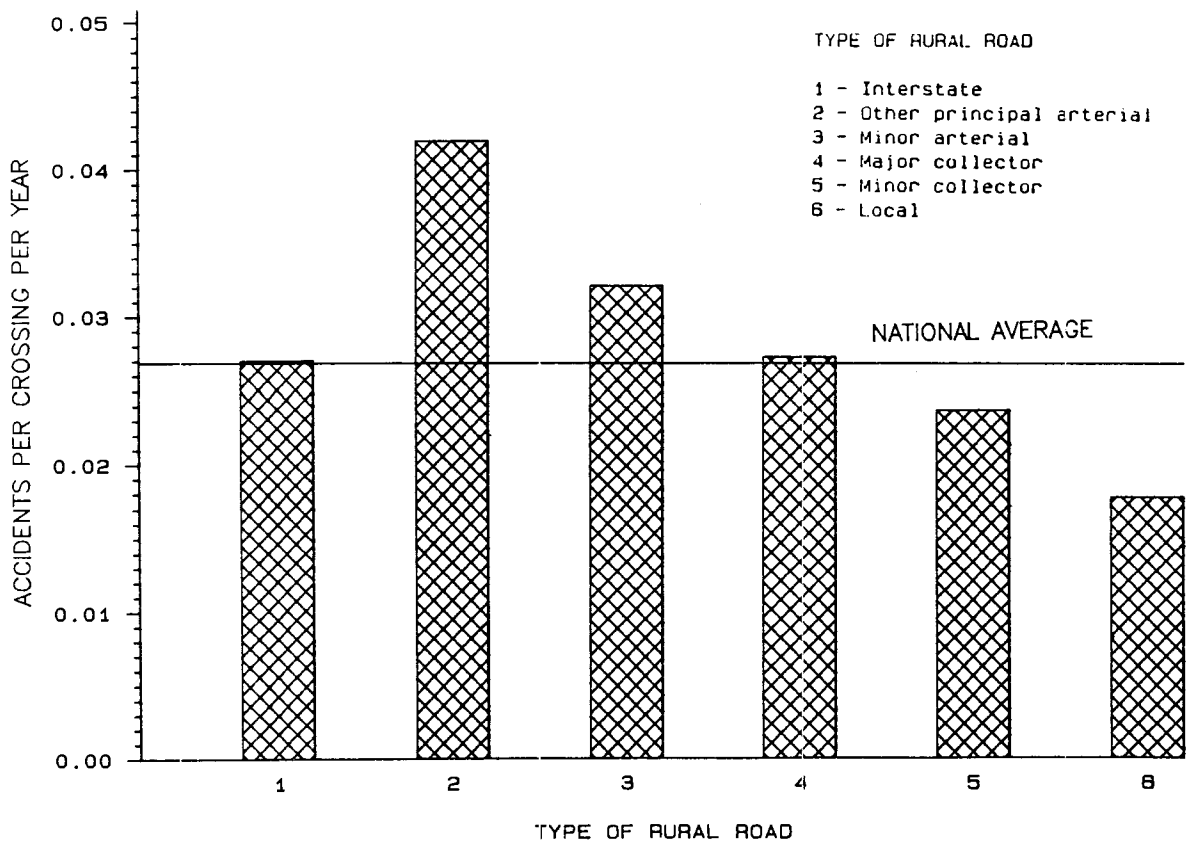


FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

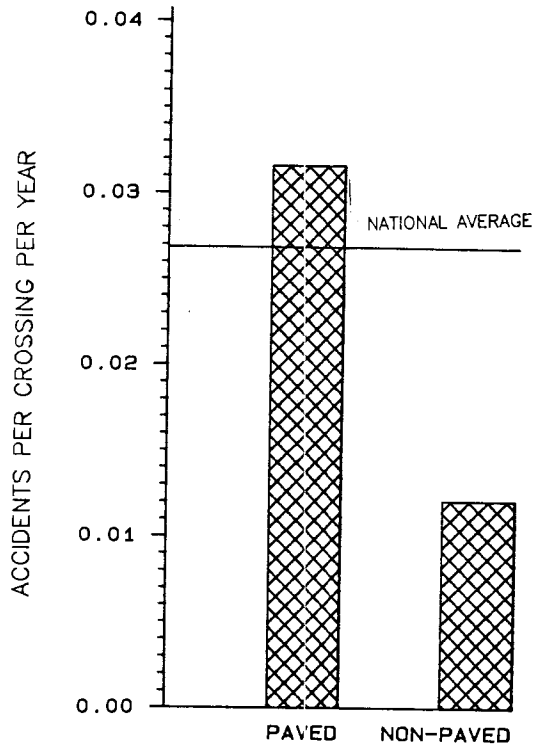


FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

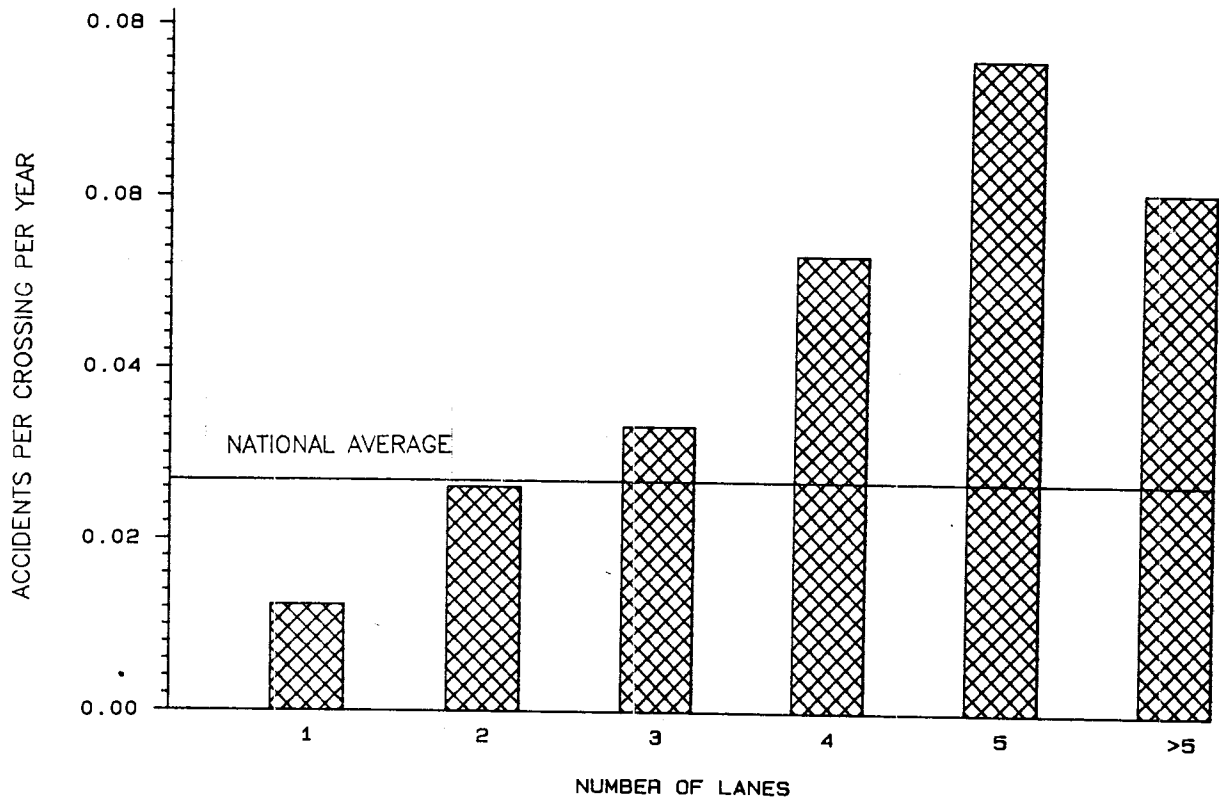


FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

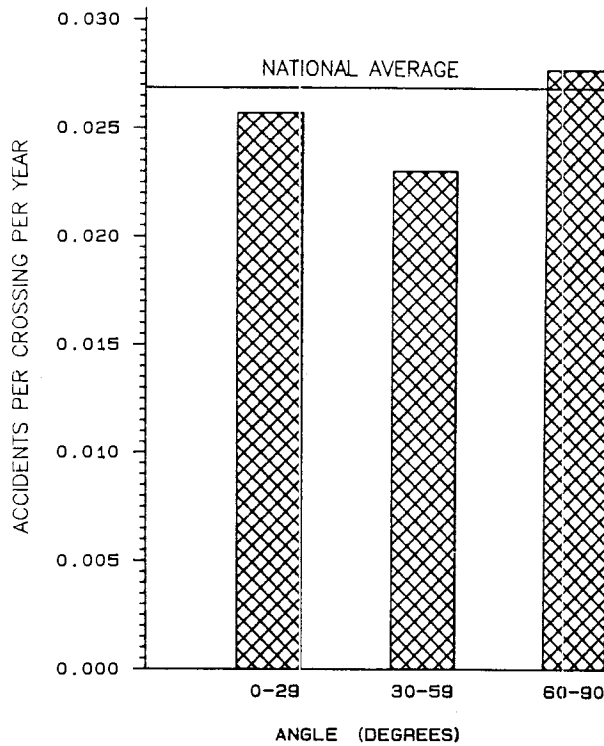


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

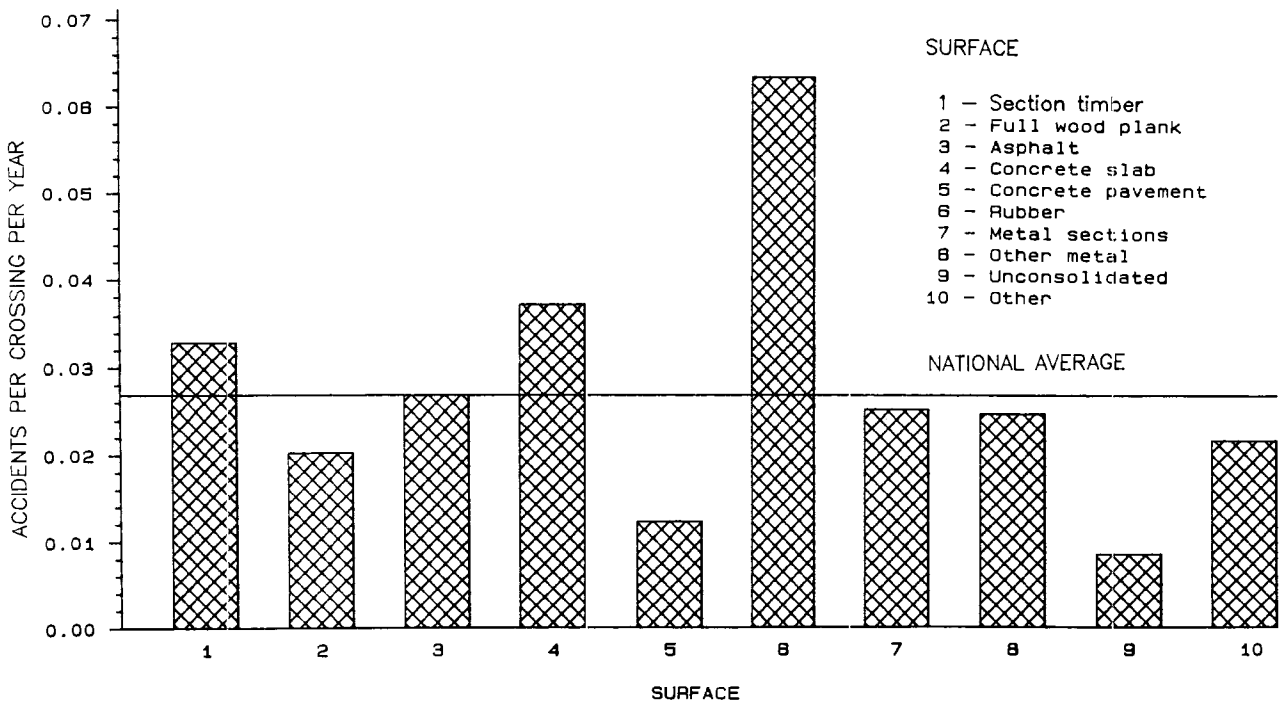


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

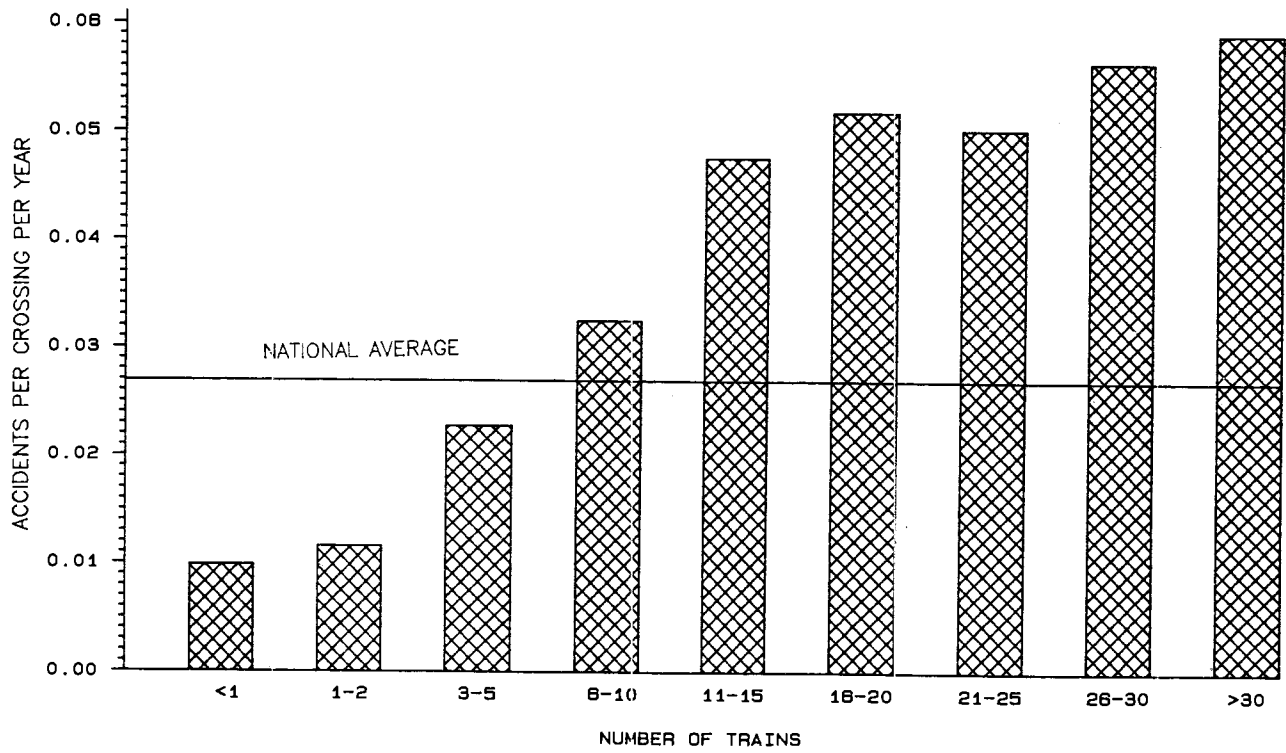


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

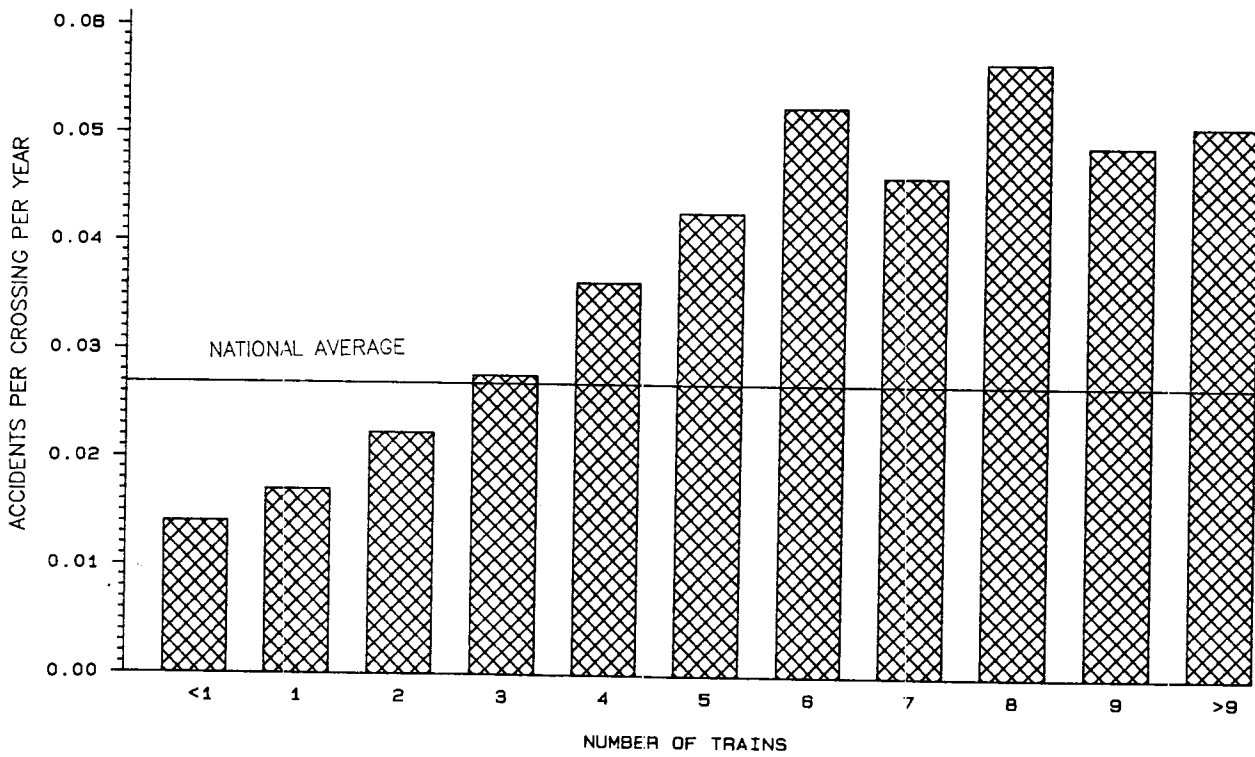


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM TO 6PM)

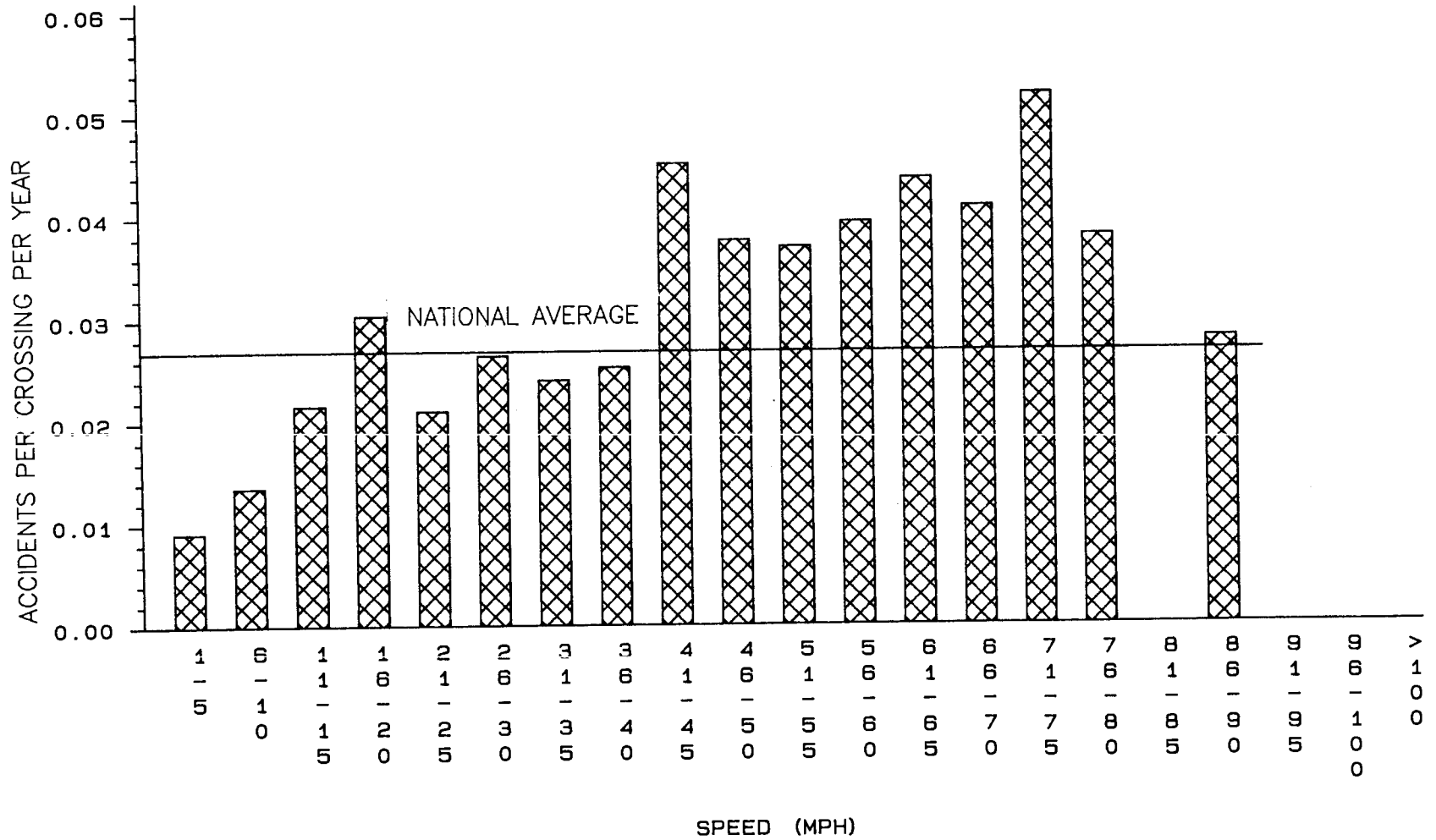


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

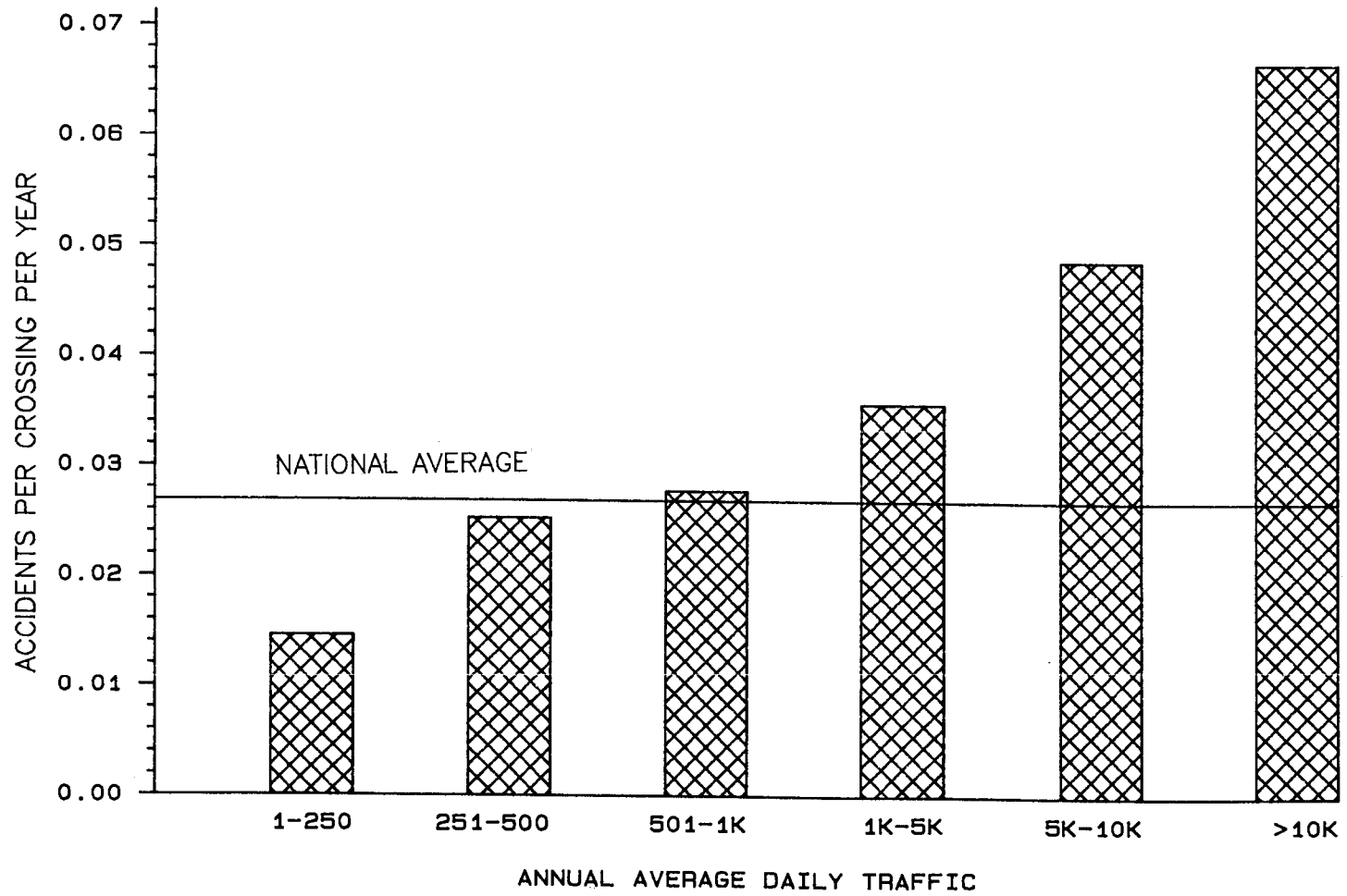


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

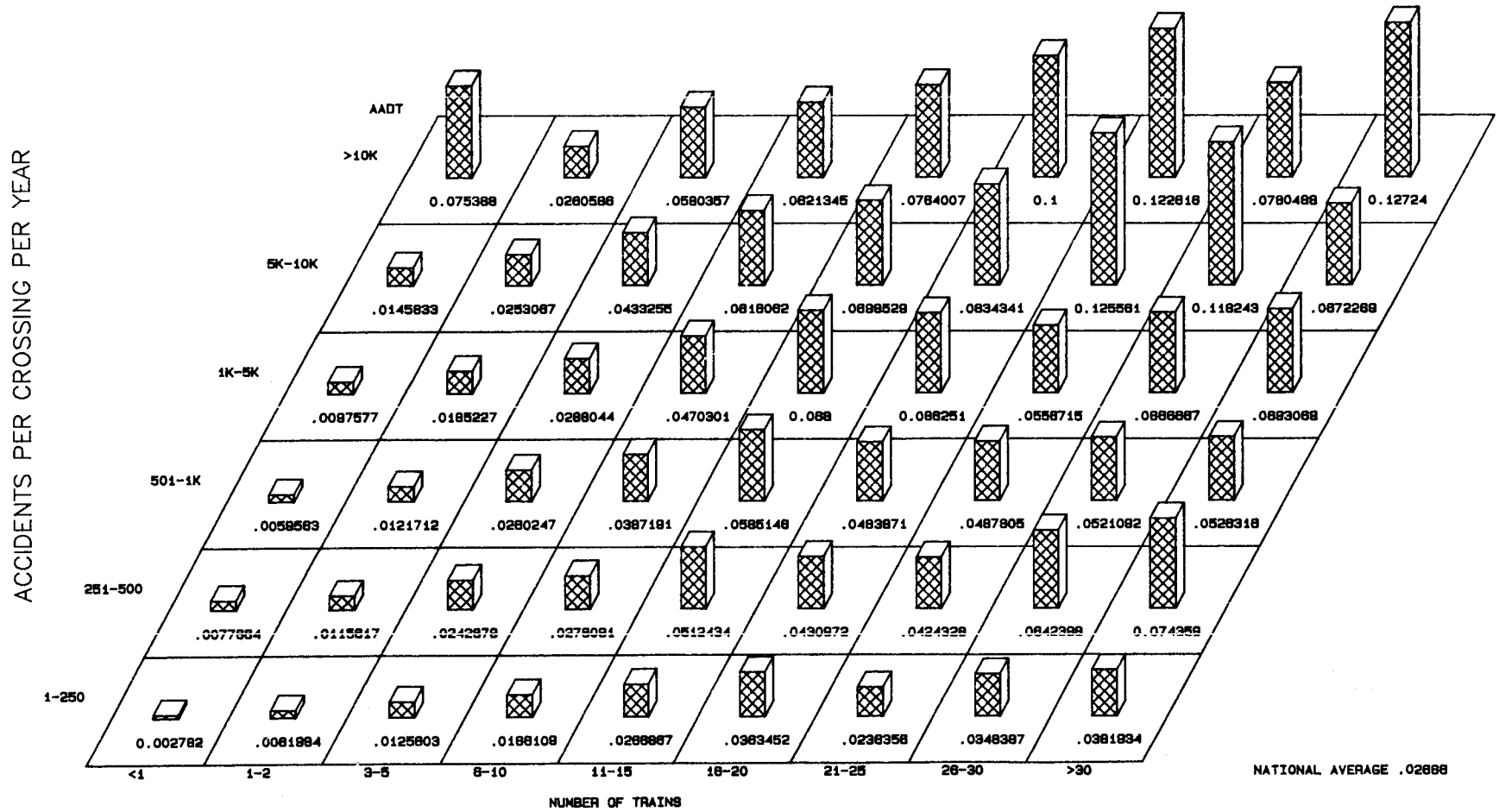


FIGURE 23. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

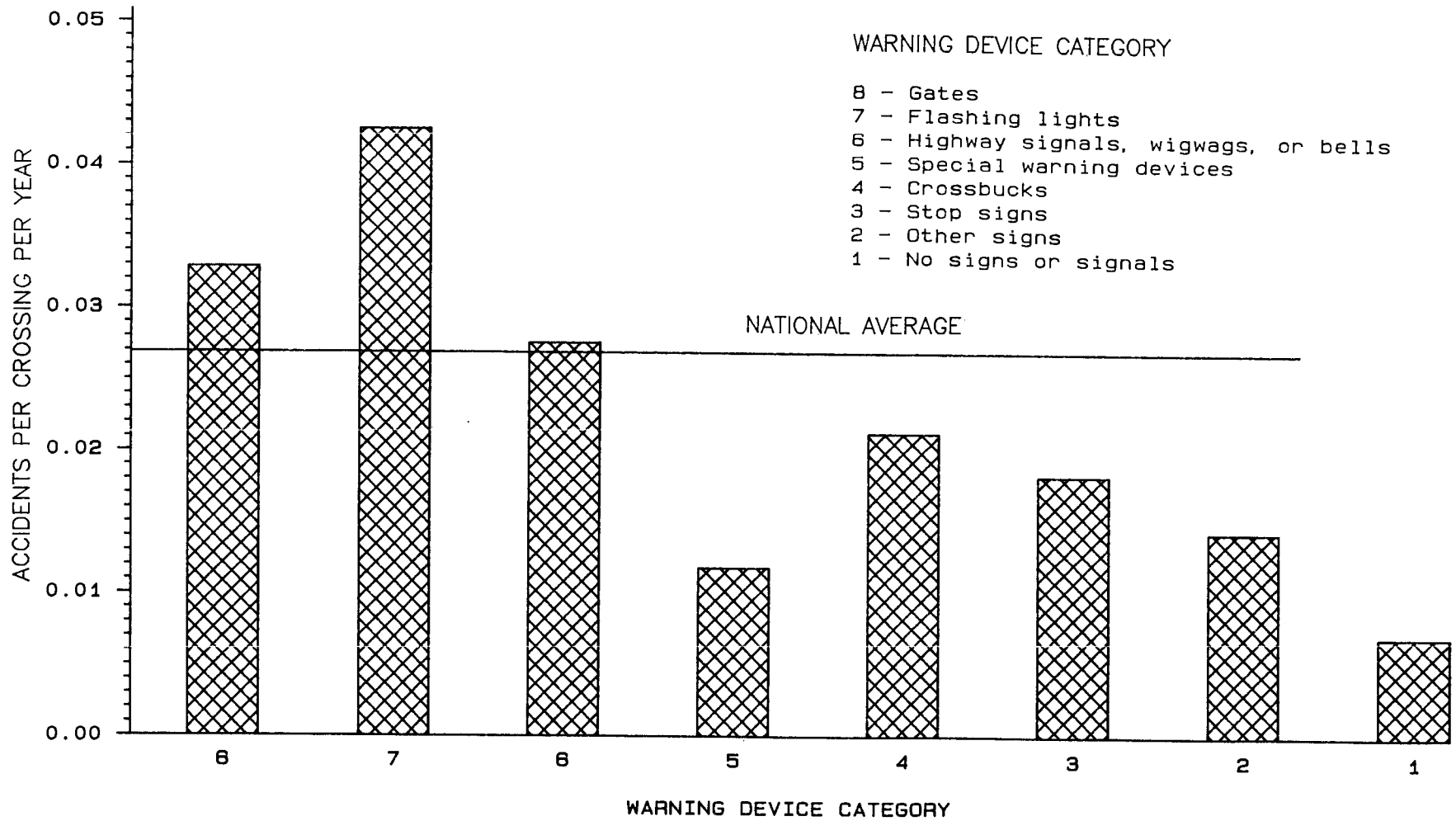


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

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	4,226	489	186	2,241	22	7,164
Alaska	227	11	6	109	12	365
Arizona	962	88	86	814	8	1,958
Arkansas	3,397	178	120	1,637	18	5,350
California	8,254	937	563	5,265	252	15,271
Colorado	2,176	197	116	1,523	14	4,026
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	4,108	212	74	1,513	67	5,974
Georgia	6,518	561	256	3,001	43	10,379
Hawaii	6	0	0	0	0	6
Idaho	1,710	93	67	1,479	10	3,359
Illinois	10,487	927	1,918	6,153	400	19,885
Indiana	7,067	482	603	3,410	113	11,675
Iowa	5,806	489	350	4,425	61	11,131
Kansas	8,360	357	216	4,452	36	13,421
Kentucky	2,926	435	444	3,208	91	7,104
Louisiana	4,239	227	123	3,704	52	8,345
Maine	923	130	80	963	14	2,110
Maryland	712	316	207	793	28	2,056
Massachusetts	1,197	796	436	589	103	3,121
Michigan	6,025	342	407	2,908	97	9,779
Minnesota	5,675	479	366	3,444	75	10,039
Mississippi	3,047	223	113	2,117	16	5,516
Missouri	4,966	641	413	3,514	98	9,632
Montana	1,551	137	83	2,167	20	3,958
Nebraska	4,209	213	127	2,928	19	7,496
Nevada	271	50	38	257	4	620
New Hampshire	503	118	52	364	13	1,050
New Jersey	1,915	534	728	674	126	3,977
New Mexico	826	69	79	645	4	1,623
New York	3,365	1,356	1,099	3,413	297	9,530
North Carolina	4,941	501	288	3,718	69	9,517
North Dakota	4,873	78	86	2,200	24	7,261
Ohio	7,498	1,164	1,146	4,807	104	14,719
Oklahoma	4,690	259	194	1,846	18	7,007
Oregon	2,408	286	178	3,101	100	6,073
Pennsylvania	5,728	1,568	1,905	3,785	325	13,311
Rhode Island	128	107	38	78	5	356
South Carolina	3,453	391	126	1,537	15	5,522
South Dakota	2,194	88	46	1,429	6	3,763
Tennessee	3,455	500	478	2,165	39	6,637
Texas	13,235	855	789	6,796	48	21,723
Utah	1,029	117	48	809	7	2,010
Vermont	515	80	83	768	52	1,498
Virginia	2,361	605	468	3,501	68	7,003
Washington	3,066	367	310	3,371	107	7,221
West Virginia	2,298	279	359	2,866	105	5,907
Wisconsin	5,203	435	339	3,283	157	9,417
Wyoming	536	113	46	1,048	8	1,751
Puerto Rico	24	0	0	2	0	26
FINAL TOTALS	174,094	19,282	16,632	115,425	3,441	328,874

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

Railroad	Public At Grade	RR Under	RR Over	Private	Pedestrian	Total	
AFLR	ALABAMA AND FLORIDA RAILROAD	150	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	539	489	98	76	1,368
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	252	7	14	97	0	370
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	9,205	680	632	5,526	86	16,129
ASAB	ATLANTA & SAINT ANDREWS BAY RAILWAY COMPANY	137	6	1	70	1	215
AGLF	ATLANTIC AND GULF RAILROAD	111	4	3	44	0	162
AUNW	AUSTIN AND NORTHWESTERN RAILROAD	168	8	7	111	1	295
BOCT	BALTIMORE & OHIO CHICAGO TERMINAL RAILROAD	111	30	84	39	7	271
BAR	BANGOR AND AROOSTOOK RAILROAD	165	12	23	385	7	592
BLE	BESSEMER & LAKE ERIE RAILROAD COMPANY	140	35	49	99	2	325
BLOL	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	122	0	0	54	0	177
BM	BOSTON AND MAINE CORPORATION	959	450	216	505	55	2,185
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	339	48	56	298	7	748
BN	BURLINGTON NORTHERN RAILROAD COMPANY	19,537	1,515	1,178	13,311	319	35,860
CSP	CAMAS PRAIRIE RAILROAD COMPANY	107	4	18	114	3	246
CVIC	CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	100	16	6	92	4	218
CVAR	CEDAR VALLEY RAILROAD	192	7	3	104	0	306
CMGN	CENTRAL MICHIGAN RAILWAY COMPANY	476	29	12	246	9	772
CV	CENTRAL VERMONT RAILWAY, INC.	178	54	47	233	8	520
CIM	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	110	4	4	65	0	183
CNM	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	6,239	576	743	4,500	167	12,225
CMNH	CHICAGO MISSOURI & WESTERN RAILWAY	146	30	20	121	8	325
CS	CHICAGO SOUTHWEST & SOUTH BEND RAILROAD	0	13	18	28	3	72
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	904	88	79	756	28	1,855
CAGY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	337	4	1	314	3	659
CR	CONSOLIDATED RAIL CORPORATION	14,184	3,349	3,561	8,400	449	29,943
CSX	CSX TRANSPORTATION	20,892	2,636	1,958	13,993	506	39,985
DH	D & H CORPORATION	320	84	93	483	25	1,005
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	867	21	33	608	2	1,531
DRGW	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	866	137	67	682	7	1,759
DOD	DEPARTMENT OF DEFENSE	277	3	5	236	5	526
DM	DETROIT AND MACKINAC RAILWAY COMPANY	362	8	1	208	10	589
DMIR	DULUTH, MISSABE AND IRON RANGE RAILWAY COMP	194	26	33	147	8	408
EJE	ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	31	3	28	104	0	364
ELS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	247	4	2	163	4	460
FCEN	FLORIDA CENTRAL RAILROAD CO	152	3	5	58	10	228
FEC	FLORIDA EAST COAST RAILWAY COMPANY	703	33	5	80	13	834
FRVR	FOX RIVER VALLEY RAILROAD CORPORATION	438	31	18	220	19	726
GHH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	100	6	7	22	2	137
GSF	GEORGIA SOUTHERN & FLORIDA COMPANY	144	9	1	89	0	243
GSMR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	282	19	3	165	0	469
GNBC	GRAINBELT CORPORATION	255	2	8	93	0	358
GTW	GRAND TRUNK WESTERN RAILROAD COMPANY	1,166	101	178	502	24	1,971
GBH	GREEN BAY AND WESTERN RAILROAD COMPANY	315	10	3	255	0	583
GSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	166	52	29	460	2	1,191
HCRC	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	127	3	2	71	0	203
HBT	HOUSTON BELT & TERMINAL RAILWAY COMPANY	247	25	15	57	5	309
HESR	HURON & EASTERN RAILWAY	218	0	0	143	0	351
IC	ILLINOIS CENTRAL RAILROAD COMPANY	2,911	333	333	1,779	85	5,441
IHRC	INDIANA HI-RAIL CORPORATION	242	5	2	110	2	361
INRD	INDIANA RAIL ROAD COMPANY	416	22	38	162	3	641
IAIS	IOWA INTERSTATE RAILROAD	474	59	43	342	7	925
IANR	IOWA NORTHERN RAILWAY COMPANY	205	5	5	120	0	335
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	1,026	99	78	482	9	1,694
KCT	KANSAS CITY TERMINAL RAILWAY COMPANY	158	47	26	105	1	337
KRR	KIAMICHI RAILROAD COMPANY, INC.	234	5	11	106	0	356
LVR	LAMOTHE VALLEY RAILROAD COMPANY	117	3	8	148	2	274
LI	LONG ISLAND RAIL ROAD	366	294	105	82	88	873
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	710	60	33	58	5	1,366
LDRR	LOUISIANA & DELTA RAILROAD	229	1	0	210	0	440
MDTT	MAINE DEPARTMENT OF TRANSPORTATION	154	23	14	84	2	277
MPA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	119	6	5	21	1	142
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	134	4	0	122	2	262
MMRR	MID-MICHIGAN RAILROAD COMPANY	116	4	0	90	3	213
MSPA	MIDD STATES PORT AUTHORITY	419	17	20	172	1	619
MSRC	MIDSOUTH RAIL CORPORATION	515	72	25	273	2	887
MNRR	MINNESOTA COMMERCIAL RAILWAY	111	0	2	5	0	108
MWA	MOVA RAILROAD, INC. (FORMERLY MINNESOTA VAL	144	2	0	101	1	208
MRL	MOHAWK RAIL LINK	461	52	22	693	4	1,232
NERR	NASHVILLE & EASTERN RAILROAD	157	11	11	155	1	375
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	373	197	296	108	64	1,038
NOPB	NEW ORLEANS PUBLIC BELT RAILROAD	117	6	8	164	2	297
NYSW	NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD	251	21	9	233	4	518
NW	NORFOLK AND WESTERN RAILWAY COMPANY	5,612	673	962	4,825	101	12,173
NWP	NORTHWESTERN PACIFIC RAILROAD COMPANY	119	26	4	188	7	344
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	424	18	9	122	1	574
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	134	12	8	111	1	266
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	177	12	12	161	1	363
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	265	53	49	186	2	555
PLE	PITTSBURGH & LAKE ERIE RAILROAD COMPANY	109	53	35	114	18	329
PACY	PRAIRIE CENTRAL RAILWAY COMPANY	106	13	2	61	1	158
PARY	PRAIRIE TRUNK RAILWAY	172	1	0	37	0	255
PW	PROVIDENCE AND WORCESTER RAILROAD COMPANY	174	65	46	134	8	427
RRVW	RED RIVER VALLEY & WESTERN RAILROAD	763	4	3	318	0	1,088
SWGR	SEAGRAVES, WHITEFACE AND LUBBOCK RAILROAD C	123	1	2	43	0	169
SGLR	SEMINOLE GULF RAILROAD	159	7	0	31	0	197
S00	S00 LINE RAILROAD COMPANY	4,951	384	393	3,280	108	9,116
SCR	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	235	7	3	83	3	331
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	321	9	2	284	1	617
SEKR	SOUTHEAST KANSAS RAILROAD	160	0	2	16	0	178
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	160	114	174	75	50	675
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	9,805	985	615	6,754	238	18,397
SSHN	SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORA	268	18	27	95	33	441
SOU	SOUTHERN RAILWAY COMPANY	11,869	1,348	797	7,482	67	21,563
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	34	3	0	3	0	40
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	375	77	34	285	3	774
SSW	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	2,056	114	78	818	2	3,068
SUB	STATE SUBSIDY	271	35	31	149	2	488
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	136	14	13	73	1	237
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	146	40	26	13	0	225
TM	TEXAS MEXICAN RAILWAY COMPANY	239	9	2	195	0	445
TPM	TOLEDO, PEORIA & WESTERN RAILWAY CORPORATIO	441	11	3	270	6	731
TSBY	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	595	20	7	244	10	876
UP	UNION PACIFIC RAILROAD COMPANY	19,112	1,514	967	12,692	184	34,469
WCRC	WASHINGTON CENTRAL RAILROAD COMPANY	348	17	13	337	0	715
WE	WHEELING & LAKE ERIE RAILWAY COMPANY	540	58	50	410	3	1,061
WTRY	WILMINGTON TERMINAL RAILROAD INC.	287	10	2	120	2	421
WM	WINCHESTER AND WESTERN RAILROAD COMPANY	116	7	3	69	0	195
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	110	6	6	158	3	283
WSOR	WISCONSIN AND SOUTHERN RAILWAY COMPANY	125	0	0	6	1	132
WICT	WISCONSIN CALUMET RAILROAD	415	29	14	357	12	827
WC	WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	2,029	93	85	1,164	29	3,400
	All Other Railroads	16,604	1,295	1,290	12,539	349	32,077
FINAL TOTALS		174,094	19,282	16,632	115,425	3,441	328,874

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

State	Urban	Rural	Total
Alabama.....	1,964	2,262	4,226
Alaska.....	88	139	227
Arizona.....	482	480	962
Arkansas.....	1,305	2,092	3,397
California.....	6,026	2,228	8,254
Colorado.....	749	1,427	2,176
Connecticut.....	397	106	503
Delaware.....	79	186	265
Dist of Columbia.	37	---	37
Florida.....	2,385	1,723	4,108
Georgia.....	2,338	4,180	6,518
Hawaii.....	---	6	6
Idaho.....	306	1,396	1,702
Illinois.....	4,035	6,452	10,487
Indiana.....	2,979	4,088	7,067
Iowa.....	1,774	4,032	5,806
Kansas.....	1,523	6,837	8,360
Kentucky.....	817	2,109	2,926
Louisiana.....	1,943	2,296	4,239
Maine.....	240	683	923
Maryland.....	541	171	712
Massachusetts....	846	351	1,197
Michigan.....	2,501	3,524	6,025
Minnesota.....	1,587	4,087	5,674
Mississippi.....	1,151	1,896	3,047
Missouri.....	1,601	3,365	4,966
Montana.....	286	1,265	1,551
Nebraska.....	618	3,591	4,209
Nevada.....	67	204	271
New Hampshire....	221	282	503
New Jersey.....	1,363	552	1,915
New Mexico.....	247	579	826
New York.....	1,563	1,802	3,365
North Carolina...	2,054	2,887	4,941
North Dakota.....	271	4,602	4,873
Ohio.....	3,650	3,848	7,498
Oklahoma.....	318	4,372	4,690
Oregon.....	1,042	1,366	2,408
Pennsylvania.....	2,979	2,749	5,728
Rhode Island.....	123	5	128
South Carolina...	1,229	2,224	3,453
South Dakota.....	261	1,933	2,194
Tennessee.....	1,563	1,892	3,455
Texas.....	7,057	6,178	13,235
Utah.....	564	465	1,029
Vermont.....	166	349	515
Virginia.....	1,078	1,283	2,361
Washington.....	1,406	1,660	3,066
West Virginia....	488	1,810	2,298
Wisconsin.....	2,083	3,120	5,203
Wyoming.....	76	460	536
Puerto Rico.....	---	24	24
Unknown.....	---	---	---
Total.....	68,467	105,618	174,085

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

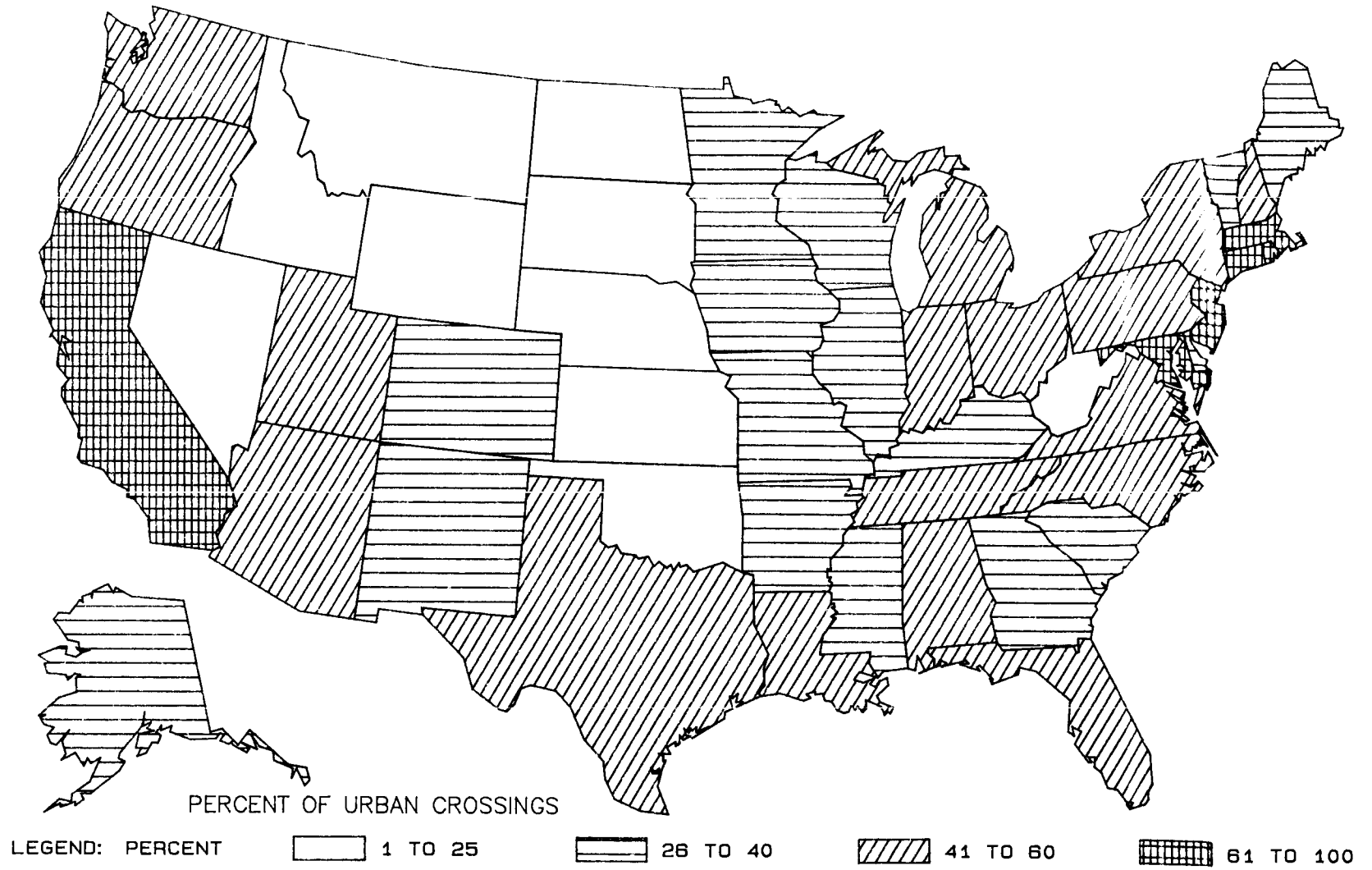


FIGURE 25. CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL

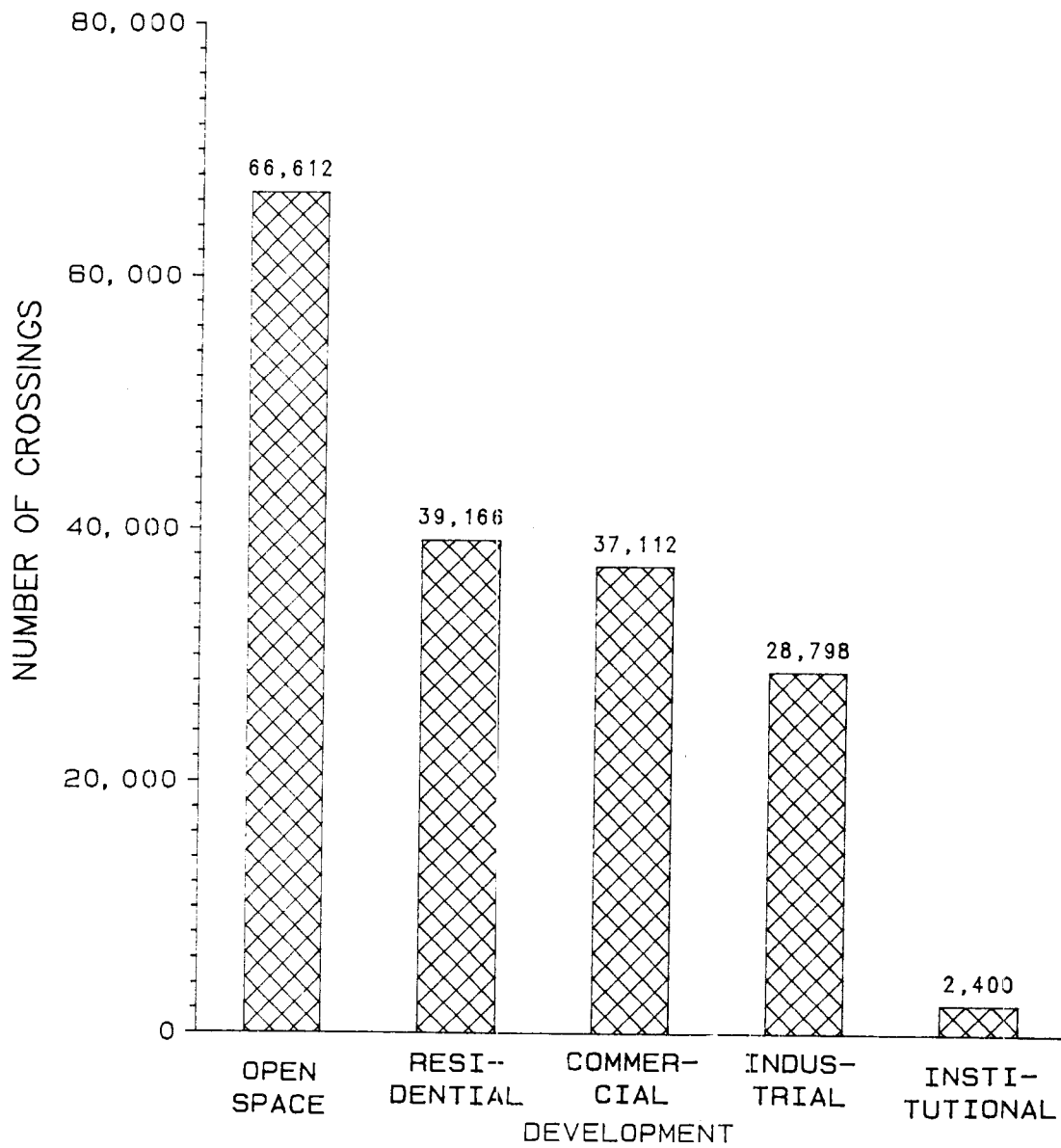


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

TRACK DATA

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

Other Tracks	Number of main tracks							Total
	0	1	2	3	4	5	>5	
0	22	102,797	9,301	320	85	6	6	112,537
1	18,208	22,429	2,654	109	19	---	1	43,420
2	4,133	7,027	1,095	71	19	2	1	12,348
3	1,179	2,048	362	33	13	1	---	3,636
4	322	679	160	12	8	3	1	1,185
5	138	270	70	6	2	1	1	488
>5	127	265	71	2	3	1	2	471
Total	24,129	135,515	13,713	553	149	14	12	174,085

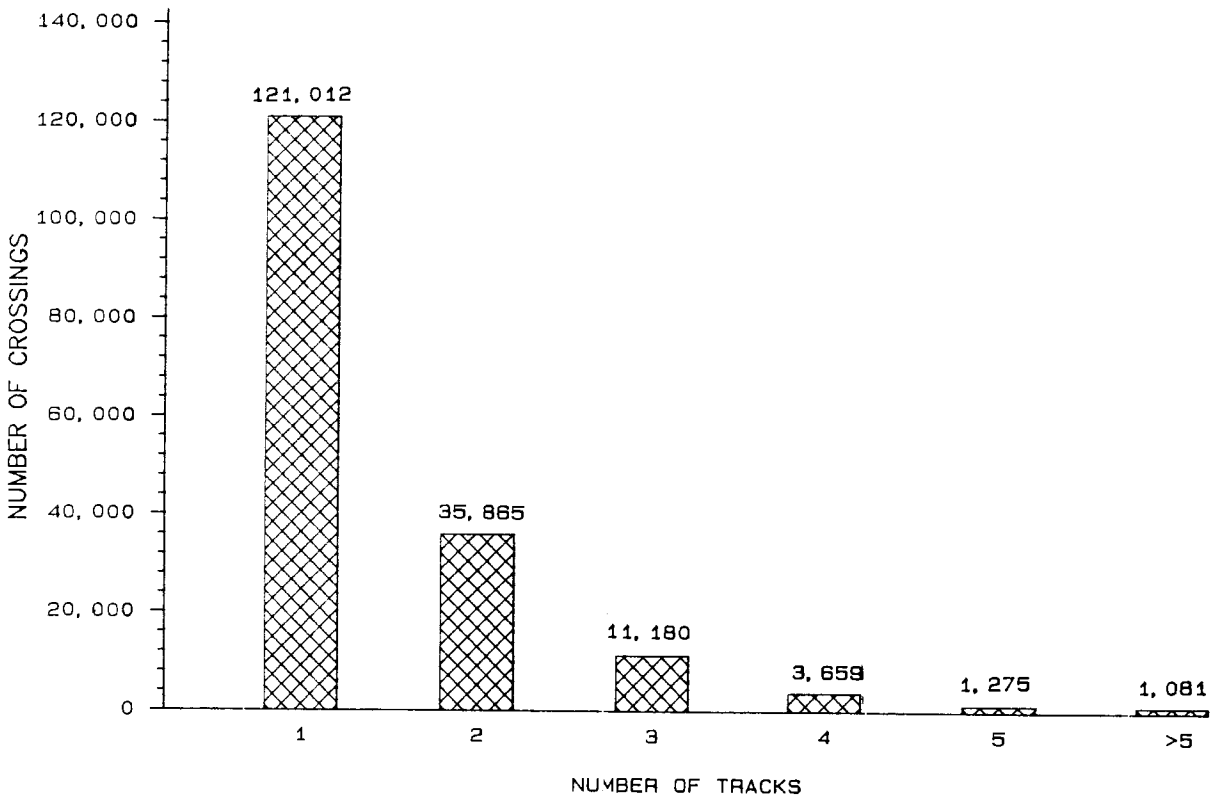


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

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.....	11,417	9,457	3,622	1,356	491	438	26,781
Flashing lights.....	21,431	5,869	1,984	663	245	203	30,395
Hwy. signals, wigwags, bells	1,098	461	161	57	24	16	1,817
Special warning devices.....	3,752	1,045	331	120	51	52	5,351
Crossbucks.....	76,059	17,342	4,604	1,318	402	333	100,058
Stop signs.....	600	154	45	12	5	7	823
Other signs.....	396	109	28	19	1	6	559
No signs or signals.....	6,252	1,425	405	114	56	48	8,300
Total.....	121,005	35,862	11,180	3,659	1,275	1,103	174,084

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

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	21,152	4,283	765	188	44	56	26,488
2	92,352	28,880	9,481	3,138	1,106	936	135,893
3	735	334	102	35	11	13	1,230
4	5,881	2,117	760	281	106	92	9,237
5	400	115	35	8	4	1	563
>5	485	134	37	9	4	5	674
Total	121,005	35,863	11,180	3,659	1,275	1,103	174,085

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,082	722	287	75	27	33	4,226
Alaska.....	186	34	6	1	---	---	227
Arizona.....	702	171	62	17	6	4	962
Arkansas.....	2,360	700	229	62	28	18	3,397
California.....	5,678	1,624	578	195	92	87	8,254
Colorado.....	1,572	426	115	36	13	14	2,176
Connecticut.....	374	95	22	8	4	---	503
Delaware.....	215	34	10	3	2	1	265
Dist of Columbia.	28	7	2	---	---	---	37
Florida.....	2,343	1,122	408	119	63	53	4,108
Georgia.....	4,757	1,219	351	124	31	36	6,518
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,190	318	117	45	14	18	1,702
Illinois.....	6,259	2,848	888	304	104	84	10,487
Indiana.....	4,921	1,614	360	110	36	26	7,067
Iowa.....	3,994	1,148	443	138	42	41	5,806
Kansas.....	6,024	1,458	562	199	59	58	8,360
Kentucky.....	1,927	729	183	59	14	14	2,926
Louisiana.....	3,058	805	245	79	26	26	4,239
Maine.....	742	135	31	10	4	1	923
Maryland.....	533	138	22	12	3	4	712
Massachusetts....	943	190	41	15	4	4	1,197
Michigan.....	4,196	1,298	317	129	41	44	6,025
Minnesota.....	4,071	1,041	372	112	40	38	5,674
Mississippi.....	2,066	634	209	84	27	27	3,047
Missouri.....	3,269	1,094	400	122	41	40	4,966
Montana.....	1,106	295	100	26	11	13	1,551
Nebraska.....	2,759	951	312	109	45	33	4,209
Nevada.....	179	63	17	4	3	5	271
New Hampshire....	427	66	7	2	1	---	503
New Jersey.....	1,373	407	99	18	10	8	1,915
New Mexico.....	577	173	47	18	4	7	826
New York.....	2,343	779	163	49	16	15	3,365
North Carolina...	3,570	915	284	109	33	30	4,941
North Dakota.....	3,967	647	203	38	16	2	4,873
Ohio.....	4,063	2,288	707	290	88	62	7,498
Oklahoma.....	3,496	737	289	100	34	34	4,690
Oregon.....	1,766	443	158	28	12	1	2,408
Pennsylvania.....	3,742	1,390	368	146	43	39	5,728
Rhode Island....	86	36	6	---	---	---	128
South Carolina...	2,588	660	148	28	17	12	3,453
South Dakota.....	1,756	276	110	37	8	7	2,194
Tennessee.....	2,292	782	245	80	28	28	3,455
Texas.....	9,706	2,395	719	250	86	79	13,235
Utah.....	706	206	73	18	19	7	1,029
Vermont.....	415	76	17	3	---	4	515
Virginia.....	1,537	569	171	58	17	9	2,361
Washington.....	2,171	580	211	64	23	17	3,066
West Virginia....	1,640	468	149	25	6	10	2,298
Wisconsin.....	3,865	936	278	84	30	10	5,203
Wyoming.....	360	116	39	17	4	---	536
Puerto Rico.....	19	5	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	121,005	35,863	11,180	3,659	1,275	1,103	174,085

HIGHWAY SYSTEM DATA

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

State	01	02	03	04	08	Total
Alabama.....	---	198	410	317	3,301	4,226
Alaska.....	7	10	15	21	174	227
Arizona.....	12	30	181	75	664	962
Arkansas.....	2	137	1,021	166	2,071	3,397
California.....	---	959	1,058	609	5,628	8,254
Colorado.....	---	86	382	103	1,605	2,176
Connecticut.....	---	30	186	20	267	503
Delaware.....	---	34	12	114	105	265
Dist of Columbia.....	---	4	---	2	31	37
Florida.....	1	284	757	123	2,943	4,108
Georgia.....	---	417	170	788	5,143	6,518
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	48	108	133	1,413	1,702
Illinois.....	1	634	1,425	787	7,640	10,487
Indiana.....	---	252	402	1,243	5,170	7,067
Iowa.....	3	333	756	532	4,182	5,806
Kansas.....	---	319	437	1,104	6,500	8,360
Kentucky.....	2	86	260	259	2,319	2,926
Louisiana.....	5	158	442	321	3,313	4,239
Maine.....	---	77	22	104	720	923
Maryland.....	---	16	25	12	659	712
Massachusetts.....	---	116	315	122	644	1,197
Michigan.....	4	258	709	920	4,134	6,025
Minnesota.....	1	207	121	900	4,445	5,674
Mississippi.....	---	139	426	308	2,174	3,047
Missouri.....	3	99	230	593	4,041	4,966
Montana.....	---	59	70	108	1,314	1,551
Nebraska.....	---	207	272	480	3,250	4,209
Nevada.....	---	16	13	23	219	271
New Hampshire.....	---	7	148	43	305	503
New Jersey.....	---	68	197	160	1,490	1,915
New Mexico.....	---	22	61	57	686	826
New York.....	---	202	27	573	2,563	3,365
North Carolina.....	---	113	210	367	4,251	4,941
North Dakota.....	4	189	99	495	4,086	4,873
Ohio.....	---	305	1,054	675	5,464	7,498
Oklahoma.....	---	146	301	391	3,852	4,690
Oregon.....	---	135	286	274	1,713	2,408
Pennsylvania.....	132	571	1,044	810	3,171	5,728
Rhode Island.....	---	6	44	14	64	128
South Carolina.....	1	227	222	408	2,595	3,453
South Dakota.....	---	99	90	264	1,741	2,194
Tennessee.....	---	106	470	123	2,756	3,455
Texas.....	81	360	1,422	839	10,533	13,235
Utah.....	1	14	5	135	874	1,029
Vermont.....	---	46	29	64	376	515
Virginia.....	---	100	324	371	1,566	2,361
Washington.....	---	107	176	425	2,358	3,066
West Virginia.....	---	146	49	397	1,706	2,298
Wisconsin.....	---	343	810	444	3,606	5,203
Wyoming.....	---	26	36	42	432	536
Puerto Rico.....	---	6	---	2	16	24
Unknown.....	---	---	---	---	---	---
Total.....	260	8,557	17,329	17,660	130,279	174,085

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

State	HIGHWAY SYSTEM GROUP		
	On-State	Off-State	Total
Alabama.....	291	3,935	4,226
Alaska.....	81	146	227
Arizona.....	52	910	962
Arkansas.....	567	2,830	3,397
California.....	335	7,919	8,254
Colorado.....	247	1,929	2,176
Connecticut.....	90	413	503
Delaware.....	254	11	265
Dist of Columbia.	36	1	37
Florida.....	462	3,646	4,108
Georgia.....	773	5,745	6,518
Hawaii.....	---	6	6
Idaho.....	120	1,582	1,702
Illinois.....	1,320	9,167	10,487
Indiana.....	633	6,434	7,067
Iowa.....	338	5,468	5,806
Kansas.....	439	7,921	8,360
Kentucky.....	828	2,098	2,926
Louisiana.....	931	3,308	4,239
Maine.....	181	742	923
Maryland.....	118	594	712
Massachusetts....	45	1,152	1,197
Michigan.....	361	5,664	6,025
Minnesota.....	314	5,360	5,674
Mississippi.....	316	2,731	3,047
Missouri.....	723	4,243	4,966
Montana.....	235	1,316	1,551
Nebraska.....	319	3,890	4,209
Nevada.....	59	212	271
New Hampshire....	112	391	503
New Jersey.....	195	1,720	1,915
New Mexico.....	180	646	826
New York.....	350	3,015	3,365
North Carolina...	3,151	1,790	4,941
North Dakota.....	232	4,641	4,873
Ohio.....	1,004	6,494	7,498
Oklahoma.....	361	4,329	4,690
Oregon.....	143	2,265	2,408
Pennsylvania.....	1,842	3,886	5,728
Rhode Island.....	46	82	128
South Carolina...	2,443	1,010	3,453
South Dakota.....	150	2,044	2,194
Tennessee.....	303	3,152	3,455
Texas.....	2,131	11,104	13,235
Utah.....	109	920	1,029
Vermont.....	125	390	515
Virginia.....	1,476	885	2,361
Washington.....	172	2,894	3,066
West Virginia....	1,404	894	2,298
Wisconsin.....	418	4,785	5,203
Wyoming.....	78	458	536
Puerto Rico.....	19	5	24
Unknown.....	---	---	---
Total.....	26,912	147,173	174,085

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

Rural	Crossings	Urban	Crossings
Interstate.....	37	Interstate.....	148
Other principal arterial	1,311	Other freeway/expressway	409
Minor arterial.....	3,982	Other principal arterial	6,635
Major collector.....	12,559	Minor arterial.....	11,584
Minor collector.....	10,246	Collector.....	11,675
Local.....	77,483	Local.....	38,016
Total.....	105,618	Total.....	68,467

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

NUMBER OF LANES (BOTH DIRECTIONS)

State	1	2	3	4	5	>5	Total
Alabama.....	835	3,142	22	208	8	11	4,226
Alaska.....	12	197	2	14	2	---	227
Arizona.....	15	800	13	93	23	18	962
Arkansas.....	750	2,561	16	65	4	1	3,397
California.....	432	5,712	182	1,564	152	212	8,254
Colorado.....	178	1,814	22	143	13	6	2,176
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.....	161	3,389	80	373	32	73	4,108
Georgia.....	1,252	5,005	30	214	11	6	6,518
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	437	1,201	8	52	2	2	1,702
Illinois.....	2,104	7,639	52	654	15	23	10,487
Indiana.....	977	5,717	54	289	18	12	7,067
Iowa.....	678	4,874	42	203	5	4	5,806
Kansas.....	2,024	6,024	11	297	2	2	8,360
Kentucky.....	951	1,916	8	51	---	---	2,926
Louisiana.....	642	3,332	21	215	12	17	4,239
Maine.....	46	861	3	13	---	---	923
Maryland.....	79	571	8	46	3	5	712
Massachusetts....	43	1,089	8	56	1	---	1,197
Michigan.....	392	4,990	71	494	41	37	6,025
Minnesota.....	871	4,520	14	264	3	2	5,674
Mississippi.....	382	2,551	9	100	3	3	3,047
Missouri.....	1,198	3,629	11	120	4	4	4,966
Montana.....	11	1,511	1	25	2	1	1,551
Nebraska.....	899	3,230	8	70	---	2	4,209
Nevada.....	89	157	1	23	---	1	271
New Hampshire....	32	449	2	17	2	1	503
New Jersey.....	103	1,665	12	129	---	6	1,915
New Mexico.....	271	513	1	35	3	3	826
New York.....	311	2,908	23	117	3	3	3,365
North Carolina...	280	4,409	38	192	12	10	4,941
North Dakota.....	1,084	3,764	---	24	1	---	4,873
Ohio.....	976	6,168	53	283	7	11	7,498
Oklahoma.....	922	3,499	5	257	4	3	4,690
Oregon.....	282	1,972	47	80	24	3	2,408
Pennsylvania.....	879	4,519	119	182	2	27	5,728
Rhode Island.....	2	102	---	24	---	---	128
South Carolina...	407	2,815	12	200	10	9	3,453
South Dakota.....	655	1,492	---	40	4	3	2,194
Tennessee.....	465	2,767	31	153	32	7	3,455
Texas.....	2,290	9,586	73	1,122	56	108	13,235
Utah.....	193	771	---	60	1	4	1,029
Vermont.....	113	390	5	7	---	---	515
Virginia.....	30	2,194	22	94	11	10	2,361
Washington.....	277	2,461	54	236	30	8	3,066
West Virginia....	1,132	1,145	9	11	---	1	2,298
Wisconsin.....	186	4,737	11	256	7	12	5,203
Wyoming.....	108	395	2	30	1	---	536
Puerto Rico.....	1	23	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	26,488	135,893	1,230	9,237	563	674	174,085

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

Warning device	NUMBER OF LANES (BOTH DIRECTIONS)						Total
	1	2	3	4	5	>5	
Gates.....	628	21,806	428	3,329	278	312	26,781
Flashing lights.....	738	25,628	352	3,268	197	212	30,395
Hwy. signals, wigwags, bells	139	1,392	47	194	16	29	1,817
Special warning devices.....	347	4,395	110	449	25	25	5,351
Crossbucks.....	22,317	75,783	231	1,616	33	78	100,058
Stop signs.....	149	647	1	24	---	2	823
Other signs.....	135	400	3	19	---	2	559
No signs or signals.....	2,035	5,841	58	338	14	14	8,300
Total.....	26,488	135,892	1,230	9,237	563	674	174,084

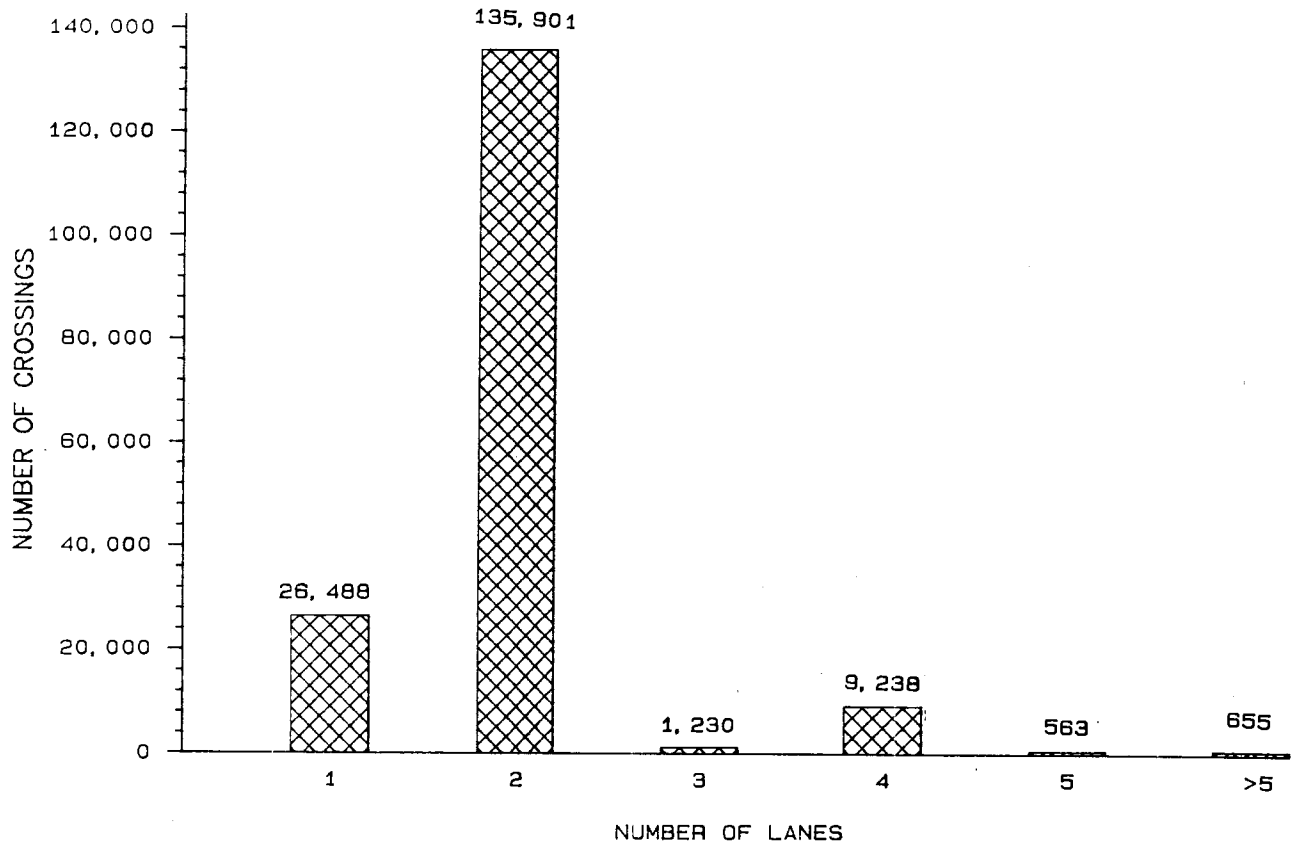


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

WARNING DEVICE DATA

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

State	Gates	WARNING DEVICE CATEGORY							Total
		Flashing Lights	Hwy. Sig. Hiways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	
Alabama.....	246	621	20	51	2,831	63	9	385	4,226
Alaska.....	16	61	---	7	130	4	---	9	227
Arizona.....	303	83	10	67	470	2	---	27	962
Arkansas.....	278	469	23	77	2,409	5	---	136	3,397
California.....	3,125	1,093	322	173	3,296	49	19	177	8,254
Colorado.....	286	298	39	37	1,408	10	3	95	2,176
Connecticut.....	73	166	7	85	61	8	2	161	503
Delaware.....	35	141	2	22	59	---	---	6	265
Dist of Columbia.....	---	4	---	4	20	5	1	3	37
Florida.....	2,020	704	20	103	1,165	20	6	70	4,108
Georgia.....	1,407	413	15	166	4,140	8	7	362	6,518
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	84	198	9	7	1,208	60	2	134	1,702
Illinois.....	1,986	2,643	145	251	5,036	1	4	421	10,487
Indiana.....	1,078	1,780	102	184	3,768	12	7	136	7,067
Iowa.....	593	1,026	51	72	3,894	6	3	161	5,806
Kansas.....	686	748	68	201	6,467	1	2	187	8,360
Kentucky.....	351	858	12	67	1,459	4	---	175	2,926
Louisiana.....	311	785	17	51	2,629	27	25	394	4,239
Maine.....	70	384	1	96	370	1	---	41	923
Maryland.....	97	205	21	33	301	7	7	1	712
Massachusetts.....	192	460	33	222	234	2	3	51	1,197
Michigan.....	771	1,524	46	155	3,431	6	4	88	6,025
Minnesota.....	534	691	13	31	4,232	28	2	143	5,674
Mississippi.....	108	431	14	54	1,933	215	12	280	3,047
Missouri.....	462	1,030	74	92	3,057	12	1	238	4,966
Montana.....	163	187	3	13	1,117	7	3	58	1,551
Nebraska.....	601	315	6	16	3,078	13	---	180	4,209
Nevada.....	101	22	1	4	135	1	1	6	271
New Hampshire.....	31	143	11	108	179	7	7	17	503
New Jersey.....	402	656	24	276	440	---	2	115	1,915
New Mexico.....	159	100	6	9	526	---	5	21	826
New York.....	1,327	680	74	263	911	3	21	86	3,365
North Carolina.....	868	752	12	224	2,616	18	18	433	4,941
North Dakota.....	321	131	1	2	4,217	3	---	198	4,873
Ohio.....	1,179	1,698	54	95	4,210	10	7	245	7,498
Oklahoma.....	354	757	31	116	3,314	4	8	106	4,690
Oregon.....	539	147	47	92	1,358	49	45	131	2,408
Pennsylvania.....	718	1,266	119	669	2,109	74	291	482	5,728
Rhode Island.....	15	33	19	23	11	5	---	22	128
South Carolina.....	467	555	1	242	2,124	1	1	62	3,453
South Dakota.....	14	170	3	---	1,924	1	1	81	2,194
Tennessee.....	254	610	14	216	1,731	24	1	605	3,455
Texas.....	2,219	2,105	76	111	7,964	24	14	722	13,235
Utah.....	136	178	7	88	532	4	5	79	1,029
Vermont.....	28	202	4	39	241	---	---	1	515
Virginia.....	637	502	19	178	871	1	2	151	2,361
Washington.....	391	433	30	52	1,856	8	3	293	3,066
West Virginia.....	188	460	7	37	1,300	8	4	294	2,298
Wisconsin.....	447	1,351	179	151	3,004	---	1	70	5,203
Wyoming.....	106	125	4	1	276	2	---	22	536
Puerto Rico.....	4	1	1	18	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	26,781	30,395	1,817	5,351	100,058	823	559	8,301	174,085

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

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy. Sig. Wigwags	Balls	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
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	0	8	22	0	4	2	166
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	4	34	4	3	197	0	0	10	252
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	2,081	1,142	131	439	5,363	5	10	34	9,205
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	40	38	1	15	16	0	0	1	111
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
BLOL	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	0	13	0	0	108	0	0	1	122
BM	BOSTON AND MAINE CORPORATION	200	223	22	187	272	1	4	50	959
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	38	79	4	12	198	1	1	6	339
BN	BURLINGTON NORTHERN RAILROAD COMPANY	2,593	2,460	85	212	13,515	76	17	578	19,536
CSP	CAMAS PRAIRIE RAILROAD COMPANY	5	7	0	0	90	0	0	5	107
CIC	CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	2	34	0	10	47	0	0	7	100
CVAR	CEDAR VALLEY RAILROAD	1	24	1	17	149	0	0	0	192
CMGN	CENTRAL MICHIGAN RAILWAY COMPANY	15	169	5	29	252	0	0	6	476
CV	CENTRAL VERMONT RAILWAY, INC.	21	98	1	0	54	1	2	2	178
CMH	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	6	43	1	0	59	0	0	0	110
CMH	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	697	1,198	160	68	3,887	5	2	222	6,239
CMWH	CHICAGO MISSOURI & WESTERN RAILWAY	2	33	13	0	92	0	0	6	146
CSX	CHICAGO SOUTHSIDE & SOUTH BEND RAILROAD	0	5	0	0	0	0	0	1	10
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	66	262	15	31	497	2	0	31	904
CAGY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	3	51	0	5	257	14	0	7	337
CR	CONSOLIDATED RAIL CORPORATION	2,802	3,781	201	1,165	4,990	67	271	907	14,184
CSX	CSX TRANSPORTATION	4,040	4,327	99	652	10,585	75	24	1,090	20,892
DH	D & H CORPORATION	145	86	3	3	75	1	5	2	320
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	6	114	4	0	710	2	0	31	867
DRGM	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	104	174	2	8	527	3	3	45	866
DD	DEPARTMENT OF DEFENSE	27	55	1	51	117	1	15	10	277
DM	DETROIT AND MACKINAC RAILWAY COMPANY	0	58	3	0	301	0	0	0	362
DMIR	DULUTH, MISSISSAUGA AND IRON RANGE RAILWAY COMP	8	38	0	2	144	1	1	0	194
EJE	ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	77	65	2	10	47	0	0	0	201
ELS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	4	63	1	45	151	0	1	2	267
FCEN	FLORIDA CENTRAL RAILROAD CO.	43	17	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	25	155	31	20	199	0	0	8	438
GHH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	32	21	0	0	23	1	0	23	100
GSF	GEORGIA SOUTHERN & FLORIDA COMPANY	30	37	0	6	70	1	0	0	144
GSWR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	29	16	4	0	222	0	0	11	282
GNBC	GRAINBELT CORPORATION	2	28	0	0	229	0	0	2	255
GTH	GRAND TRUNK WESTERN RAILROAD COMPANY	371	271	4	47	470	0	0	5	1,166
GBW	GREEN BAY AND WESTERN RAILROAD COMPANY	9	89	0	0	216	0	0	1	315
GSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	1	37	0	1	527	31	2	49	648
HCRC	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	0	24	2	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	324	587	17	71	1,613	81	4	214	2,911
IHRC	INDIANA HI-RAIL CORPORATION	9	50	10	0	169	0	0	4	242
INRD	INDIANA RAIL ROAD COMPANY	9	85	27	0	283	0	0	12	416
IAIS	IOWA INTERSTATE RAILROAD	101	80	9	0	283	0	0	1	474
IANR	IOWA NORTHERN RAILWAY COMPANY	6	47	0	0	146	0	0	6	205
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	80	172	3	0	689	0	6	76	1,026
KCT	KANSAS CITY TERMINAL RAILWAY COMPANY	2	28	0	0	115	0	1	10	153
KRR	KIAMICHI RAILROAD COMPANY, INC.	2	28	1	3	198	0	0	2	234
LVRC	LAMOILLE VALLEY RAILROAD COMPANY	1	31	0	0	75	0	0	0	107
LI	LONG ISLAND RAIL ROAD	298	0	0	0	6	0	0	0	304
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	38	167	0	0	476	0	0	29	710
LDRR	LOUISIANA & DELTA RAILROAD	22	11	1	0	164	2	0	29	229
MDIT	MAINE DEPARTMENT OF TRANSPORTATION	6	70	0	15	62	1	0	0	154
MPA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	18	17	0	0	59	8	5	2	109
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	5	9	0	3	117	0	0	0	134
MMRR	MID-MICHIGAN RAILROAD COMPANY	3	25	4	0	83	0	0	1	116
MSPA	MIDD STATES PORT AUTHORITY	14	31	0	0	35	0	0	7	409
MSRC	MIDSOUTH RAIL CORPORATION	8	88	3	1	313	40	0	62	515
MNNR	MINNESOTA COMMERCIAL RAILWAY	1	16	0	0	71	0	0	13	101
MNVA	MNVA RAILROAD, INC. (FORMERLY MINNESOTA VAL	0	2	0	0	99	0	0	3	104
MRL	MONTANA RAIL LINK	56	67	2	0	321	2	2	11	461
NERR	NASHVILLE & EASTERN RAILROAD	0	30	0	2	138	0	0	27	197
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	213	105	1	11	35	0	0	8	373
NOPB	NEW ORLEANS PUBLIC BELT RAILROAD	5	13	0	0	8	5	17	69	117
NYSW	NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD	84	80	13	13	47	0	0	14	251
NH	NORFOLK AND WESTERN RAILWAY COMPANY	1,090	1,336	43	141	2,844	6	4	148	5,612
NHP	NORTHWESTERN PACIFIC RAILROAD COMPANY	68	15	4	0	89	0	0	3	119
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	0	8	0	0	323	0	0	42	424
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	10	23	0	0	96	0	0	5	134
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	10	31	0	0	128	1	0	5	177
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	19	99	4	0	139	1	0	3	265
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	675	1	0	51	763
SHGR	SEAGRAVES, WHITEFACE AND LUBBOCK RAILROAD C	7	18	0	0	98	0	0	0	125
SOLR	SEMIROLE GULF RAILROAD	56	34	0	0	67	0	0	7	159
SOD	SOO LINE RAILROAD COMPANY	461	642	44	91	3,488	11	0	214	4,951
SCRF	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	6	33	0	41	150	0	0	5	321
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	2	10	0	0	274	0	0	35	321
SEKR	SOUTHEAST KANSAS RAILROAD	1	20	0	0	136	0	0	3	160
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	50	77	21	18	33	16	2	45	262
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	3,112	1,159	285	35	4,689	54	20	451	9,805
SSMN	SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORA	96	90	4	3	72	0	0	3	268
SOU	SOUTHERN RAILWAY COMPANY	1,763	1,677	30	419	6,659	29	17	1,275	11,869
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	9	2	0	0	22	0	0	1	34
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	52	161	0	45	117	0	0	0	375
SSW	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	226	277	6	10	1,419	3	0	15	2,056
SUB	STATE SUBSIDY	5	94	25	16	108	3	10	20	271
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	2	20	1	0	90	3	0	136	166
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	43	15	0	57	27	1	0	3	146
TM	TEXAS MEXICAN RAILWAY COMPANY	1	62	0	11	156	1	0	8	239
TPW	TOLEDO, PEORIA & WESTERN RAILWAY CORPORATIO	6	124	4	0	302	0	0	5	441
TSBY	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	3	78	8	1	498	0	2	5	595
UNION	UNION PACIFIC RAILROAD COMPANY	2,581	2,850	131	222	12,038	93	28	1,169	19,112
WCRC	WASHINGTON CENTRAL RAILROAD COMPANY	26	43	4	0	254	0	0	21	348
WE	WHEELING & LAKE ERIE RAILWAY COMPANY	31	141	3	2	362	1	0	0	540
WTRY	WILMINGTON TERMINAL RAILROAD, INC.	38	17	0	0	229	0	0	3	287
WH	WINCHESTER AND WESTERN RAILROAD COMPANY	1	28	1	24	61	0	0	1	116
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	0	19	3	0	88	0	0	0	110
WSOR	WISCONSIN AND SOUTHERN RAILWAY COMPANY	2	55	3	1	64	0	0	0	125
WICT	WISCONSIN CALUMET RAILROAD	1	88	18	7	292	0	0	9	415
WC	WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	143	524	18	26	1,300	1	1	16	2,029
	All Other Railroads	1,049	2,756	249	948	10,624	152	68	758	16,604
FINAL TOTALS		26,783	30,397	1,817	5,351	100,063	823	559	8,300	174,093

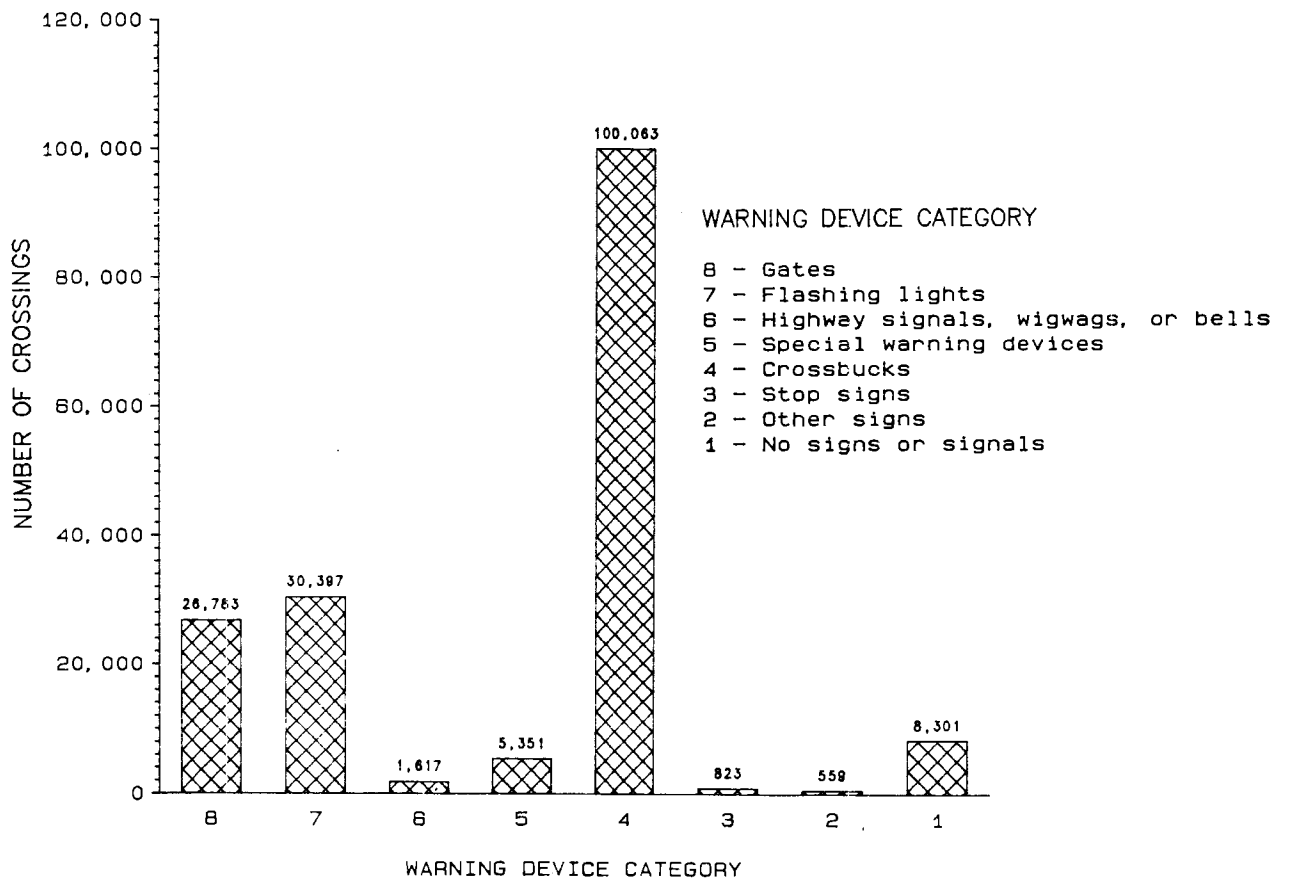


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

State	Stop Lines	RR X-ing Symbol	Both	None		Total
				Paved	Unpaved	
Alabama.....	39	132	208	2,867	980	4,226
Alaska.....	9	11	54	65	88	227
Arizona.....	38	25	376	276	247	962
Arkansas.....	57	116	305	1,699	1,220	3,397
California.....	1,028	208	4,835	1,868	315	8,254
Colorado.....	21	36	264	1,035	820	2,176
Connecticut.....	18	5	105	369	6	503
Delaware.....	4	22	124	103	7	265
Dist of Columbia.	---	---	23	14	---	37
Florida.....	275	372	1,859	1,155	447	4,108
Georgia.....	66	107	2,882	1,782	1,681	6,518
Hawaii.....	2	---	---	4	---	6
Idaho.....	4	5	272	765	656	1,702
Illinois.....	77	160	1,287	4,392	4,571	10,487
Indiana.....	70	285	1,275	4,488	949	7,067
Iowa.....	59	150	568	2,218	2,811	5,806
Kansas.....	6	22	941	2,162	5,229	8,360
Kentucky.....	45	372	799	975	735	2,926
Louisiana.....	43	235	580	2,310	1,071	4,239
Maine.....	2	4	568	265	84	923
Maryland.....	10	25	255	376	46	712
Massachusetts....	55	45	119	944	34	1,197
Michigan.....	82	253	1,010	3,113	1,567	6,025
Minnesota.....	131	176	490	2,079	2,798	5,674
Mississippi.....	27	42	486	1,631	861	3,047
Missouri.....	63	116	541	2,134	2,112	4,966
Montana.....	4	5	53	514	975	1,551
Nebraska.....	28	277	193	1,066	2,645	4,209
Nevada.....	5	4	106	54	102	271
New Hampshire....	9	28	59	355	52	503
New Jersey.....	39	216	168	1,389	103	1,915
New Mexico.....	5	25	43	346	407	826
New York.....	126	216	438	2,301	284	3,365
North Carolina...	45	26	3,674	573	623	4,941
North Dakota.....	17	16	143	637	4,060	4,873
Ohio.....	469	618	3,590	2,232	589	7,498
Oklahoma.....	25	92	223	2,231	2,119	4,690
Oregon.....	358	927	145	515	463	2,408
Pennsylvania.....	65	359	154	4,527	623	5,728
Rhode Island.....	---	---	80	48	---	128
South Carolina...	99	122	1,096	1,626	510	3,453
South Dakota.....	23	11	141	552	1,467	2,194
Tennessee.....	19	118	931	1,828	559	3,455
Texas.....	1	5	6,370	3,444	3,415	13,235
Utah.....	16	23	182	573	235	1,029
Vermont.....	37	10	95	222	151	515
Virginia.....	95	92	1,008	925	241	2,361
Washington.....	122	71	556	1,684	633	3,066
West Virginia....	24	14	106	1,405	749	2,298
Wisconsin.....	86	35	677	3,813	592	5,203
Wyoming.....	6	22	54	151	303	536
Puerto Rico.....	3	7	---	12	2	24
Unknown.....	---	---	---	---	---	---
Total.....	3,957	6,263	40,511	72,117	51,237	174,085

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.....	889	3,337	4,226
Alaska.....	163	64	227
Arizona.....	561	401	962
Arkansas.....	911	2,486	3,397
California.....	6,606	1,648	8,254
Colorado.....	1,158	1,018	2,176
Connecticut.....	243	260	503
Delaware.....	231	34	265
Dist of Columbia.....	22	15	37
Florida.....	2,565	1,543	4,108
Georgia.....	3,278	3,240	6,518
Hawaii.....	1	5	6
Idaho.....	1,455	247	1,702
Illinois.....	5,380	5,107	10,487
Indiana.....	5,972	1,095	7,067
Iowa.....	3,922	1,884	5,806
Kansas.....	4,298	4,062	8,360
Kentucky.....	1,657	1,269	2,926
Louisiana.....	2,635	1,604	4,239
Maine.....	910	13	923
Maryland.....	453	259	712
Massachusetts.....	883	314	1,197
Michigan.....	4,618	1,407	6,025
Minnesota.....	3,508	2,166	5,674
Mississippi.....	743	2,304	3,047
Missouri.....	1,548	3,418	4,966
Montana.....	899	652	1,551
Nebraska.....	2,983	1,226	4,209
Nevada.....	212	59	271
New Hampshire.....	296	207	503
New Jersey.....	886	1,029	1,915
New Mexico.....	176	650	826
New York.....	2,653	712	3,365
North Carolina.....	3,822	1,119	4,941
North Dakota.....	1,691	3,182	4,873
Ohio.....	4,776	2,722	7,498
Oklahoma.....	1,483	3,207	4,690
Oregon.....	961	1,447	2,408
Pennsylvania.....	2,108	3,620	5,728
Rhode Island.....	81	47	128
South Carolina.....	2,242	1,211	3,453
South Dakota.....	1,472	722	2,194
Tennessee.....	2,113	1,342	3,455
Texas.....	10,249	2,986	13,235
Utah.....	592	437	1,029
Vermont.....	429	86	515
Virginia.....	1,690	671	2,361
Washington.....	2,211	855	3,066
West Virginia.....	521	1,777	2,298
Wisconsin.....	3,340	1,863	5,203
Wyoming.....	286	250	536
Puerto Rico.....	17	7	24
Unknown.....	---	---	---
Total.....	102,799	71,286	174,085

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.....	887	1,459	1,880	4,226
Alaska.....	77	113	37	227
Arizona.....	396	447	119	962
Arkansas.....	770	1,853	774	3,397
California.....	4,540	1,676	2,038	8,254
Colorado.....	623	1,093	460	2,176
Connecticut.....	246	109	148	503
Delaware.....	178	62	25	265
Dist of Columbia.	4	20	13	37
Florida.....	2,744	969	395	4,108
Georgia.....	1,835	3,741	942	6,518
Hawaii.....	---	4	2	6
Idaho.....	291	851	560	1,702
Illinois.....	4,774	4,411	1,302	10,487
Indiana.....	2,960	3,484	623	7,067
Iowa.....	1,670	3,114	1,022	5,806
Kansas.....	1,502	2,986	3,872	8,360
Kentucky.....	1,221	1,308	397	2,926
Louisiana.....	1,113	2,354	772	4,239
Maine.....	455	453	15	923
Maryland.....	323	199	190	712
Massachusetts....	685	301	211	1,197
Michigan.....	2,341	3,314	370	6,025
Minnesota.....	1,238	4,000	436	5,674
Mississippi.....	553	1,533	961	3,047
Missouri.....	1,566	1,806	1,594	4,966
Montana.....	353	769	429	1,551
Nebraska.....	922	2,810	477	4,209
Nevada.....	124	87	60	271
New Hampshire....	185	213	105	503
New Jersey.....	1,082	339	494	1,915
New Mexico.....	265	306	255	826
New York.....	2,081	909	375	3,365
North Carolina...	1,632	1,687	1,622	4,941
North Dakota.....	453	2,974	1,446	4,873
Ohio.....	2,931	2,700	1,867	7,498
Oklahoma.....	1,142	2,102	1,446	4,690
Oregon.....	733	1,158	517	2,408
Pennsylvania.....	2,103	1,302	2,323	5,728
Rhode Island.....	67	2	59	128
South Carolina...	1,023	2,056	374	3,453
South Dakota.....	187	1,819	188	2,194
Tennessee.....	878	893	1,684	3,455
Texas.....	4,400	3,976	4,859	13,235
Utah.....	321	487	221	1,029
Vermont.....	234	266	15	515
Virginia.....	1,158	781	422	2,361
Washington.....	854	1,293	919	3,066
West Virginia....	655	822	821	2,298
Wisconsin.....	1,977	2,576	650	5,203
Wyoming.....	235	188	113	536
Puerto Rico.....	6	6	12	24
Unknown.....	---	---	---	---
Total.....	58,993	74,181	40,911	174,085

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.

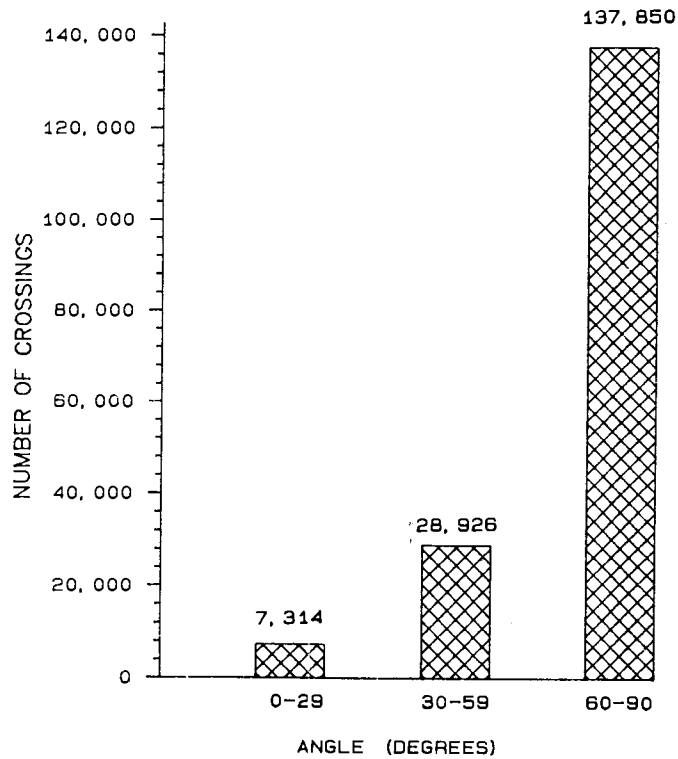


FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

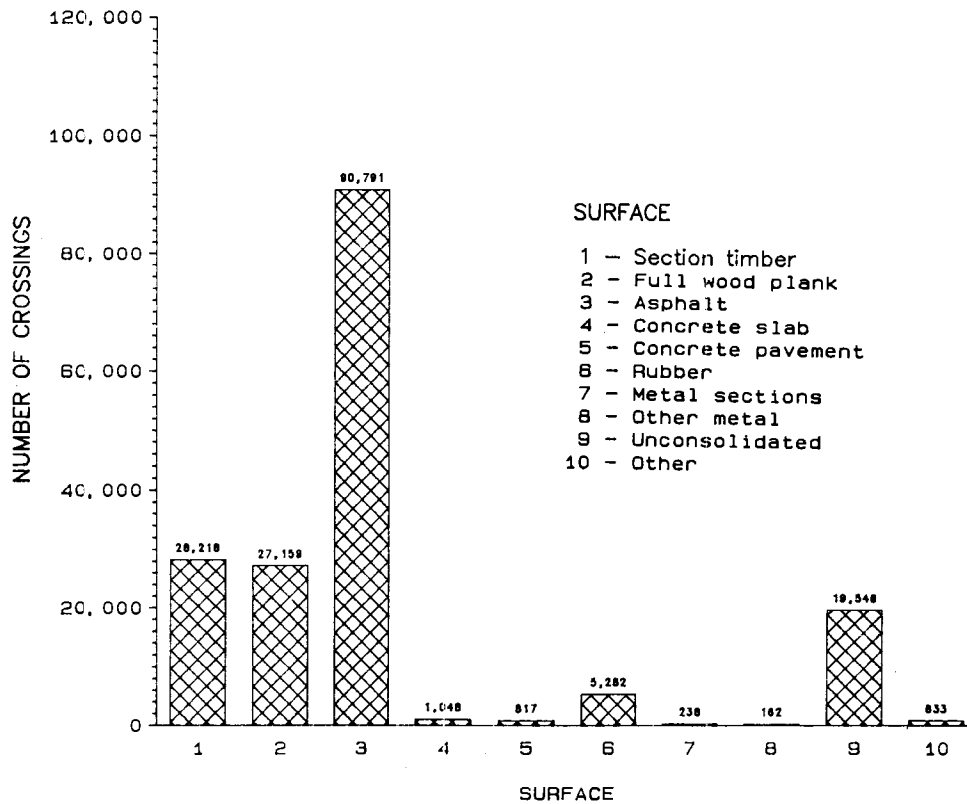


FIGURE 31. CROSSINGS BY CROSSING SURFACE

**OPERATIONAL CHARACTERISTICS
TRAIN TRAFFIC DATA**

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

<u>Trains</u>	<u>Crossings</u>
<1	26,598
1-5	76,285
6-10	29,821
11-15	12,136
16-20	11,661
21-25	5,981
26-30	3,761
31-35	1,944
36-40	1,497
41-45	1,029
46-50	802
51-55	721
56-60	630
61-65	308
66-70	144
71-75	103
76-80	157
81-85	46
86-90	115
91-95	40
96-100	56
>100	250
Total	174,085

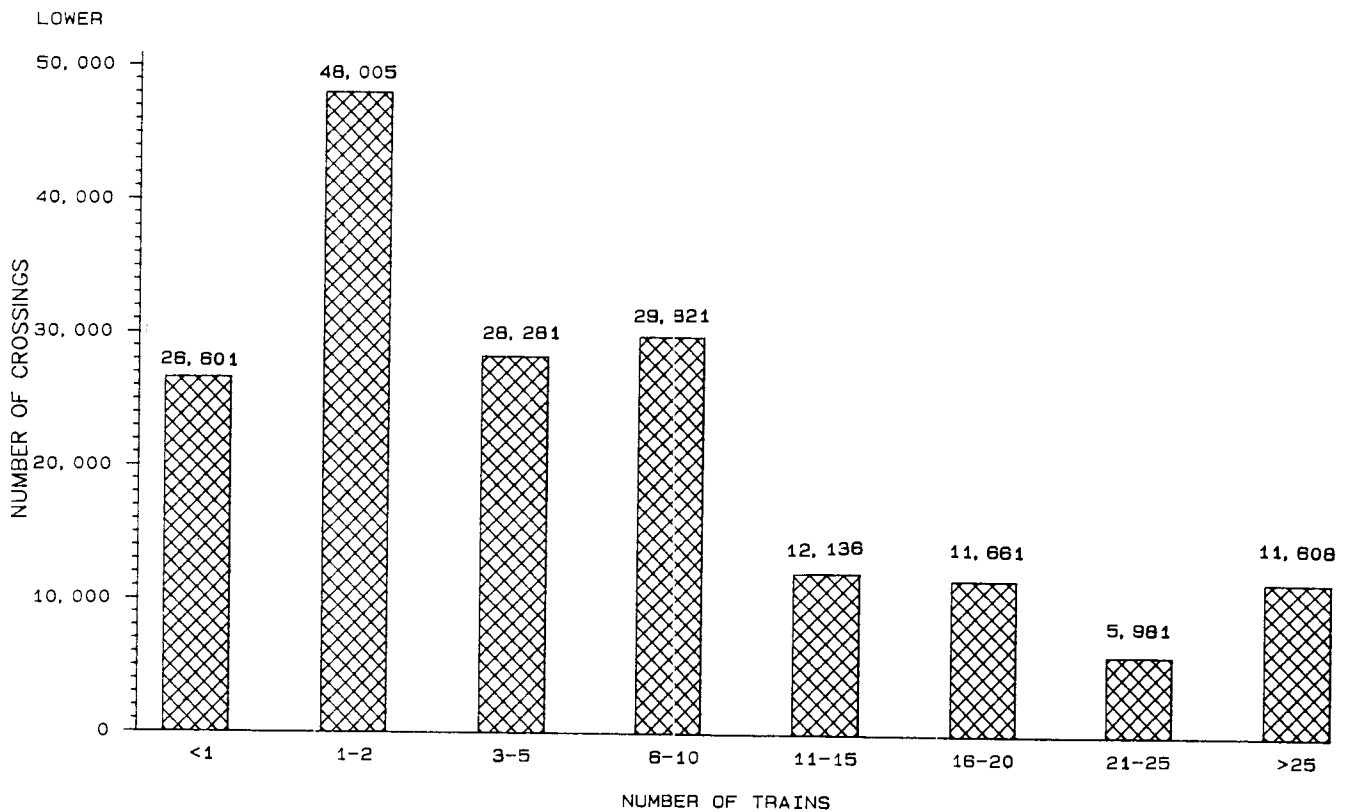


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

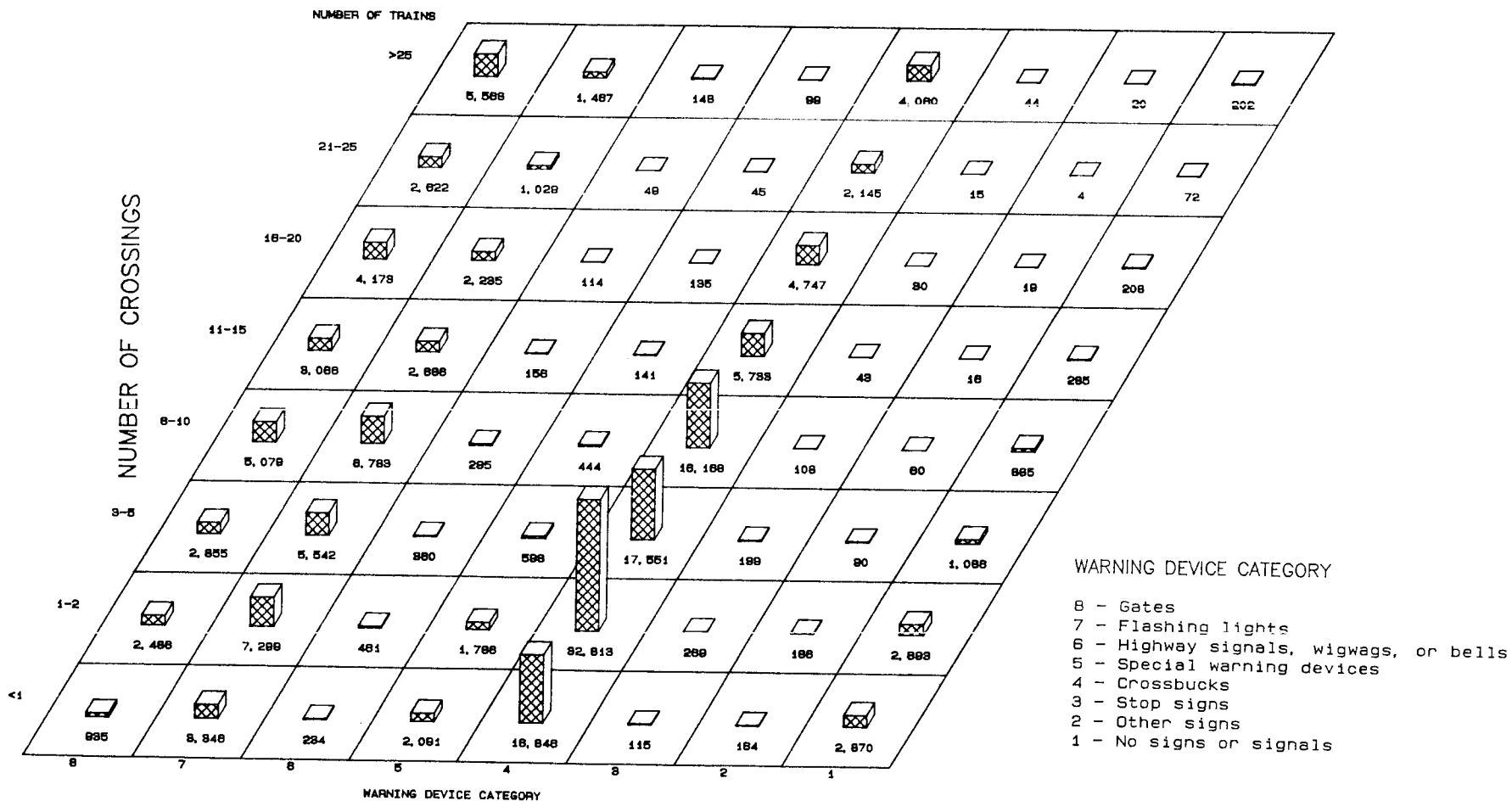


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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	26,598	26,927	12,400	12,169	4,590	4,884	2,349	3,550	93,467
1-2	19,314	9,145	6,492	6,496	2,768	2,637	802	2,342	49,996
2-3	5,739	1,883	2,377	3,367	1,532	1,028	327	1,404	17,657
6-10	2,485	747	829	1,525	978	1,025	371	796	8,756
11-15	490	112	128	280	281	59	86	381	1,817
16-20	428	112	93	175	182	83	97	167	1,337
21-25	121	38	24	38	36	20	25	63	365
>25	211	66	48	120	60	48	38	99	690
Total	55,386	39,030	22,391	24,170	10,427	9,784	4,095	8,802	174,085

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	26,598	7,240	937	215	7	7	4	5	35,013
1-2	28,514	27,030	3,379	424	20	9	1	4	59,381
2-3	4,947	10,284	15,851	1,827	132	36	35	7	33,119
6-10	1,495	2,359	6,646	14,108	1,700	84	42	11	26,445
11-15	192	165	871	3,990	4,751	733	20	23	10,745
16-20	79	123	400	541	1,128	1,777	371	30	4,449
21-25	41	25	27	125	378	294	741	289	1,920
>25	72	10	50	148	290	416	628	1,399	3,013
Total	61,938	47,236	28,161	21,378	8,406	3,356	1,842	1,768	174,085

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.....	935	2,486	2,855	5,078	3,066	4,173	2,622	5,566	26,781
Flashing lights.....	3,346	7,299	5,541	6,783	2,696	2,235	1,029	1,466	30,395
Hwy. signals, wigwags, bells	234	461	360	295	156	114	49	148	1,817
Special warning devices.....	2,091	1,798	598	444	141	135	45	99	5,351
Crossbucks.....	16,843	32,813	17,551	16,168	5,733	4,747	2,145	4,058	100,058
Stop signs.....	115	269	139	108	43	30	15	44	823
Other signs.....	164	186	30	60	16	19	4	20	559
No signs or signals.....	2,870	2,693	1,036	885	284	208	72	202	8,300
Total.....	26,598	48,005	28,230	29,821	12,135	11,661	5,981	11,603	174,084

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	11,142	3,218	3,021	5,944	1,920	1,353	26,598
1-2	23,877	5,622	5,094	8,962	2,608	1,842	48,005
2-3	13,057	3,335	3,074	5,762	1,708	1,344	28,280
6-10	13,433	3,622	3,435	6,145	1,818	1,368	29,821
11-15	5,321	1,327	1,333	2,750	816	589	12,136
16-20	4,925	1,369	1,364	2,566	827	610	11,661
21-25	2,327	707	697	1,437	446	367	5,981
>25	4,846	1,247	1,182	2,555	1,010	763	11,603
Total	78,928	20,447	19,200	36,121	11,153	8,236	174,085

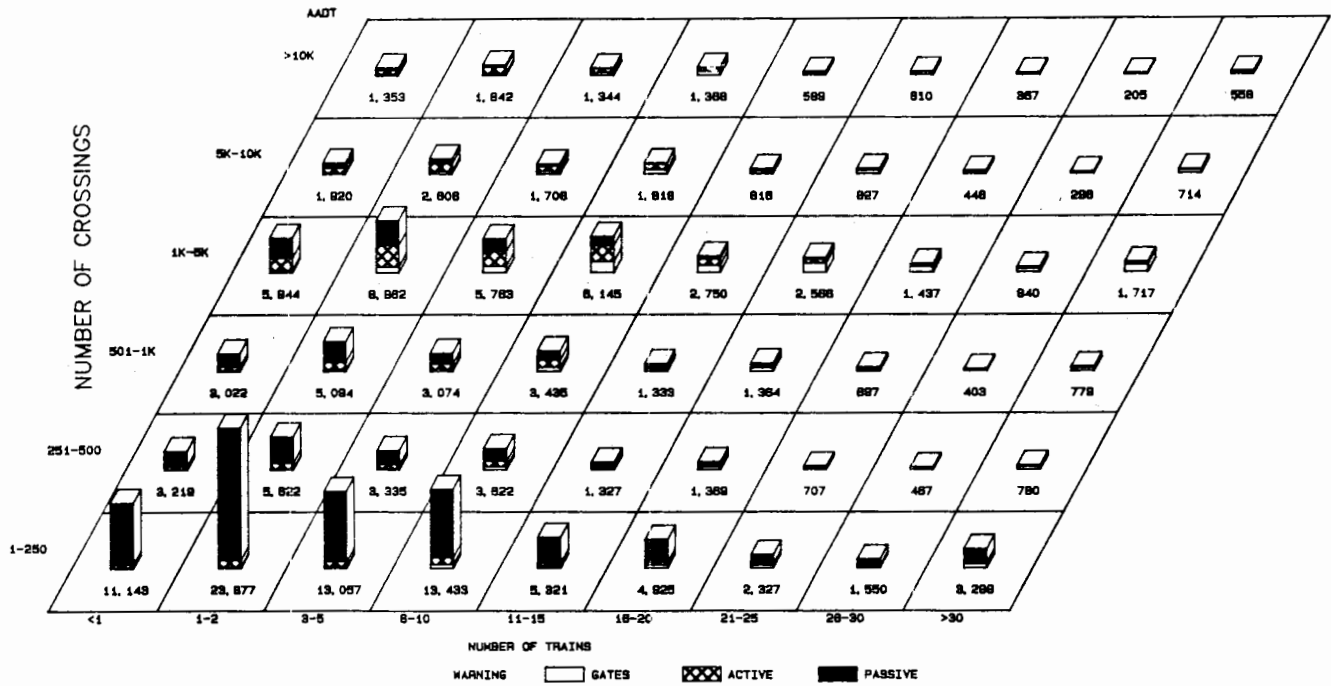


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

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

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	6,257
6-10	30,397
11-15	9,854
16-20	14,119
21-25	22,429
26-30	17,811
31-35	11,135
36-40	18,159
41-45	3,736
46-50	15,062
51-55	3,511
56-60	9,388
61-65	1,163
66-70	4,998
71-75	461
76-80	4,851
81-85	4
86-90	534
91-95	1
96-100	8
>100	207
Total	174,085

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

<u>Speed Variation</u>	<u>Crossings</u>
<1	14,733
1-5	43,625
6-10	40,883
11-15	18,722
16-20	17,084
21-25	10,202
26-30	9,139
31-35	4,646
36-40	4,536
41-45	2,351
46-50	3,284
51-55	855
56-60	1,985
61-65	678
66-70	334
71-75	178
76-80	669
81-85	10
86-90	2
91-95	---
96-100	---
>100	169
Total	174,085

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

HIGHWAY TRAFFIC DATA

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

<u>AADT</u>	<u>Crossings</u>
1-100	55,528
101-200	16,163
201-300	12,542
301-400	7,603
401-500	7,539
501-600	4,954
601-700	3,638
701-800	4,171
801-900	2,674
901-1,000	3,763
1,001-2,000	16,497
2,001-3,000	9,041
3,001-4,000	5,689
4,001-5,000	4,894
5,001-6,000	3,125
6,001-7,000	2,405
7,001-8,000	2,225
8,001-9,000	1,641
9,001-10,000	1,757
10,001-20,000	6,302
>20,000	1,934
Total	174,085

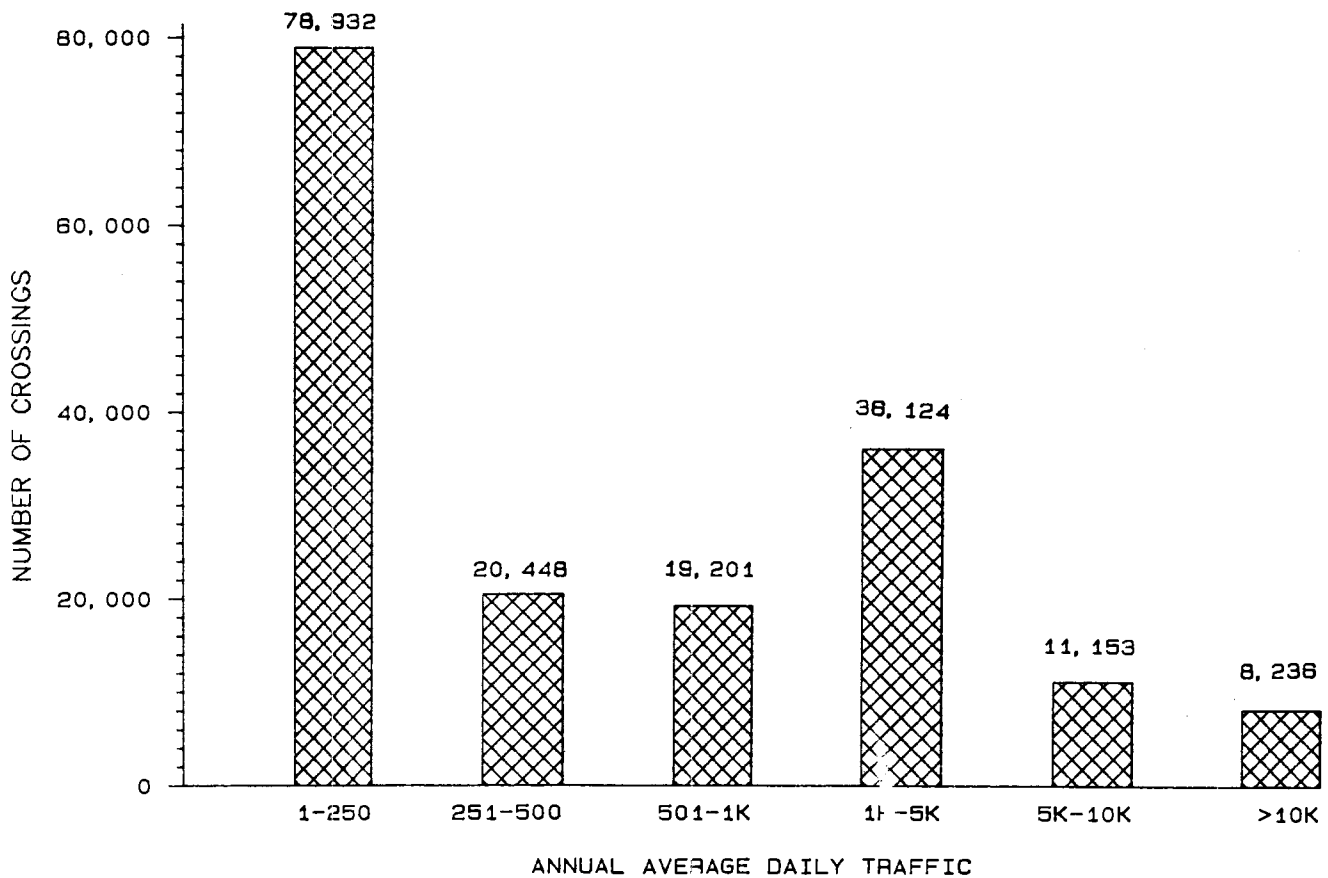


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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

ANNUAL AVERAGE DAILY TRAFFIC

Warning device	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	Total
Gates.....	3,531	2,687	3,460	9,705	3,936	3,462	26,781
Flashing lights.....	4,000	3,514	4,600	11,382	3,959	2,940	30,395
Hwy. signals, wigwags, bells.....	489	214	226	494	211	183	1,817
Special warning devices.....	1,097	664	720	1,747	641	482	5,351
Crossbucks.....	64,816	12,159	9,094	11,082	1,962	945	100,058
Stop signs.....	404	125	107	145	29	13	823
Other signs.....	238	85	87	106	29	14	559
No signs or signals.....	4,353	998	906	1,460	386	197	8,300
Total.....	78,928	20,446	19,200	36,121	11,153	8,236	174,084

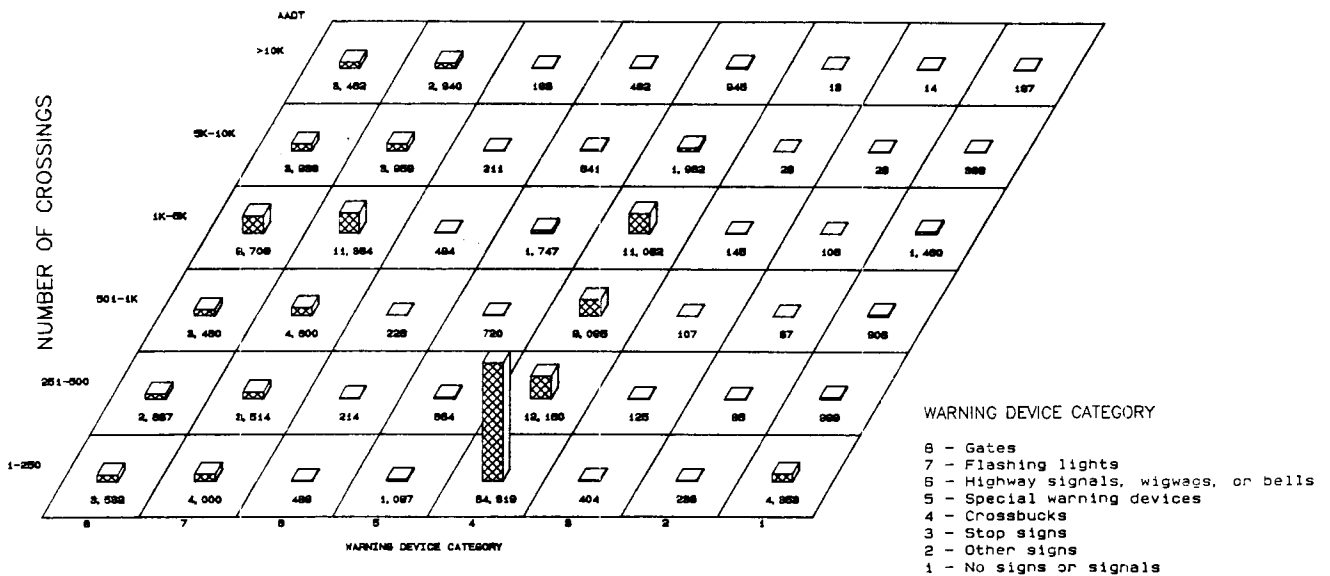


FIGURE 36. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

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

%	Crossings
<1	7,046
1-5	77,314
6-10	55,361
11-15	16,022
16-20	8,540
21-25	2,188
26-30	4,802
31-35	353
36-40	985
41-45	107
46-50	907
51-55	21
56-60	137
61-65	7
66-70	51
71-75	100
76-80	67
81-85	8
86-90	54
91-95	2
96-99	13
Total	174,085

TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	161	412	3,160	4	1	19	2	1	458	8
Alaska	11	97	58	10	0	39	0	0	1	11
Arizona	116	249	442	0	2	84	0	0	67	2
Arkansas	761	233	1,686	13	8	13	3	2	674	4
California	851	1,312	5,755	43	32	89	0	0	143	29
Colorado	697	405	688	4	4	96	8	30	228	16
Connecticut	107	5	329	4	2	49	2	0	3	2
Delaware	6	4	200	2	5	29	0	0	5	0
Dist Of Columbia	6	1	25	0	0	0	0	0	0	0
Florida	1,232	53	2,106	302	34	223	8	1	109	40
Georgia	114	128	5,692	21	17	7	1	1	536	1
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	230	857	473	13	0	27	0	0	97	13
Illinois	1,788	1,339	5,299	32	40	705	8	7	1,251	18
Indiana	976	104	5,353	12	10	377	9	0	224	2
Iowa	95	1,256	2,484	5	15	242	1	2	1,605	101
Kansas	2,341	2,298	1,369	10	20	94	6	2	2,208	12
Kentucky	336	343	1,608	1	5	77	2	3	551	0
Louisiana	798	595	1,798	11	8	507	1	17	503	1
Maine	56	233	618	0	0	9	0	0	7	0
Maryland	213	75	340	0	6	57	0	0	18	3
Massachusetts	64	29	1,001	8	0	80	0	0	15	0
Michigan	1,650	609	2,808	9	11	363	158	1	404	12
Minnesota	119	2,905	2,089	13	7	197	0	2	328	15
Mississippi	150	381	1,596	3	3	130	1	1	780	2
Missouri	1,266	872	1,705	9	3	91	2	1	1,002	15
Montana	15	1,173	280	13	2	31	0	8	20	9
Nebraska	909	729	728	32	42	58	2	2	1,690	17
Nevada	51	55	83	18	1	17	0	1	38	7
New Hampshire	12	57	419	1	0	7	0	0	6	1
New Jersey	160	11	1,513	14	19	60	0	14	82	42
New Mexico	489	163	50	0	2	24	0	0	98	0
New York	449	159	2,375	9	15	250	0	1	97	10
North Carolina	22	48	4,515	8	12	6	2	1	320	7
North Dakota	57	3,818	500	24	2	27	0	2	436	7
Ohio	2,125	187	4,762	11	25	109	0	6	259	14
Oklahoma	1,665	616	1,102	11	15	39	1	6	1,225	10
Oregon	504	107	1,395	9	18	40	0	0	46	289
Pennsylvania	985	77	3,887	61	247	84	1	16	366	4
Rhode Island	1	1	79	0	10	36	0	1	0	0
South Carolina	50	13	3,143	49	6	1	3	1	181	6
South Dakota	9	1,462	474	1	1	104	0	0	89	54
Tennessee	108	243	2,747	5	5	110	3	0	228	6
Texas	4,771	1,182	4,740	133	107	259	5	19	2,013	6
Utah	235	237	430	9	5	17	3	2	88	3
Vermont	37	42	350	0	1	9	0	0	74	0
Virginia	230	52	1,892	6	2	11	5	10	132	21
Washington	102	1,309	1,392	96	4	126	0	0	34	3
West Virginia	942	12	902	2	5	9	0	1	423	2
Wisconsin	95	406	4,190	5	28	215	1	0	262	1
Wyoming	41	205	133	2	1	29	0	0	118	7
Puerto Rico	0	0	22	0	0	0	0	0	2	0
FINAL TOTALS	28,218	27,159	90,791	1,048	817	5,282	238	162	19,546	833

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.....	1103	1554	2143	1943	1705	1230	1040	655	38	4	2	0	11417
FLASHING LIGHTS.....	4334	3410	5453	3769	2533	1359	310	258	15	0	0	0	21441
HWY. SIGNALS, HIGHWAGS, BELLS	387	193	234	142	59	61	8	11	2	0	1	0	1098
SPECIAL WARNING DEVICES.....	2544	664	319	101	47	27	14	23	12	2	0	0	3753
CROSSBUCKS.....	14442	9350	20619	15118	8275	5389	1309	1390	175	0	1	0	76068
STOP SIGNS.....	225	91	133	81	37	9	17	7	0	0	0	0	600
OTHER SIGNS.....	188	98	72	18	14	1	2	3	0	0	0	0	396
NO SIGNS OR SIGNALS.....	3127	1252	972	438	261	128	47	25	4	0	0	0	6254
TOTAL.....	26350	16612	29945	21610	12931	8204	2747	2372	246	6	4	0	121027
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.....	957	1558	2483	2452	2228	1973	1874	1698	138	2	1	0	15364
FLASHING LIGHTS.....	1749	1410	2121	1527	983	681	263	210	10	0	0	0	8954
HWY. SIGNALS, HIGHWAGS, BELLS	190	109	159	87	53	48	53	15	5	0	0	0	719
SPECIAL WARNING DEVICES.....	1028	261	164	52	25	42	10	12	3	1	0	0	1598
CROSSBUCKS.....	5340	3500	5078	3429	2471	1890	1172	974	136	0	0	0	23990
STOP SIGNS.....	99	36	47	12	11	4	7	7	0	0	0	0	223
OTHER SIGNS.....	55	44	29	18	15	0	2	0	0	0	0	0	163
NO SIGNS OR SIGNALS.....	1088	443	214	107	80	57	33	24	0	0	0	0	2046
TOTAL.....	10506	7361	10295	7684	5866	4695	3414	2940	292	3	1	0	53057
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.....	2060	3112	4626	4395	3933	3203	2914	2353	176	6	3	0	26781
FLASHING LIGHTS.....	6083	4820	7574	5296	3516	2040	573	468	25	0	0	0	30395
HWY. SIGNALS, HIGHWAGS, BELLS	577	302	393	229	112	109	61	26	7	0	1	0	1817
SPECIAL WARNING DEVICES.....	3572	925	483	153	172	69	24	35	15	3	0	0	5351
CROSSBUCKS.....	19782	12850	25697	18547	10746	7279	2481	2364	311	0	1	0	100058
STOP SIGNS.....	324	127	180	93	48	13	24	14	0	0	0	0	823
OTHER SIGNS.....	243	142	101	36	29	1	4	3	0	0	0	0	559
NO SIGNS OR SIGNALS.....	4215	1695	1186	545	341	185	80	49	4	0	0	0	8300
TOTAL.....	36856	23973	40240	29294	18797	12899	6161	5312	538	9	5	0	174084

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1991 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 \$6,300 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
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SECTION A—RECAPITULATION OF ALL CASUALTIES INCLUDING HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								CLASS OF PERSON FOR SECTIONS A AND B	SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES							
TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL			TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj		Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
								1. Employees on duty								
								2. Employees not on duty								
								3. Passengers on trains								
								4. Other nontrespassers								
								5. Trespassers (all classes)								
								6. Contracto: Employees								
								7. GRAND TOTAL								

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES					
LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

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

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

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <div style="text-align: right;">Amtrak Autotrain</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"/>														
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) CODE																	
<table style="width:100%; border: none;"> <tr> <td style="width: 25%;">1. Derailment</td> <td style="width: 25%;">3. Rear end collision</td> <td style="width: 25%;">5. Raking collision</td> <td style="width: 25%;">7. Rail-Hwy crossing</td> <td style="width: 25%;">9. Obstruction</td> <td style="width: 25%;">11. Fire or violent rupture</td> <td style="width: 25%;">12. Other (specify)</td> </tr> <tr> <td>2. Head on collision</td> <td>4. Side collision</td> <td>6. Broken train collision</td> <td>8. RR grade crossing</td> <td>10. Explosion-Detonation</td> <td></td> <td></td> </tr> </table>				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		
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) CODE

ENVIRONMENTAL CONDITIONS													
16. TEMPERATURE (specify if minus) °F	17. VISIBILITY (single entry) CODE	18. WEATHER (single entry) CODE											
	<table style="width:100%; border: none;"> <tr> <td>1. Dawn</td> <td>3. Dusk</td> </tr> <tr> <td>2. Day</td> <td>4. Dark</td> </tr> </table>	1. Dawn	3. Dusk	2. Day	4. Dark	<table style="width:100%; border: none;"> <tr> <td>1. Clear</td> <td>2. Cloudy</td> <td>3. Rain</td> <td>4. Fog</td> <td>5. Sleet</td> <td>6. Snow</td> </tr> </table>		1. Clear	2. Cloudy	3. Rain	4. Fog	5. Sleet	6. Snow
1. Dawn	3. Dusk												
2. Day	4. Dark												
1. Clear	2. Cloudy	3. Rain	4. Fog	5. Sleet	6. Snow								

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

EQUIPMENT																
23. TRAILING TONS (gross tonnage, excluding power units)		24. TYPE OF EQUIPMENT CONSIST (single entry) CODE			25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE											
		<table style="width:100%; border: none;"> <tr> <td>1. Freight train</td> <td>3. Mixed train</td> <td>5. Single car</td> <td>7. Yard/switching</td> </tr> <tr> <td>2. Passenger train</td> <td>4. Work train</td> <td>6. Cut of cars</td> <td>8. Light loco(s)</td> </tr> </table>			1. Freight train	3. Mixed train	5. Single car	7. Yard/switching	2. Passenger train	4. Work train	6. Cut of cars	8. Light loco(s)	<table style="width:100%; border: none;"> <tr> <td>1. Yes</td> <td>2. No</td> </tr> </table>		1. Yes	2. No
1. Freight train	3. Mixed train	5. Single car	7. Yard/switching													
2. Passenger train	4. Work train	6. Cut of cars	8. Light loco(s)													
1. Yes	2. No															
26. TRACK NUMBER OR NAME		27. FRA TRACK CLASSIFICATION		28. ANNUAL TRACK DENSITY (gross tons in millions)		29. TYPE OF TRACK CODE										
						<table style="width:100%; border: none;"> <tr> <td>1. Main</td> <td>3. Siding</td> </tr> <tr> <td>2. Yard</td> <td>4. Industry</td> </tr> </table>		1. Main	3. Siding	2. Yard	4. Industry					
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		Mid Train		Rear End										
				b. Manual c. Remote		d. Manual e. Remote										
(1) Total in Train						32. CARS (no. of)										
(2) Total Derailed						(1) Total in Equipment Consist										
						(2) Total Derailed										

PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)	
33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) \$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) \$

ACCIDENT/INCIDENT CAUSE CODE		
35. PRIMARY CAUSE CODE	36. CONTRIBUTING CAUSE CODE	37. If no code available, explain cause.

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

CREW (no. of)				HOURS ON DUTY							
41. ENGINEERS		42. FIREMEN		43. CONDUCTORS		44. BRAKEMEN		45. ENGINEER		46. CONDUCTOR	
								Hrs: Mins:		Hrs: Mins:	

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 Amtrak <input type="checkbox"/> Autotrain <input type="checkbox"/>	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 <i>(single entry)</i>	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 <i>(two letter code)</i> CODE
10. CITY <i>(if in a city)</i>	11. HIGHWAY NAME OR NUMBER <i>(if private crossing, so state)</i>	

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED 12. TYPE 1. Auto 3. Truck-Trailer 6. Motorcycle 2. Truck 4. Bus 7. Pedestrian 5. School Bus 8. Other <i>(specify)</i> 13. SPEED <i>(estimated mph at impact)</i> 14. DIRECTION <i>(geographical)</i> 1. North 3. East 2. South 4. West	CODE	RAILROAD EQUIPMENT INVOLVED 16. EQUIPMENT 1. Train <i>(units pulling)</i> 3. Train <i>(standing)</i> 6. Light loco(s) <i>(moving)</i> 2. Train <i>(units pushing)</i> 4. Car(s) <i>(moving)</i> 7. Light loco(s) <i>(standing)</i> 5. Car(s) <i>(standing)</i> 8. Other <i>(specify)</i> 17. POSITION OF CAR/UNIT IN TRAIN 18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user	CODE
15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing	CODE	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	CODE

ENVIRONMENT

20. TEMPERATURE <i>(specify, if minus)</i> °F	21. VISIBILITY <i>(single entry)</i> 1. Dawn 3. Dusk 2. Day 4. Dark	CODE	22. WEATHER <i>(single entry)</i> 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 <i>(recorded speed, if available)</i> MPH Est 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 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 <i>(specify)</i> 4. <input type="checkbox"/> Wig Wags 8. <input type="checkbox"/> Stop Signs 12. <input type="checkbox"/> None	CODE	32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No	CODE
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 <i>(specify)</i> 5. Unknown	CODE		
39. VIEW OF TRACK OBSCURED BY <i>(primary obstruction)</i> 1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other <i>(specify)</i> 4. Topography 6. Highway vehicles 8. Not obstructed			

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE <i>(est. dollar damage)</i>	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 <i>(include driver)</i>		
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No				CODE
47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE		

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

Month, Day, Year grid

B. CROSSING NUMBER

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

1. Railroad Operating Company, 2. Railroad Division or Region, 3. Railroad Subdivision or District, 4. State, 5. County, 6. County Map. Ref. No., 7. City, 8. Nearest City, 9. Highway Type and No., 10. Street or Road Name, 11. RR I. D. No., 12. Nearest RR Timetable Station, 13. Branch or Line Name, 14. Railroad Mile Post, 15. Pedestrian Crossing, 16. Private Vehicle Crossing, 17. Public Vehicle Crossing

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/Night), 1B. Check if Less Than One Movement Per Day, 2. Speed of Train at Crossing (Maximum time table speed, Typical Speed Range), 3. Type and Number of Tracks, 4. Does Another RR Operate a Separate Track at Crossing?, 5. Does Another RR Operate Over Your Track at Crossing?, 6. Type of Warning Device at Crossing (A. Signs, B. Train Activated Devices, C. Specify Special Warning Device not Train Activated, D. No Signs or Signals), 7. Is Commercial Power Available?, 8. Does Crossing Signal Provide Speed Selection for Trains?, 9. Method of Signalling for Train Operation: Is Track Equipped with Signals?

Part III Physical Data

1. Type of Development, 2. Smallest Crossing Angle, 3. Number of Traffic Lanes Crossing Railroad, 4. Are Truck Pullout Lanes Present?, 5. Is Highway Paved, 6. Pavement Markings, 7. Are RR Advance Warning Signs Present?, 8. Crossing Surface, 9. Does Track Run Down A Street?, 10. Nearby Intersecting Highway?

Part IV Highway Department Information

1. Highway System, 2. Is Crossing on State Highway System?, 3. Functional Classification of Road over Crossing, 4. Estimate AADT, 5. Estimate Percent Trucks, I. D. Number

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 122 NO 4,555 NOT REPORTED 0

2. WAS DRIVER IN VEHICLE?
 YES 4,137 NO 537 NOT REPORTED 3

3. DRIVER WAS:
 KILLED 338 INJURED 1,198 UNINJURED 3,135 NOT REPORTED 6

4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?
 YES 286 NO 2,775 NOT REPORTED 832 N/A 784

5. DIRECTOR (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:
 NORTH 1,164 SOUTH 1,085 EAST 1,238 WEST 1,168 NOT REPORTED 22

6. TRAIN TIMETABLE DIRECTION:
 NORTH 1,036 SOUTH 991 EAST 1,314 WEST 1,311 NOT REPORTED 25

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

LESS THAN ONE TRAIN PER DAY?				
YES	28,107	NO	145,981	N/R 2
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?				
YES	4,274	NO	169,741	N/R 79
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?				
YES	27,208	NO	146,787	N/R 99
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?				
YES	164,307	NO	8,831	N/R 956
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?				
YES	53,875	NO	120,218	N/R 1
IS HIGHWAY PAVED?				
YES	122,540	NO	51,554	N/R 0
IS COMMERCIAL POWER AVAILABLE?				
YES	158,086	NO	15,971	N/R 37
DOES TRACK RUN DOWN A STREET? ¹				
YES	5,152	NO	167,389	N/R 1,553
NEARBY INTERSECTING HIGHWAY? ¹				
YES	67,983	NO	104,508	N/R 1,603
RR ADVANCE WARNING SIGNS PRESENT?				
YES	102,808	NO	71,286	N/R 0
ARE TRUCK PULLOUT LANES PRESENT?				
YES	2,323	NO	171,763	N/R 8
IS CROSSING ON STATE HIGHWAY SYSTEM?				
YES	26,914	NO	147,180	N/R 0
DOES CROSSING PROVIDE SPEED SELECTION?				
YES	9,418	NO	59,556	N/R 105,120

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

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

APPENDIX D. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS

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

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	5	1	---	---	---	---	1	---	---	---	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	2	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	6	---	---	---	---	---	---	---	---	1	---	1
California.....	15	1	6	2	---	1	13	---	3	3	1	---
Colorado.....	7	---	3	---	---	---	---	---	---	1	---	1
Connecticut.....	---	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	1	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	1	---	---	---	---	---	---	---	---	---	---	---
Florida.....	10	1	1	1	---	---	---	---	---	1	---	---
Georgia.....	11	1	5	---	---	---	3	---	1	5	---	1
Idaho.....	4	---	2	---	---	---	---	---	---	---	---	---
Illinois.....	10	2	---	1	---	---	3	---	---	1	1	---
Indiana.....	13	---	5	2	1	4	2	---	1	4	---	---
Iowa.....	8	---	2	1	1	---	2	1	---	1	---	---
Kansas.....	7	---	4	---	---	---	---	---	---	1	---	---
Kentucky.....	19	---	3	---	---	---	---	---	---	---	---	---
Louisiana.....	9	2	3	1	---	1	4	---	6	4	---	5
Maine.....	3	---	1	---	---	---	1	---	---	---	---	---
Maryland.....	2	---	1	---	---	---	2	---	3	1	---	---
Massachusetts....	1	1	---	3	---	1	---	---	---	1	---	1
Michigan.....	7	---	3	1	---	---	1	---	1	3	---	---
Minnesota.....	7	1	1	---	---	---	2	---	1	1	---	---
Mississippi.....	12	---	6	1	---	---	---	---	---	1	---	---
Missouri.....	10	5	5	---	---	---	1	---	---	---	---	---
Montana.....	11	---	7	---	---	---	---	---	---	---	---	---
Nebraska.....	4	---	---	---	---	---	---	---	---	---	---	---
Nevada.....	1	---	---	---	---	---	1	---	---	---	---	---
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	4	---	2	---	---	---	---	---	---	---	---	---
New Mexico.....	4	---	1	1	---	1	---	---	---	---	---	---
New York.....	5	1	2	2	2	---	---	---	---	1	---	---
North Carolina...	13	---	2	1	1	---	2	---	---	2	---	---
North Dakota.....	3	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	12	1	3	1	---	---	3	---	3	1	---	---
Oklahoma.....	6	---	4	---	---	---	---	---	---	---	---	---
Oregon.....	9	---	5	1	---	---	2	---	---	3	---	1
Pennsylvania.....	20	1	12	---	---	---	5	---	1	---	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	3	---	3	---	---	---	1	---	---	---	---	---
South Dakota.....	2	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	9	1	2	---	---	---	4	---	---	---	---	---
Texas.....	20	3	10	---	---	---	11	---	3	6	---	3
Utah.....	1	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	1	---	1	---	---	---	---	---	---	1	---	---
Virginia.....	23	4	5	1	2	---	1	---	---	3	---	---
Washington.....	13	1	1	---	---	---	3	---	---	2	---	---
West Virginia....	12	1	5	---	---	---	---	---	---	2	---	---
Wisconsin.....	7	---	3	---	---	---	4	---	---	---	---	---
Wyoming.....	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	353	28	119	20	7	8	72	1	23	50	2	13

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

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

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	---	---	1	1	---	1	3	6
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	1	---	---	1	2
Arkansas.....	---	---	---	---	3	---	---	4	7
California.....	1	1	---	4	7	13	---	7	33
Colorado.....	---	---	---	---	3	2	1	2	8
Connecticut.....	---	---	---	---	---	---	---	---	---
Delaware.....	---	---	---	---	---	---	---	1	1
Dist. of Columbia	---	---	---	---	---	---	---	1	1
Florida.....	2	---	---	---	9	---	---	1	12
Georgia.....	1	---	---	---	11	1	1	5	19
Idaho.....	---	---	---	---	1	---	---	3	4
Illinois.....	1	---	---	1	5	1	1	6	15
Indiana.....	---	3	---	1	8	1	---	8	21
Iowa.....	---	1	---	---	5	1	---	5	12
Kansas.....	---	---	---	---	4	---	---	4	8
Kentucky.....	---	2	---	1	9	---	---	7	19
Louisiana.....	---	---	---	2	11	1	1	3	18
Maine.....	---	---	---	1	---	1	1	1	4
Maryland.....	---	---	1	---	1	---	1	2	5
Massachusetts....	---	---	---	---	---	1	2	2	5
Michigan.....	---	2	---	---	6	2	---	2	12
Minnesota.....	---	---	---	---	1	6	1	2	10
Mississippi.....	---	2	---	---	4	1	---	7	14
Missouri.....	---	---	---	---	6	1	1	3	11
Montana.....	---	---	---	---	2	5	---	4	11
Nebraska.....	---	---	---	---	1	1	---	2	4
Nevada.....	---	---	---	---	---	---	---	2	2
New Hampshire.....	---	---	---	---	---	---	---	---	---
New Jersey.....	---	---	---	1	---	---	1	2	4
New Mexico.....	---	---	---	---	5	---	---	---	5
New York.....	---	1	---	---	1	---	---	6	8
North Carolina....	---	1	---	2	9	---	---	6	18
North Dakota.....	---	---	---	---	---	---	---	3	3
Ohio.....	1	2	---	---	5	1	1	7	17
Oklahoma.....	---	---	---	---	3	---	---	3	6
Oregon.....	---	---	1	---	2	8	---	4	15
Pennsylvania.....	---	---	2	1	12	3	1	6	25
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina....	---	---	---	---	3	---	---	1	4
South Dakota.....	---	---	---	---	2	---	---	---	2
Tennessee.....	---	---	---	2	3	1	---	7	13
Texas.....	3	4	1	2	17	3	---	7	37
Utah.....	---	---	---	---	1	---	---	---	1
Vermont.....	---	---	---	---	---	---	1	1	2
Virginia.....	1	1	---	2	7	2	---	15	28
Washington.....	---	1	---	---	4	6	---	7	18
West Virginia....	1	2	---	---	4	---	1	6	14
Wisconsin.....	---	---	---	2	4	2	---	3	11
Wyoming.....	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	11	23	5	23	181	64	16	172	495

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.....	222	42.29	18	41.86	62	36.26	13	43
Truck.....	167	31.81	15	34.88	59	34.50	14	50
Truck-trailer....	105	20.00	5	11.63	42	24.56	5	28
Bus.....	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	1	.19	---	---	---	---	---	---
Pedestrian.....	4	.76	2	4.65	2	1.17	2	2
Other.....	26	4.95	3	6.98	6	3.51	3	4
Total.....	525	100.00	43	100.00	171	100.00	37	127

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

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			----Unknown----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	5	---	5	.1	---	---	---	---	---	5	---	---	---	---	---	11	---	5
Cantilever flashrs	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Standard flashers	---	---	---	---	---	---	19	---	8	1	---	---	3	2	1	23	2	9
Hwy Sig,W W,Bells	---	---	---	1	---	---	3	---	1	1	---	---	---	---	---	5	---	1
Special Devices..	---	---	---	3	---	---	13	---	3	5	---	---	---	---	---	5	---	1
Crossbucks.....	---	---	---	7	1	1	106	16	61	62	4	15	2	---	1	23	---	5
Stopsigns.....	---	---	---	7	---	1	36	2	14	18	---	6	3	2	181	23	77	
Other Signs.....	---	---	---	1	---	---	8	1	4	5	---	2	---	3	64	2	24	
No Signs Or Signl	---	---	---	6	---	1	72	7	22	84	---	11	10	1	16	2	7	
Total.....	5	---	5	26	1	3	257	26	113	181	4	35	26	7	7	495	38	163

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

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

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.....	4	---	---	74	---	12	5	---	---	31	---	8	114	---	20
10-19.....	2	---	---	35	---	7	2	---	---	9	---	1	48	---	8
20-29.....	4	---	6	44	---	19	1	---	1	15	---	4	64	---	30
30-39.....	2	1	---	55	6	33	1	---	---	27	---	4	85	7	37
40-49.....	2	---	---	43	12	23	3	---	2	23	---	6	71	12	31
50-59.....	2	---	4	16	7	7	---	---	---	12	1	1	30	8	12
60-69.....	---	---	---	9	2	4	---	---	---	1	---	---	10	2	4
70-79.....	---	---	---	10	7	2	---	---	---	1	1	1	11	8	3
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	16	1	10	286	34	107	12	---	3	119	2	25	433	37	145
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	1	---	---	---	---	---	5	1	1	6	1	1
1-9.....	1	---	---	15	---	2	---	---	---	7	---	5	23	---	7
10-19.....	2	---	---	3	---	---	---	---	---	4	---	2	9	---	2
20-29.....	---	---	---	8	---	2	---	---	---	1	---	---	9	---	2
30-39.....	---	---	---	5	---	1	---	---	---	2	---	---	7	---	1
40-49.....	---	---	---	6	---	4	---	---	---	---	---	---	6	---	4
50-59.....	1	---	1	1	---	---	---	---	---	---	---	---	2	---	1
60-69.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
70-79.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4	---	1	39	---	9	---	---	---	19	1	8	62	1	18
GRAND TOTAL															
Standing.....	---	---	---	1	---	---	---	---	---	5	1	1	6	1	1
1-9.....	5	---	---	89	---	14	5	---	---	38	---	13	137	---	27
10-19.....	4	---	---	38	---	7	2	---	---	13	---	3	57	---	10
20-29.....	4	---	6	52	---	21	1	---	1	16	---	4	73	---	32
30-39.....	2	1	---	60	6	34	1	---	---	29	---	4	92	7	38
40-49.....	2	---	---	49	12	27	3	---	2	23	---	6	77	12	35
50-59.....	3	---	5	17	7	7	---	---	---	12	1	1	32	8	13
60-69.....	---	---	---	9	2	4	---	---	---	1	---	---	10	2	4
70-79.....	---	---	---	10	7	2	---	---	---	1	1	1	11	8	3
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	20	1	11	325	34	116	12	---	3	138	3	33	495	38	163

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

Railroad	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Highways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Aberdeen And Rockfish Railroad Company	---	---	---	---	---	---	---	---	---
Aberdeen, Carolina And Western Railroad	---	---	---	---	2	---	---	---	2
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	1	1	---	---	9	3	---	4	18
Atchison, Topeka And Santa Fe Railway Co.	1	2	---	1	16	1	---	8	29
Atlanta & Saint Andrews Bay Railway Co.	---	---	---	---	---	---	---	---	---
Bangor And Aroostook Railroad	---	---	---	---	---	1	1	1	3
Burlington Northern Railroad Company	1	3	---	---	20	25	---	25	74
Carolina Piedmont Division-South Carolina	---	---	---	---	---	1	---	---	1
Central Michigan Railway Company	---	---	---	---	---	1	---	---	1
Central Of Georgia Railroad Company	---	---	---	---	1	1	---	---	2
Chicago And North Western Transportation	---	---	---	---	2	---	---	---	2
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	---	---
Cincinnati, New Orleans & Texas Pacific Rwy	---	---	---	---	---	---	---	---	---
Columbus And Greenville Railway Company	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation	---	7	---	3	16	3	1	12	42
CSX Transportation	1	3	---	3	37	---	2	26	72
Dakota, Minnesota & Eastern Railroad	---	---	---	---	---	---	---	---	---
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	---	4	5
Escahaba And Lake Superior Railroad Co.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company	1	---	---	---	1	---	---	---	2
Fox River Valley Railroad Corporation	---	---	---	---	---	---	---	---	---
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Georgia Southern & Florida Company	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	---	---	---	---	2	---	---	---	2
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	---	---	---	---	---	---	---	---	---
Huron & Eastern Railway	---	---	---	---	1	---	---	---	1
Illinois Central Railroad Company	---	---	---	1	5	---	1	6	14
Indiana Harbor Belt Railroad Company	---	---	---	---	---	---	---	1	1
Indiana Hi-rail Corporation	---	---	---	---	1	---	---	---	1
Indiana Rail Road Company	---	---	---	---	1	---	---	---	1
Iowa Interstate Railroad	---	---	---	---	---	---	---	---	---
Kansas City Southern Railway Company	---	---	---	---	3	---	---	1	4
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Louisiana & Arkansas Railway Company	---	---	---	---	4	---	---	---	4
Louisiana & Delta Railroad	---	---	---	---	---	---	---	---	---
Midsouth Rail Corporation	---	---	---	---	1	---	1	---	1
Monongahela Railway Company	---	---	---	---	1	---	1	---	2
Montana Rail Link	---	---	---	---	---	1	---	3	4
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
New Orleans Lower Coast Railroad, Inc.	---	---	---	---	---	---	---	2	2
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	2	1	1	---	7	2	1	20	34
Norfolk Southern Corporation	1	---	---	3	5	1	---	13	23
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Northern Indiana Transportation Commuter	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Company	---	1	---	1	1	---	---	---	3
Port Terminal Railroad Association	---	3	---	1	3	1	---	1	9
Soo Line Railroad Company	---	1	---	1	3	---	1	4	10
Southeastern Pennsylvania Transportation	---	---	---	---	---	---	---	---	---
Southern Pacific Transportation Company	3	---	1	3	7	14	---	3	31
Southrail Corporation	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Company	---	---	---	1	---	---	---	1	2
St. Louis Southwestern Railway Company	---	---	---	---	6	---	1	2	9
Texas Mexican Railway Company	---	---	---	---	---	---	---	---	---
Tuscola And Saginaw Bay Railroad Company	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Company	---	---	---	3	15	2	1	16	35
UTSZ Transit Service, Incorporated	---	---	---	---	---	---	---	---	---
Visalia Electric Railroad Company	---	---	---	---	1	1	---	---	2
Washington Central Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin & Southern Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin Calumet Railroad	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	---	---	1	1	1	1	---	2	5
All Other Railroads.....	---	1	3	1	5	5	5	15	39
Total.....	11	23	5	23	181	64	16	172	495

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
Aberdeen And Rockfish Railroad Company	---	---	---	---	---	---	---	---	---
Aberdeen, Carolina And Western Railroad	2	---	1	---	---	---	2	---	1
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	18	7	7	---	---	---	18	7	7
Atchison, Topeka And Santa Fe Railway Co.	29	3	9	1	---	---	30	3	9
Atlanta & Saint Andrews Bay Railway Co.	---	---	---	---	---	---	---	---	---
Bangor And Aroostook Railroad	3	---	1	---	---	---	3	---	1
Burlington Northern Railroad Company	74	6	19	6	1	1	80	7	20
Carolina Piedmont Division-South Carolina	---	---	---	---	---	---	---	---	---
Central Michigan Railway Company	1	---	1	---	---	---	1	---	1
Central Of Georgia Railroad Company	---	---	---	---	---	---	---	---	---
Chicago And North Western Transportation	2	---	---	---	---	---	2	---	---
Chicago, Central & Pacific Railroad Co.	2	1	---	1	---	1	3	1	1
Cincinnati, New Orleans & Texas Pacific Rwy	---	---	---	---	---	---	---	---	---
Columbus And Greenville Railway Company	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation	42	2	17	1	---	1	43	2	18
CSX Transportation	72	3	25	2	1	---	74	4	25
Dakota, Minnesota & Eastern Railroad	---	---	---	---	---	---	---	---	---
Delaware And Hudson Railroad Company	3	---	2	---	---	---	3	---	2
Denver And Rio Grande Western Railroad Co.	1	---	1	---	---	---	1	---	1
Detroit And Mackinac Railway Company	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Company	5	---	---	1	---	---	6	---	---
Escanaba And Lake Superior Railroad Co.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company	2	---	---	---	---	---	2	---	---
Fox River Valley Railroad Corporation	---	---	---	---	---	---	---	---	---
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Georgia Southern & Florida Company	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	2	---	2	---	---	---	2	---	2
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	---	---	---	1	---	---	1	---	---
Huron & Eastern Railway	1	---	---	---	---	---	1	---	---
Illinois Central Railroad Company	14	---	6	2	---	1	16	---	7
Indiana Harbor Belt Railroad Company	1	---	1	---	---	---	1	---	1
Indiana Hiramail Corporation	1	---	---	---	---	---	1	---	---
Indiana Rail Road Company	1	---	---	---	---	---	1	---	---
Iowa Interstate Railroad	---	---	---	---	---	---	---	---	---
Kansas City Southern Railway Company	4	---	1	1	---	---	5	---	1
Long Island Rail Road	---	---	---	1	---	1	1	---	1
Louisiana & Arkansas Railway Company	4	---	4	1	---	---	5	---	4
Louisiana & Delta Railroad	---	---	---	---	---	---	---	---	---
Midsouth Rail Corporation	1	---	---	---	---	---	1	---	---
Monongahela Railway Company	2	---	---	---	---	---	2	---	---
Montana Rail Link	4	---	---	1	---	---	5	---	---
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
New Orleans Lower Coast Railroad, Inc.	2	---	3	---	---	---	2	---	3
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	34	5	7	---	---	---	34	5	7
Norfolk Southern Corporation	23	1	4	2	1	---	25	2	4
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Northern Indiana Transportation Commuter	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Company	3	---	1	---	---	---	3	---	1
Port Terminal Railroad Association	9	---	4	---	---	---	9	---	4
Soo Line Railroad Company	10	---	2	1	1	1	11	1	3
Southeastern Pennsylvania Transportation	---	---	---	---	---	---	---	---	---
Southern Pacific Transportation Company	31	1	15	1	---	---	32	1	15
Southrail Corporation	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Company	2	1	---	---	---	---	2	1	---
St. Louis Southwestern Railway Company	9	4	5	1	---	---	10	4	5
Texas Mexican Railway Company	---	---	---	1	---	1	1	---	1
Tuscola And Saginaw Bay Railroad Company	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Company	35	2	17	2	1	---	37	3	17
UTSZ Transit Service, Incorporated	---	---	---	---	---	---	---	---	---
Visalia Electric Railroad Company	2	---	1	---	---	---	2	---	1
Washington Central Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin & Southern Railroad Company	---	---	---	---	---	---	---	---	---
Wisconsin Calumet Railroad	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	5	---	---	1	---	---	6	---	---
All Other Railroads.....	39	2	7	2	---	1	41	2	8
Total.....	495	38	163	30	5	8	525	43	171

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 HIGHWAY-RAIL GRADE CROSSING		NOT AT HWY-RAIL GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
1991	663	769	139	235	524	534
1990	700	793	157	233	543	560
1989	641	898	200	370	441	528
1988	598	920	150	358	448	562
1987	584	673	131	227	453	446
1986	519	706	121	246	398	460
TOTAL	3,705	4,759	898	1,669	2,807	3,090

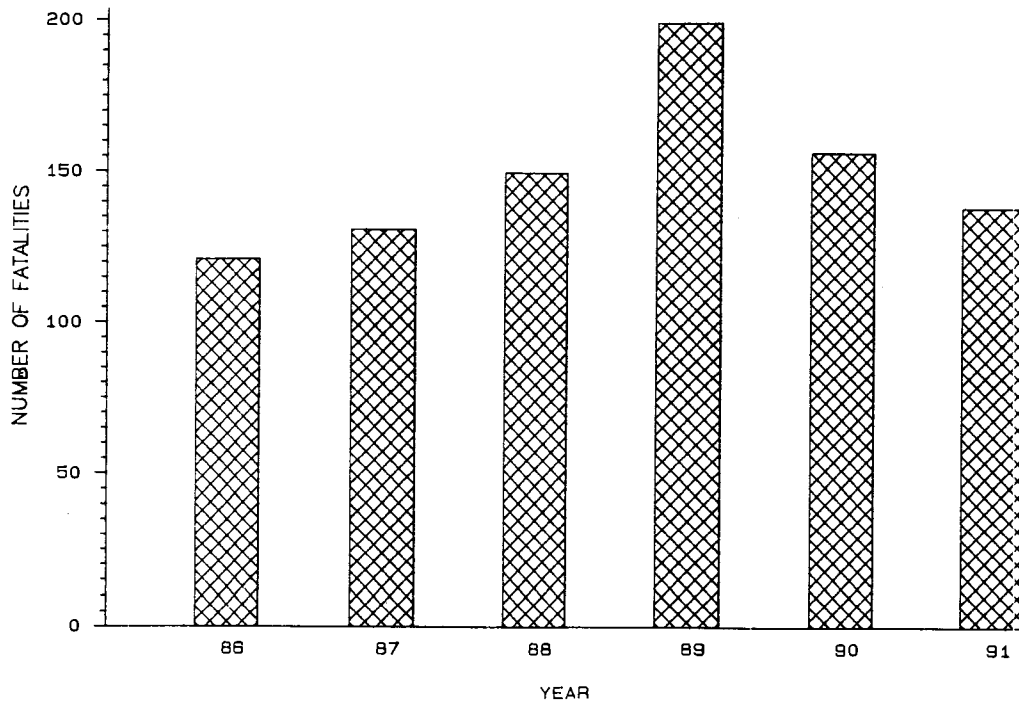


FIGURE 37. TRESPASSER FATALITIES AT RAIL—HIGHWAY CROSSING, BY YEAR

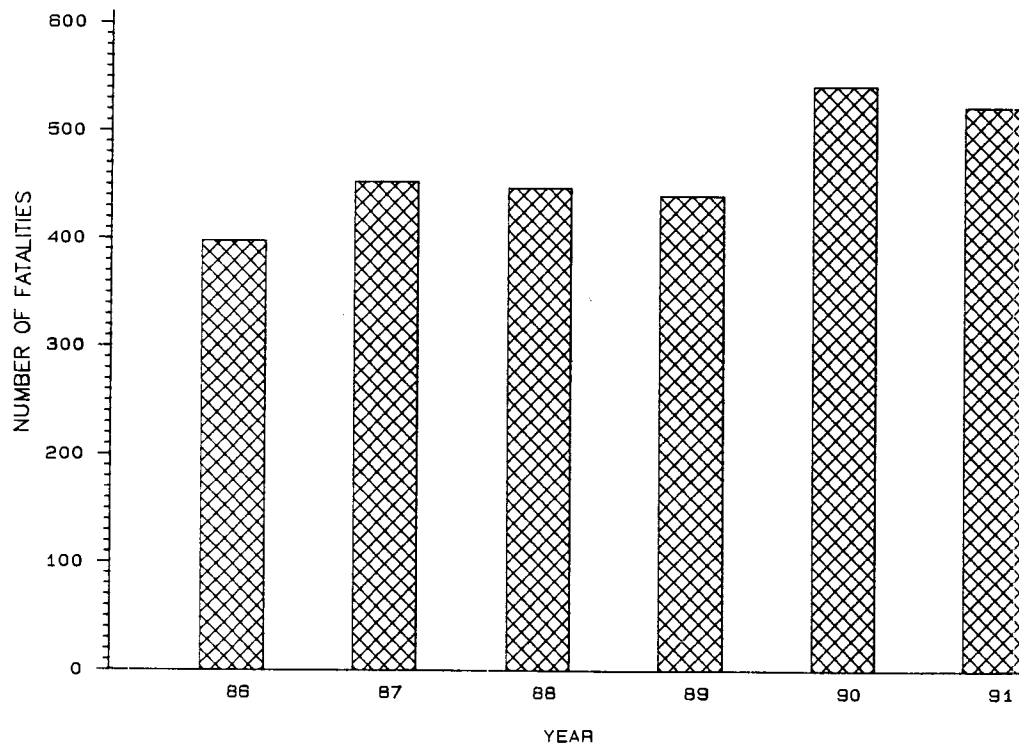


FIGURE 38. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSING, BY YEAR

TABLE E-2. 1991 TRESPASSER CASUALTIES BY MONTH

MONTH	TOTAL KILLED	TOTAL INJURED	AT HIGHWAY-RAIL GRADE CROSSING		NOT AT HWY-RAIL GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
January	42	55	16	31	26	24
February	47	52	12	22	35	30
March	52	75	21	33	31	42
April	45	64	8	17	37	47
May	49	73	10	16	39	57
June	70	57	8	14	62	43
July	75	84	13	17	62	67
August	77	87	10	17	67	70
September	68	75	15	22	53	53
October	53	65	4	19	49	46
November	47	40	11	8	36	32
December	38	42	11	19	27	23
TOTALS	663	769	139	235	524	534

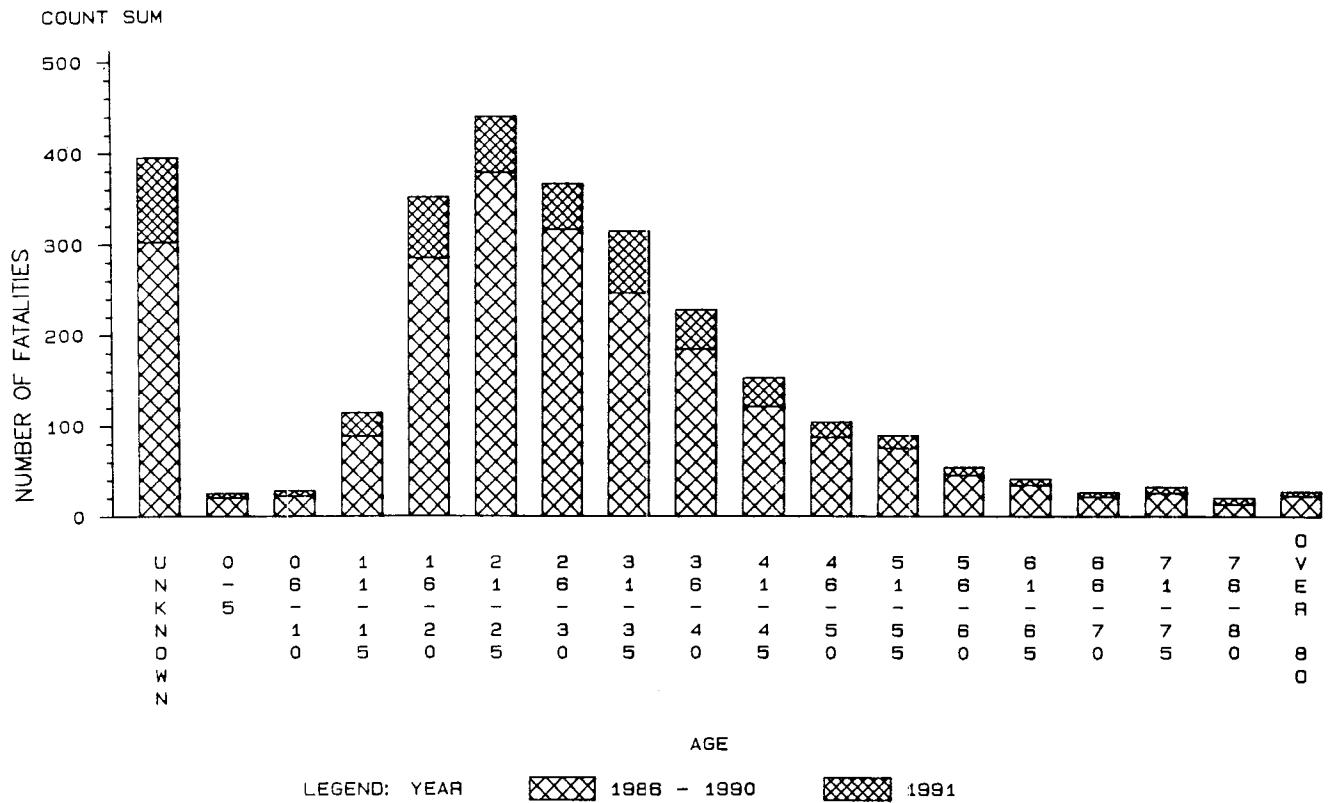


FIGURE 39. TRESPASSER FATALITIES, NOT AT RAIL—HIGHWAY CROSSINGS, BY AGE GROUP

TABLE E-3. TRESPASSER CASUALTIES BY RAILROAD

RAILROAD	TOTAL		AT RAIL-HIGHWAY		NOT AT RAIL-HWY	
	KILLED	INJURED	GRADE CROSSING KILLED	GRADE CROSSING INJURED	GRADE CROSSING KILLED	GRADE CROSSING INJURED
ATLANTIC AND EAST CAROLINA RAILWAY	1	0	0	0	1	0
ATLANTIC AND GULF RAILROAD	0	1	0	0	0	1
ALABAMA GREAT SOUTHERN RAILROAD	2	1	0	0	2	1
ALASKA RAILROAD CORPORATION	1	1	0	0	1	1
AMTRAK (NATIONAL RAILROAD PASSENGER CORP.)	76	47	19	20	57	27
ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY	34	23	0	0	34	23
ARIZONA EASTERN RAILROAD	1	0	0	0	1	0
BANGOR AND AROOSTOOK RAILROAD	1	0	0	0	1	0
BESSEMER & LAKE ERIE RAILROAD COMPANY	1	0	0	0	1	0
BURLINGTON NORTHERN RAILROAD COMPANY	55	45	9	10	46	35
BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	0	1	0	0	0	1
CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	0	4	0	0	0	4
CENTRAL OF GEORGIA RAILROAD COMPANY	2	3	0	2	2	1
CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RAILWAY	2	0	0	0	2	0
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY	11	14	8	11	3	3
CONSOLIDATED RAIL CORPORATION	53	80	15	17	38	63
CHICAGO SOUTHSHORE & SOUTH BEND RAILROAD	0	2	0	1	0	1
CSX TRANSPORTATION	83	99	19	28	64	71
DELAWARE AND HUDSON RAILWAY COMPANY	0	9	0	6	0	3
DENVER AND RIO GRANDE WESTERN RAILROAD COMPANY	2	1	0	0	2	1
ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	2	0	0	0	2	0
FLORIDA CENTRAL RAILROAD CO.	1	0	1	0	0	0
FLORIDA EAST COAST RAILWAY COMPANY	20	20	4	9	16	11
FOX RIVER VALLEY RAILROAD CORPORATION	0	1	0	0	0	1
GEORGIA CENTRAL RAILROAD/DIV. OF WILMINGTON TERMIN	0	1	0	1	0	0
GEORGIA SOUTHERN & FLORIDA COMPANY	2	1	0	0	2	1
GRAND TRUNK WESTERN RAILROAD COMPANY	8	13	1	0	7	13
GATEWAY WESTERN RAILWAY	0	1	0	0	0	1
HOUSTON BELT & TERMINAL RAILWAY COMPANY	0	1	0	0	0	1
IOWA INTERSTATE RAILROAD	0	2	0	2	0	0
ILLINOIS CENTRAL RAILROAD COMPANY	2	6	0	0	2	6
INDIANA HARBOR BELT RAILROAD COMPANY	0	4	0	3	0	1
KANSAS CITY SOUTHERN RAILWAY COMPANY	3	1	0	0	3	1
LOUISIANA & ARKANSAS RAILWAY COMPANY	2	3	0	2	2	1
LONG ISLAND RAIL ROAD	15	21	5	7	10	14
LITTLE KANAWHA RIVER RAIL	1	0	0	0	1	0
LACKAWANNA VALLEY RAILROAD	0	1	0	0	0	1
METRO NORTH COMMUTER RAILROAD COMPANY	8	7	0	1	8	6
MONTANA RAIL LINK	1	0	0	0	1	0
MIDSOUTH RAIL CORPORATION	0	1	0	0	0	1
NORTHEAST KANSAS & MISSOURI	0	1	0	1	0	0
NORTHERN INDIANA TRANSPORTATION COMMUTER DISTRICT	2	3	1	1	1	2
NORTHEAST ILLINOIS REGIONAL COMMUTER RAIL CORPORAT	9	17	4	7	5	10
NEW JERSEY TRANSIT RAIL OPERATIONS	19	5	1	0	18	5
NEW ORLEANS TERMINAL COMPANY	0	1	0	0	0	1
NORFOLK SOUTHERN CORPORATION	50	33	6	4	44	29
NORFOLK AND WESTERN RAILWAY COMPANY	24	34	6	15	18	19
NORTHWESTERN PACIFIC RAILROAD COMPANY	0	1	0	0	0	1
NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD CORPORA	2	3	0	2	2	1
OCTORARO RAILWAY INCORPORATED	0	1	0	1	0	0
PORTLAND TERMINAL (OREGON)	0	1	0	0	0	1
PORT TERMINAL RAILROAD ASSOCIATION	1	0	0	0	1	0
SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY	6	19	0	4	6	15
SOUTHERN MICHIGAN RAILROAD SOCIETY	0	1	0	1	0	0
SOO LINE RAILROAD COMPANY	7	11	1	3	6	8
SOUTHERN PACIFIC TRANSPORTATION COMPANY	62	89	11	21	51	68
SOUTHRAIL CORPORATION	1	0	0	0	1	0
ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	3	5	0	4	3	1
SOUTHERN PACIFIC, CHICAGO-ST. LOUIS CORPORATION (S	2	0	1	0	1	0
SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMONT)	1	1	1	0	0	1
UNION PACIFIC RAILROAD COMPANY	80	120	25	45	55	75
UTDC TRANSIT SERVICE, INCORPORATED	1	2	1	1	0	1
WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	2	1	0	0	2	1
WASHINGTON CENTRAL RAILROAD COMPANY	1	2	0	2	1	0
WISCONSIN CALUMET RAILROAD	0	1	0	1	0	0
WINCHESTER AND WESTERN RAILROAD COMPANY	0	2	0	2	0	0
FINAL TOTALS	663	769	139	235	524	534

TABLE E-4. TRESPASSER CASUALTIES BY STATE

STATE	TOTAL		AT RAIL-HIGHWAY		NOT AT RAIL-HWY	
	KILLED	INJURED	GRADE KILLED	CROSSING INJURED	GRADE KILLED	CROSSING INJURED
Alabama	16	9	3	3	13	6
Alaska	1	1	0	0	1	1
Arizona	11	14	0	0	11	14
Arkansas	10	18	5	6	5	12
California	89	73	13	19	76	54
Colorado	7	10	1	0	6	10
Connecticut	4	2	1	1	3	1
Delaware	2	1	0	0	2	1
Dist Of Columbia	3	3	0	0	3	3
Florida	39	35	18	17	21	18
Georgia	28	24	3	6	25	18
Idaho	4	2	1	1	3	1
Illinois	61	69	21	35	40	34
Indiana	26	28	12	18	14	10
Iowa	3	12	2	7	1	5
Kansas	6	5	2	2	4	3
Kentucky	8	6	0	2	8	4
Louisiana	8	23	0	6	8	17
Maine	1	0	0	0	1	0
Maryland	2	6	0	1	2	5
Massachusetts	5	18	0	10	5	8
Michigan	14	32	2	5	12	27
Minnesota	8	5	0	0	8	5
Mississippi	8	2	3	1	5	1
Missouri	10	10	3	2	7	8
Montana	3	1	0	1	3	0
Nebraska	9	2	5	0	4	2
Nevada	1	4	0	0	1	4
New Jersey	28	14	1	6	27	8
New Mexico	4	3	0	0	4	3
New York	29	56	7	15	22	41
North Carolina	19	17	1	3	18	14
North Dakota	1	3	0	2	1	1
Ohio	31	22	9	6	22	16
Oklahoma	10	5	2	1	8	4
Oregon	9	21	2	6	7	15
Pennsylvania	23	46	1	6	22	40
South Carolina	16	9	6	2	10	7
Tennessee	12	16	2	4	10	12
Texas	35	88	4	29	31	59
Utah	4	5	1	3	3	2
Virginia	17	16	2	4	15	12
Washington	23	10	4	2	19	8
West Virginia	10	14	0	0	10	14
Wisconsin	4	8	1	3	3	5
Wyoming	1	1	1	0	0	1
FINAL TOTALS	663	769	139	235	524	534