

Thomas P. Wolf



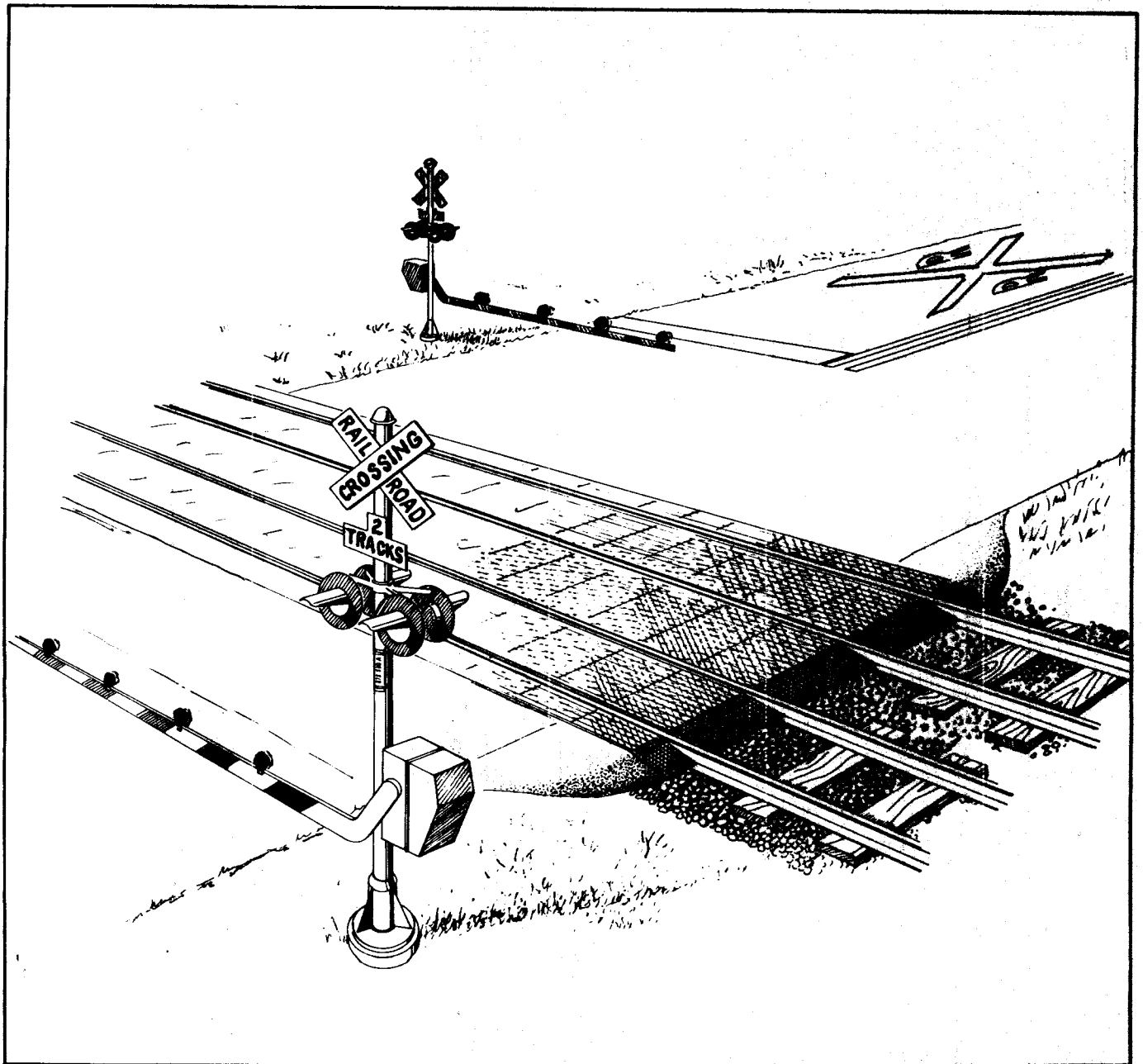
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**Federal Railroad Administration
Office of Safety, RRS-22
400 Seventh Street, S.W.
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TABLE OF CONTENTS

<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 (1989).	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, 1989	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	1988 TRESPASSER CASUALTIES BY MONTH	E-3
E-3	1988 TRESPASSER CASUALTIES BY RAILROAD.	E-4
E-4	1988 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 twelfth annual report, issued by the Federal Railroad Administration (FRA) Office of Safety, combines rail-highway crossing accident/incident statistics with the National Rail-Highway Crossing Inventory. Accident/Incident data is compiled from monthly reports filed by railroads. The National Rail-Highway 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 Rail-Highway Crossing Inventory was developed in response to the Federal Railroad Safety Act of 1970 and the Federal Highway Safety Acts of 1970 and 1973, which require the Secretary of Transportation to work towards improving safety at rail-highway crossings.

* * * * *

Section 1 presents historical data on rail-highway crossing accidents/incidents at public crossings for 1984 through 1989.

Section 2 contains 1989 accident/incident statistics on rail-highway crossing accidents/incidents that occurred at public crossing sites.

Section 3 combines information from the rail-highway crossing accident/incident file with data in the National Rail-Highway 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 rail-highway crossings as described in the inventory on June 4, 1990.

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

Resource Allocation Procedure Constants

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

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

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

The following Table lists the new and prior constants.

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

TABLE — S
SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1989

Type of CrossingTotal.....		Motor Vehicles.....		Non-Motor Vehicles...		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	5,979	757	2,683	5,772	682	2,615	207	75	68
Private	546	44	185	524	43	176	22	1	9
Total	6,525	801	2,868	6,296	725	2,791	229	76	77

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

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

YEAR	NUMBER OF ACCIDENTS	KILLED	TOTAL INJURED	CASUALTIES	CASUALTIES PER ACCIDENT
1984	6,633	610	2,723	3,333	0.50
1985	6,353	537	2,508	3,045	0.48
1986	5,868	578	2,328	2,906	0.50
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

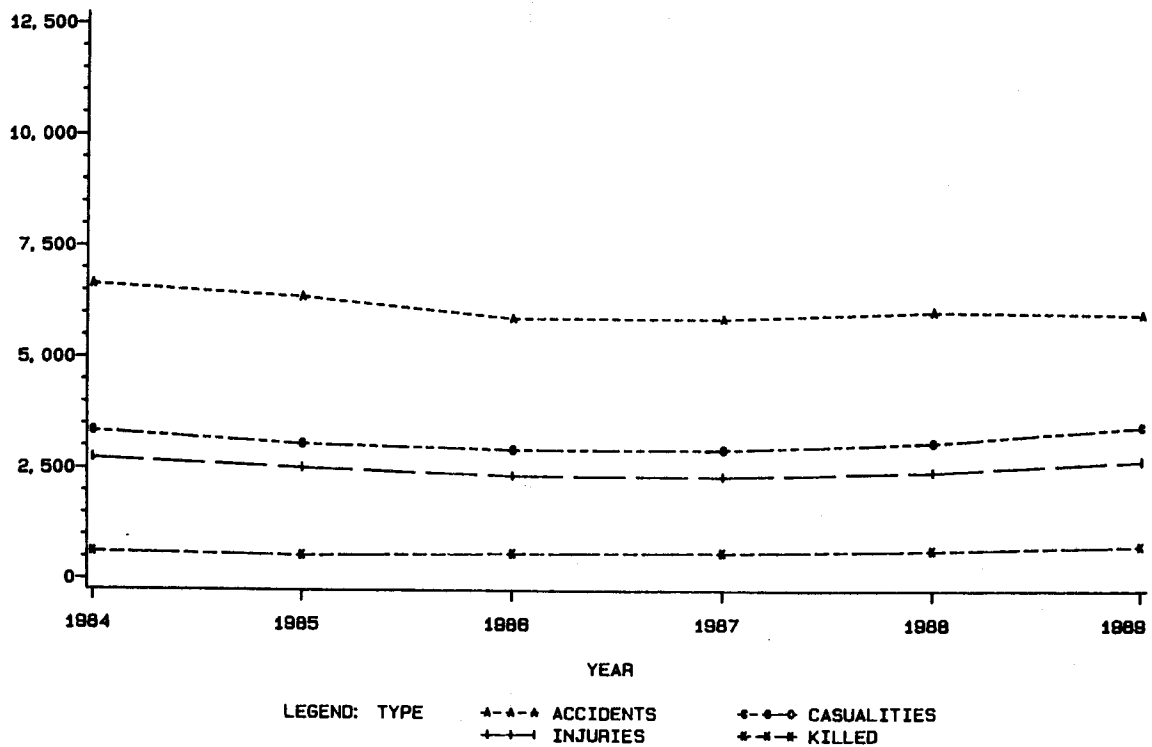


FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

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
1984	6,370	171,324	37.18
1985	6,093	176,468	34.53
1986	5,620	180,747	31.09
1987	5,627	183,220	30.71
1988	5,820	188,258	30.92
1989	5,772	192,309	30.01

1Figures supplied by the Federal Highway Administration

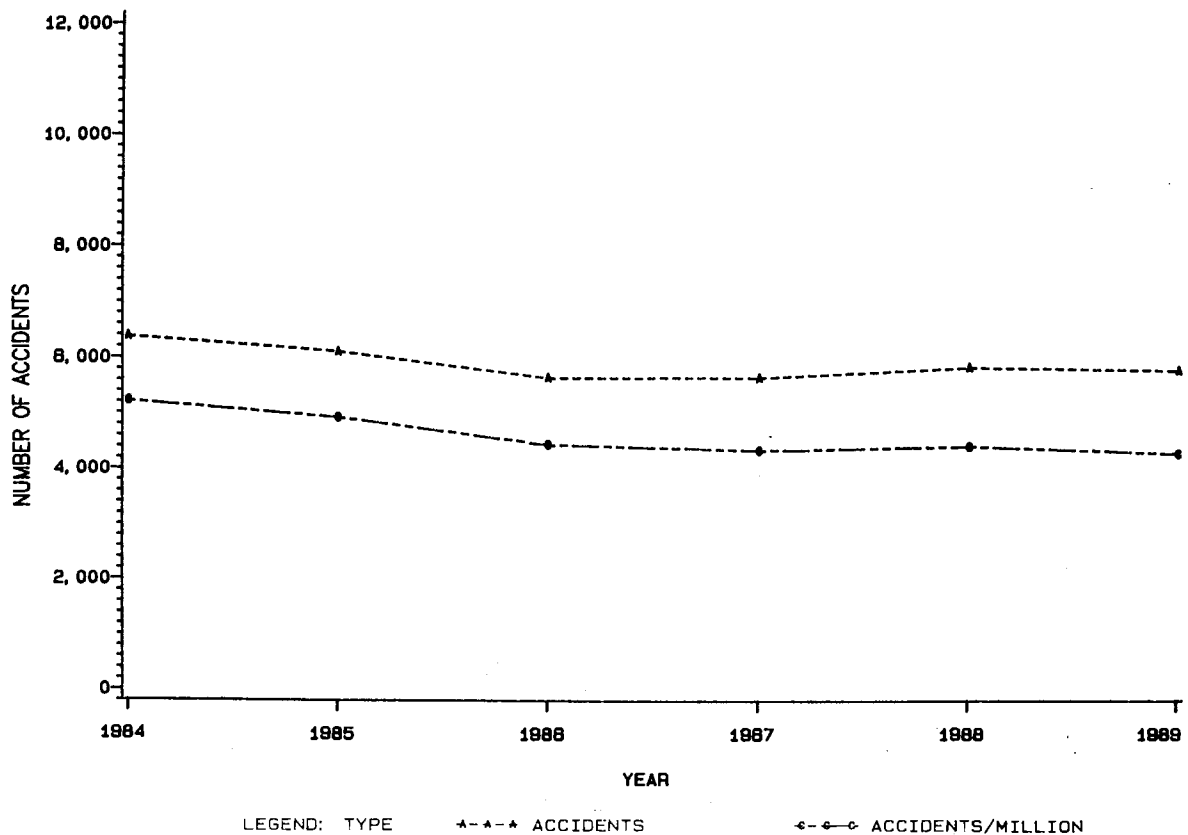


FIGURE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, LAST SIX YEARS

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1989

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.....	228	21	2.77	72	2.68	93	2.70
Alaska.....	15	---	---	3	.11	3	.09
Arizona.....	38	5	.66	7	.26	12	.35
Arkansas.....	150	32	4.23	66	2.46	98	2.85
California.....	222	42	5.55	98	3.65	140	4.07
Colorado.....	45	3	.40	12	.45	15	.44
Connecticut.....	14	1	.13	3	.11	4	.12
Delaware.....	17	1	.13	3	.11	4	.12
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	190	30	3.96	79	2.94	109	3.17
Georgia.....	219	24	3.17	93	3.47	117	3.40
Idaho.....	50	9	1.19	19	.71	28	.81
Illinois.....	384	74	9.78	233	8.68	307	8.92
Indiana.....	358	44	5.81	126	4.70	170	4.94
Iowa.....	158	9	1.19	62	2.31	71	2.06
Kansas.....	112	19	2.51	61	2.27	80	2.33
Kentucky.....	115	6	.79	49	1.83	55	1.60
Louisiana.....	237	26	3.43	145	5.40	171	4.97
Maine.....	20	1	.13	9	.34	10	.29
Maryland.....	25	2	.26	9	.34	11	.32
Massachusetts....	22	4	.53	9	.34	13	.38
Michigan.....	254	34	4.49	131	4.88	165	4.80
Minnesota.....	137	14	1.85	55	2.05	69	2.01
Mississippi.....	140	13	1.72	94	3.50	107	3.11
Missouri.....	132	25	3.30	62	2.31	87	2.53
Montana.....	25	1	.13	6	.22	7	.20
Nebraska.....	98	13	1.72	37	1.38	50	1.45
Nevada.....	9	2	.26	11	.41	13	.38
New Hampshire.....	3	---	---	2	.07	2	.06
New Jersey.....	72	6	.79	22	.82	28	.81
New Mexico.....	26	8	1.06	13	.48	21	.61
New York.....	82	10	1.32	40	1.49	50	1.45
North Carolina...	170	17	2.25	75	2.80	92	2.67
North Dakota.....	31	5	.66	18	.67	23	.67
Ohio.....	404	66	8.72	183	6.82	249	7.24
Oklahoma.....	156	29	3.83	81	3.02	110	3.20
Oregon.....	48	5	.66	20	.75	25	.73
Pennsylvania.....	115	6	.79	44	1.64	50	1.45
Rhode Island.....	---	---	---	---	---	---	---
South Carolina...	128	14	1.85	58	2.16	72	2.09
South Dakota.....	30	2	.26	13	.48	15	.44
Tennessee.....	170	12	1.59	55	2.05	67	1.95
Texas.....	660	99	13.08	356	13.27	455	13.23
Utah.....	27	1	.13	13	.48	14	.41
Vermont.....	6	---	---	1	.04	1	.03
Virginia.....	95	8	1.06	33	1.23	41	1.19
Washington.....	108	5	.66	28	1.04	33	.96
West Virginia....	46	---	---	7	.26	7	.20
Wisconsin.....	178	7	.92	62	2.31	69	2.01
Wyoming.....	10	2	.26	5	.19	7	.20
Unknown.....	---	---	---	---	---	---	---
Total.....	5,979	757	100.00	2,683	100.00	3,440	100.00

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

State	No. Of Acc/Inc	-----Casualties-----			Vehicles Registered	--Per 10,000 Registration--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj
Alabama.....	225	19	71	90	4,123,000	.55	.05	.17
Alaska.....	14	---	3	3	375,000	.37	---	.08
Arizona.....	38	5	7	12	2,866,000	.13	.02	.02
Arkansas.....	143	30	63	93	1,450,000	.99	.21	.43
California.....	209	37	91	128	22,285,000	.09	.02	.04
Colorado.....	44	2	12	14	3,034,000	.15	.01	.04
Connecticut.....	14	1	3	4	2,749,000	.05	---	.01
Delaware.....	17	1	3	4	538,000	.32	.02	.06
Dist. of Columbia	---	---	---	---	270,000	---	---	---
Florida.....	181	26	77	103	11,562,000	.16	.02	.07
Georgia.....	214	22	92	114	5,460,000	.39	.04	.17
Idaho.....	49	9	19	28	996,000	.49	.09	.19
Illinois.....	359	59	225	284	8,336,000	.43	.07	.27
Indiana.....	352	42	125	167	4,369,000	.81	.10	.29
Iowa.....	147	6	62	68	2,792,000	.53	.02	.22
Kansas.....	107	18	59	77	2,311,000	.46	.08	.26
Kentucky.....	109	3	47	50	2,874,000	.38	.01	.16
Louisiana.....	234	26	143	169	3,018,000	.78	.09	.47
Maine.....	19	1	9	10	1,027,000	.19	.01	.09
Maryland.....	24	1	9	10	3,599,000	.07	---	.03
Massachusetts....	22	4	9	13	3,849,000	.06	.01	.02
Michigan.....	250	34	130	164	7,493,000	.33	.05	.17
Minnesota.....	132	14	54	68	3,384,000	.39	.04	.16
Mississippi.....	138	13	94	107	1,836,000	.75	.07	.51
Missouri.....	129	23	62	85	3,933,000	.33	.06	.16
Montana.....	24	1	5	6	759,000	.32	.01	.07
Nebraska.....	93	12	36	48	1,367,000	.68	.09	.26
Nevada.....	9	2	11	13	854,000	.11	.02	.13
New Hampshire.....	2	---	1	1	1,015,000	.02	---	.01
New Jersey.....	71	5	22	27	5,991,000	.12	.01	.04
New Mexico.....	22	6	10	16	1,281,000	.17	.05	.08
New York.....	76	7	37	44	10,392,000	.07	.01	.04
North Carolina...	169	16	75	91	5,257,000	.32	.03	.14
North Dakota.....	28	5	13	18	685,000	.41	.07	.19
Ohio.....	396	63	183	246	9,064,000	.44	.07	.20
Oklahoma.....	150	27	78	105	2,643,000	.57	.10	.30
Oregon.....	43	4	17	21	2,437,000	.18	.02	.07
Pennsylvania.....	114	6	44	50	8,099,000	.14	.01	.05
Rhode Island.....	---	---	---	---	710,000	---	---	---
South Carolina...	126	13	57	70	2,502,000	.50	.05	.23
South Dakota.....	29	2	13	15	737,000	.39	.03	.18
Tennessee.....	164	11	54	65	4,435,000	.37	.02	.12
Texas.....	633	90	345	435	12,762,000	.50	.07	.27
Utah.....	26	---	13	13	1,215,000	.21	---	.11
Vermont.....	6	---	1	1	491,000	.12	---	.02
Virginia.....	91	5	32	37	4,790,000	.19	.01	.07
Washington.....	106	5	26	31	4,205,000	.25	.01	.06
West Virginia....	45	---	7	7	1,338,000	.34	---	.05
Wisconsin.....	170	5	61	66	4,240,000	.40	.01	.14
Wyoming.....	9	1	5	6	511,000	.18	.02	.10
Unknown.....	---	---	---	---	---	---	---	---
Total.....	5,772	682	2,615	3,297	192,309,000	.30	.04	.14

Note: Vehicle registration figures are for 1989 and were supplied by the Federal Highway Administration. Registration figures for Hawaii are omitted because it does not have any reporting railroads.

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

State	TYPE OF MOTOR VEHICLE																	
	---Automobile---			---Truck---			---Truck Trailer---			---Bus---			---School Bus---			---Motorcycle---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	154	14	50	43	4	16	27	1	5	---	---	---	1	---	---	---	---	---
Alaska.....	9	---	1	4	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	30	4	6	6	1	1	2	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	71	22	37	52	7	18	20	1	8	---	---	---	---	---	---	---	---	---
California.....	132	25	41	50	6	23	21	3	20	1	2	6	---	---	---	5	1	1
Colorado.....	28	1	6	13	---	5	3	1	1	---	---	---	---	---	---	---	---	---
Connecticut.....	13	1	3	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	11	---	1	1	1	1	5	---	1	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	132	23	47	31	2	14	13	---	1	2	---	14	---	---	---	3	1	1
Georgia.....	145	21	64	38	1	25	28	---	2	2	---	---	---	---	---	1	---	1
Idaho.....	28	7	9	11	1	3	10	1	7	---	---	---	---	---	---	---	---	---
Illinois.....	271	46	136	63	12	30	21	1	55	---	---	---	---	---	---	4	---	4
Indiana.....	263	37	97	64	3	23	25	2	5	---	---	---	---	---	---	---	---	---
Iowa.....	96	3	45	30	3	11	18	---	4	1	---	---	---	---	---	2	---	2
Kansas.....	64	11	34	34	7	19	9	---	6	---	---	---	---	---	---	---	---	---
Kentucky.....	148	11	38	26	2	8	7	---	1	---	---	---	---	---	---	---	---	---
Louisiana.....	148	11	95	66	11	31	18	4	14	1	---	---	1	---	3	---	---	---
Maine.....	11	---	8	5	1	1	3	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	17	---	5	5	---	4	2	1	---	---	---	---	---	---	---	---	---	---
Massachusetts.....	18	4	6	4	---	3	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	183	26	81	54	6	24	13	2	25	---	---	---	---	---	---	---	---	---
Minnesota.....	100	11	36	24	3	17	7	---	1	---	---	---	1	---	---	---	---	---
Mississippi.....	86	10	60	38	3	23	13	---	10	---	---	---	---	---	---	1	---	1
Missouri.....	72	18	40	40	4	13	15	1	9	---	---	---	---	---	---	2	---	---
Montana.....	13	1	2	10	---	3	1	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	53	7	23	25	4	10	14	1	3	1	---	---	---	---	---	---	---	---
Nevada.....	2	---	1	5	---	3	2	2	7	---	---	---	---	---	---	---	---	---
New Hampshire.....	1	---	1	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	49	2	16	16	3	1	5	---	4	---	---	---	---	---	---	1	---	1
New Mexico.....	15	4	8	7	2	2	---	---	---	---	---	---	---	---	---	---	---	---
New York.....	51	7	27	16	---	8	9	---	2	---	---	---	---	---	---	---	---	---
North Carolina.....	119	11	50	33	2	19	17	3	6	---	---	---	---	---	---	---	---	---
North Dakota.....	15	1	10	9	3	2	4	1	1	---	---	---	---	---	---	---	---	---
Ohio.....	282	53	136	76	6	29	36	2	18	1	---	---	---	---	---	1	2	---
Oklahoma.....	91	21	44	50	6	31	9	---	3	---	---	---	---	---	---	---	---	---
Oregon.....	25	4	8	14	---	7	3	---	---	---	---	---	---	---	---	1	---	2
Pennsylvania.....	78	4	34	31	1	9	3	---	1	1	---	---	---	---	---	1	1	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	84	6	39	25	6	9	17	1	9	---	---	---	---	---	---	---	---	---
South Dakota.....	21	2	12	5	---	1	2	---	---	---	---	---	---	---	---	1	---	---
Tennessee.....	112	9	29	36	2	23	15	---	2	1	---	---	---	---	---	---	---	---
Texas.....	374	49	214	206	36	120	48	3	9	1	---	---	1	---	1	3	2	1
Utah.....	15	---	7	10	---	5	1	---	1	---	---	---	---	---	---	---	---	---
Vermont.....	5	---	1	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	70	2	22	15	3	3	6	---	7	---	---	---	---	---	---	---	---	---
Washington.....	71	3	17	24	1	8	8	---	1	2	---	---	---	---	---	1	1	---
West Virginia.....	34	---	6	6	---	1	5	---	---	---	---	---	---	---	---	---	---	---
Wisconsin.....	132	3	46	29	2	12	8	---	2	---	---	---	---	---	---	1	---	1
Wyoming.....	3	---	---	6	1	5	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,873	485	1,698	1,357	156	627	496	31	251	14	2	20	4	---	4	28	8	15

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

State	TYPE OF TRAIN											
	---Freight---			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	180	19	59	5	---	---	28	---	4	12	---	8
Alaska.....	4	---	2	1	---	---	7	---	1	2	---	---
Arizona.....	28	1	6	1	3	---	5	---	---	4	1	1
Arkansas.....	123	30	55	---	---	---	9	---	5	11	---	3
California.....	138	22	43	22	12	32	34	2	7	15	1	9
Colorado.....	27	2	6	4	---	2	5	---	1	8	---	3
Connecticut.....	7	---	---	6	1	2	---	---	---	1	---	1
Delaware.....	11	1	2	1	---	1	2	---	---	3	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	131	18	63	21	8	8	20	---	3	9	---	3
Georgia.....	179	22	76	3	---	---	14	---	6	18	---	10
Idaho.....	46	9	19	---	---	---	---	---	---	3	---	---
Illinois.....	245	42	121	48	15	69	22	---	7	44	2	28
Indiana.....	278	31	100	16	3	5	30	---	7	28	8	13
Iowa.....	91	6	51	---	---	---	29	---	5	27	---	6
Kansas.....	89	14	50	1	---	---	7	---	7	10	4	2
Kentucky.....	87	2	29	---	---	---	7	---	3	15	1	15
Louisiana.....	186	21	104	2	---	4	20	---	9	26	5	26
Maine.....	17	1	9	---	---	---	2	---	---	---	---	---
Maryland.....	14	1	9	1	---	---	6	---	---	3	---	---
Massachusetts....	9	4	5	11	---	3	1	---	---	1	---	1
Michigan.....	178	28	85	13	4	23	36	---	11	23	2	11
Minnesota.....	82	11	39	1	3	2	24	---	2	25	---	11
Mississippi.....	105	10	76	8	2	5	12	---	6	13	1	7
Missouri.....	115	23	61	2	---	---	9	---	1	3	---	---
Montana.....	19	1	4	1	---	---	2	---	---	2	---	1
Nebraska.....	80	12	35	1	---	---	5	---	1	7	---	---
Nevada.....	8	2	11	1	---	---	---	---	---	---	---	---
New Hampshire.....	2	---	1	---	---	---	---	---	---	---	---	---
New Jersey.....	43	1	7	15	4	15	2	---	---	11	---	---
New Mexico.....	18	6	9	---	---	---	2	---	1	2	---	---
New York.....	51	2	27	13	5	9	4	---	---	8	---	1
North Carolina...	132	13	59	13	2	2	5	---	2	19	1	12
North Dakota.....	22	5	11	---	---	---	1	---	---	5	---	2
Ohio.....	341	58	164	8	4	1	17	1	3	30	---	15
Oklahoma.....	120	25	67	1	---	---	9	2	2	20	---	9
Oregon.....	22	4	11	2	---	2	9	---	---	10	---	4
Pennsylvania.....	79	6	27	11	---	11	7	---	1	17	---	5
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	104	11	49	5	1	1	8	---	1	9	1	6
South Dakota.....	15	2	9	---	---	---	5	---	2	9	---	2
Tennessee.....	120	11	36	2	---	---	28	---	11	14	---	7
Texas.....	479	86	279	12	1	6	67	2	24	75	1	36
Utah.....	24	---	13	1	---	---	1	---	---	---	---	---
Vermont.....	6	---	1	---	---	---	---	---	---	---	---	---
Virginia.....	61	2	22	3	3	---	12	---	4	15	---	6
Washington.....	70	5	20	---	---	---	20	---	3	16	---	3
West Virginia....	36	---	6	---	---	---	2	---	1	7	---	---
Wisconsin.....	113	5	39	1	---	2	37	---	13	19	---	7
Wyoming.....	7	1	4	---	---	---	---	---	---	2	---	1
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,342	576	1,981	257	71	205	572	7	154	601	28	275

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

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

WARNING DEVICE CATEGORY

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corporation	1	4	---	---	9	---	---	---	14
Amtrak (National Railroad Passenger Corp.)	81	26	3	---	42	---	---	1	153
Arkansas And Missouri Railroad Company	---	3	1	---	7	---	---	---	11
Atchison, Topeka And Santa Fe Railway Co.	72	73	3	---	103	---	---	---	251
Bangor And Aroostook Railroad	---	3	---	---	3	---	---	---	6
Buffalo & Pittsburgh Railroad, Inc.	---	4	---	---	1	---	---	---	5
Burlington Northern Railroad Company	98	151	5	2	297	3	---	11	567
Canadian Pacific Railway Company	---	4	---	---	---	---	---	---	4
Central Michigan Railway Company	---	8	---	---	8	---	---	---	16
Chicago And North Western Transportation	41	57	5	1	72	1	---	3	180
Chicago Missouri & Western Railway	3	5	1	---	5	---	---	---	14
Chicago Southshore & South Bend Railroad	4	1	---	---	3	---	---	---	8
Chicago, Central & Pacific Railroad Co.	4	16	---	1	13	---	---	---	34
Columbus And Greenville Railway Company	---	1	1	1	7	---	---	---	10
Consolidated Rail Corporation	131	201	9	4	190	4	4	3	546
CSX Transportation	135	253	30	19	338	3	1	7	786
Dakota, Minnesota & Eastern Railroad	---	7	---	---	10	---	---	---	17
Delaware And Hudson Railroad Company	1	---	1	---	5	---	---	---	7
Denver And Rio Grande Western Railroad Co.	1	6	---	---	8	---	---	---	15
Detroit And Mackinac Railway Company	---	5	---	---	3	---	---	---	8
Elgin, Joliet And Eastern Railway Company	2	4	---	1	4	---	---	---	11
Escanaba And Lake Superior Railroad Co.	---	2	---	---	4	---	---	---	6
Florida East Coast Railway Company	52	2	---	---	---	---	---	---	54
Fox River Valley Railroad Corporation	1	16	3	---	1	---	---	---	21
Grand Trunk Western Railroad Company	30	24	1	---	24	1	---	---	80
Green Bay And Western Railroad Company	---	6	---	1	8	---	---	---	15
Houston Belt & Terminal Railway Company	1	2	---	---	1	---	---	---	4
Huron & Eastern Railway	---	---	---	---	6	---	---	---	6
Illinois Central Railroad Company	8	38	2	1	55	---	1	2	107
Indiana Harbor Belt Railroad Company	8	5	---	---	3	---	1	---	17
Indiana Hi-rail Corporation	---	2	---	---	4	---	---	---	6
Indiana Rail Road Company	---	5	1	---	3	---	---	---	9
Iowa Interstate Railroad	3	1	---	---	10	---	---	---	14
Kansas City Southern Railway Company	2	13	---	2	20	---	---	---	37
Kiamichi Railroad Company, Inc.	---	1	---	---	6	---	---	---	7
Long Island Rail Road	15	---	---	---	---	---	---	---	15
Los Angeles Junction Railway Company	---	2	---	1	1	---	---	---	4
Louisiana & Arkansas Railway Company	3	22	2	---	26	---	---	---	53
Metro North Commuter Railroad Company	2	4	---	---	---	---	---	---	6
Midsouth Rail Corporation	---	12	---	---	14	---	---	---	26
Montana Rail Link	1	1	---	---	10	---	---	---	12
Nashville & Eastern Railroad	---	4	---	---	6	---	---	---	10
New Jersey Transit Rail Operations	12	3	---	---	---	---	---	---	15
New York, Susquehanna And Western Railroad	3	6	---	1	2	---	---	---	12
Norfolk And Western Railway Company	78	103	---	7	166	2	---	3	359
Northeast Illinois Regional Commuter Rail	21	3	---	---	---	---	---	---	24
Paducah & Louisville Railway Company	---	8	---	---	1	---	---	---	9
Patapsco & Back Rivers Railroad Company	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Association	5	1	---	1	1	---	---	---	8
Providence And Worcester Railroad Company	1	3	---	1	---	---	---	---	5
Seminole Gulf Railroad	1	1	---	2	2	---	---	---	6
Soo Line Railroad Company	22	41	---	---	52	---	---	---	116
Southeastern Pennsylvania Transportation	4	5	---	---	---	---	---	---	9
Southern Pacific Transportation Company	86	79	24	10	116	5	1	1	322
Southern Railway Company	58	132	3	19	306	3	3	22	546
Southern Railway Company	---	1	---	---	14	---	---	---	15
Springfield Terminal Railway Company	2	11	---	---	1	---	---	---	14
St. Lawrence & Atlantic Railroad Company	---	---	---	---	4	---	---	---	4
St. Louis Southwestern Railway Company	15	28	8	2	66	---	1	---	120
Tennessee Southern Railroad Company, Inc.	1	3	---	---	2	---	---	---	6
Terminal Railroad Association Of St. Louis	---	3	---	---	1	---	---	1	5
Texas Mexican Railway Company	---	7	---	---	4	---	---	---	11
Toldeo, Peoria And Western Railroad	---	5	1	---	4	---	---	---	10
Tuscola And Saginaw Bay Railroad Company	---	---	---	---	6	---	---	---	6
Union Belt Of Detroit	2	3	---	---	2	---	---	---	7
Union Pacific Railroad Company	130	175	16	7	370	3	2	6	709
UTSZ Transit Service, Incorporated	5	---	---	---	---	---	---	---	5
Washington Central Railroad Company	---	3	---	1	9	---	---	---	13
Winchester And Western Railroad Company	9	1	---	2	4	---	1	---	6
Wisconsin Central Ltd.	9	32	---	---	31	---	---	---	74
All Other Railroads.....	5	40	5	17	97	1	---	---	165
Total.....	1,160	1,691	125	104	2,591	26	15	61	5,773

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

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

TABLE 7A. ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD

Railroad	-----Motor Vehicle-----			-----Other Highway Users-----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corporation	14	---	3	1	---	---	15	---	3
Amtrak (National Railroad Passenger Corp.)	153	55	87	7	5	---	160	60	87
Arkansas And Missouri Railroad Company	11	---	1	---	---	---	11	---	1
Atchison, Topeka And Santa Fe Railway Co.	251	41	107	16	7	8	267	48	115
Bangor And Aroostook Railroad	6	---	---	---	---	---	6	---	---
Buffalo & Pittsburgh Railroad, Inc.	5	---	---	---	---	---	5	---	---
Burlington Northern Railroad Company	567	75	243	30	11	16	597	86	259
Canadian Pacific Railway Company	4	---	---	---	---	---	4	---	---
Central Michigan Railway Company	16	---	12	---	---	---	16	---	12
Chicago And North Western Transportation	180	16	83	13	7	2	193	23	85
Chicago Missouri & Western Railway	14	3	4	1	1	---	15	4	4
Chicago Southshore & South Bend Railroad	8	3	3	---	---	---	8	3	3
Chicago, Central & Pacific Railroad Co.	34	1	11	1	---	---	35	1	11
Columbus And Greenville Railway Company	10	---	1	---	---	---	10	---	1
Consolidated Rail Corporation	546	68	191	10	6	1	556	74	192
CSX Transportation	786	74	335	17	6	4	803	80	339
Dakota, Minnesota & Eastern Railroad	17	1	6	1	---	---	18	1	6
Delaware And Hudson Railroad Company	7	---	2	---	---	---	7	---	2
Denver And Rio Grande Western Railroad Co.	15	---	9	---	---	---	15	---	9
Detroit And Mackinac Railway Company	8	---	3	---	---	---	8	---	3
Elgin, Joliet And Eastern Railway Company	11	2	10	---	---	---	11	2	10
Escahabe And Lake Superior Railroad Co.	6	---	4	---	---	---	6	---	4
Florida East Coast Railway Company	54	10	27	5	2	1	59	12	28
Fox River Valley Railroad Corporation	21	---	---	1	---	---	22	---	---
Grand Trunk Western Railroad Company	80	14	54	2	---	---	82	14	54
Green Bay And Western Railroad Company	15	---	2	1	---	---	16	---	2
Houston Belt & Terminal Railway Company	4	---	---	---	---	---	4	---	---
Huron & Eastern Railway	6	---	2	---	---	---	6	---	2
Illinois Central Railroad Company	107	8	91	6	1	---	113	9	91
Indiana Harbor Belt Railroad Company	17	---	9	---	---	---	17	---	9
Indiana Hi-rail Corporation	6	---	1	---	---	---	6	---	1
Indiana Rail Road Company	9	---	8	---	---	---	9	---	8
Iowa Interstate Railroad	14	---	6	---	---	---	14	---	6
Kansas City Southern Railway Company	37	3	14	1	1	---	38	4	14
Klamath Railroad Company, Inc.	7	---	4	---	---	---	7	---	4
Long Island Rail Road	15	4	5	5	2	3	20	6	8
Los Angeles Junction Railway Company	4	---	2	1	---	1	5	---	3
Louisiana & Arkansas Railway Company	53	4	29	1	---	---	54	4	29
Metro North Commuter Railroad Company	6	---	3	---	---	---	6	---	3
Midsouth Rail Corporation	26	2	16	---	---	---	26	2	16
Montana Rail Link	12	---	4	---	---	---	12	---	4
Nashville & Eastern Railroad	10	---	3	---	---	---	10	---	3
New Jersey Transit Rail Operations	15	4	15	1	1	---	16	5	15
New York, Susquehanna And Western Railroad	12	---	6	---	---	---	12	---	6
Norfolk And Western Railway Company	359	31	147	7	3	1	366	34	148
Northeast Illinois Regional Commuter Rail	24	3	67	8	2	6	32	5	73
Paducah & Louisville Railway Company	9	---	4	---	---	---	9	---	4
Patapsco & Back Rivers Railroad Company	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Association	8	1	5	---	---	---	8	1	5
Providence And Worcester Railroad Company	5	3	1	---	---	---	5	3	1
Seminole Gulf Railroad	6	---	2	---	---	---	6	---	2
Soo Line Railroad Company	116	6	47	7	1	1	123	7	48
Southeastern Pennsylvania Transportation	9	---	11	---	---	---	9	---	11
Southern Pacific Transportation Company	322	49	176	15	4	8	337	53	184
Southern Railway Company	546	54	205	11	5	2	557	59	207
Southrail Corporation	15	---	16	---	---	---	15	---	16
Springfield Terminal Railway Company	14	---	5	---	---	---	14	---	5
St. Lawrence & Atlantic Railroad Company	4	1	5	1	---	---	5	1	6
St. Louis Southwestern Railway Company	120	36	50	6	2	3	126	38	53
Tennessee Southern Railroad Company, Inc.	6	---	4	---	---	---	6	---	4
Terminal Railroad Association Of St. Louis	5	---	---	---	---	---	5	---	---
Texas Mexican Railway Company	11	---	---	1	---	---	12	---	---
Toldeo, Peoria And Western Railroad	10	1	6	---	---	---	10	1	6
Tuscola And Saginaw Bay Railroad Company	6	1	1	---	---	---	6	1	1
Union Belt Of Detroit	7	---	---	---	---	---	7	---	---
Union Pacific Railroad Company	709	98	359	20	5	8	729	103	367
UTSZ Transit Service, Incorporated	5	---	---	1	---	1	6	---	1
Washington Central Railroad Company	13	---	5	---	---	---	13	---	5
Winchester And Western Railroad Company	6	---	2	---	---	---	6	---	2
Wisconsin Central Ltd.	74	7	29	6	2	1	80	9	30
All Other Railroads.....	165	3	52	3	1	---	168	4	52
Total.....	5,773	682	2,615	207	75	68	5,980	757	2,683

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. Highways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	12	44	9	7	146	2	---	5	225
Alaska.....	1	4	---	---	9	---	---	---	14
Arizona.....	15	13	---	1	9	---	---	---	38
Arkansas.....	17	43	8	---	74	---	---	1	143
California.....	92	46	20	6	39	3	1	2	209
Colorado.....	2	15	2	---	24	---	1	---	44
Connecticut.....	4	8	---	1	1	---	---	---	14
Delaware.....	2	8	---	---	7	---	---	---	17
Dist. of Columbia.....	---	---	---	---	---	---	---	---	---
Florida.....	97	46	3	4	30	1	---	---	181
Georgia.....	37	42	---	10	121	1	---	3	214
Idaho.....	3	7	2	---	35	2	---	---	49
Illinois.....	145	99	4	2	104	---	1	4	359
Indiana.....	86	127	8	5	124	---	1	1	352
Iowa.....	17	52	1	2	74	---	---	1	147
Kansas.....	23	15	3	2	64	---	---	---	107
Kentucky.....	17	56	2	1	31	---	---	2	109
Louisiana.....	18	94	3	6	107	1	1	4	234
Maine.....	1	10	---	---	8	---	---	---	19
Maryland.....	4	10	1	1	5	---	3	---	24
Massachusetts.....	7	14	1	---	---	---	---	---	22
Michigan.....	56	90	5	---	97	1	---	1	250
Minnesota.....	15	35	---	2	79	1	---	---	132
Mississippi.....	5	39	4	5	82	---	---	3	138
Missouri.....	14	48	3	2	60	---	---	2	129
Montana.....	5	4	---	---	15	---	---	---	24
Nebraska.....	20	12	---	---	59	1	---	1	93
Nevada.....	1	1	---	---	7	---	---	---	9
New Hampshire.....	---	1	---	---	1	---	---	---	2
New Jersey.....	29	27	1	3	10	---	1	---	71
New Mexico.....	6	5	---	1	10	---	---	---	22
New York.....	31	20	3	---	21	---	---	1	76
North Carolina.....	25	36	2	3	97	---	1	5	169
North Dakota.....	7	4	---	---	17	---	---	---	28
Ohio.....	63	109	5	3	208	4	---	4	396
Oklahoma.....	14	44	2	---	87	---	---	3	150
Oregon.....	18	2	2	1	16	4	---	---	43
Pennsylvania.....	22	35	---	3	50	3	---	1	114
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina.....	12	37	1	5	69	1	---	1	126
South Dakota.....	---	13	---	---	16	---	---	---	29
Tennessee.....	19	49	3	8	77	---	2	6	164
Texas.....	124	176	11	10	309	---	1	2	633
Utah.....	4	4	1	---	16	1	---	---	26
Vermont.....	---	6	---	---	---	---	---	---	6
Virginia.....	27	22	2	4	32	---	2	2	91
Washington.....	15	24	5	2	56	---	---	4	106
West Virginia.....	12	13	---	1	19	---	---	---	45
Wisconsin.....	11	78	8	3	68	---	---	2	170
Wyoming.....	5	3	---	---	1	---	---	---	9
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	1,160	1,690	125	104	2,591	26	15	61	5,772

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

HIGHWAY USER AND VEHICLE DATA

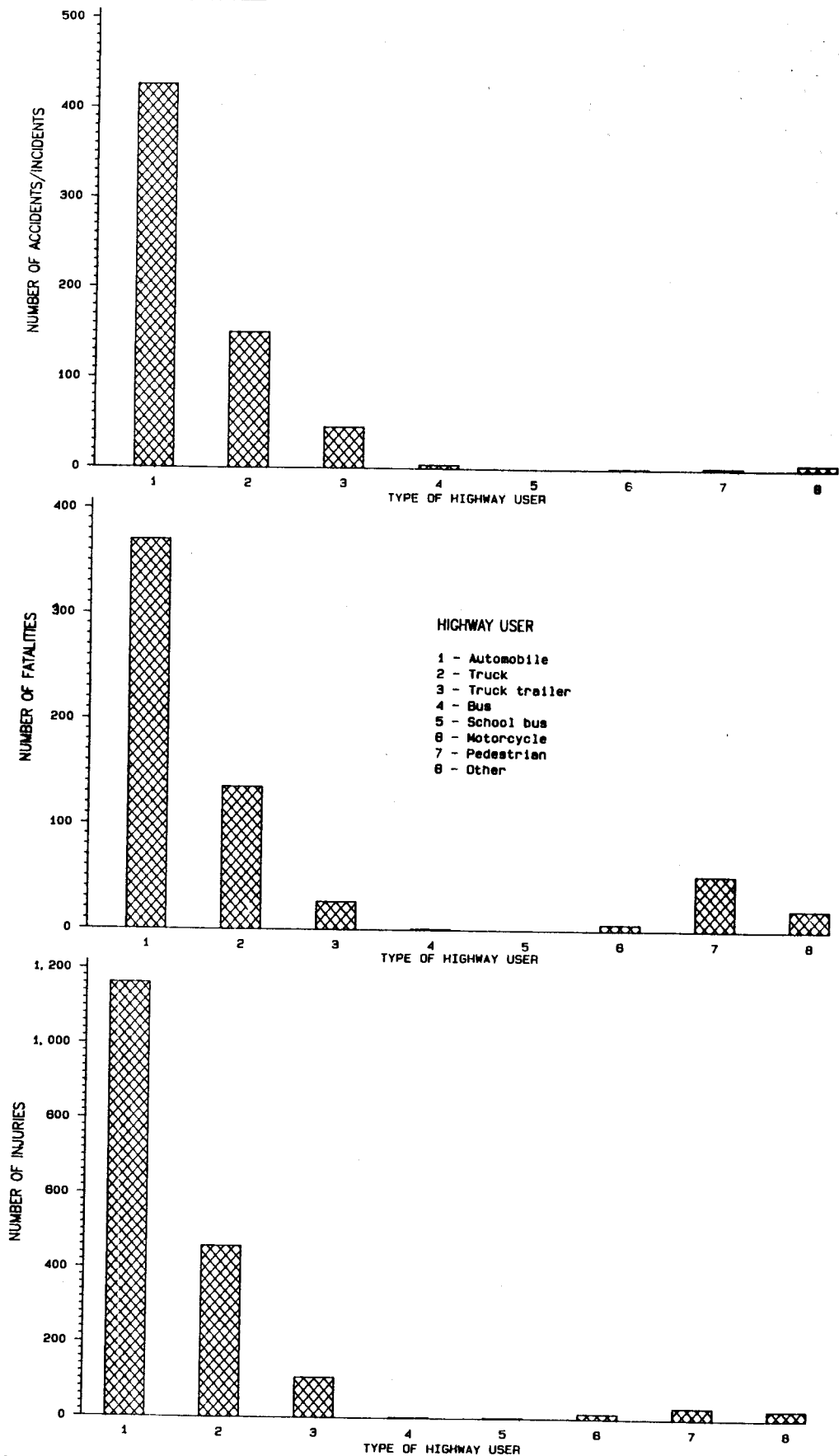


FIGURE 3. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

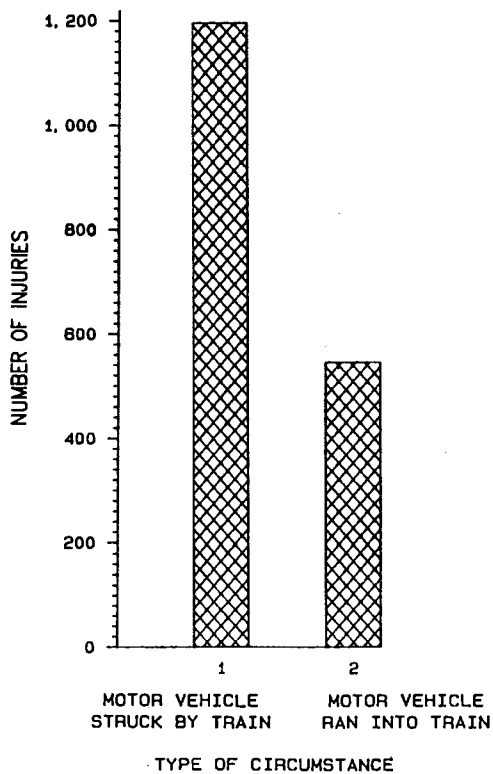
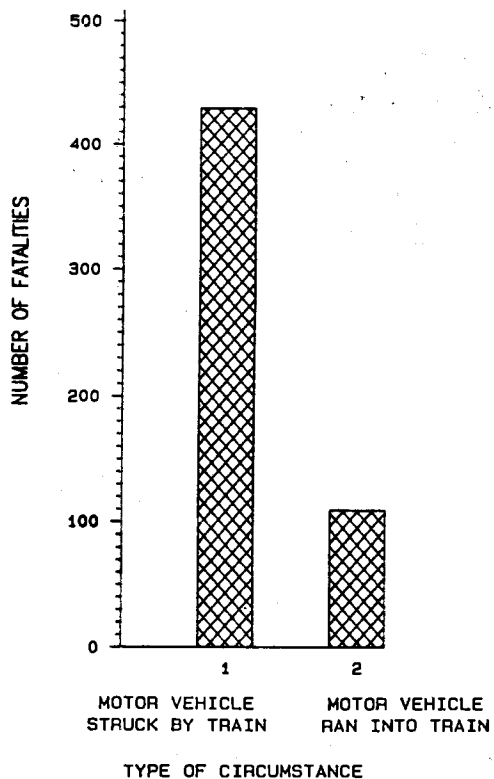
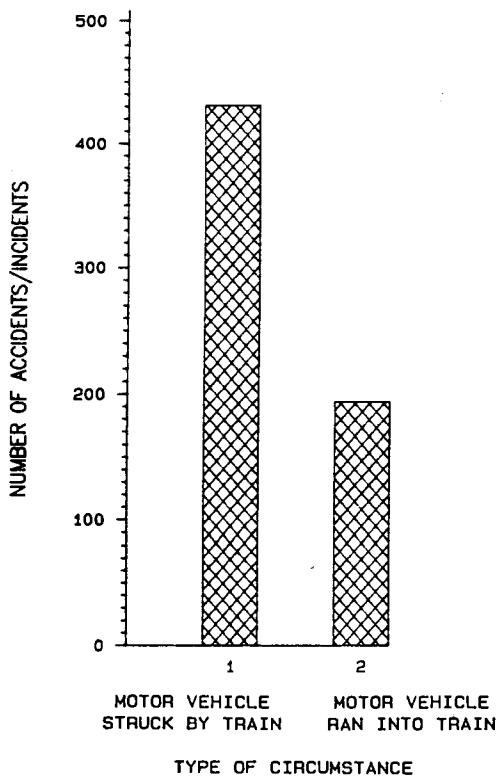


FIGURE 4. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

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.....	3,873	64.78	485	64.07	1,698	63.29	370	1,162
Truck.....	1,357	22.70	156	20.61	627	23.37	135	457
Truck-trailer....	496	8.30	31	4.10	251	9.36	26	106
Bus.....	14	.23	2	.26	20	.75	1	2
School bus.....	4	.07	---	---	4	.15	---	2
Motorcycle.....	28	.47	8	1.06	15	.56	6	14
Pedestrian.....	83	1.39	54	7.13	32	1.19	52	31
Other.....	124	2.07	21	2.77	36	1.34	20	25
Total.....	5,979	100.00	757	100.00	2,683	100.00	610	1,799

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

Circumstance	----Acc/Inc----		----Killed----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Struck by consist	4,166	72.18	556	81.52	1,821	69.64	429	1,197
Ran into consist.	1,606	27.82	126	18.48	794	30.36	109	546
Total.....	5,772	100.00	682	100.00	2,615	100.00	538	1,743

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...	3,873	5,060	1.31	483	.12	1,650	.43	10,950,371	2,827
Truck.....	1,357	1,659	1.22	155	.11	589	.43	6,119,799	4,510
Truck-trailer	496	501	1.01	26	.05	85	.17	5,034,211	10,150
Bus.....	14	97	6.93	2	.14	19	1.36	146,530	10,466
School bus...	4	22	5.50	0	.00	4	1.00	20,000	5,000
Motorcycle...	28	28	1.00	8	.29	15	.54	35,050	1,252
Total	5,772	7,367	1.28	674	.12	2,362	.41	22,305,961	3,865

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.....	83	14	25	1,424	203	635	106	12	53	1,165	174	452
Truck.....	21	---	10	600	78	263	26	5	7	293	39	131
Truck-trailer....	14	---	9	318	23	191	5	---	---	86	3	21
Bus.....	1	---	---	7	---	9	1	---	---	4	2	11
School bus.....	---	---	---	1	---	3	---	---	---	---	---	---
Motorcycle.....	---	---	---	8	2	---	---	---	---	3	1	1
Total.....	119	14	44	2,358	306	1,101	138	17	60	1,551	219	616
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	26	1	13	421	22	187	50	1	26	598	58	307
Truck.....	9	1	4	214	15	101	8	1	7	186	17	104
Truck-trailer....	2	---	2	54	2	22	3	2	2	14	1	4
Bus.....	---	---	---	---	---	---	---	---	---	1	---	---
School bus.....	---	---	---	3	---	1	---	---	---	---	---	---
Motorcycle.....	---	---	---	7	2	6	---	---	---	10	3	8
Total.....	37	2	19	699	41	317	61	4	35	809	79	423
GRAND TOTAL												
Automobile.....	109	15	38	1,845	225	822	156	13	79	1,763	232	759
Truck.....	30	1	14	814	93	364	34	6	14	479	56	235
Truck-trailer....	16	---	11	372	25	213	8	2	2	100	4	25
Bus.....	1	---	---	7	---	9	1	---	---	5	2	11
School bus.....	---	---	---	4	---	4	---	---	---	---	---	---
Motorcycle.....	---	---	---	15	4	6	---	---	---	13	4	9
Total.....	156	16	63	3,057	347	1,418	199	21	95	2,360	298	1,039

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.....	---	26	---	---	---	8	294	944	109	187	---	---	403	1,165	2,778
Truck.....	1	22	---	---	---	3	100	333	21	53	---	---	122	411	940
Truck-trailer....	2	81	---	---	---	66	20	61	4	13	---	---	26	221	423
Bus.....	---	---	---	---	---	---	2	20	---	---	---	---	2	20	13
School bus.....	---	---	---	---	---	---	---	3	---	---	---	---	---	3	1
Motorcycle.....	---	---	---	---	---	---	1	1	2	---	---	---	3	1	1
Pedestrian.....	---	1	---	---	---	---	16	11	36	17	---	---	52	29	78
Other.....	---	6	---	---	---	---	12	21	7	2	---	---	19	29	108
Total.....	3	136	---	---	---	77	445	1,394	179	272	---	---	627	1,879	4,352
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	9	---	---	---	---	69	460	13	63	---	1	82	533	1,095
Truck.....	---	13	---	---	---	---	34	187	---	16	---	---	34	216	417
Truck-trailer....	1	10	---	---	---	---	4	17	---	3	---	---	5	30	73
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
School bus.....	---	---	---	---	---	---	---	1	---	---	---	---	---	---	3
Motorcycle.....	---	---	---	---	---	---	5	11	---	3	---	---	5	14	17
Pedestrian.....	---	---	---	---	---	---	---	1	2	2	---	---	2	3	5
Other.....	---	---	---	---	---	---	1	6	1	1	---	---	2	7	16
Total.....	1	32	---	---	---	---	113	683	16	88	---	1	130	804	1,627
GRAND TOTAL															
Automobile.....	---	35	---	---	---	8	363	1,404	122	250	---	1	485	1,698	3,873
Truck.....	1	35	---	---	---	3	134	520	21	69	---	---	156	627	1,357
Truck-trailer....	3	91	---	---	---	66	24	78	4	16	---	---	31	251	496
Bus.....	---	---	---	---	---	---	2	20	---	---	---	---	2	20	14
School bus.....	---	---	---	---	---	---	---	4	---	---	---	---	---	4	4
Motorcycle.....	---	---	---	---	---	---	6	12	2	3	---	---	8	15	28
Pedestrian.....	---	1	---	---	---	---	16	12	38	19	---	---	54	32	83
Other.....	---	6	---	---	---	---	13	27	8	3	---	---	21	36	124
Total.....	4	168	---	---	---	77	558	2,077	195	360	---	1	757	2,683	5,979

Note: EOD = Employee on duty
 PSGR = Passenger on train
 TRES = Trespasser
 ENOD = Employee not on duty
 NONT = Nontrespasser
 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.....	30	---	3	761	47	220	46	2	9	528	20	92	1,365	69	324
1-9.....	26	3	11	523	80	219	28	5	13	243	26	95	820	114	338
10-19.....	20	1	12	433	55	228	23	6	10	269	51	137	745	113	387
20-29.....	22	6	7	249	44	194	12	1	6	220	39	131	503	90	338
30-39.....	10	3	5	155	33	83	11	1	5	105	24	55	281	61	148
40-49.....	4	1	3	70	18	60	3	2	1	47	12	25	124	33	89
50-59.....	---	---	---	25	8	12	---	---	---	21	18	11	46	26	23
60 and over.....	---	---	---	5	1	1	---	---	---	5	1	6	10	2	7
Unknown.....	7	---	3	137	20	84	15	---	16	113	28	64	272	48	167
Total.....	119	14	44	2,358	306	1,101	138	17	60	1,551	219	616	4,166	556	1,821
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	4	---	1	162	8	35	16	---	2	128	3	25	310	11	63
10-19.....	14	1	5	151	5	66	17	---	7	151	1	70	333	7	148
20-29.....	5	---	3	111	2	56	5	2	9	153	9	77	274	13	145
30-39.....	7	---	6	92	8	60	9	---	9	120	11	84	228	19	159
40-49.....	1	---	2	46	4	24	2	---	2	75	18	57	124	22	85
50-59.....	1	---	---	39	6	34	3	---	2	41	15	26	84	21	62
60 and over.....	---	---	---	5	2	5	2	---	1	18	14	15	25	16	21
Unknown.....	5	1	2	93	6	37	7	2	3	123	8	69	228	17	111
Total.....	37	2	19	699	41	317	61	4	35	809	79	423	1,606	126	794
GRAND TOTAL															
Standing.....	30	---	3	761	47	220	46	2	9	528	20	92	1,365	69	324
1-9.....	30	3	12	685	88	254	44	5	15	371	29	120	1,130	125	401
10-19.....	34	2	17	584	60	294	40	6	17	420	52	207	1,078	120	535
20-29.....	27	6	10	360	46	250	17	3	15	373	48	208	777	103	483
30-39.....	17	3	11	247	41	143	20	1	14	225	35	139	509	80	307
40-49.....	5	1	5	116	22	84	5	2	3	122	30	82	248	55	174
50-59.....	1	---	---	64	14	46	3	---	2	62	33	37	130	47	85
60 and over.....	---	---	---	10	3	6	2	---	1	23	15	21	35	18	28
Unknown.....	12	1	5	230	26	121	22	2	19	236	36	133	500	65	278
Total.....	156	16	63	3,057	347	1,418	199	21	95	2,360	298	1,039	5,772	682	2,615

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.....	375	8	57	623	39	181	2,875	438	1,460
Truck.....	88	2	10	157	15	38	1,112	139	579
Truck-trailer....	36	1	9	72	2	20	388	28	222
Bus.....	2	---	---	4	2	6	8	---	14
School bus.....	---	---	---	1	---	3	3	---	1
Motorcycle.....	---	---	---	7	---	---	21	8	15
Total.....	501	11	76	864	58	248	4,407	613	2,291

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	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.....	13	---	2	403	---	86	21	---	7	292	2	68	729	2	163
10-19.....	13	---	7	388	4	111	30	1	10	263	4	101	694	9	229
20-29.....	29	---	11	440	12	212	26	1	14	326	24	158	821	37	395
30-39.....	24	---	11	411	46	242	23	3	6	266	41	135	724	90	394
40-49.....	21	8	5	403	99	246	19	6	7	228	59	85	671	172	343
50-59.....	12	5	5	212	93	106	10	4	11	103	41	41	337	143	163
60-69.....	4	1	---	73	35	66	7	---	5	47	24	23	131	62	94
70-79.....	3	---	3	26	17	32	2	---	---	23	20	5	54	37	40
80-89.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	4	---	2	4	---
Unknown.....	---	---	---	1	---	---	---	---	---	2	---	---	1	---	---
Total.....	119	14	44	2,358	306	1,101	138	17	60	1,551	219	616	4,166	556	1,821
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	3	---	4	19	---	3	3	---	3	109	8	56	134	8	66
1-9.....	10	---	5	161	1	46	16	---	7	249	13	98	436	14	156
10-19.....	4	1	---	134	1	56	12	1	4	131	3	75	281	6	135
20-29.....	11	1	5	151	4	71	10	---	4	123	12	67	295	17	147
30-39.....	6	---	4	83	7	52	13	3	15	88	15	61	190	25	132
40-49.....	1	---	1	90	14	55	3	---	---	60	12	32	154	26	88
50-59.....	1	---	---	41	10	18	---	---	---	31	9	23	73	19	41
60-69.....	1	---	---	16	3	14	1	---	---	14	5	10	32	8	24
70-79.....	---	---	---	3	1	2	3	---	2	4	2	1	10	3	5
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Total.....	37	2	19	699	41	317	61	4	35	809	79	423	1,606	126	794
GRAND TOTAL															
Standing.....	3	---	4	19	---	3	3	---	3	109	8	56	134	8	66
1-9.....	23	---	7	564	1	132	37	---	14	541	15	166	1,165	16	319
10-19.....	17	1	7	522	5	167	42	2	14	394	7	176	975	15	364
20-29.....	40	1	16	591	16	283	36	1	18	449	36	225	1,116	54	542
30-39.....	30	---	15	494	53	294	36	6	21	354	56	196	914	115	526
40-49.....	22	8	6	493	113	301	22	6	7	288	71	117	825	198	431
50-59.....	13	5	5	253	103	124	10	4	11	134	50	64	410	162	204
60-69.....	5	1	---	89	38	80	8	2	5	61	29	33	163	70	118
70-79.....	3	---	3	29	18	34	5	---	2	27	22	6	64	40	45
80-89.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	2	4	---	2	4	---
Unknown.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
Total.....	156	16	63	3,057	347	1,418	199	21	95	2,360	298	1,039	5,772	682	2,615

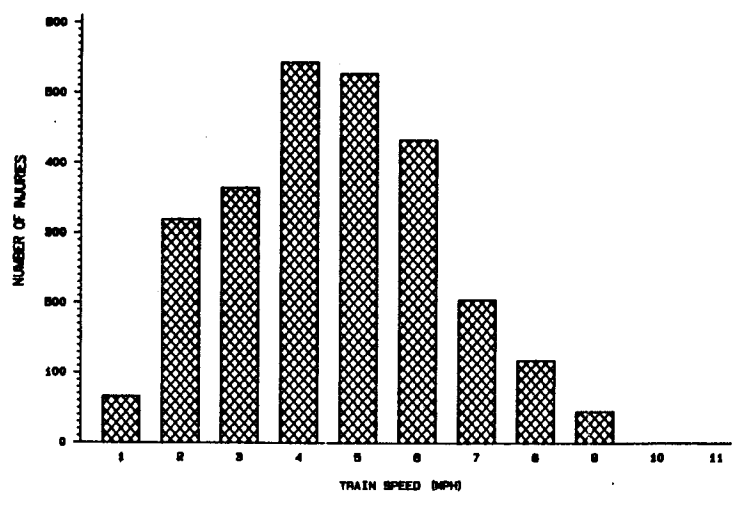
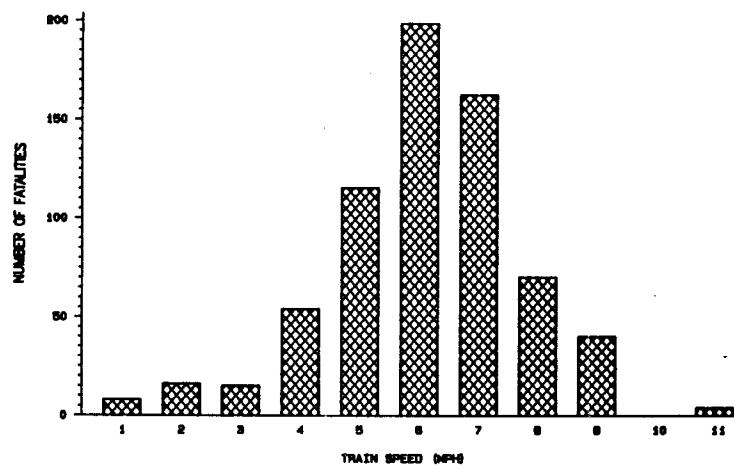
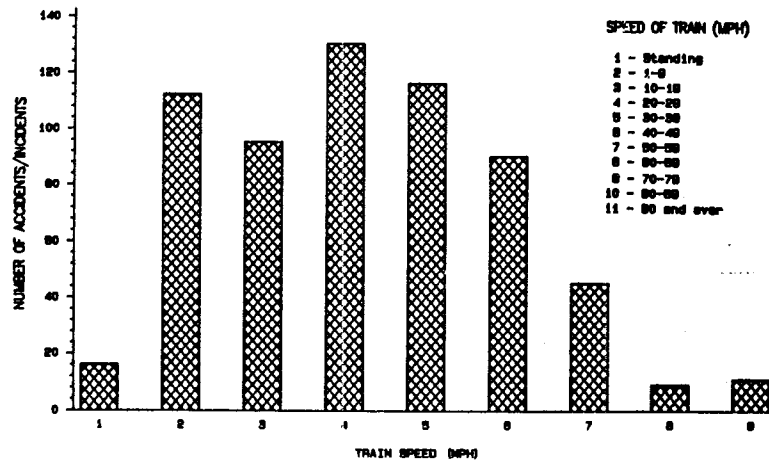


FIGURE 5. ACCIDENTS/ INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

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	2	3	4	Down		Day	Dusk	Dark	
Train (Units Pulling)	3,575	1,195	785	181	76	54	71	28	129	2,575	166	1,900	
Train (Units Pushing)	200	131	73	6	10	9	31	2	10	151	7	163	
Train (Standing)	---	118	18	30	16	24	24	6	3	13	2	100	
Cars (Moving)	61	29	25	---	---	1	2	1	2	78	3	7	
Cars (Standing)	---	6	2	1	2	---	1	---	---	2	---	4	
Light Locos (Moving)	327	116	99	---	1	1	10	5	12	230	20	181	
Light Locos (Standing)	---	10	10	---	---	---	---	---	---	4	1	5	
Other	3	1	1	---	---	---	---	---	---	4	---	---	
Total	4,166	1,606	1,013	218	105	89	139	42	156	3,057	199	2,360	

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	90	6	49	1	---	---	28	2	13	15	---	4	134	8	66
1-9	529	14	165	6	---	1	372	2	72	258	---	81	1,165	16	319
10-19	662	12	234	28	2	18	132	1	45	153	---	67	975	15	364
20-29	965	49	443	32	1	18	28	2	13	91	2	68	1,116	54	542
30-39	838	106	465	27	---	20	7	---	6	42	9	35	914	115	526
40-49	765	189	377	33	3	36	3	---	1	24	6	17	825	198	431
50-59	368	147	189	32	14	8	2	---	4	8	1	3	410	162	204
60-69	111	48	53	46	14	65	---	---	---	6	8	---	163	70	118
70-79	14	5	6	48	33	39	---	---	---	2	2	---	64	40	45
80-89	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
90 and over	---	---	---	2	4	---	---	---	---	---	---	---	2	4	---
Unknown	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
Total	4,342	576	1,981	257	71	205	572	7	154	601	28	275	5,772	682	2,615

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

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

Number Of Cars	---Freight---			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1-9.....	618	54	255	167	38	177	320	5	81	120	---	62	1,225	97	575
10-19.....	458	54	193	77	32	22	123	1	32	12	1	8	670	88	255
20-29.....	371	52	158	---	---	---	50	1	19	8	---	3	429	53	180
30-39.....	318	55	132	1	---	---	24	---	11	7	2	---	350	57	143
40-49.....	319	39	191	3	---	---	17	---	3	1	---	---	340	39	194
50-59.....	317	47	140	---	---	---	13	---	1	---	---	---	330	47	141
60-69.....	304	41	147	---	---	---	5	---	1	2	---	---	311	41	148
70-79.....	314	43	152	2	---	1	2	---	1	2	---	1	320	43	155
80-89.....	300	53	119	---	---	---	2	---	---	---	---	---	302	53	119
90-99.....	307	43	148	---	---	---	3	---	---	1	---	1	311	43	149
100-109.....	201	37	91	---	---	---	1	---	---	---	---	---	202	37	92
110-119.....	250	31	128	1	---	---	1	---	1	---	---	---	252	31	128
120-129.....	98	12	51	---	---	---	1	---	---	1	---	1	100	12	52
130-139.....	47	5	24	---	---	---	2	---	1	---	---	---	49	5	25
140-149.....	39	3	18	---	---	---	---	---	---	---	---	---	39	3	18
150 And over.....	53	3	23	---	---	---	1	---	---	---	---	---	54	3	23
Locomotives only.	28	4	11	6	1	5	7	---	3	447	25	199	488	30	218
Total.....	4,342	576	1,981	257	71	205	572	7	154	601	28	275	5,772	682	2,615

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	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	9	---	1	586	53	312	30	3	7	238	25	99	863	81	419
10-19.....	20	2	11	281	39	91	13	---	13	167	39	52	481	80	167
20-29.....	7	1	3	179	23	76	11	2	3	96	17	30	293	43	112
30-39.....	4	3	2	160	23	68	13	---	3	88	21	36	265	47	109
40-49.....	13	3	1	122	13	73	9	6	2	96	12	47	240	34	123
50-59.....	8	---	2	126	20	53	4	---	2	98	13	36	236	33	93
60-69.....	6	1	1	109	22	55	5	1	2	110	12	51	250	36	109
70-79.....	10	---	8	115	19	43	6	1	1	109	14	49	240	34	101
80-89.....	10	1	1	120	28	48	8	---	2	91	16	24	229	45	75
90-99.....	9	1	3	125	15	66	8	2	8	89	13	33	231	31	110
100-109.....	6	2	5	68	9	31	3	---	---	73	15	30	150	26	66
110-119.....	5	---	2	109	16	53	5	---	3	63	5	34	182	21	92
120-129.....	---	---	---	39	8	20	3	---	3	33	2	20	75	10	43
130-139.....	1	---	1	10	---	4	2	---	---	22	3	7	35	3	12
140-149.....	---	---	---	11	1	8	4	---	---	14	2	6	29	3	16
150 And over.....	1	---	---	12	1	4	1	1	---	24	---	8	38	2	12
Locomotives only.	10	---	3	186	16	96	13	1	9	140	10	54	349	27	162
Total.....	119	14	44	2,358	306	1,101	138	17	60	1,551	219	616	4,166	556	1,821
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	7	---	4	212	6	91	10	2	8	133	8	53	362	16	156
10-19.....	1	---	1	92	3	39	13	1	6	83	4	42	189	8	88
20-29.....	4	---	1	65	3	33	3	---	2	64	7	32	136	10	68
30-39.....	2	---	---	26	2	12	7	---	---	50	8	17	85	10	34
40-49.....	---	---	---	37	2	23	3	---	---	60	3	48	100	5	71
50-59.....	2	---	1	31	7	16	6	1	---	55	6	31	94	14	48
60-69.....	2	---	1	36	2	20	1	---	1	42	3	17	81	5	39
70-79.....	3	1	3	33	6	23	3	---	1	41	2	27	80	9	54
80-89.....	4	1	2	17	---	9	1	---	---	51	7	33	73	8	44
90-99.....	---	---	---	32	4	9	1	---	2	47	8	28	80	12	39
100-109.....	3	---	2	13	1	10	1	---	---	35	10	14	52	11	26
110-119.....	4	---	---	21	3	8	1	---	---	44	7	28	70	10	36
120-129.....	2	---	2	10	---	2	1	---	1	12	2	4	25	2	9
130-139.....	---	---	---	2	---	2	---	---	---	12	2	11	14	2	13
140-149.....	---	---	---	2	---	---	1	---	1	7	---	1	10	---	2
150 And over.....	---	---	---	3	---	---	---	---	---	13	1	11	16	1	11
Locomotives only.	3	---	2	67	2	20	9	---	8	60	1	26	139	3	56
Total.....	37	2	19	699	41	317	61	4	35	809	79	423	1,606	126	794
GRAND TOTAL															
1-9.....	16	---	5	798	59	403	40	5	15	371	33	152	1,225	97	575
10-19.....	21	2	12	373	42	130	26	1	19	250	43	94	670	88	255
20-29.....	11	1	4	244	26	109	14	2	5	160	24	62	429	53	180
30-39.....	6	3	2	186	25	80	20	---	8	138	29	53	350	57	143
40-49.....	13	3	1	159	15	96	12	6	2	156	15	95	340	39	194
50-59.....	10	---	3	157	27	69	10	1	2	153	19	67	330	47	141
60-69.....	8	1	2	145	24	75	6	1	3	152	15	68	311	41	148
70-79.....	13	1	11	148	25	66	9	1	2	150	16	76	320	43	155
80-89.....	14	2	3	137	28	57	9	---	2	142	23	57	302	53	119
90-99.....	9	1	3	157	19	75	9	2	10	136	21	61	311	43	149
100-109.....	9	2	7	81	10	41	4	---	---	108	25	44	202	37	92
110-119.....	9	---	2	130	19	61	6	---	3	107	12	62	252	31	128
120-129.....	2	---	2	49	8	22	4	---	4	45	4	24	100	12	52
130-139.....	1	---	1	12	---	6	2	---	---	34	5	18	49	5	25
140-149.....	---	---	---	13	1	8	5	---	3	21	2	7	39	3	18
150 And over.....	1	---	---	15	1	4	1	1	---	37	1	19	54	3	23
Locomotives only.	13	---	5	253	18	116	22	1	17	200	11	80	488	30	218
Total.....	156	16	63	3,057	347	1,418	199	21	95	2,360	298	1,039	5,772	682	2,615

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.....	456	11	117	247	1	66	61	1	19	173	4	56	---	---	---	937	17	258
2.....	1,002	35	456	60	---	20	26	1	7	44	1	25	---	---	---	1,132	37	508
3.....	1,511	166	738	17	---	4	8	---	1	17	---	5	---	---	---	1,553	166	748
4.....	1,862	397	987	8	---	7	3	---	1	9	2	1	---	---	---	1,882	399	996
5.....	173	57	74	---	---	---	---	---	---	---	---	---	---	---	---	173	57	74
6.....	15	6	11	---	---	---	---	---	---	---	---	---	---	---	---	15	6	11
Unknown.....	35	---	13	22	---	3	3	---	1	20	---	3	---	---	---	80	---	20
Total.....	5,054	672	2,396	354	1	100	101	2	29	263	7	90	---	---	---	5,772	682	2,615

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.....	768	158	422	---	---	---	11	---	4	356	21	79	25	6	31	1,160	185	536
Cantilever flashers	---	---	---	29	4	11	231	15	146	68	2	10	10	---	2	338	21	169
Standard flashers	---	---	---	100	3	43	920	101	513	308	12	54	24	---	7	1,352	116	617
Hwy Sig, H W, Bells	---	---	---	17	---	2	76	5	30	29	---	6	3	---	---	125	5	38
Special Devices..	---	---	---	16	---	5	61	---	19	22	---	4	5	---	3	104	---	31
Crossbucks.....	---	---	---	123	10	43	1,820	290	941	592	38	183	56	14	26	2,591	352	1,193
Stopsigns.....	---	---	---	3	---	1	15	---	3	8	---	2	---	---	---	26	---	6
Other Signs.....	---	---	---	1	---	---	8	---	4	5	---	3	1	---	1	15	---	8
No Signs Or Signl	---	---	---	5	---	2	36	3	14	19	---	1	1	---	---	61	3	17
Total.....	768	158	422	294	17	107	3,178	414	1,674	1,407	73	342	125	20	70	5,772	682	2,615

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

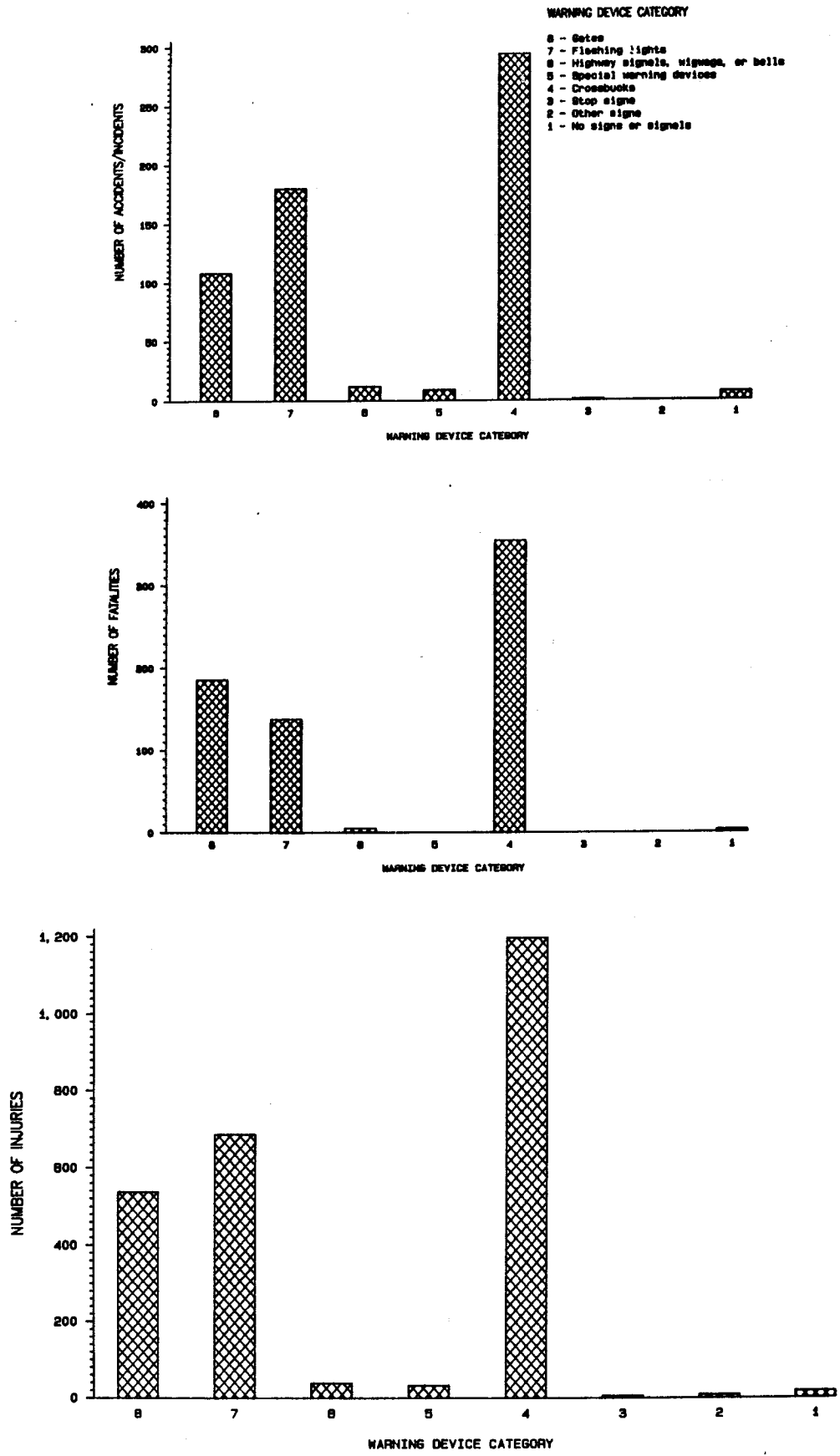


FIGURE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

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

Warning Device	-Device Working-			-----Highway User-----							
	Yes	No	N/A	----Struck By Consist----				----Ran Into Consist----			
				Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	1,143	1	16	37	393	19	502	4	60	9	136
Cantilever flashrs	335	1	2	6	136	3	77	4	70	3	39
Standard flashers	1,341	3	8	26	551	30	331	3	188	13	210
Hwy Sig, W W, Bells	124	---	1	4	54	3	27	2	18	1	16
Special Devices..	---	---	104	1	32	2	23	1	16	1	28
Crossbucks.....	---	---	2,591	44	1,146	78	567	22	340	33	361
Stopsigns.....	---	---	26	---	15	---	6	1	---	---	4
Other Signs.....	---	---	15	---	5	2	3	---	---	---	5
No Signs Or Signl	---	---	61	1	26	1	15	---	7	1	10
Total.....	2,943	5	2,824	119	2,358	138	1,551	37	699	61	809

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

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

	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	1,025	109	472	405	29	190	1,430	138	662
Not Lighted.....	2,272	332	946	863	77	454	3,135	409	1,400
Not Reported.....	827	104	395	315	20	145	1,142	124	540
Total.....	4,166	556	1,821	1,606	126	794	5,772	682	2,615

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	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	66	4	18	1,066	103	511	54	7	25	907	148	371	2,093	262	925
Automatic, Side Of Approach.....	7	2	1	60	6	13	---	---	---	22	---	6	89	8	20
Automatic, Opposite Side.....	---	---	---	6	---	12	1	---	---	4	---	---	11	---	12
Automatic, Side Not Reported.....	---	---	---	2	---	---	---	---	---	4	1	---	6	1	---
Manual, Both Sides.....	1	---	---	27	---	6	2	---	---	15	---	3	45	---	9
Manual, Side Of Approach.....	---	---	---	2	---	---	---	---	---	3	---	1	5	---	1
Manual, Opposite Side.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
Manual, Side Not Reported.....	---	---	---	2	---	---	---	---	---	4	---	4	6	---	4
Other, Both Sides.....	39	7	20	1,073	184	504	73	8	33	536	68	217	1,721	267	774
Other, Side Of Approach.....	4	---	5	57	9	30	4	1	2	20	2	6	85	12	43
Other, Opposite Side.....	1	---	---	24	3	12	1	---	---	12	---	4	38	3	16
Other, Side Not Reported.....	---	---	---	12	---	9	2	---	---	8	---	1	22	---	10
No Signs Or Signals.....	1	1	---	26	1	4	1	1	---	15	---	3	43	3	7
Total.....	119	14	44	2,358	306	1,101	138	17	60	1,551	219	616	4,166	556	1,821
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	12	1	7	321	22	161	25	---	22	381	30	201	739	53	391
Automatic, Side Of Approach.....	1	---	---	5	---	2	1	1	---	18	1	7	28	2	9
Automatic, Opposite Side.....	---	---	---	8	---	2	---	---	---	1	---	---	6	1	2
Automatic, Side Not Reported.....	---	---	---	2	---	---	---	---	---	1	---	1	3	---	1
Manual, Both Sides.....	1	---	2	14	---	1	1	---	1	25	---	12	41	---	16
Manual, Side Of Approach.....	---	---	---	1	---	1	---	---	---	---	---	---	1	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported.....	---	---	---	1	---	---	---	---	---	3	---	---	4	---	---
Other, Both Sides.....	22	1	9	323	19	144	29	3	11	348	41	181	722	64	345
Other, Side Of Approach.....	1	---	1	11	---	2	4	---	1	17	5	11	33	5	15
Other, Opposite Side.....	---	---	---	5	---	3	---	---	---	4	1	1	9	1	4
Other, Side Not Reported.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
No Signs Or Signals.....	---	---	---	7	---	1	1	---	---	10	---	9	18	---	10
Total.....	37	2	19	699	41	317	61	4	35	809	79	423	1,606	126	794
GRAND TOTAL															
Automatic, Both Sides.....	78	5	25	1,387	125	672	79	7	47	1,288	178	572	2,832	315	1,316
Automatic, Side Of Approach.....	8	2	1	68	6	15	1	1	---	40	1	13	117	10	29
Automatic, Opposite Side.....	---	---	---	11	---	14	1	---	---	5	1	---	17	1	14
Automatic, Side Not Reported.....	---	---	---	4	---	---	---	---	---	5	1	1	9	1	1
Manual, Both Sides.....	2	---	2	41	---	7	3	---	1	40	---	15	86	---	25
Manual, Side Of Approach.....	---	---	---	3	---	1	---	---	---	3	---	1	6	---	2
Manual, Opposite Side.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
Manual, Side Not Reported.....	---	---	---	3	---	---	---	---	---	7	---	4	10	---	4
Other, Both Sides.....	61	8	29	1,396	203	648	102	11	44	884	109	398	2,443	331	1,119
Other, Side Of Approach.....	5	---	6	68	9	32	8	1	3	37	7	17	118	17	58
Other, Opposite Side.....	1	---	---	29	3	15	1	---	---	16	1	5	47	4	20
Other, Side Not Reported.....	---	---	---	13	---	9	2	---	---	9	---	1	24	---	10
No Signs Or Signals.....	1	1	---	33	1	5	2	1	---	25	---	12	61	3	17
Total.....	156	16	63	3,057	347	1,418	199	21	95	2,360	298	1,039	5,772	682	2,615

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

TIME, DAY AND WEATHER DATA

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

Visibility	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	119	14	44	37	2	19	156	16	63
Day.....	2,358	306	1,101	699	41	317	3,057	347	1,418
Dusk.....	138	17	60	61	4	35	199	21	95
Dark.....	1,551	219	616	809	79	423	2,360	298	1,039
Total.....	4,166	556	1,821	1,606	126	794	5,772	682	2,615

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.....	1	7	1	---	---	2	---	---	1	9	1	---
80 To 100.....	6	621	23	90	1	166	5	25	7	787	28	115
60 To 79.....	44	814	46	444	16	215	25	213	60	1,029	71	657
40 To 59.....	32	463	41	529	9	130	12	274	41	593	53	803
20 To 39.....	33	340	22	394	8	134	14	232	41	474	36	626
0 To 19.....	3	99	4	83	2	40	4	52	5	139	8	135
-20 To -1.....	---	13	1	10	1	12	1	12	1	25	2	22
Under -20.....	---	1	---	1	---	---	---	1	---	1	---	2
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	119	2,358	138	1,551	37	699	61	809	156	3,057	199	2,360

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

TIME	CIRCUMSTANCE								
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	-----Total-----		
							A/I	Kld	Inj
MID TO 12:59 AM..	142	21	38	72	8	39	214	29	77
1 TO 1:59 AM...	136	23	48	79	10	51	215	33	99
2 TO 2:59 AM...	109	14	50	79	11	46	188	25	96
3 TO 3:59 AM...	66	9	29	46	---	17	112	9	46
4 TO 4:59 AM...	63	4	14	37	4	19	100	8	33
5 TO 5:59 AM...	92	7	38	33	2	10	125	9	48
6 TO 6:59 AM...	130	23	51	56	6	23	186	29	74
7 TO 7:59 AM...	165	20	119	57	11	30	222	31	149
8 TO 8:59 AM...	188	25	89	56	---	28	244	25	117
9 TO 9:59 AM...	179	21	90	52	3	24	231	24	114
10 TO 10:59 AM.	210	23	85	53	4	18	263	27	103
11 TO 11:59 AM.	215	20	102	63	3	28	278	23	130
NOON TO 12:59 PM.	198	27	88	66	---	28	264	27	116
1 TO 1:59 PM...	224	24	99	64	3	26	288	27	125
2 TO 2:59 PM...	204	28	93	68	6	25	272	34	118
3 TO 3:59 PM...	235	36	89	73	---	34	308	36	123
4 TO 4:59 PM...	229	20	100	75	5	38	304	25	138
5 TO 5:59 PM...	248	33	113	72	8	33	320	41	146
6 TO 6:59 PM...	258	52	118	96	4	46	354	56	164
7 TO 7:59 PM...	203	37	81	82	12	39	285	49	120
8 TO 8:59 PM...	184	11	84	81	8	36	265	19	120
9 TO 9:59 PM...	175	27	85	73	4	45	248	31	130
10 TO 10:59 PM.	145	20	58	83	10	47	228	30	105
11 TO 11:59 PM.	168	31	60	90	4	64	258	35	124
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	4,166	556	1,821	1,606	126	794	5,772	682	2,615

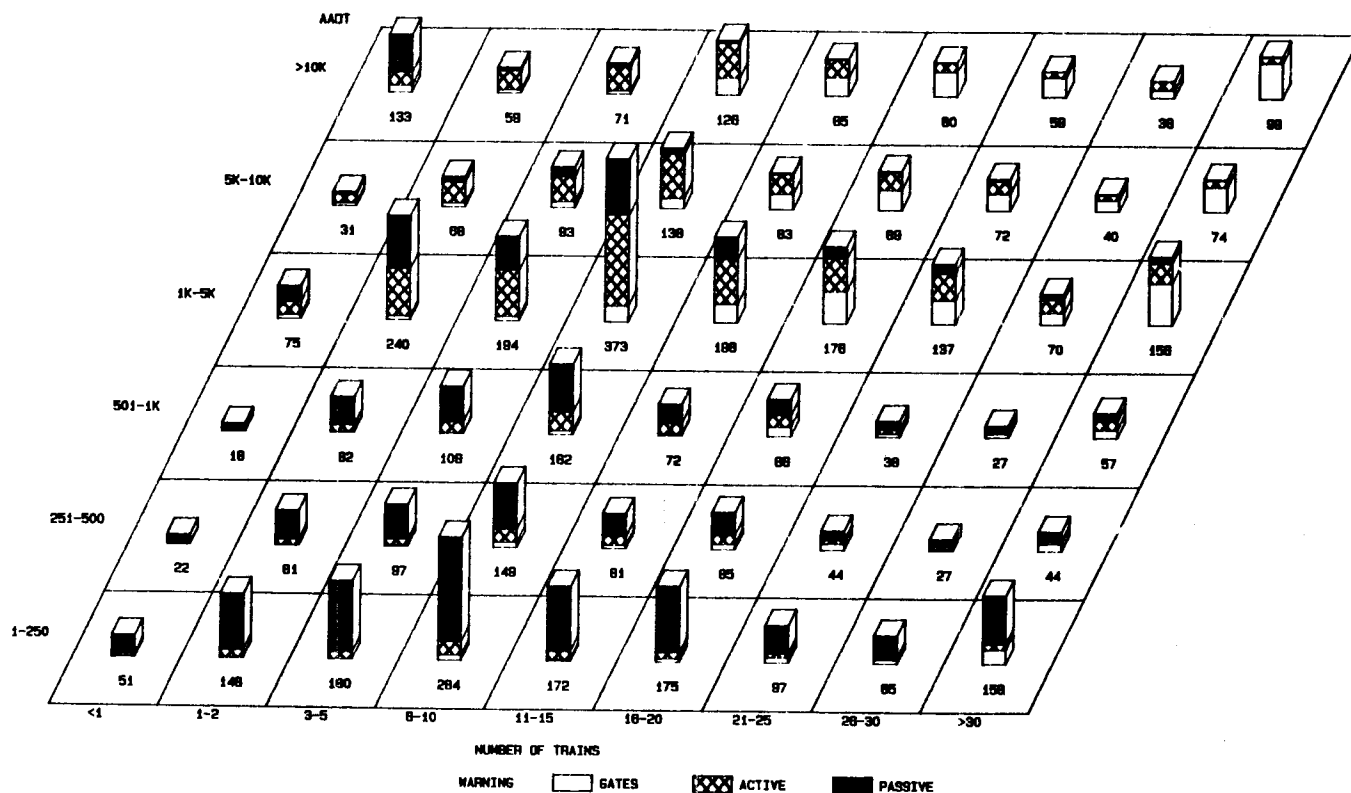
TABLE 29. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE

Month	CIRCUMSTANCE								
	Struck A/I	By Consist Kld	Inj	Ran A/I	Into Consist Kld	Inj	-----Total-----		
							A/I	Kld	Inj
January.....	368	37	153	168	9	81	536	46	234
February.....	349	49	149	149	16	65	498	65	214
March.....	332	33	164	149	12	66	481	45	230
April.....	338	46	178	80	5	47	418	51	225
May.....	305	31	131	97	5	47	402	36	178
June.....	294	25	129	107	5	50	401	30	179
July.....	299	48	102	101	10	47	400	58	149
August.....	309	40	120	91	9	61	400	49	181
September.....	324	42	132	130	9	74	454	51	206
October.....	400	56	183	159	24	79	559	80	262
November.....	395	69	172	170	12	89	565	81	261
December.....	453	80	208	205	10	88	658	90	296
Total.....	4,166	556	1,821	1,606	126	794	5,772	682	2,615

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

Weather	---Struck By Consist---				---Ran Into Consist---				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	59	1,608	88	922	21	455	32	512	80	2,063	120	1,434
Cloudy.....	36	500	33	356	7	135	8	149	43	635	41	505
Rain.....	15	172	9	182	4	64	14	82	19	236	23	264
Fog.....	5	17	2	38	3	9	1	30	8	26	3	68
Sleet.....	1	8	---	9	---	3	1	5	1	11	1	14
Snow.....	3	53	4	43	2	32	5	30	5	85	9	73
Not Reported.....	---	---	2	1	---	1	---	1	---	1	2	2
Total.....	119	2,358	138	1,551	37	699	61	809	156	3,057	199	2,360

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



MOTORIST ACTION DATA

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

Type Obstruction	CIRCUMSTANCE											
	---Struck By Consist---				---Ran Into Consist---				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	3	68	3	45	1	29	5	7	4	97	8	52
Standing RR Equipment.	1	16	1	8	---	2	---	2	1	18	1	10
Passing Train.....	---	5	3	1	1	3	---	1	1	8	3	2
Topography.....	1	17	2	8	---	15	2	6	1	32	4	14
Vegetation.....	3	62	2	7	2	23	1	9	5	85	3	16
Highway Vehicle.....	---	13	2	4	---	4	---	---	---	17	2	4
Other.....	---	30	2	8	---	13	---	4	---	43	2	12
Not Obstructed.....	111	2,140	123	1,468	33	609	52	780	144	2,749	175	2,248
Unknown.....	---	7	---	2	---	1	---	---	---	8	1	2
Total.....	119	2,358	138	1,551	37	699	61	809	156	3,057	199	2,360

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

Type Of Vehicle	MOTORIST ACTION					
	Struck By Yes	Second Train No	Unknown	Passed Standing Vehicle Yes	No	Unknown
Automobile.....	110	3,711	52	168	3,378	327
Truck.....	27	1,314	16	45	1,198	114
Truck-trailer....	12	475	9	12	444	40
Bus.....	1	13	---	---	13	1
School bus.....	---	4	---	---	4	---
Motorcycle.....	1	27	---	2	23	3
Total.....	151	5,544	77	227	5,069	485

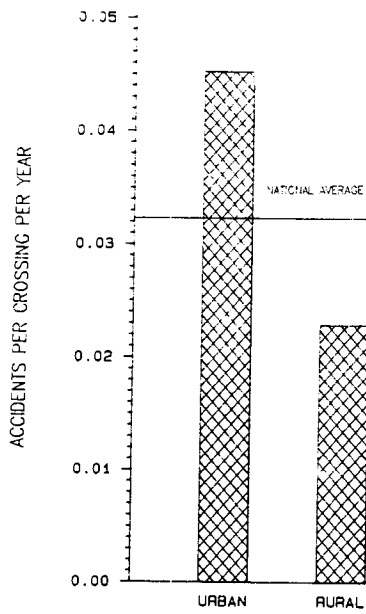


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

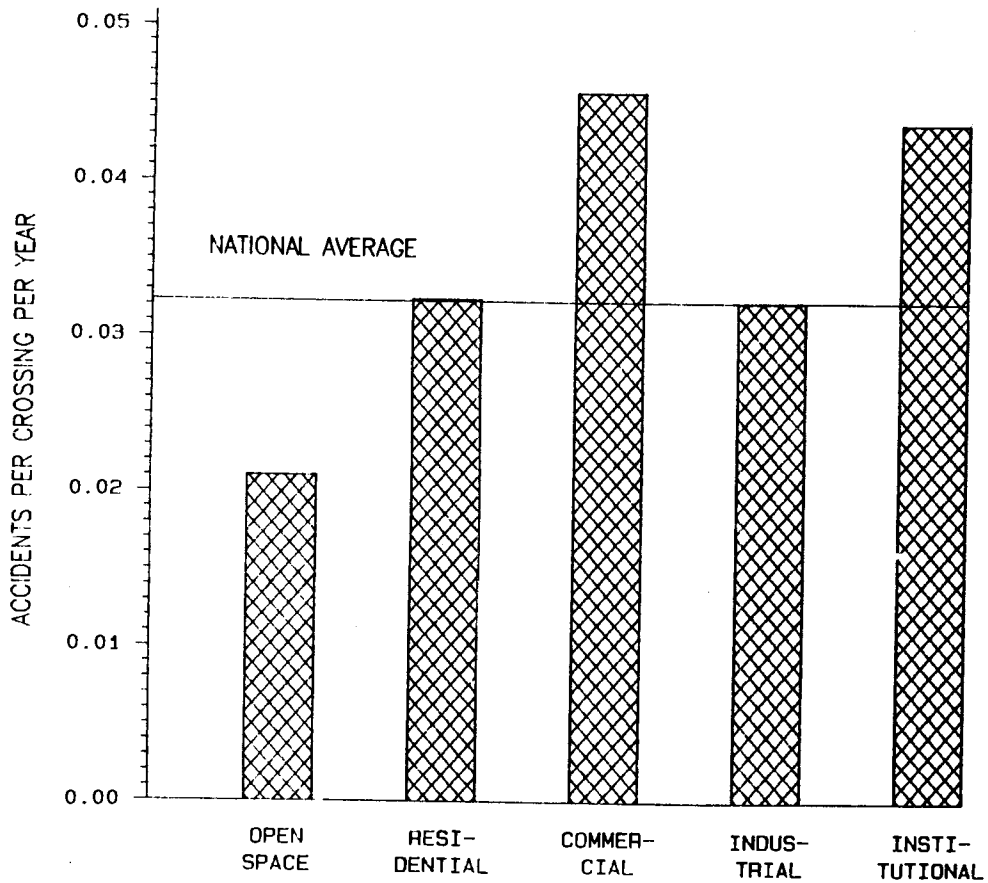


FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

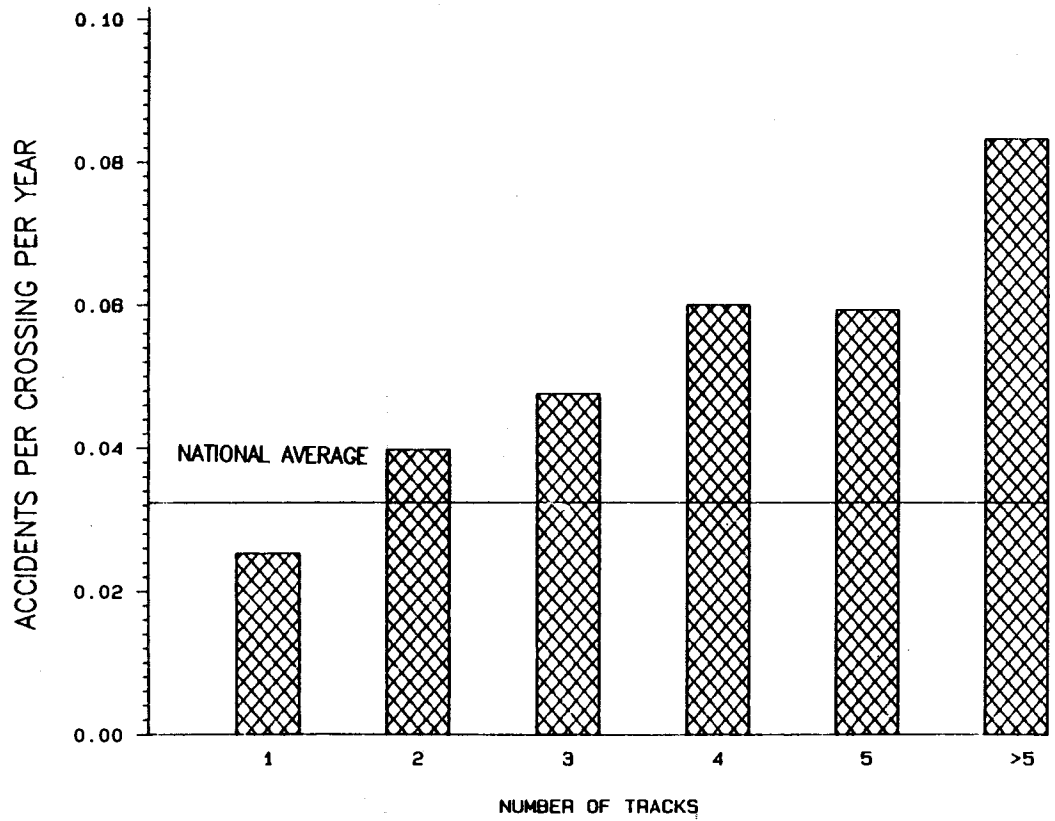


FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

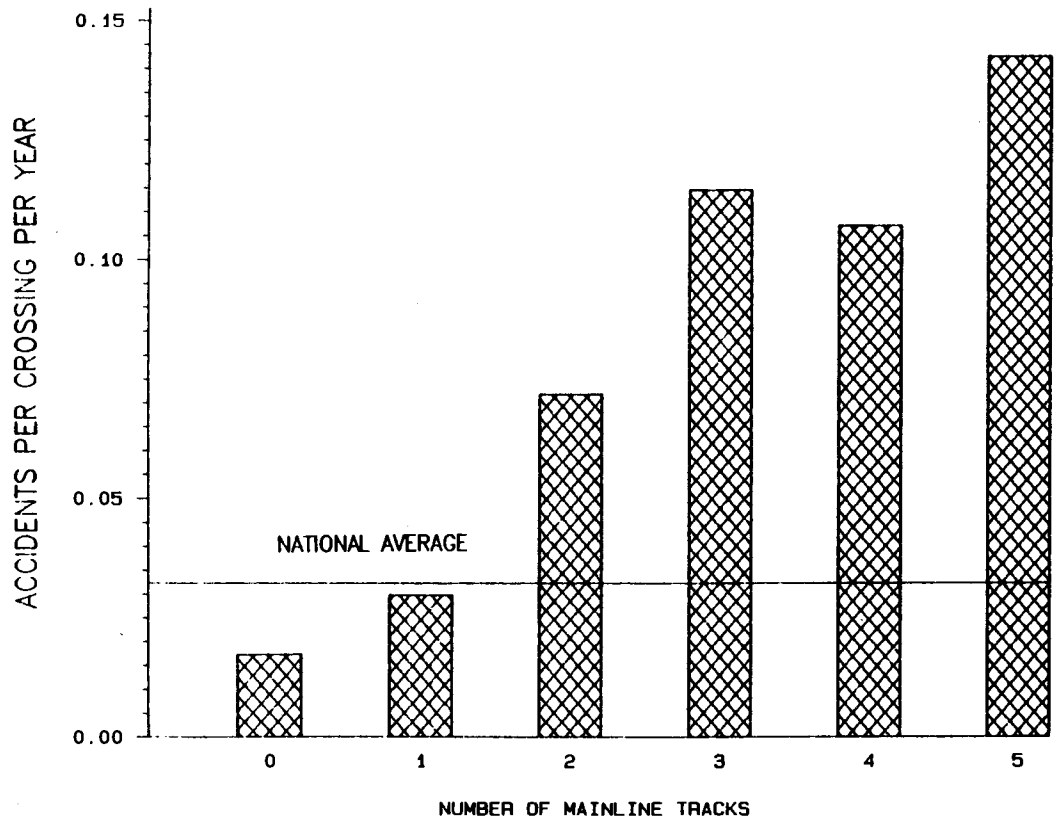


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

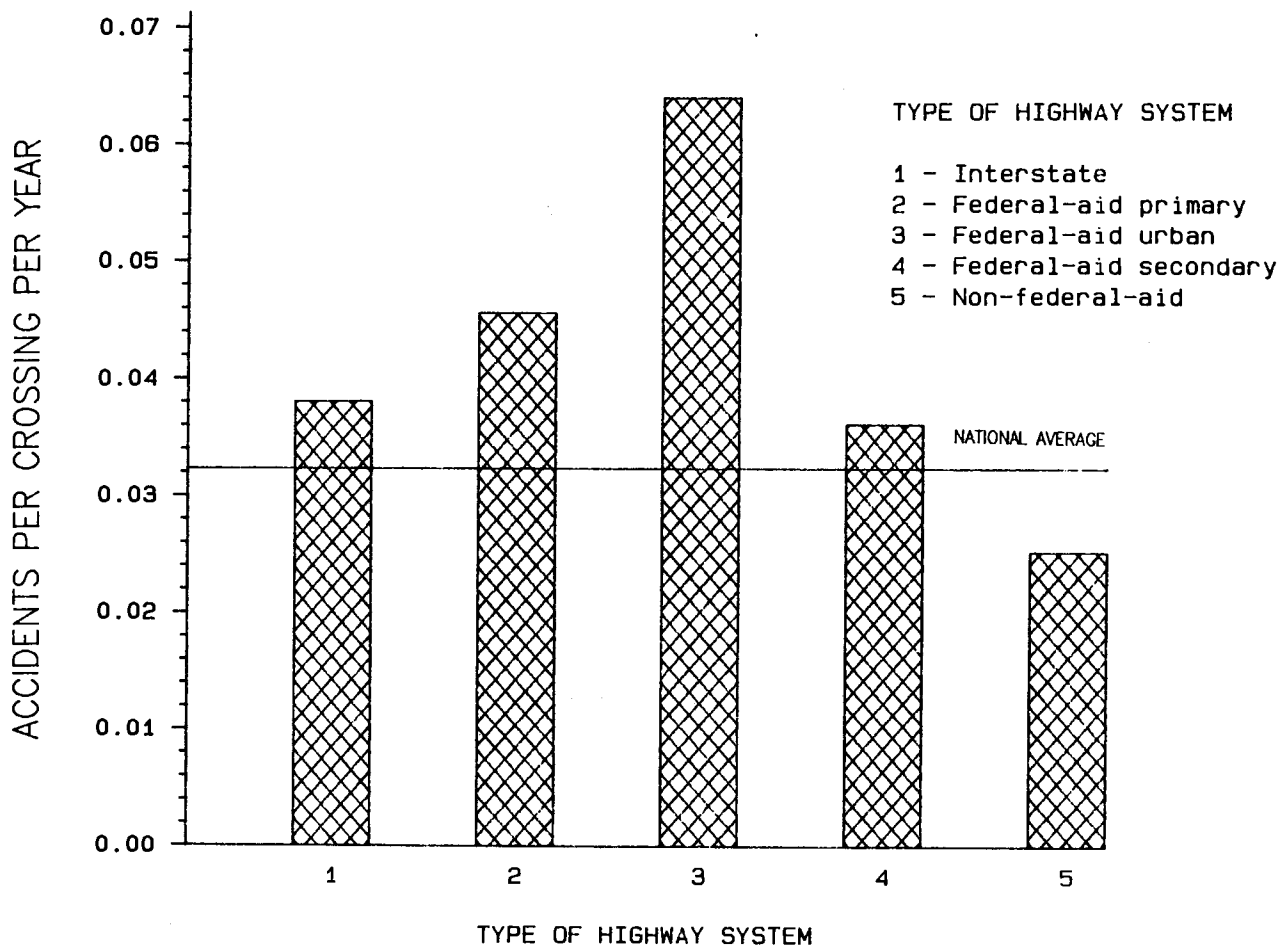


FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

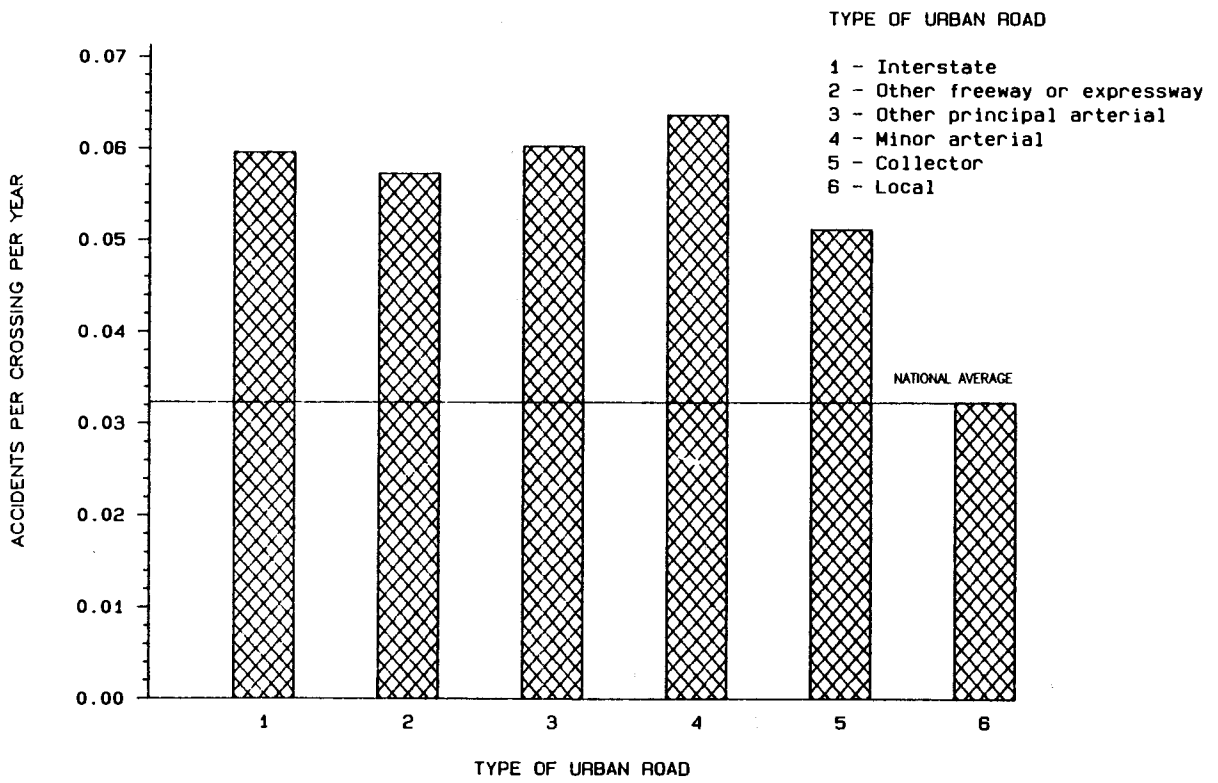


FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

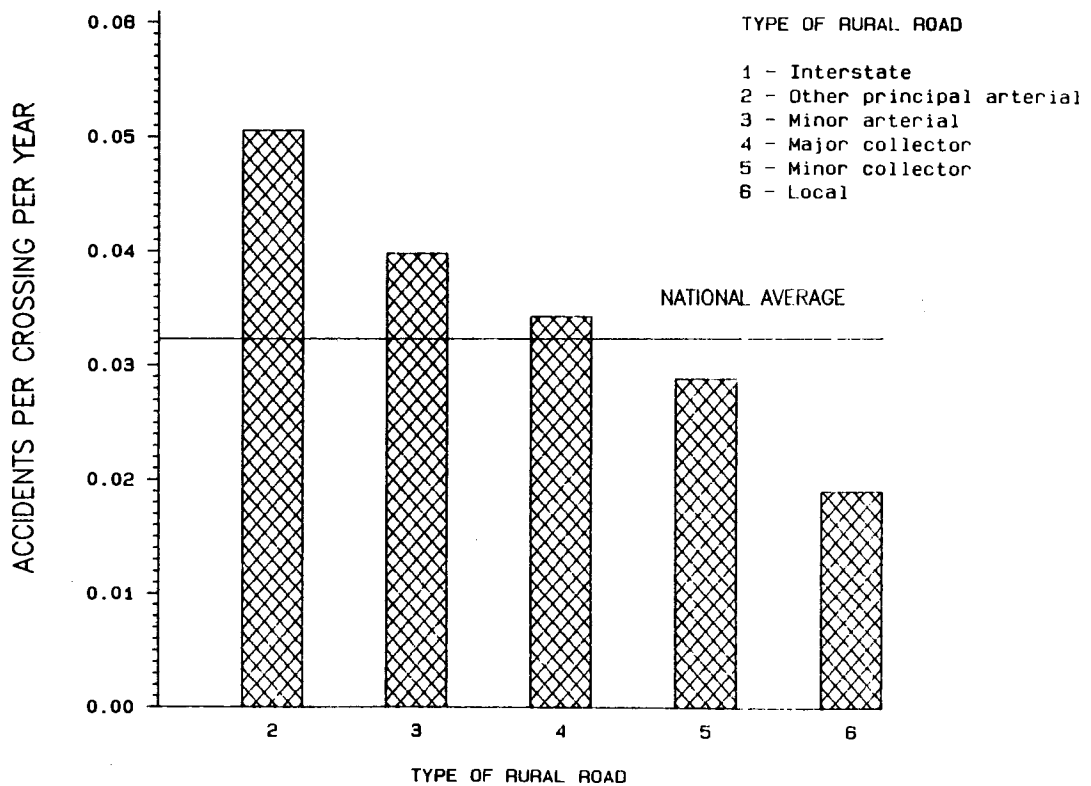


FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

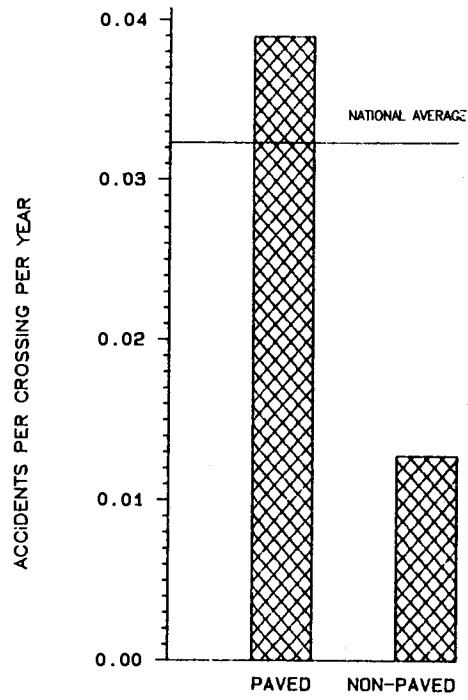


FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

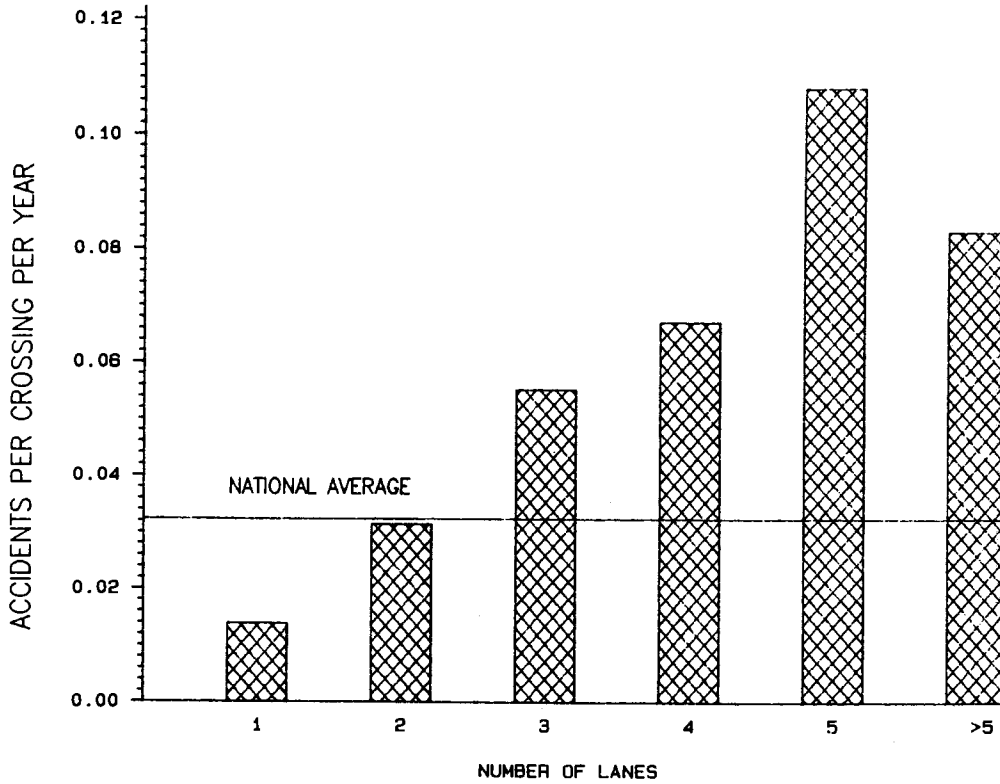


FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

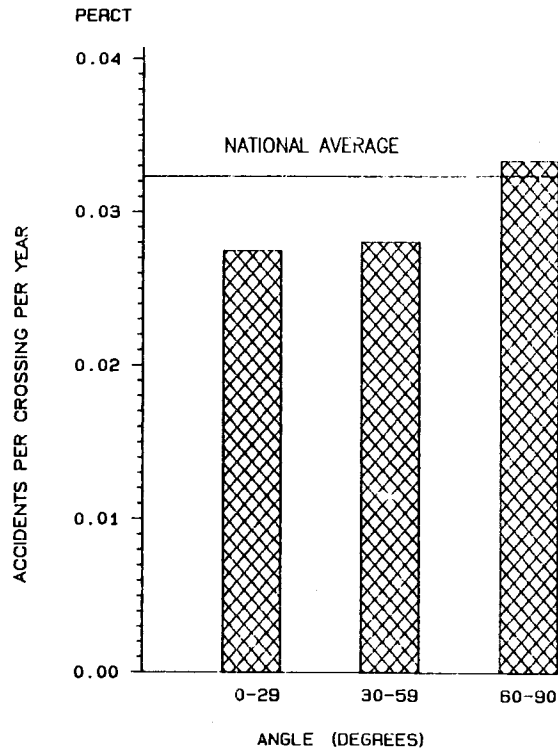


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

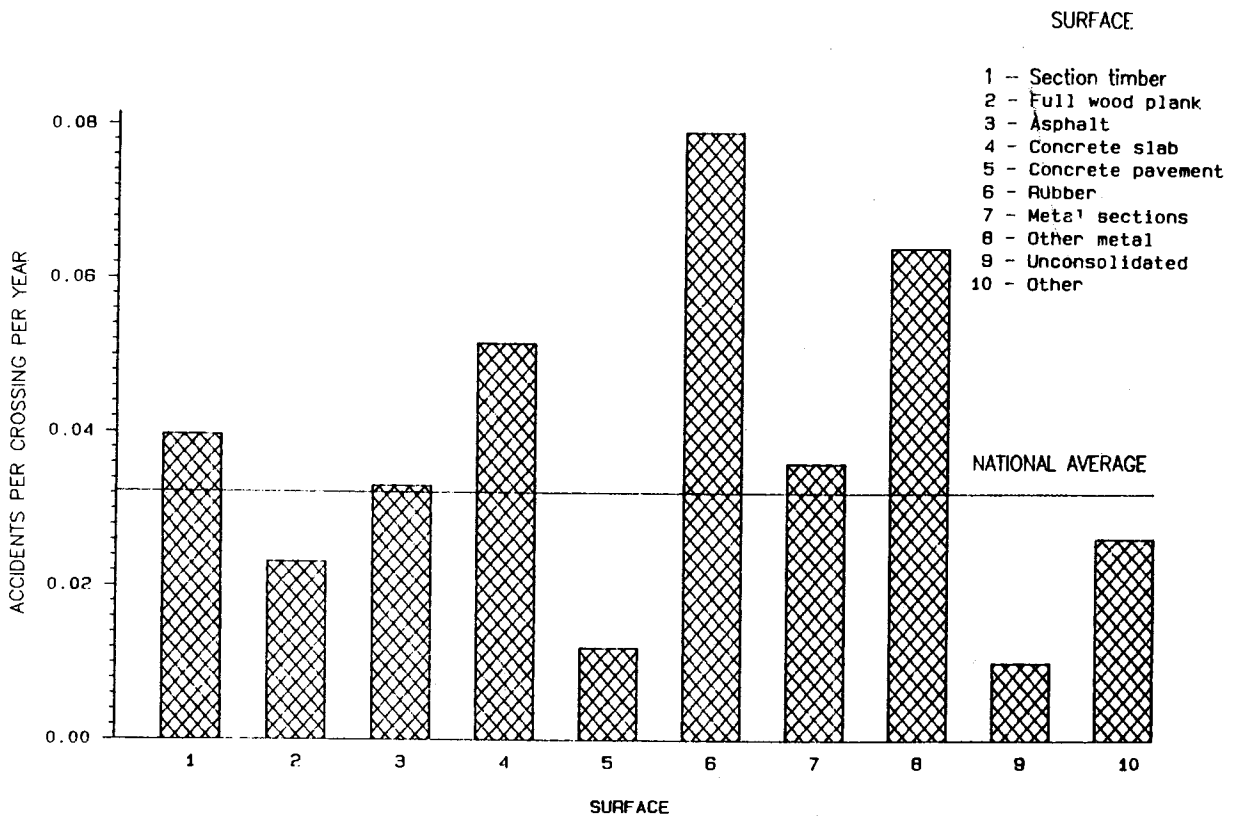


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

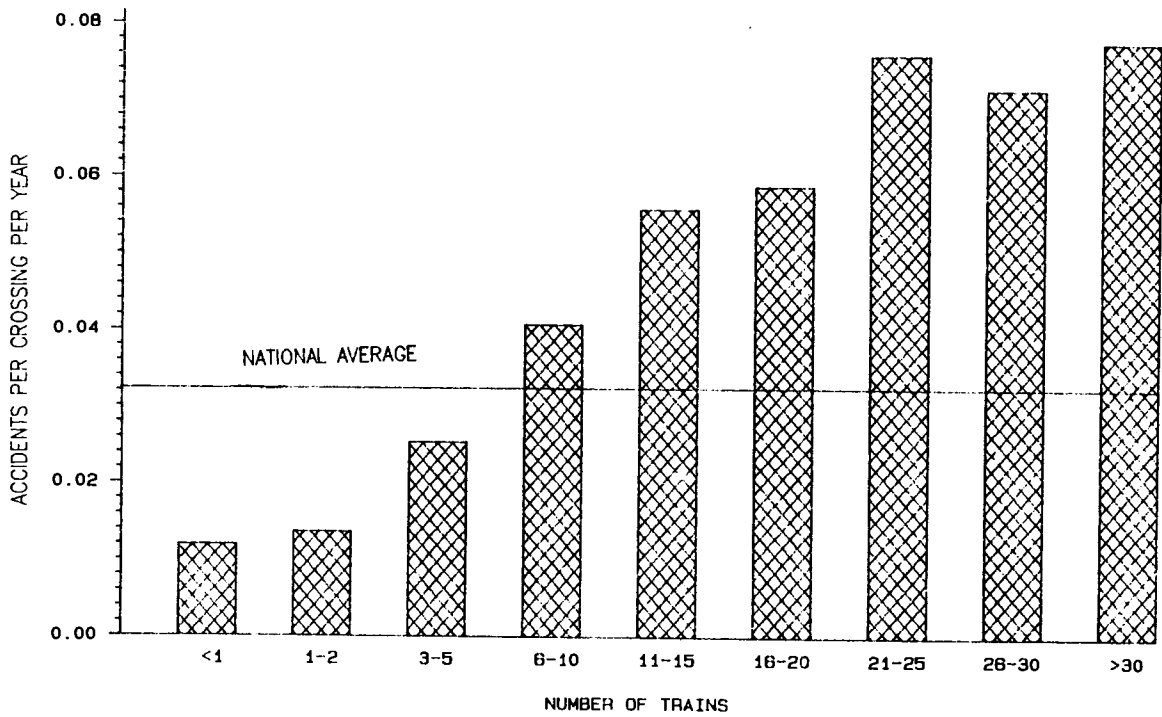


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

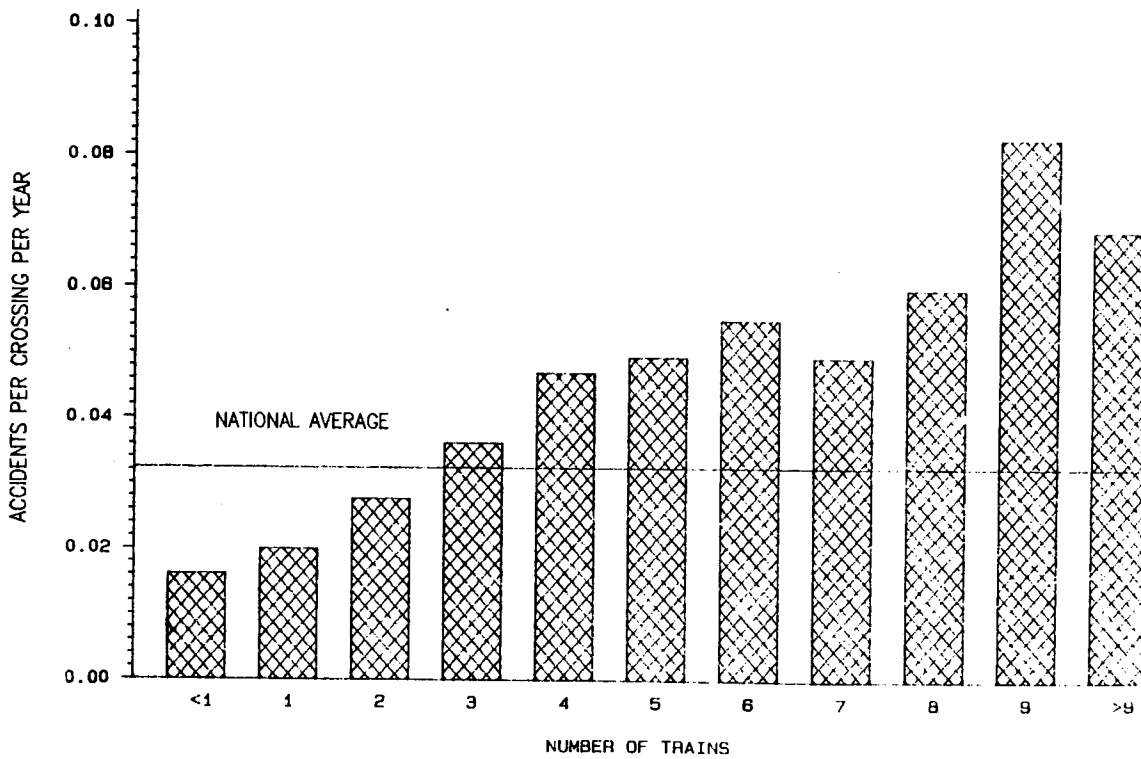


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM TO 6PM)

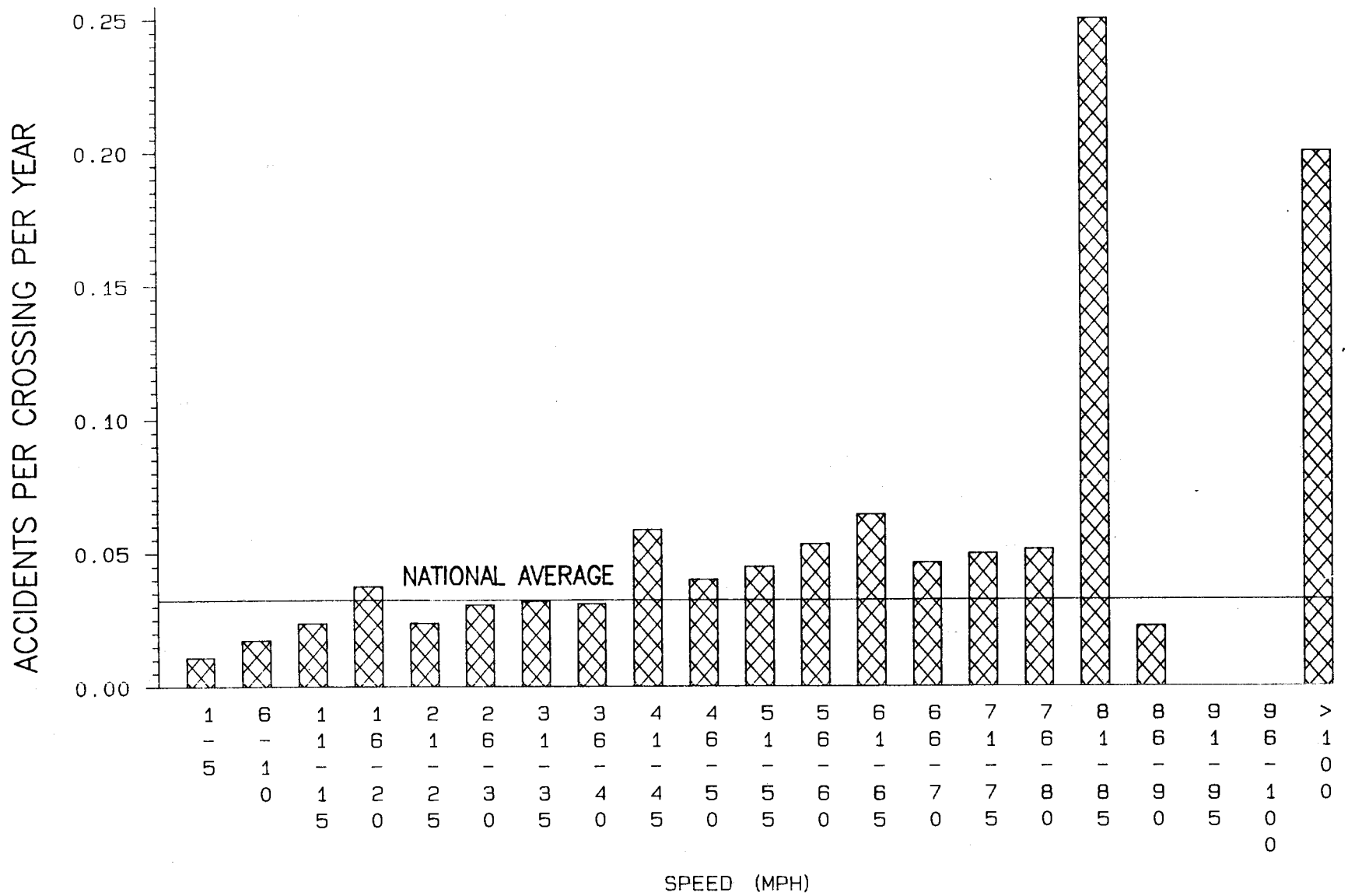


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

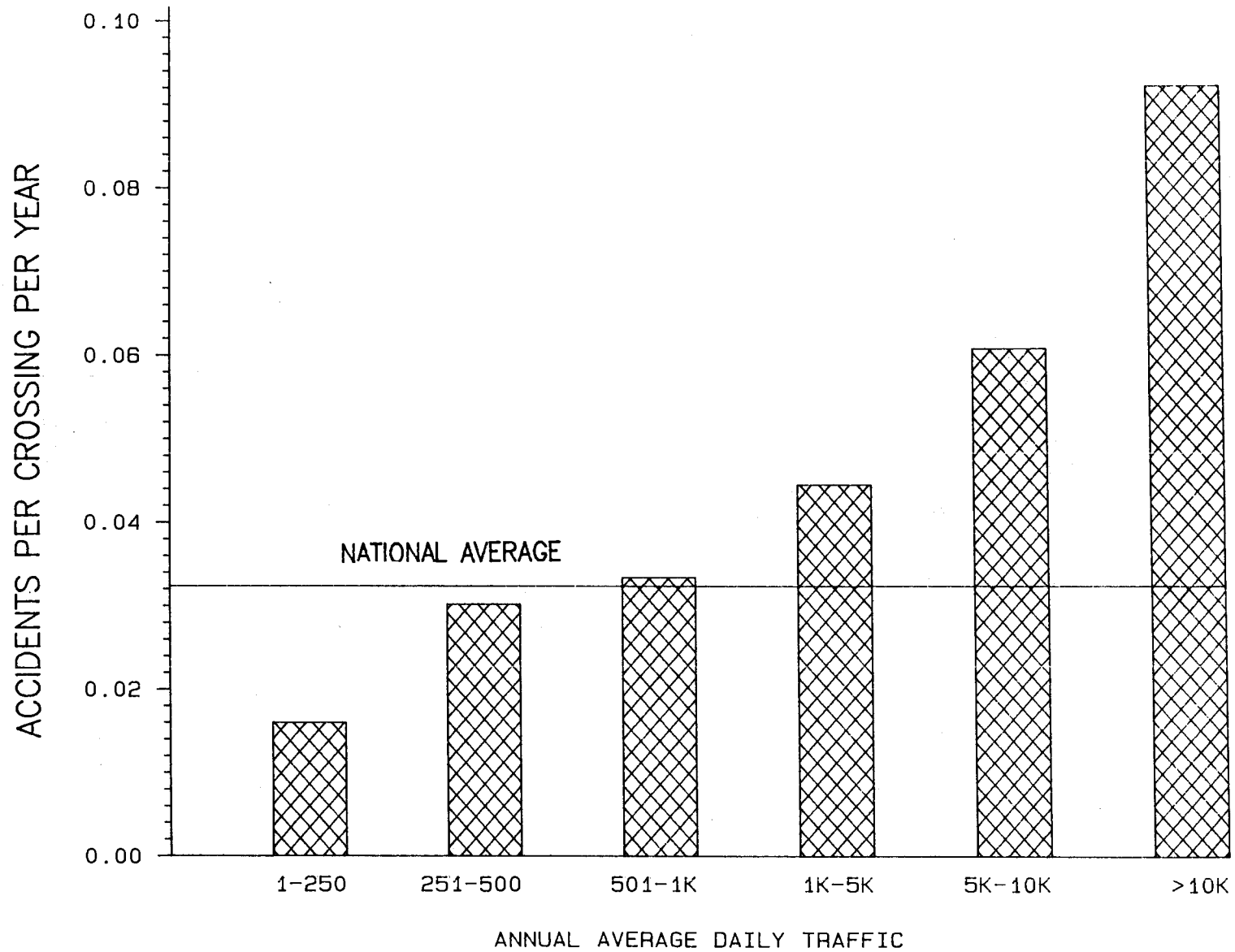


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

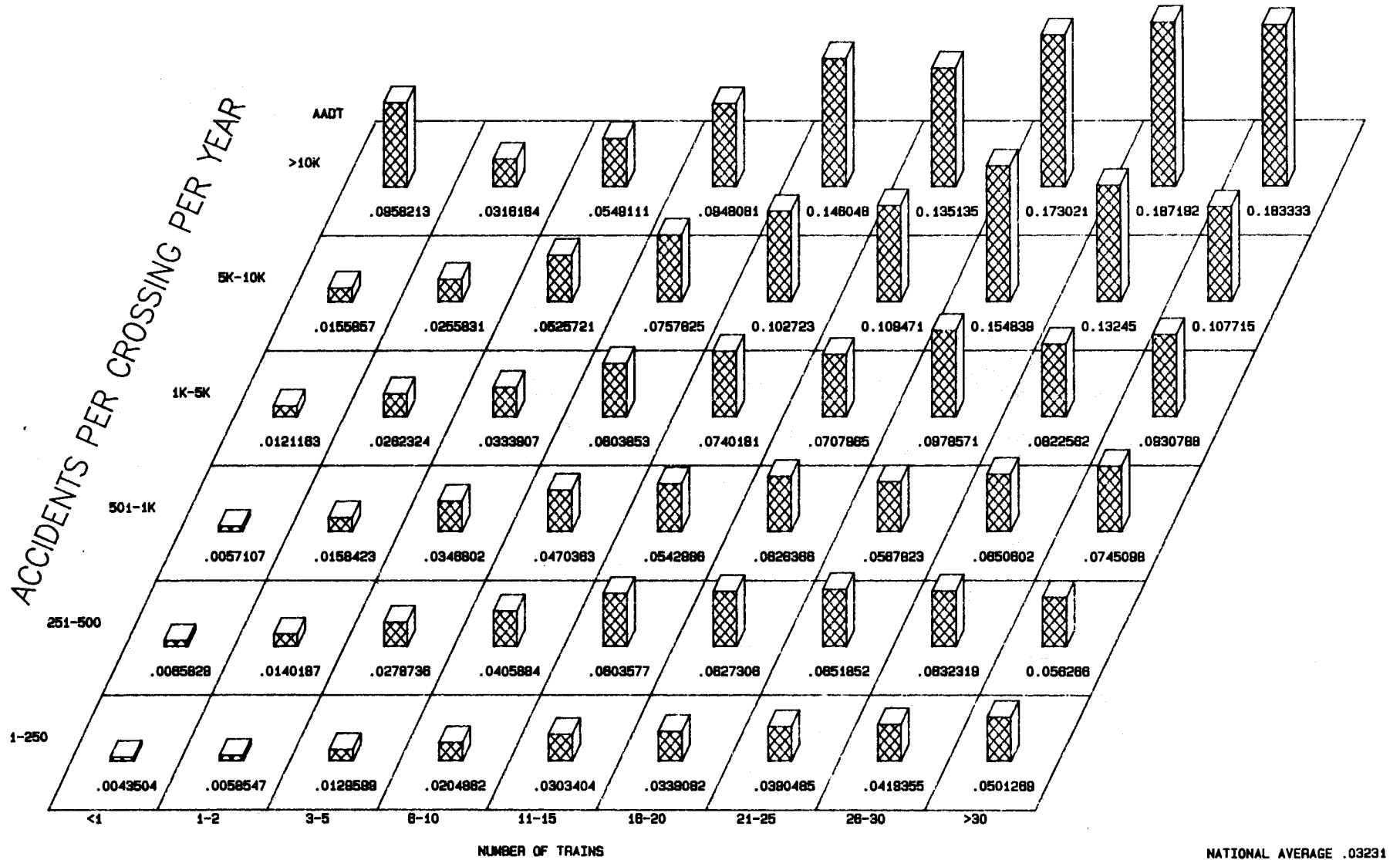


FIGURE 23. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

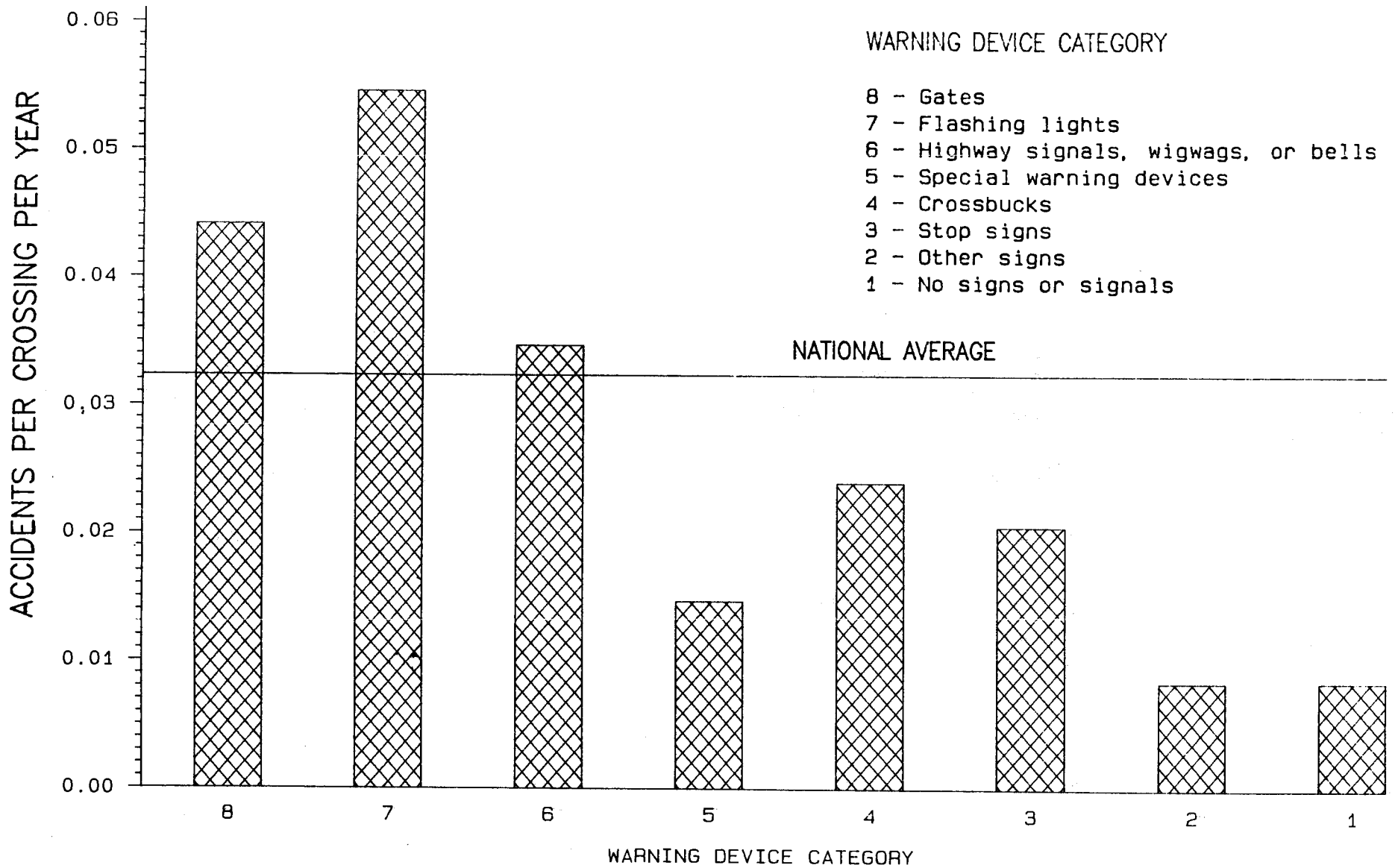


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

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	4,391	494	188	2,300	32	7,405
Alaska	224	11	6	104	12	357
Arizona	972	88	86	821	8	1,975
Arkansas	3,427	180	119	1,660	18	5,404
California	8,316	937	559	5,277	252	15,341
Colorado	2,206	197	116	1,541	15	4,075
Connecticut	501	325	252	416	54	1,548
Delaware	265	47	59	173	4	548
Dist Of Columbia	37	30	38	12	13	130
Florida	4,155	200	75	1,484	67	5,981
Georgia	6,673	565	253	3,062	40	10,593
Hawaii	6	0	0	0	0	6
Idaho	1,722	92	62	1,506	10	3,392
Illinois	10,731	929	1,920	6,233	402	20,215
Indiana	7,594	485	608	3,496	143	12,326
Iowa	6,017	491	351	4,433	61	11,353
Kansas	8,678	352	218	4,519	37	13,804
Kentucky	3,080	448	457	3,397	94	7,476
Louisiana	4,346	224	126	3,664	57	8,417
Maine	927	126	78	973	16	2,120
Maryland	633	319	210	812	28	2,002
Massachusetts	1,197	796	436	589	103	3,121
Michigan	6,249	341	407	2,975	97	10,069
Minnesota	5,745	485	372	3,603	79	10,284
Mississippi	2,910	214	104	2,042	15	5,285
Missouri	5,112	665	422	3,680	105	9,984
Montana	1,617	136	83	2,221	19	4,076
Nebraska	4,240	210	127	2,956	18	7,551
Nevada	272	50	39	254	4	619
New Hampshire	513	118	54	364	13	1,062
New Jersey	1,913	535	728	669	125	3,970
New Mexico	822	68	79	639	4	1,612
New York	3,375	1,366	1,107	3,464	298	9,610
North Carolina	4,954	500	289	3,725	71	9,539
North Dakota	4,936	78	86	2,383	32	7,515
Ohio	7,537	1,173	1,146	4,826	104	14,786
Oklahoma	4,827	265	199	1,866	18	7,175
Oregon	2,615	283	177	3,120	97	6,292
Pennsylvania	5,743	1,573	1,913	3,819	326	13,374
Rhode Island	128	107	38	78	5	356
South Carolina	3,698	390	129	1,636	16	5,869
South Dakota	2,194	88	46	1,430	6	3,764
Tennessee	3,993	496	484	2,305	37	7,315
Texas	13,598	849	794	6,987	50	22,278
Utah	1,030	115	47	809	7	2,008
Vermont	526	81	83	776	52	1,518
Virginia	2,444	604	468	3,561	69	7,146
Washington	3,137	374	319	3,546	114	7,490
West Virginia	2,330	279	361	2,893	108	5,971
Wisconsin	5,476	446	340	3,380	166	9,808
Wyoming	571	113	53	1,084	8	1,829
Puerto Rico	24	0	0	2	0	26
FINAL TOTALS	178,627	19,338	16,711	117,565	3,529	335,770

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	130	0	3	56	3	192
ARR	ALASKA RAILROAD CORPORATION	220	11	6	104	12	353
ALY	ALLEGHANY RAILROAD	111	10	2	84	4	211
ATK	AMTRAK (NATIONAL RAILROAD PASSENGER CORPORA	164	535	483	99	76	1,357
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	252	7	14	97	0	370
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	11,195	716	659	6,626	93	19,289
ASAB	ATLANTA & SAINT ANDREWS BAY RAILWAY COMPANY	137	6	1	70	1	215
AUNW	AUSTIN AND NORTHWESTERN RAILROAD	168	8	7	111	1	295
BOCT	BALTIMORE & OHIO CHICAGO TERMINAL RAILROAD	127	30	84	39	7	287
BAR	BANGOR AND AROOSTOOK RAILROAD	165	11	23	385	7	591
BLE	BESSEMER & LAKE ERIE RAILROAD COMPANY	140	35	49	99	2	325
BLDL	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	104	0	0	49	1	154
BM	BOSTON AND MAINE CORPORATION	964	450	218	505	55	2,192
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	341	49	56	298	7	751
BN	BURLINGTON NORTHERN RAILROAD COMPANY	20,100	1,526	1,194	14,067	346	37,233
CSP	CAMAS PRAIRIE RAILROAD COMPANY	110	2	13	104	2	231
CIC	CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	101	16	6	92	4	219
CVAR	CEDAR VALLEY RAILROAD	191	7	3	104	0	305
CMGN	CENTRAL MICHIGAN RAILWAY COMPANY	491	29	12	247	9	788
CV	CENTRAL VERMONT RAILWAY, INC.	189	55	47	241	8	540
CIM	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	7,110	4	4	65	0	183
CNW	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	7,055	617	769	4,817	188	13,446
CMNW	CHICAGO MISSOURI & WESTERN RAILWAY	647	77	71	373	43	1,211
CSG	CHICAGO SOUTHSORE & SOUTH BEND RAILROAD	126	13	18	78	3	188
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	925	89	79	768	27	1,888
CAGY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	337	4	1	314	3	659
CR	CONSOLIDATED RAIL CORPORATION	14,482	3,357	3,566	8,416	450	30,271
CSX	CSX TRANSPORTATION	23,195	2,717	2,014	15,169	550	43,643
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	879	21	33	618	2	1,553
DH	DELAWARE AND HUDSON RAILROAD COMPANY	357	99	115	586	29	1,186
DRGM	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	877	137	67	682	7	1,770
DOD	DEPARTMENT OF DEFENSE	275	3	5	236	5	524
DM	DETROIT AND MACKINAC RAILWAY COMPANY	430	8	1	207	10	656
DMIR	DULUTH, MISSABE AND IRON RANGE RAILWAY COMP	194	26	33	147	8	408
EJE	ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	202	31	28	102	0	363
ECS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	268	4	2	163	4	441
FCEN	FLORIDA CENTRAL RAILROAD CO.	118	2	4	45	6	175
FEC	FLORIDA EAST COAST RAILWAY COMPANY	702	30	5	80	13	830
GHH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	104	6	7	22	2	141
GSF	GEORGIA SOUTHERN & FLORIDA COMPANY	145	9	1	95	0	250
GSWR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	281	19	3	165	0	468
GNBC	GRAINBELT CORPORATION	255	2	8	92	0	357
GTW	GRAND TRUNK WESTERN RAILROAD COMPANY	1,172	101	178	502	24	1,977
GBW	GREEN BAY AND WESTERN RAILROAD COMPANY	323	10	3	253	0	589
GSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	677	52	29	460	2	1,220
HCRC	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	127	3	2	71	0	203
HBT	HOUSTON BELT & TERMINAL RAILWAY COMPANY	207	25	15	57	5	309
HESR	HURON & EASTERN RAILWAY	112	0	0	89	0	201
IC	ILLINOIS CENTRAL RAILROAD COMPANY	2,981	320	320	1,758	89	5,468
IHRC	INDIANA HI-RAIL CORPORATION	233	6	2	117	2	360
INRD	INDIANA RAIL ROAD COMPANY	125	21	34	90	1	271
IAIS	IOWA INTERSTATE RAILROAD	474	60	43	342	7	926
IANR	IOWA NORTHERN RAILWAY COMPANY	207	5	5	119	0	336
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	1,022	99	77	495	8	1,701
KRR	KIAMICHI RAILROAD COMPANY, INC.	228	4	10	87	0	329
LVRC	LAVILLE VALLEY RAILROAD COMPANY	107	9	8	148	2	274
LI	LONG ISLAND RAIL ROAD	306	294	105	82	88	675
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	726	60	33	569	5	1,393
LDRR	LOUISIANA & DELTA RAILROAD	234	1	0	210	1	445
MDIT	MAINE DEPARTMENT OF TRANSPORTATION	123	16	4	78	1	222
MPA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	109	4	5	21	1	142
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	114	4	0	128	2	248
MMRR	MID-MICHIGAN RAILROAD COMPANY	123	4	0	90	3	220
MSPA	MIDD STATES PORT AUTHORITY	419	19	21	185	1	645
MSRC	MIDSOUTH RAIL CORPORATION	485	72	25	273	2	857
MNHR	MINNESOTA COMMERCIAL RAILWAY	101	0	2	5	0	108
MNVA	MINNESOTA VALLEY TRANSPORTATION COMPANY, IN	104	2	0	101	1	208
MKT	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY	1,984	170	156	876	7	3,193
MRL	MONTANA RAIL LINK	466	52	22	690	4	1,234
NERR	NASHVILLE & EASTERN RAILROAD	208	11	11	155	1	386
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	373	197	296	107	63	1,036
NOPB	NEW ORLEANS PUBLIC BELT RAILROAD	117	6	8	164	2	297
NYSW	NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD	237	22	9	230	4	502
NW	NORFOLK AND WESTERN RAILWAY COMPANY	7,043	735	1,017	5,350	108	14,253
NWP	NORTHWESTERN PACIFIC RAILROAD COMPANY	118	26	4	188	7	343
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	739	36	24	257	1	1,057
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	303	17	8	121	1	450
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	176	12	12	161	1	362
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	274	57	50	224	2	607
PLE	PITTSBURGH & LAKE ERIE RAILROAD COMPANY	109	53	35	114	18	329
PACY	PRAIRIE CENTRAL RAILWAY COMPANY	106	13	2	37	0	158
PARY	PRAIRIE TRUNK RAILWAY	198	1	0	61	1	261
PW	PROVIDENCE AND WORCESTER RAILROAD COMPANY	174	65	46	134	8	427
RRVW	RED RIVER VALLEY & WESTERN RAILROAD	748	4	3	309	0	1,064
SGLR	SEMINOLE GULF RAILROAD	159	7	0	31	0	197
S00	S00 LINE RAILROAD COMPANY	5,186	402	423	3,446	117	9,574
SCRF	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	142	2	1	46	3	194
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	319	9	2	279	1	610
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	262	114	174	75	50	675
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	9,872	985	614	6,742	234	18,447
SOU	SOUTHERN RAILWAY COMPANY	12,079	1,339	792	7,525	66	21,801
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	139	13	2	53	2	209
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	407	83	42	333	6	871
SSW	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	2,069	114	78	834	2	3,097
SUB	STATE SUBSIDY	272	35	31	149	2	489
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	130	13	13	73	1	230
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	148	49	34	15	1	247
TM	TEXAS MEXICAN RAILWAY COMPANY	239	9	2	195	0	445
TSBY	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	613	20	7	245	10	895
UP	UNION PACIFIC RAILROAD COMPANY	18,889	1,352	836	13,068	187	34,332
WCRC	WASHINGTON CENTRAL RAILROAD COMPANY	347	17	13	337	0	714
WW	WINCHESTER AND WESTERN RAILROAD COMPANY	116	7	3	69	0	195
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	146	6	6	164	5	327
WICT	WISCONSIN CALUMET RAILROAD	425	30	14	356	12	837
WC	WISCONSIN CENTRAL LTD. (ALSO RAILWAY)	1,956	86	66	1,135	30	3,273
	All Other Railroads	13,138	1,198	1,220	10,220	340	26,116
FINAL TOTALS		178,627	19,338	16,711	117,565	3,529	355,770

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

State	Urban	Rural	Total
Alabama.....	2,045	2,346	4,391
Alaska.....	88	136	224
Arizona.....	495	477	972
Arkansas.....	1,315	2,112	3,427
California.....	6,068	2,248	8,316
Colorado.....	768	1,438	2,206
Connecticut.....	395	106	501
Delaware.....	79	186	265
Dist of Columbia.	37	---	37
Florida.....	2,509	1,646	4,155
Georgia.....	2,354	4,319	6,673
Hawaii.....	---	6	6
Idaho.....	300	1,422	1,722
Illinois.....	4,085	6,646	10,731
Indiana.....	3,330	4,264	7,594
Iowa.....	1,819	4,198	6,017
Kansas.....	1,553	7,125	8,678
Kentucky.....	853	2,227	3,080
Louisiana.....	2,020	2,326	4,346
Maine.....	231	696	927
Maryland.....	467	166	633
Massachusetts....	846	351	1,197
Michigan.....	2,562	3,687	6,249
Minnesota.....	1,615	4,130	5,745
Mississippi.....	1,085	1,825	2,910
Missouri.....	1,712	3,400	5,112
Montana.....	307	1,310	1,617
Nebraska.....	603	3,637	4,240
Nevada.....	65	207	272
New Hampshire....	231	282	513
New Jersey.....	1,363	550	1,913
New Mexico.....	247	575	822
New York.....	1,558	1,817	3,375
North Carolina...	2,061	2,893	4,954
North Dakota.....	296	4,640	4,936
Ohio.....	3,664	3,873	7,537
Oklahoma.....	317	4,510	4,827
Oregon.....	1,183	1,432	2,615
Pennsylvania.....	2,983	2,760	5,743
Rhode Island.....	123	5	128
South Carolina...	1,352	2,346	3,698
South Dakota.....	261	1,933	2,194
Tennessee.....	1,621	2,372	3,993
Texas.....	7,217	6,381	13,598
Utah.....	566	464	1,030
Vermont.....	168	358	526
Virginia.....	1,145	1,299	2,444
Washington.....	1,443	1,694	3,137
West Virginia....	493	1,837	2,330
Wisconsin.....	2,284	3,192	5,476
Wyoming.....	72	499	571
Puerto Rico.....	---	24	24
Unknown.....	---	---	---
Total.....	70,254	108,373	178,627

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

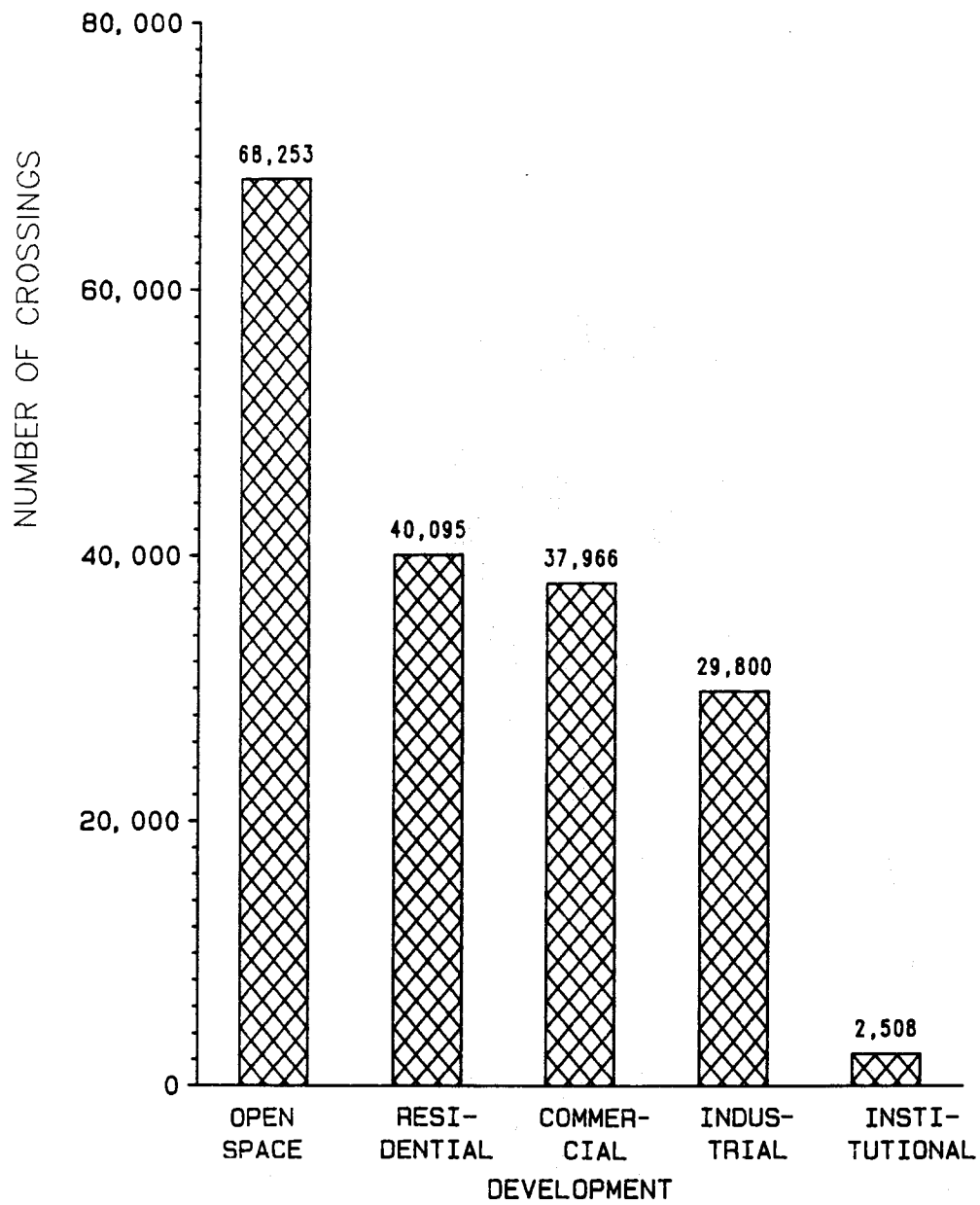


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

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	24	104,899	9,404	319	84	6	7	114,743
1	19,132	22,868	2,752	112	20	---	1	44,885
2	4,346	7,316	1,133	73	18	2	1	12,889
3	1,246	2,160	374	32	14	1	---	3,827
4	344	727	173	12	8	3	1	1,268
5	148	284	77	7	2	1	1	520
>5	137	276	74	2	3	1	2	495
Total	25,377	138,530	13,987	557	149	14	13	178,627

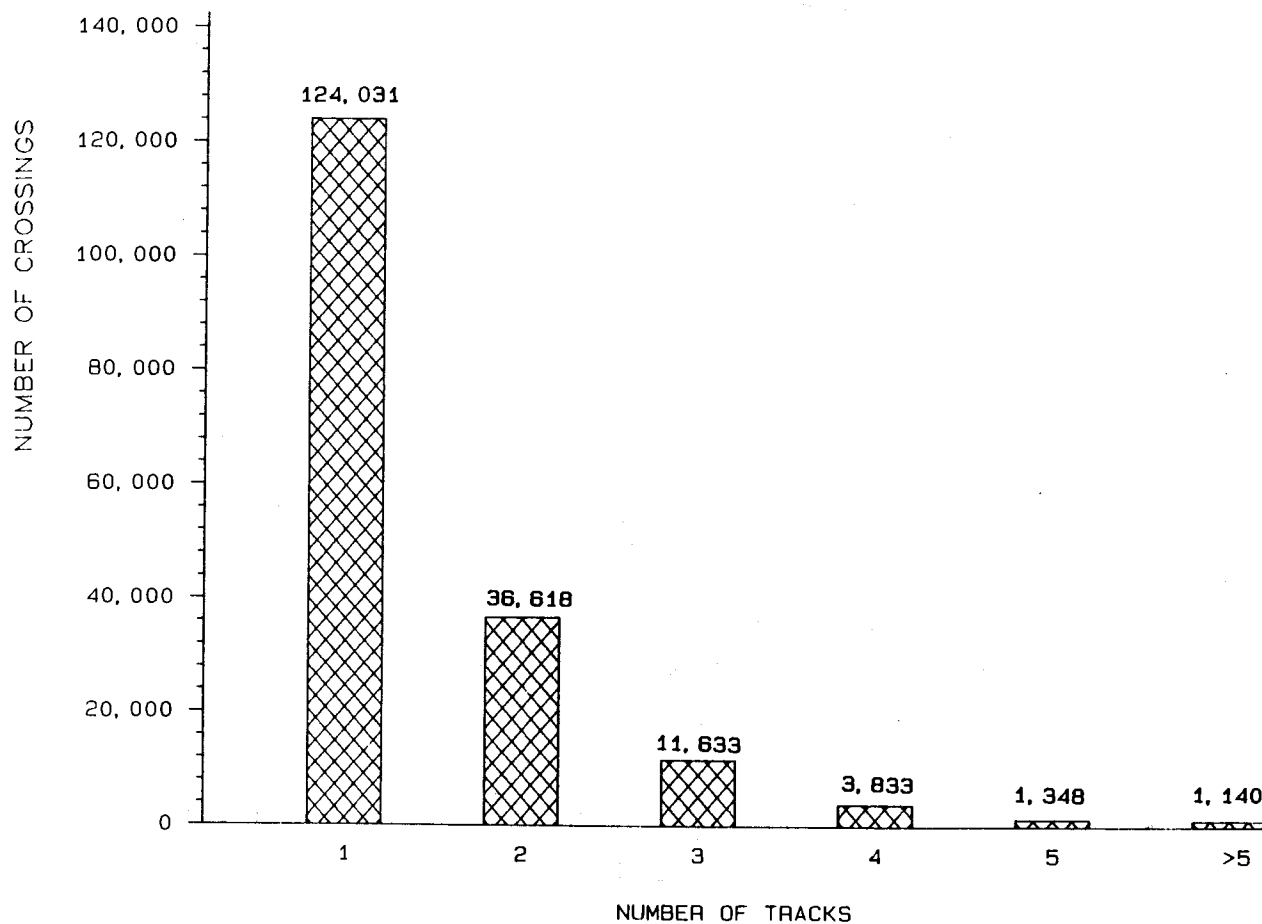


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

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.....	10,462	9,045	3,588	1,347	495	440	25,377
Flashing lights.....	21,413	6,093	2,104	723	260	221	30,814
Hwy. signals, wigwags, balls	1,169	489	170	62	29	15	1,934
Special warning devices.....	3,909	1,082	355	128	57	57	5,588
Crossbucks.....	79,106	18,059	4,904	1,415	441	364	104,289
Stop signs.....	633	172	48	12	5	7	877
Other signs.....	419	121	31	18	1	8	598
No signs or signals.....	6,920	1,557	433	128	60	52	9,150
Total.....	124,031	36,618	11,633	3,833	1,348	1,164	178,627

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

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	22,460	4,484	824	203	49	58	28,078
2	94,047	29,424	9,840	3,283	1,166	987	138,747
3	732	320	104	36	11	13	1,216
4	5,957	2,156	790	291	114	99	9,407
5	357	104	33	10	4	2	510
>5	478	130	42	10	4	5	669
Total	124,031	36,618	11,633	3,833	1,348	1,164	178,627

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

NUMBER OF TRACKS

State	1	2	3	4	5	>5	Total
Alabama.....	3,197	750	294	82	34		4,391
Alaska.....	183	34	6	1		34	224
Arizona.....	702	179	64	16	7	4	972
Arkansas.....	2,369	710	235	65	29	19	3,427
California.....	5,715	1,632	588	198	95	88	8,316
Colorado.....	1,593	434	116	36	14	13	2,206
Connecticut.....	374	93	22	8	4		501
Delaware.....	215	34	10	3	2	1	265
Dist of Columbia.....	28	7	2				37
Florida.....	2,345	1,152	418	121	66	53	4,155
Georgia.....	4,879	1,241	358	125	33	37	6,673
Hawaii.....	6						6
Idaho.....	1,192	329	119	49	15	18	1,722
Illinois.....	6,367	2,932	921	316	106	89	10,731
Indiana.....	5,334	1,698	382	114	37	29	7,594
Iowa.....	4,145	1,181	456	146	45	44	6,017
Kansas.....	6,347	1,426	580	204	63	58	8,678
Kentucky.....	2,030	755	198	66	15	16	3,080
Louisiana.....	3,118	832	257	84	28	27	4,346
Maine.....	723	152	36	11	4	1	927
Maryland.....	479	118	21	9	2	4	633
Massachusetts.....	942	190	41	15	5	4	1,197
Michigan.....	4,316	1,360	342	138	45	48	6,249
Minnesota.....	4,108	1,063	381	114	40	39	5,745
Mississippi.....	1,947	611	211	84	28	29	2,910
Missouri.....	3,378	1,110	415	124	42	43	5,112
Montana.....	1,160	302	104	30	10	11	1,617
Nebraska.....	2,774	951	317	116	48	34	4,240
Nevada.....	179	64	17	4	3	5	272
New Hampshire.....	436	67	7	2	1		513
New Jersey.....	1,372	407	99	18	10	7	1,913
New Mexico.....	575	170	48	18	4	7	822
New York.....	2,322	792	174	54	16	17	3,375
North Carolina.....	3,577	918	284	111	33	31	4,954
North Dakota.....	4,011	659	208	38	17	3	4,936
Ohio.....	4,063	2,310	717	293	91	63	7,537
Oklahoma.....	3,609	735	300	106	39	38	4,827
Oregon.....	1,921	479	171	30	12	2	2,615
Pennsylvania.....	3,745	1,395	373	147	44	39	5,743
Rhode Island.....	86	36	6				128
South Carolina.....	2,697	741	189	38	20	13	3,698
South Dakota.....	1,756	275	110	38	8	7	2,194
Tennessee.....	2,695	875	276	85	31	31	3,993
Texas.....	10,050	2,369	746	260	91	82	13,598
Utah.....	705	206	74	17	21	7	1,030
Vermont.....	426	76	17	3		4	526
Virginia.....	1,576	589	187	63	18	11	2,444
Washington.....	2,219	582	225	68	22	21	3,137
West Virginia.....	1,664	471	152	27	6	10	2,330
Wisconsin.....	3,974	999	320	120	40	23	5,476
Wyoming.....	388	122	39	18	4		571
Puerto Rico.....	19	5					24
Unknown.....							
Total.....	124,031	36,618	11,633	3,833	1,348	1,164	178,627

HIGHWAY SYSTEM DATA

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

State	01	02	03	04	08	Total
Alabama.....	---	211	422	330	3,428	4,391
Alaska.....	7	10	15	21	171	224
Arizona.....	12	29	185	73	673	972
Arkansas.....	2	138	1,026	167	2,094	3,427
California.....	---	975	1,034	621	5,686	8,316
Colorado.....	---	86	392	103	1,625	2,206
Connecticut.....	---	30	186	20	265	501
Delaware.....	---	34	12	114	105	265
Dist of Columbia.....	---	4	---	2	31	37
Florida.....	---	299	776	121	2,959	4,155
Georgia.....	---	419	167	806	5,281	6,673
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	42	103	139	1,438	1,722
Illinois.....	1	647	1,438	805	7,840	10,731
Indiana.....	---	275	465	1,332	5,522	7,594
Iowa.....	3	347	774	543	4,350	6,017
Kansas.....	---	347	433	1,148	6,750	8,678
Kentucky.....	2	88	269	264	2,457	3,080
Louisiana.....	5	163	448	325	3,405	4,346
Maine.....	---	79	18	97	733	927
Maryland.....	---	15	21	10	587	633
Massachusetts.....	---	116	315	122	644	1,197
Michigan.....	4	278	731	946	4,290	6,249
Minnesota.....	1	212	119	907	4,506	5,745
Mississippi.....	---	130	401	298	2,081	2,910
Missouri.....	3	101	251	608	4,149	5,112
Montana.....	1	66	73	125	1,352	1,617
Nebraska.....	---	209	265	479	3,287	4,240
Nevada.....	---	15	11	23	223	272
New Hampshire.....	---	8	155	43	307	513
New Jersey.....	---	66	195	160	1,492	1,913
New Mexico.....	---	22	61	57	682	822
New York.....	---	201	25	578	2,571	3,375
North Carolina.....	---	111	211	366	4,266	4,954
North Dakota.....	4	190	113	497	4,132	4,936
Ohio.....	---	303	1,054	680	5,500	7,537
Oklahoma.....	---	153	311	396	3,967	4,827
Oregon.....	---	141	308	276	1,890	2,615
Pennsylvania.....	132	576	1,044	814	3,177	5,743
Rhode Island.....	---	6	44	14	64	128
South Carolina.....	1	249	227	430	2,791	3,698
South Dakota.....	---	99	90	264	1,741	2,194
Tennessee.....	---	170	14	369	3,440	3,993
Texas.....	84	360	1,446	854	10,854	13,598
Utah.....	1	14	5	136	874	1,030
Vermont.....	---	50	30	64	382	526
Virginia.....	---	105	332	382	1,625	2,444
Washington.....	---	108	178	432	2,419	3,137
West Virginia.....	---	146	48	401	1,735	2,330
Wisconsin.....	---	348	869	450	3,809	5,476
Wyoming.....	---	30	30	48	463	571
Puerto Rico.....	---	6	---	2	16	24
Unknown.....	---	---	---	---	---	---
Total.....	263	8,827	17,140	18,262	134,135	178,627

HIGHWAY SYSTEM CODES

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

See Appendix A for explanation of revision in codes.

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE

HIGHWAY SYSTEM GROUP			
State	On-State	Off-State	Total
Alabama.....	299	4,092	4,391
Alaska.....	81	143	224
Arizona.....	51	921	972
Arkansas.....	571	2,856	3,427
California.....	340	7,976	8,316
Colorado.....	247	1,959	2,206
Connecticut.....	90	411	501
Delaware.....	254	11	265
Dist of Columbia.	36	1	37
Florida.....	468	3,687	4,155
Georgia.....	781	5,892	6,673
Hawaii.....	---	6	6
Idaho.....	121	1,601	1,722
Illinois.....	1,343	9,388	10,731
Indiana.....	692	6,902	7,594
Iowa.....	355	5,662	6,017
Kansas.....	478	8,200	8,678
Kentucky.....	866	2,214	3,080
Louisiana.....	947	3,399	4,346
Maine.....	185	742	927
Maryland.....	103	530	633
Massachusetts....	45	1,152	1,197
Michigan.....	374	5,875	6,249
Minnesota.....	320	5,425	5,745
Mississippi.....	281	2,629	2,910
Missouri.....	747	4,365	5,112
Montana.....	242	1,375	1,617
Nebraska.....	323	3,917	4,240
Nevada.....	56	216	272
New Hampshire....	116	397	513
New Jersey.....	193	1,720	1,913
New Mexico.....	179	643	822
New York.....	347	3,028	3,375
North Carolina...	3,156	1,798	4,954
North Dakota.....	235	4,701	4,936
Ohio.....	1,003	6,534	7,537
Oklahoma.....	370	4,457	4,827
Oregon.....	151	2,464	2,615
Pennsylvania.....	1,853	3,890	5,743
Rhode Island.....	46	82	128
South Carolina...	2,616	1,082	3,698
South Dakota.....	150	2,044	2,194
Tennessee.....	269	3,724	3,993
Texas.....	2,271	11,327	13,598
Utah.....	110	920	1,030
Vermont.....	130	396	526
Virginia.....	1,502	942	2,444
Washington.....	175	2,962	3,137
West Virginia....	1,418	912	2,330
Wisconsin.....	428	5,048	5,476
Wyoming.....	84	487	571
Puerto Rico.....	19	5	24
Unknown.....	---	---	---
Total.....	27,517	151,110	178,627

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

Rural	Crossings	Urban	Crossings
Interstate.....	30	Interstate.....	151
Other principal arterial	1,325	Other freeway/expressway	419
Minor arterial.....	3,893	Other principal arterial	6,780
Major collector.....	12,750	Minor arterial.....	11,838
Minor collector.....	10,446	Collector.....	11,817
Local.....	79,929	Local.....	39,249
Total.....	108,373	Total.....	70,254

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

State	NUMBER OF LANES (BOTH DIRECTIONS)						Total
	1	2	3	4	5	>5	
Alabama.....	873	3,256	26	217	8	11	4,391
Alaska.....	10	196	2	14	2	---	224
Arizona.....	18	814	14	89	21	16	972
Arkansas.....	760	2,583	16	63	4	1	3,427
California.....	438	5,768	182	1,569	148	211	8,316
Colorado.....	177	1,853	22	137	11	6	2,206
Connecticut.....	28	440	8	22	3	---	501
Delaware.....	2	239	5	18	---	1	265
Dist of Columbia.	1	30	1	2	1	2	37
Florida.....	165	3,438	77	371	31	73	4,155
Georgia.....	1,337	5,084	31	207	8	6	6,673
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	446	1,214	9	49	2	2	1,722
Illinois.....	2,171	7,808	51	665	15	21	10,731
Indiana.....	1,357	5,821	55	332	11	18	7,594
Iowa.....	724	5,031	42	211	5	4	6,017
Kansas.....	2,134	6,240	8	293	1	2	8,678
Kentucky.....	1,017	2,005	8	50	---	---	3,080
Louisiana.....	650	3,425	20	222	12	17	4,346
Maine.....	47	866	3	11	---	---	927
Maryland.....	74	512	4	36	2	5	633
Massachusetts....	43	1,089	8	56	1	---	1,197
Michigan.....	440	5,166	60	511	32	40	6,249
Minnesota.....	890	4,569	16	265	3	2	5,745
Mississippi.....	371	2,430	8	95	2	4	2,910
Missouri.....	1,219	3,743	13	128	6	3	5,112
Montana.....	203	1,384	3	25	2	---	1,617
Nebraska.....	910	3,248	8	72	---	2	4,240
Nevada.....	89	160	1	21	---	1	272
New Hampshire....	32	459	2	17	2	1	513
New Jersey.....	103	1,665	13	126	---	6	1,913
New Mexico.....	269	511	1	35	3	3	822
New York.....	312	2,918	23	116	3	3	3,375
North Carolina...	283	4,422	37	190	13	9	4,954
North Dakota.....	1,100	3,805	---	31	---	---	4,936
Ohio.....	974	6,208	53	284	7	11	7,537
Oklahoma.....	901	3,650	7	262	4	3	4,827
Oregon.....	326	2,125	52	85	24	3	2,615
Pennsylvania.....	881	4,532	119	182	2	27	5,743
Rhode Island....	2	102	---	24	---	---	128
South Carolina...	436	3,013	4	232	5	8	3,698
South Dakota.....	657	1,490	---	40	4	3	2,194
Tennessee.....	724	3,022	20	204	15	8	3,993
Texas.....	2,361	9,859	75	1,145	56	102	13,598
Utah.....	193	770	---	62	1	4	1,030
Vermont.....	117	397	5	7	---	---	526
Virginia.....	31	2,276	23	94	10	10	2,444
Washington.....	278	2,533	57	231	29	9	3,137
West Virginia....	1,150	1,159	9	11	---	1	2,330
Wisconsin.....	230	4,976	13	247	---	10	5,476
Wyoming.....	123	414	2	31	1	---	571
Puerto Rico.....	1	23	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	28,078	138,747	1,216	9,407	510	669	178,627

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.....	559	20,662	399	3,205	256	296	25,377
Flashing lights.....	736	25,965	356	3,361	178	218	30,814
Hwy. signals, wigwags, bells	149	1,485	46	209	14	31	1,934
Special warning devices.....	381	4,578	106	480	17	26	5,588
Crossbucks.....	23,722	78,492	235	1,725	35	80	104,289
Stop signs.....	169	676	5	25	---	2	877
Other signs.....	143	430	3	20	---	2	598
No signs or signals.....	2,219	6,459	66	382	10	14	9,150
Total.....	28,078	138,747	1,216	9,407	510	669	178,627

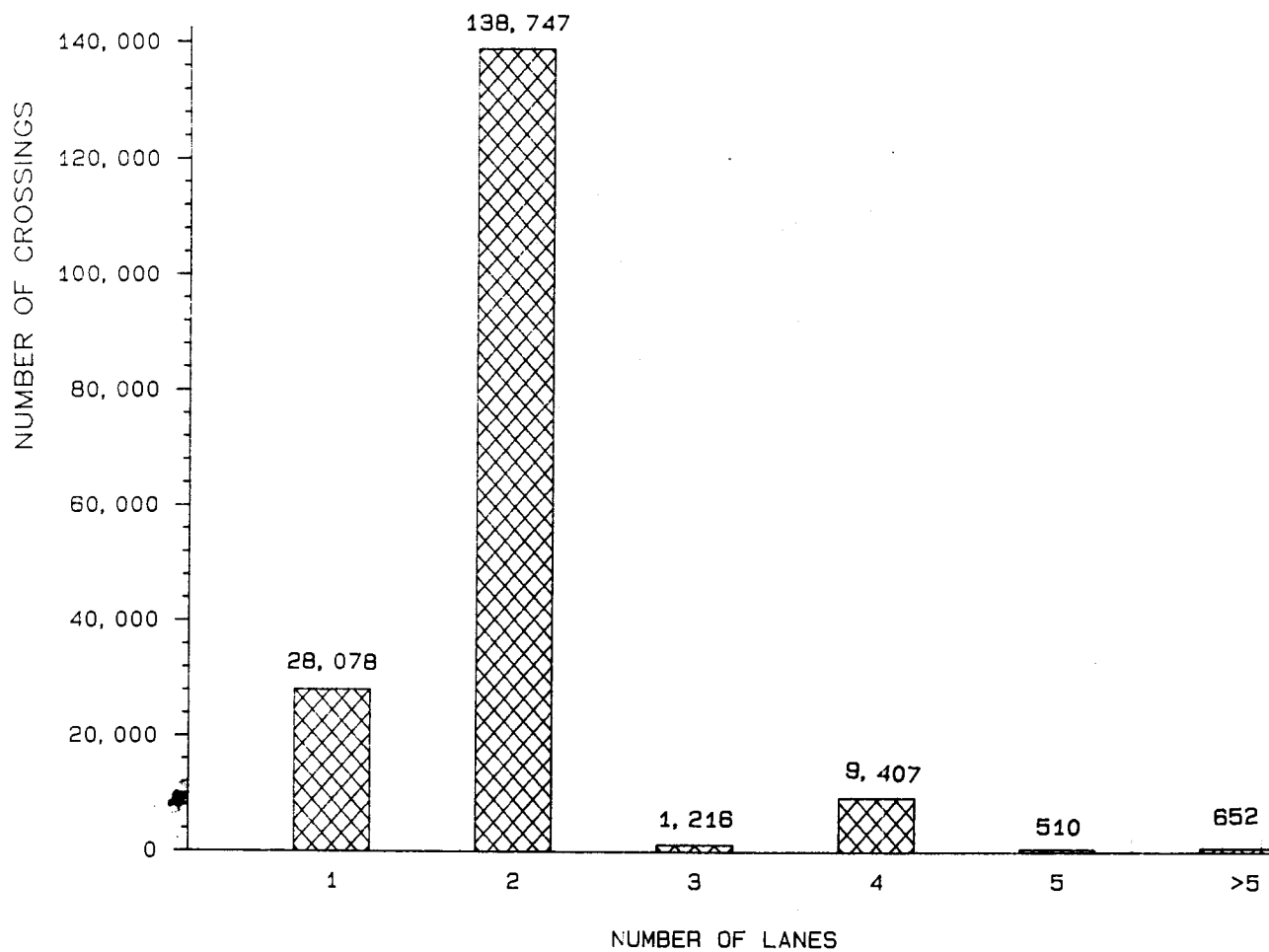


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

WARNING DEVICE DATA

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	Total
Alabama.....	222	622	22	55	2,991	65	10	404	4,391
Alaska.....	16	61	---	6	128	4	---	9	224
Arizona.....	286	83	10	71	492	3	---	27	972
Arkansas.....	269	467	24	77	2,444	5	---	141	3,427
California.....	3,083	1,103	338	175	3,376	50	18	173	8,316
Colorado.....	249	314	41	37	1,453	7	3	102	2,206
Connecticut.....	71	162	7	88	62	8	2	101	501
Delaware.....	35	140	2	22	60	---	---	6	265
Dist of Columbia.	---	4	---	4	20	5	1	3	37
Florida.....	1,940	708	24	111	1,268	20	8	76	4,155
Georgia.....	1,329	423	17	165	4,325	8	7	399	6,673
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	77	201	9	6	1,216	74	5	134	1,722
Illinois.....	1,957	2,678	150	260	5,237	1	4	444	10,731
Indiana.....	1,032	1,900	115	208	4,097	19	11	212	7,594
Iowa.....	558	1,028	56	76	4,106	5	3	185	6,017
Kansas.....	586	762	77	205	6,851	2	2	193	8,678
Kentucky.....	346	852	13	70	1,564	4	---	231	3,080
Louisiana.....	286	782	17	63	2,735	29	25	409	4,346
Maine.....	68	377	1	95	380	1	1	4	927
Maryland.....	74	174	12	32	295	3	7	36	633
Massachusetts....	189	455	36	226	235	2	3	51	1,197
Michigan.....	743	1,553	48	158	3,645	8	4	90	6,249
Minnesota.....	524	698	13	33	4,280	37	2	158	5,745
Mississippi.....	94	400	15	47	1,868	209	12	265	2,910
Missouri.....	414	1,056	84	98	3,181	13	1	265	5,112
Montana.....	146	193	3	17	1,158	7	2	91	1,617
Nebraska.....	580	323	8	16	3,118	15	1	179	4,240
Nevada.....	90	24	1	4	144	1	1	7	272
New Hampshire....	31	143	11	115	181	7	7	18	513
New Jersey.....	397	650	27	286	440	---	2	111	1,913
New Mexico.....	155	101	6	9	525	---	5	21	822
New York.....	1,288	694	78	264	940	3	21	87	3,375
North Carolina...	800	750	11	228	2,688	18	18	441	4,954
North Dakota.....	314	137	1	2	4,254	3	---	225	4,936
Ohio.....	1,112	1,731	56	96	4,280	10	7	245	7,537
Oklahoma.....	336	768	30	116	3,450	3	8	116	4,827
Oregon.....	532	152	58	106	1,441	66	62	198	2,615
Pennsylvania.....	705	1,262	121	673	2,130	75	294	483	5,743
Rhode Island.....	15	33	19	23	11	5	---	22	128
South Carolina...	363	557	4	268	2,375	3	4	124	3,698
South Dakota.....	12	169	3	---	1,927	1	1	81	2,194
Tennessee.....	234	651	18	260	2,046	26	2	756	3,993
Texas.....	2,006	2,233	76	113	8,366	24	14	766	13,598
Utah.....	133	179	7	88	535	4	5	79	1,030
Vermont.....	28	207	4	39	247	---	---	1	526
Virginia.....	602	507	19	189	960	1	4	162	2,444
Washington.....	336	443	33	52	1,951	10	4	308	3,137
West Virginia....	180	452	7	40	1,336	8	4	303	2,330
Wisconsin.....	432	1,313	199	176	3,170	3	2	181	5,476
Wyoming.....	98	138	2	2	301	2	1	27	571
Puerto Rico.....	4	1	1	18	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	25,377	30,814	1,934	5,588	104,289	877	598	9,150	178,627

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							No Signs Or	Total
Railroad	Gates	Flashing Lights	Hwy. Sig. Hicwags Balls	Special	Cross-Bucks	Stop Signs	Other Signs	Signals		
AFLR	ALABAMA AND FLORIDA RAILROAD	1	9	0	0	112	0	0	8	130
ARR	ALASKA RAILROAD CORPORATION	16	61	0	6	125	4	0	8	220
ALY	ALLEGHANY RAILROAD	8	30	1	0	51	9	8	4	111
ATK	AMTRAK (NATIONAL RAILROAD PASSENGER CORPORA	117	11	0	8	22	0	4	2	164
AM	ARKANSAS AND MISSOURI RAILROAD COMPANY	4	34	4	3	197	7	0	10	252
ATSF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPA	1,979	1,480	161	459	7,058	2	10	41	11,195
ASAB	ATLANTA & SAINT ANDREWS BAY RAILWAY COMPANY	21	34	0	0	76	1	3	1	137
AUNH	AUSTIN AND NORTHWESTERN RAILROAD	28	26	1	0	97	1	0	13	168
BOCT	BALTIMORE & OHIO CHICAGO TERMINAL RAILROAD	41	43	1	19	19	0	0	0	127
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
DLOL	BLOOMER SHIPPERS CONNECTING RAILROAD CO.	0	2	0	0	101	0	0	1	104
BM	BOSTON AND MAINE CORPORATION	200	224	22	190	273	1	4	50	964
BPRR	BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	37	80	4	12	200	1	1	6	341
BN	BURLINGTON NORTHERN RAILROAD COMPANY	2,433	2,519	103	225	13,973	95	36	716	20,100
CSP	CANAS PRAIRIE RAILROAD COMPANY	4	8	0	0	98	0	0	0	110
CTC	CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	1	28	0	15	50	0	0	7	101
CVAR	CEDAR VALLEY RAILROAD	1	24	1	17	148	0	0	0	191
CMGN	CENTRAL MICHIGAN RAILWAY COMPANY	16	170	5	29	265	0	0	6	491
CV	CENTRAL VERMONT RAILWAY, INC.	21	103	1	0	60	1	1	2	189
CTM	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY	6	43	1	1	59	0	0	0	110
CNM	CHICAGO AND NORTH WESTERN TRANSPORTATION CO	708	1,359	207	105	4,385	5	4	282	7,055
CMNH	CHICAGO MISSOURI & WESTERN RAILWAY	105	168	36	3	322	0	0	13	647
CSS	CHICAGO SOUTHWESTERN & SOUTH BEND RAILROAD	35	44	7	0	38	1	0	1	126
CC	CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	63	262	16	33	516	2	0	33	925
CAGY	COLUMBUS AND GREENVILLE RAILWAY COMPANY	3	51	0	5	257	14	0	7	337
CR	CONSOLIDATED RAIL CORPORATION	2,693	3,822	220	1,179	5,255	73	276	964	14,482
CSX	CSX TRANSPORTATION	3,825	4,524	109	714	12,585	83	28	1,325	23,193
DME	DAKOTA, MINNESOTA & EASTERN RAILROAD	6	114	3	0	723	2	0	31	879
DH	DELAWARE AND HUDSON RAILROAD COMPANY	159	96	4	9	81	1	5	2	357
DRGH	DENVER AND RIO GRANDE WESTERN RAILROAD COMP	104	176	2	8	534	3	3	47	877
DOD	DEPARTMENT OF DEFENSE	27	54	1	53	114	1	15	10	275
DM	DETROIT AND MACKINAC RAILWAY COMPANY	0	62	4	0	364	0	0	0	430
DMIR	DULUTH, MISSABE AND IRON RANGE RAILWAY COMP	8	38	0	2	144	1	1	0	194
EJE	ELGIN, JOLIET AND EASTERN RAILWAY COMPANY	78	65	2	10	47	0	0	0	202
ELS	ESCANABA AND LAKE SUPERIOR RAILROAD COMPANY	3	65	1	45	149	0	1	4	268
FCEN	FLORIDA CENTRAL RAILROAD CO.	19	14	0	1	83	0	0	1	118
FEC	FLORIDA EAST COAST RAILWAY COMPANY	598	30	0	27	40	0	0	7	702
GHH	GALVESTON, HOUSTON & HENDERSON RAILROAD COM	29	26	0	0	25	1	0	23	104
GSF	GEORGIA SOUTHERN & FLORIDA COMPANY	30	38	0	6	70	1	0	0	145
GSHR	GEORGIA SOUTHWESTERN RAILROAD DIVISION	28	16	4	0	222	0	0	11	281
GNBC	GRAINBELT CORPORATION	0	20	0	0	233	0	0	2	255
GTN	GRAND TRUNK WESTERN RAILROAD COMPANY	371	273	3	47	474	1	0	3	1,172
GBW	GREEN BAY AND WESTERN RAILROAD COMPANY	8	87	0	0	25	0	0	3	323
GSMR	GULF AND MISSISSIPPI RAILROAD CORPORATION	1	39	0	1	551	33	2	50	677
HCRC	HILLSDALE COUNTY RAILWAY COMPANY, INCORPORA	0	24	2	0	98	0	2	1	127
HBT	HOUSTON BELT & TERMINAL RAILWAY COMPANY	64	34	2	0	83	0	0	24	207
HESR	HURON & EASTERN RAILWAY	0	7	0	0	102	0	0	3	112
IC	ILLINOIS CENTRAL RAILROAD COMPANY	304	586	28	69	1,695	78	5	216	2,981
IHRC	INDIANA HI-RAIL CORPORATION	7	65	12	0	142	1	0	6	233
INRD	INDIANA RAIL ROAD COMPANY	0	20	9	0	90	0	0	6	125
IAIS	IOWA INTERSTATE RAILROAD	101	77	9	0	286	0	0	1	474
IANR	IOWA NORTHERN RAILWAY COMPANY	6	47	0	0	144	0	0	10	207
KCS	KANSAS CITY SOUTHERN RAILWAY COMPANY	65	181	3	0	691	0	6	76	1,022
KRR	KIAMICHI RAILROAD COMPANY, INC.	1	21	0	3	199	0	0	4	228
LVRC	LAMOILLE VALLEY RAILROAD COMPANY	1	31	0	0	75	0	0	0	107
LI	LONG ISLAND RAIL ROAD	298	0	0	0	7	0	0	1	306
LA	LOUISIANA & ARKANSAS RAILWAY COMPANY	32	173	0	0	490	0	0	31	726
LDRR	LOUISIANA & DELTA RAILROAD	22	11	1	0	168	2	0	30	234
MDTT	MAINE DEPARTMENT OF TRANSPORTATION	0	51	0	13	58	1	0	0	123
MFA	MARYLAND AND PENNSYLVANIA RAILROAD COMPANY	18	17	0	0	59	8	5	2	109
MRR	MID-ATLANTIC RAILROAD COMPANY, INCORPORATED	4	8	0	3	95	0	0	4	114
MRRR	MID-MICHIGAN RAILROAD COMPANY	3	24	4	1	89	0	0	2	123
MSPA	MIDD STATES PORT AUTHORITY	14	31	1	0	362	0	1	10	419
MSRC	MIDSOUTH RAIL CORPORATION	8	88	3	0	296	38	0	52	485
MNRR	MINNESOTA COMMERCIAL RAILWAY	1	16	0	0	71	0	0	13	101
MNVA	MINNESOTA VALLEY TRANSPORTATION COMPANY, IN	0	2	0	0	99	0	0	3	104
MKT	MISSOURI-KANSAS-TEXAS RAILROAD COMPANY	257	376	15	4	1,221	2	1	108	1,984
MRL	MONTANA RAIL LINK	49	72	2	0	318	3	0	22	466
NERR	NASHVILLE & EASTERN RAILROAD	0	30	1	3	143	0	0	31	298
NJTR	NEW JERSEY TRANSIT RAIL OPERATIONS	211	107	1	11	35	5	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	77	79	15	13	43	0	10	237	
NW	NORFOLK AND WESTERN RAILWAY COMPANY	1,077	1,696	77	160	3,833	8	7	185	7,043
NWP	NORTHWESTERN PACIFIC RAILROAD COMPANY	67	15	4	0	29	0	0	3	739
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION	24	91	0	0	567	0	0	57	1,118
OKKT	OKLAHOMA KANSAS & TEXAS RAILROAD COMPANY	19	48	0	0	225	0	0	7	303
OTVR	OTTER TAIL VALLEY RAILROAD CO., INC.	10	31	0	0	127	1	0	1	176
PAL	PADUCAH & LOUISVILLE RAILWAY COMPANY	18	96	4	0	146	1	0	9	274
PLE	PITTSBURGH & LAKE ERIE RAILROAD COMPANY	18	10	2	3	62	0	0	14	109
PACY	PRAIRIE CENTRAL RAILWAY COMPANY	1	16	0	0	88	0	0	0	106
PARY	PRAIRIE TRUNK RAILWAY	0	26	0	0	165	0	0	6	198
PW	PROVIDENCE AND WORCESTER RAILROAD COMPANY	23	79	6	19	24	3	0	20	174
RRVH	RED RIVER VALLEY & WESTERN RAILROAD	14	22	0	0	660	1	0	51	748
SGLR	SEMINOLE GULF RAILROAD	56	34	0	0	67	0	0	2	159
SOD	SOO LINE RAILROAD COMPANY	460	665	49	99	3,662	13	0	238	5,186
SCRF	SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	1	16	0	21	99	0	0	5	142
SDRR	SOUTH DAKOTA RAILROAD AUTHORITY	2	10	0	0	272	0	0	35	319
SEPA	SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AU	50	77	21	18	33	16	2	45	262
SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY	3,076	1,172	294	35	4,761	55	19	460	9,872
SOU	SOUTHERN RAILWAY COMPANY	1,630	1,686	35	458	6,822	30	19	1,399	12,079
SI	SPOKANE INTERNATIONAL RAILROAD COMPANY	9	9	1	0	100	8	1	11	139
ST	SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMO	58	179	1	44	123	0	1	1	407
SSW	ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	226	280	6	10	1,427	3	0	117	2,069
SUB	STATE SUBSIDY	5	95	25	16	108	3	10	10	272
TSRR	TENNESSEE SOUTHERN RAILROAD COMPANY, INCORP	2	19	1	0	88	2	0	18	130
TRRA	TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS	42	16	0	59	27	1	0	3	148
TM	TEXAS MEXICAN RAILWAY COMPANY	1	62	0	11	156	1	0	8	239
TSBY	TUSCOLA AND SAGINAW BAY RAILROAD COMPANY, I	2	79	8	1	517	0	1	5	613
UP	UNION PACIFIC RAILROAD COMPANY	2,054	2,707	133	236	12,498	91	26	1,144	18,889
WCRC	WASHINGTON CENTRAL RAILROAD COMPANY	26	43	4	0	253	0	0	21	347
HW	WINCHESTER AND WESTERN RAILROAD COMPANY	1	28	1	24	61	0	0	1	116
WSRY	WISCONSIN AND SOUTHERN RAILWAY COMPANY	0	22	3	0	114	0	0	7	146
WICT	WISCONSIN CALUMET RAILROAD	1	82	21	7	299	0	0	15	425
MC	WISCONSIN CENTRAL L'D. (ALSO RAILWAY)	126	496	18	28	1,258	2	1	27	1,956
FINAL TOTALS	All Other Railroads	855	2,226	186	977	7,893	157	72	772	13,138
		25,377	30,814	1,934	5,588	104,289	877	598	9,150	178,627

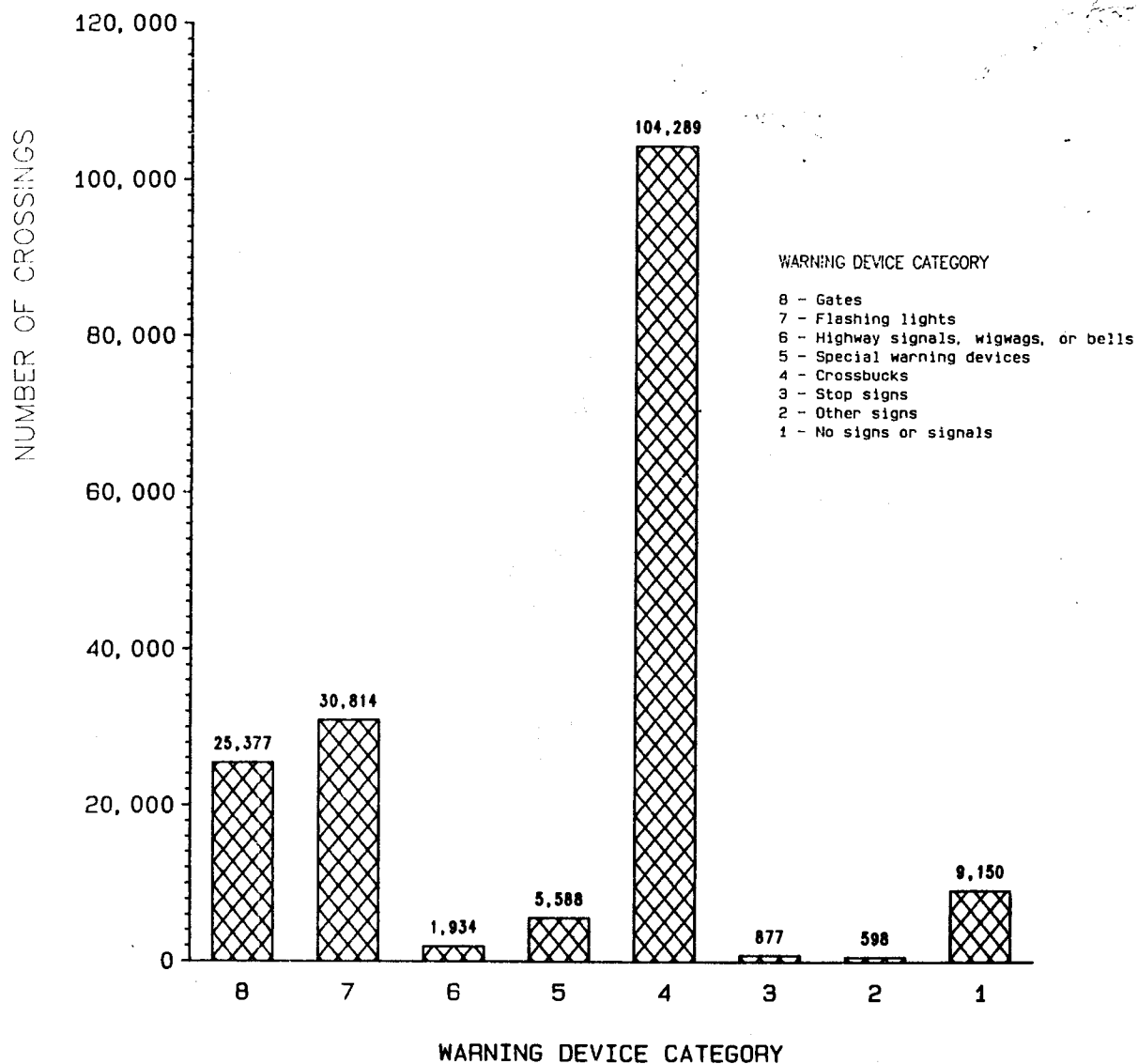


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

State	PAVEMENT MARKING					Total
	Stop Lines	RR X-ing Symbol	BothNone..... Paved	Unpaved	
Alabama.....	43	135	211	2,985	1,017	4,391
Alaska.....	9	11	54	64	86	224
Arizona.....	40	19	374	284	255	972
Arkansas.....	57	117	260	1,740	1,253	3,427
California.....	1,047	210	4,828	1,914	317	8,316
Colorado.....	21	37	254	1,062	832	2,206
Connecticut.....	18	5	102	370	6	501
Delaware.....	4	22	124	108	7	265
Dist of Columbia.	---	---	23	14	---	37
Florida.....	280	377	1,869	1,172	457	4,155
Georgia.....	61	105	2,908	1,845	1,754	6,673
Hawaii.....	2	---	---	4	---	6
Idaho.....	4	5	277	761	675	1,722
Illinois.....	78	134	1,303	4,493	4,723	10,731
Indiana.....	115	437	1,277	4,573	1,192	7,594
Iowa.....	56	147	568	2,304	2,942	6,017
Kansas.....	5	30	875	2,321	5,447	8,678
Kentucky.....	53	379	762	1,083	803	3,080
Louisiana.....	41	241	585	2,383	1,096	4,346
Maine.....	1	3	568	270	85	927
Maryland.....	6	20	228	337	42	633
Massachusetts....	55	45	118	945	34	1,197
Michigan.....	89	115	819	3,511	1,715	6,249
Minnesota.....	127	179	498	2,113	2,828	5,745
Mississippi.....	23	40	455	1,562	830	2,910
Missouri.....	67	116	550	2,235	2,144	5,112
Montana.....	4	7	58	519	1,029	1,617
Nebraska.....	32	274	188	1,045	2,701	4,240
Nevada.....	5	4	104	57	102	272
New Hampshire....	9	28	59	364	53	513
New Jersey.....	39	210	166	1,395	103	1,913
New Mexico.....	5	24	44	346	403	822
New York.....	127	203	432	2,325	288	3,375
North Carolina...	43	21	3,684	577	629	4,954
North Dakota.....	17	16	144	658	4,101	4,936
Ohio.....	472	619	3,611	2,233	602	7,537
Oklahoma.....	27	90	163	2,356	2,191	4,827
Oregon.....	376	946	145	632	516	2,615
Pennsylvania.....	64	360	150	4,546	623	5,743
Rhode Island.....	---	---	80	48	---	128
South Carolina...	96	118	1,112	1,807	565	3,698
South Dakota.....	23	7	143	553	1,468	2,194
Tennessee.....	17	30	232	2,797	917	3,993
Texas.....	21	13	6,368	3,630	3,566	13,598
Utah.....	16	23	182	575	234	1,030
Vermont.....	38	10	98	225	155	526
Virginia.....	99	95	1,026	979	245	2,444
Washington.....	122	65	559	1,739	652	3,137
West Virginia....	25	15	105	1,423	762	2,330
Wisconsin.....	69	37	543	4,145	682	5,476
Wyoming.....	7	23	55	160	326	571
Puerto Rico.....	3	7	---	12	2	24
Unknown.....	---	---	---	---	---	---
Total.....	4,058	6,174	39,341	75,599	53,455	178,627

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.....	907	3,484	4,391
Alaska.....	163	61	224
Arizona.....	554	418	972
Arkansas.....	905	2,522	3,427
California.....	6,645	1,671	8,316
Colorado.....	1,173	1,033	2,206
Connecticut.....	242	259	501
Delaware.....	231	34	265
Dist of Columbia.	22	15	37
Florida.....	2,577	1,578	4,155
Georgia.....	3,310	3,363	6,673
Hawaii.....	1	5	6
Idaho.....	1,479	243	1,722
Illinois.....	5,497	5,234	10,731
Indiana.....	6,436	1,158	7,594
Iowa.....	4,017	2,000	6,017
Kansas.....	4,059	4,619	8,678
Kentucky.....	1,525	1,555	3,080
Louisiana.....	2,699	1,647	4,346
Maine.....	912	15	927
Maryland.....	398	235	633
Massachusetts....	883	314	1,197
Michigan.....	4,468	1,781	6,249
Minnesota.....	3,546	2,199	5,745
Mississippi.....	693	2,217	2,910
Missouri.....	1,583	3,529	5,112
Montana.....	914	703	1,617
Nebraska.....	2,982	1,258	4,240
Nevada.....	210	62	272
New Hampshire....	300	213	513
New Jersey.....	876	1,037	1,913
New Mexico.....	172	650	822
New York.....	2,658	717	3,375
North Carolina...	3,823	1,131	4,954
North Dakota.....	1,700	3,236	4,936
Ohio.....	4,778	2,759	7,537
Oklahoma.....	1,359	3,468	4,827
Oregon.....	1,022	1,593	2,615
Pennsylvania.....	2,118	3,625	5,743
Rhode Island.....	81	47	128
South Carolina...	2,271	1,427	3,698
South Dakota.....	1,484	710	2,194
Tennessee.....	680	3,313	3,993
Texas.....	10,446	3,152	13,598
Utah.....	591	439	1,030
Vermont.....	439	87	526
Virginia.....	1,727	717	2,444
Washington.....	2,258	879	3,137
West Virginia....	521	1,809	2,330
Wisconsin.....	3,303	2,173	5,476
Wyoming.....	300	271	571
Puerto Rico.....	17	7	24
Unknown.....	---	---	---
Total.....	101,955	76,672	178,627

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.....	866	1,518	2,007	4,391
Alaska.....	77	109	38	224
Arizona.....	379	471	122	972
Arkansas.....	760	1,877	790	3,427
California.....	4,524	1,729	2,063	8,316
Colorado.....	604	1,123	479	2,206
Connecticut.....	240	111	150	501
Delaware.....	177	63	25	265
Dist of Columbia.....	4	20	13	37
Florida.....	2,672	1,047	436	4,155
Georgia.....	1,769	3,830	1,074	6,673
Hawaii.....	---	4	2	6
Idaho.....	287	860	575	1,722
Illinois.....	4,785	4,583	1,363	10,731
Indiana.....	3,047	3,730	817	7,594
Iowa.....	1,642	3,267	1,108	6,017
Kansas.....	1,425	3,106	4,147	8,678
Kentucky.....	1,211	1,360	509	3,080
Louisiana.....	1,085	2,455	806	4,346
Maine.....	446	459	22	927
Maryland.....	260	188	185	633
Massachusetts.....	680	303	214	1,197
Michigan.....	2,344	3,543	362	6,249
Minnesota.....	1,235	4,035	475	5,745
Mississippi.....	509	1,473	928	2,910
Missouri.....	1,554	1,888	1,670	5,112
Montana.....	342	738	537	1,617
Nebraska.....	911	2,842	487	4,240
Nevada.....	115	91	66	272
New Hampshire.....	185	213	115	513
New Jersey.....	1,074	338	501	1,913
New Mexico.....	262	305	255	822
New York.....	2,060	935	380	3,375
North Carolina.....	1,561	1,740	1,653	4,954
North Dakota.....	452	3,001	1,483	4,936
Ohio.....	2,899	2,727	1,911	7,537
Oklahoma.....	1,134	1,898	1,795	4,827
Oregon.....	742	1,218	655	2,615
Pennsylvania.....	2,088	1,309	2,346	5,743
Rhode Island.....	67	2	59	128
South Carolina.....	924	2,211	563	3,698
South Dakota.....	184	1,820	190	2,194
Tennessee.....	903	1,136	1,954	3,993
Texas.....	4,315	4,230	5,053	13,598
Utah.....	319	489	222	1,030
Vermont.....	239	271	16	526
Virginia.....	1,128	849	467	2,444
Washington.....	812	1,347	978	3,137
West Virginia.....	639	848	843	2,330
Wisconsin.....	1,944	2,499	1,033	5,476
Wyoming.....	238	208	125	571
Puerto Rico.....	6	6	12	24
Unknown.....	---	---	---	---
Total.....	58,125	76,423	44,079	178,627

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.

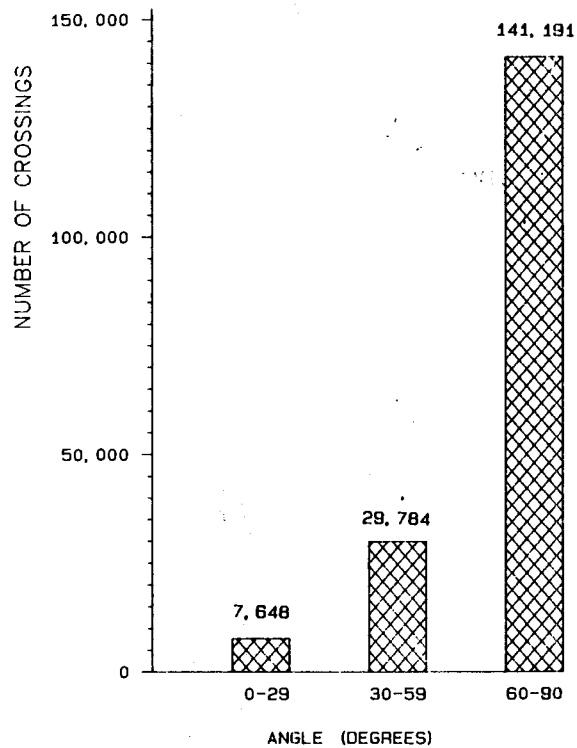


FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

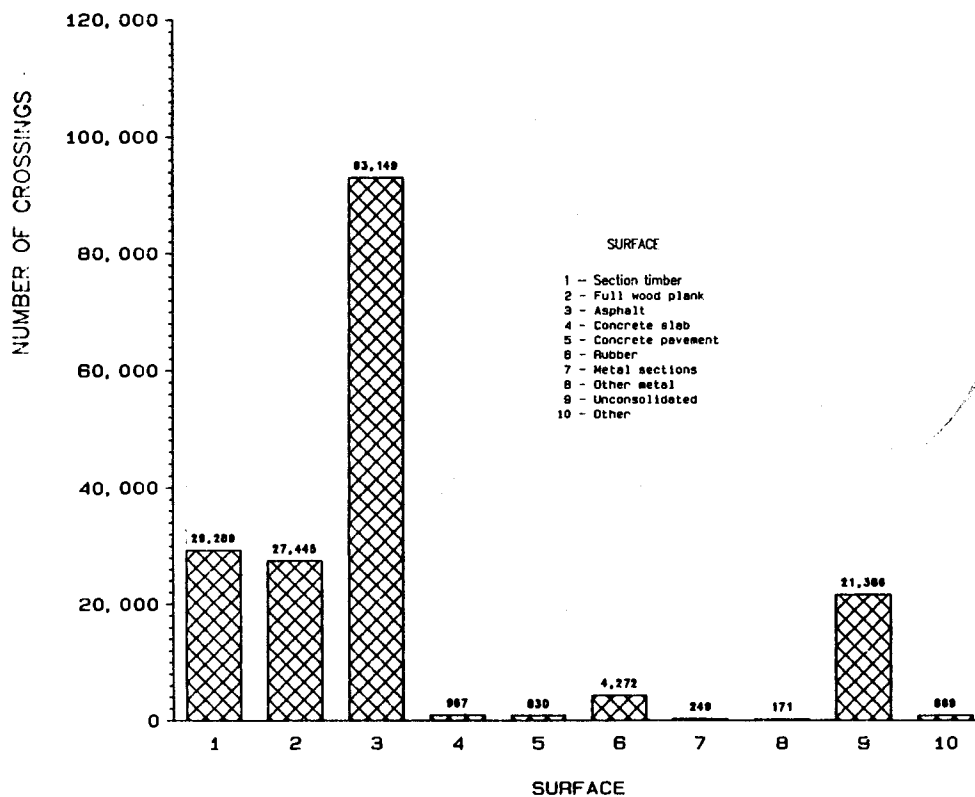


FIGURE 31. CROSSINGS BY CROSSING SURFACE

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

<u>Trains</u>	<u>Crossings</u>
<1	27,784
1-5	79,290
6-10	30,305
11-15	12,375
16-20	11,780
21-25	5,743
26-30	3,748
31-35	1,815
36-40	1,523
41-45	1,112
46-50	710
51-55	646
56-60	648
61-65	272
66-70	120
71-75	108
76-80	162
81-85	47
86-90	25
91-95	13
96-100	151
>100	250
Total	178,627

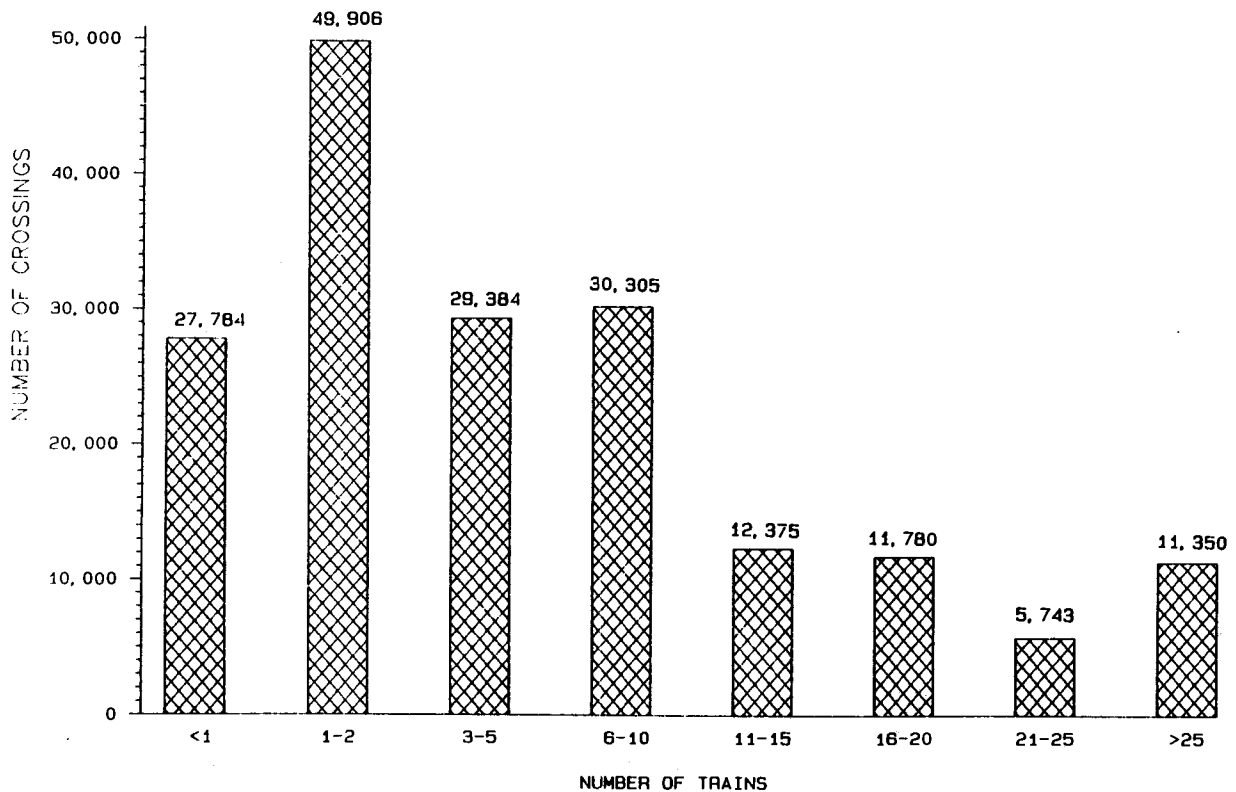


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

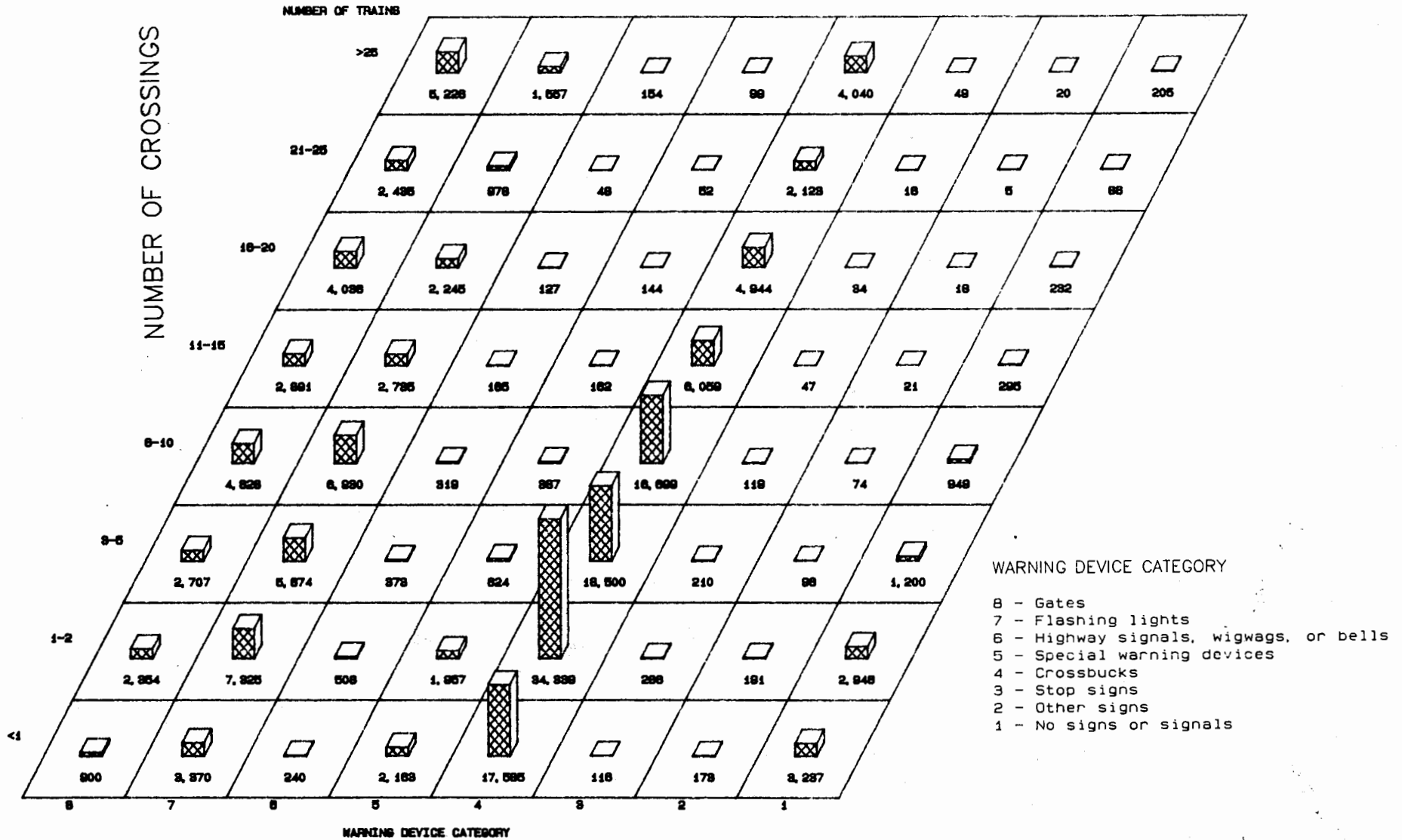


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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

Switching Trains	Through trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	27,784	27,568	13,025	12,072	4,794	4,891	2,175	3,137	95,446
1-2	20,531	9,362	6,733	6,661	2,828	2,739	921	2,280	52,055
2-3	6,173	1,927	2,195	3,304	1,433	913	322	1,543	17,810
6-10	2,631	726	857	1,508	1,010	1,073	357	757	8,919
11-15	520	106	139	267	281	83	88	360	1,844
16-20	449	103	99	178	210	89	178	166	1,472
21-25	129	42	26	40	35	21	23	60	376
>25	218	71	54	116	62	43	37	104	705
Total	58,435	39,905	23,128	24,146	10,653	9,852	4,101	8,407	178,627

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

Day Trains	Night trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	27,784	7,687	994	262	7	7	4	6	36,751
1-2	29,642	28,148	3,381	433	22	9	1	3	61,639
2-3	5,081	10,684	15,951	1,817	156	37	35	2	33,763
6-10	1,585	2,363	6,788	14,499	1,590	92	43	10	26,970
11-15	196	151	767	3,739	4,841	601	18	24	10,337
16-20	78	125	268	550	1,100	1,774	399	34	4,328
21-25	43	26	50	152	380	431	683	182	1,947
>25	71	11	18	102	265	412	632	1,381	2,892
Total	64,480	49,195	28,217	21,554	8,361	3,363	1,815	1,642	178,627

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

NUMBER OF TRAINS

Warning device	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	Total
Gates.....	900	2,354	2,707	4,828	2,891	4,036	2,435	5,226	25,377
Flashing lights.....	3,370	7,325	5,674	6,930	2,735	2,245	978	1,557	30,814
Hwy. signals, wigwags, bells	240	508	373	319	165	127	48	154	1,934
Special warning devices.....	2,163	1,957	624	387	162	144	52	99	5,588
Crossbucks.....	17,585	34,339	18,500	16,699	6,059	4,944	2,123	4,040	104,289
Stop signs.....	116	286	210	119	47	34	16	49	877
Other signs.....	173	191	96	74	21	18	5	20	598
No signs or signals.....	3,237	2,946	1,200	949	295	232	86	205	9,150
Total.....	27,784	49,906	29,584	30,305	12,375	11,780	5,743	11,350	178,627

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	11,723	3,342	3,152	6,190	1,989	1,388	27,784
1-2	25,279	5,778	5,176	9,149	2,658	1,866	49,906
2-3	13,889	3,480	3,143	5,810	1,769	1,293	29,384
6-10	13,863	3,671	3,444	6,177	1,821	1,329	30,305
11-15	5,669	1,342	1,326	2,648	808	582	12,375
16-20	5,161	1,355	1,373	2,486	813	592	11,780
21-25	2,228	675	634	1,400	465	341	5,743
>25	4,702	1,209	1,180	2,527	989	743	11,350
Total	82,514	20,852	19,428	36,387	11,312	8,134	178,627

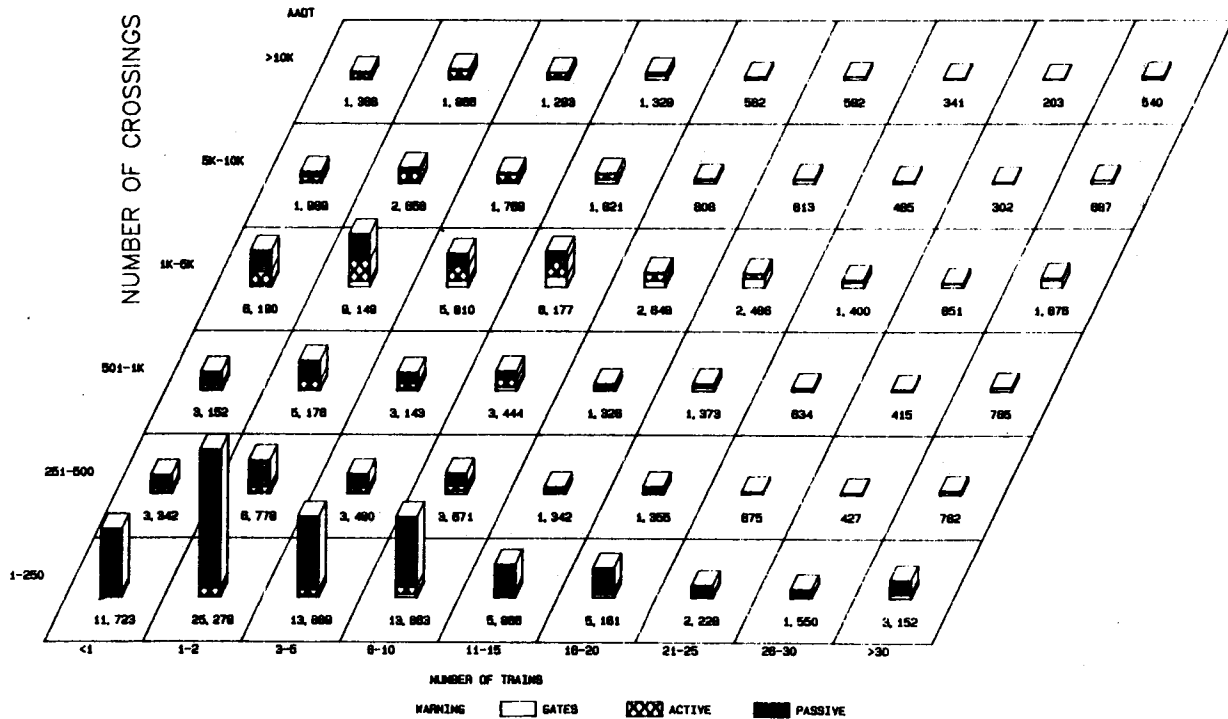


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

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

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	6,858
6-10	31,018
11-15	10,578
16-20	14,209
21-25	22,596
26-30	18,773
31-35	11,680
36-40	18,549
41-45	3,886
46-50	15,565
51-55	3,508
56-60	9,278
61-65	1,137
66-70	5,005
71-75	443
76-80	4,778
81-85	4
86-90	537
91-95	1
96-100	8
>100	216
Total	178,627

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

<u>Speed Variation</u>	<u>Crossings</u>
<1	15,004
1-5	45,639
6-10	42,728
11-15	18,933
16-20	17,078
21-25	10,331
26-30	9,183
31-35	4,764
36-40	4,475
41-45	2,303
46-50	3,323
51-55	852
56-60	2,020
61-65	671
66-70	290
71-75	195
76-80	644
81-85	10
86-90	2
91-95	---
96-100	---
>100	182
Total	178,627

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

HIGHWAY TRAFFIC DATA

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

AADT	Crossings
1-100	58,389
101-200	16,507
201-300	13,058
301-400	7,713
401-500	7,699
501-600	5,083
601-700	3,599
701-800	4,249
801-900	2,651
901-1,000	3,846
1,001-2,000	16,590
2,001-3,000	9,150
3,001-4,000	5,793
4,001-5,000	4,854
5,001-6,000	3,167
6,001-7,000	2,391
7,001-8,000	2,299
8,001-9,000	1,681
9,001-10,000	1,774
10,001-20,000	6,316
>20,000	1,818
Total	178,627

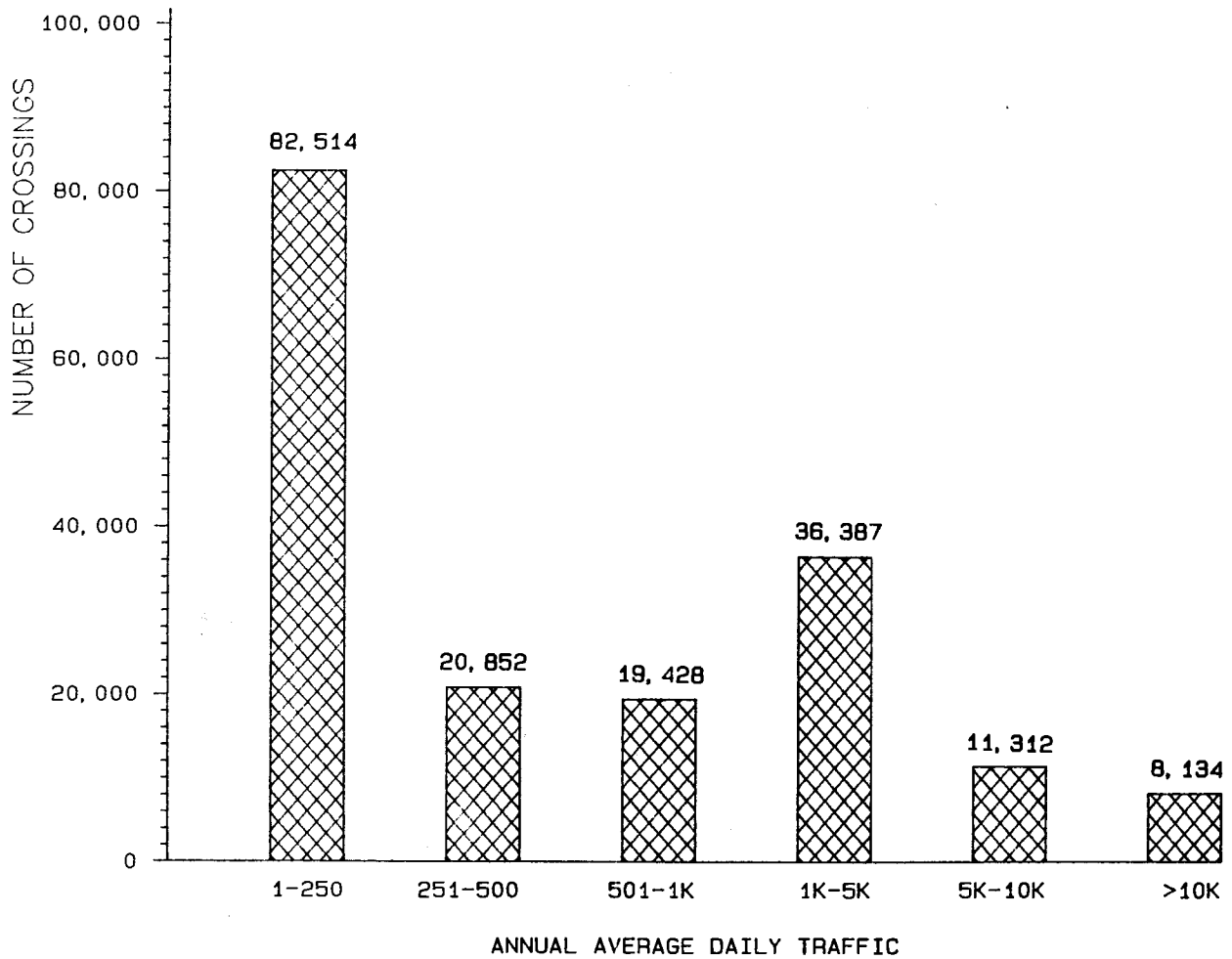


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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.....	3,319	2,504	3,309	9,185	3,790	3,270	25,377
Flashing lights.....	4,121	3,579	4,644	11,531	4,033	2,906	30,814
Hwy. signals, wigwags, bells	540	231	244	505	223	191	1,934
Special warning devices.....	1,142	693	745	1,820	696	492	5,588
Crossbucks.....	67,831	12,567	9,329	11,466	2,073	1,023	104,289
Stop signs.....	438	126	117	153	29	14	877
Other signs.....	254	90	94	111	34	15	598
No signs or signals.....	4,869	1,062	946	1,616	434	223	9,150
Total.....	82,514	20,852	19,428	36,387	11,312	8,134	178,627

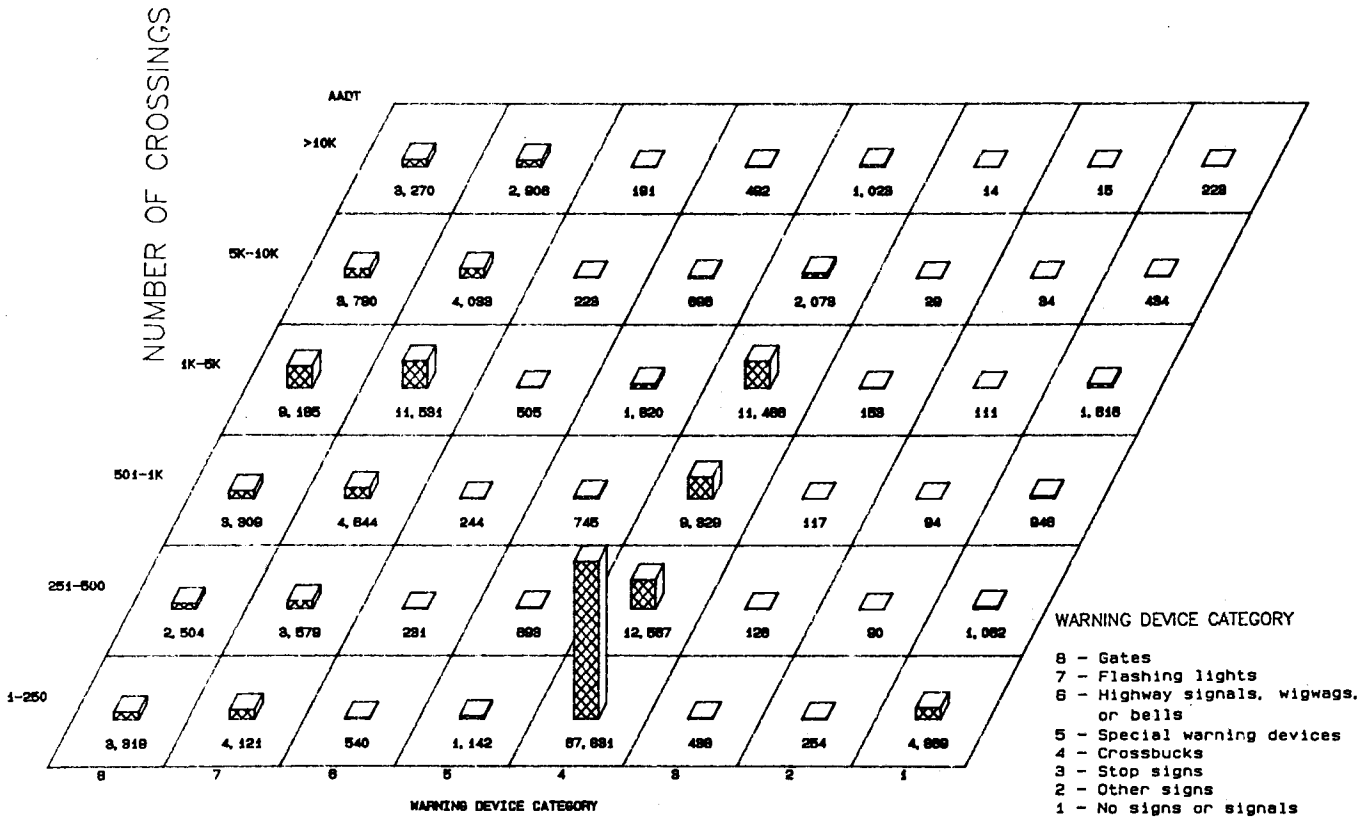


FIGURE 36. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

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

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

TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	165	420	3,293	3	1	16	2	1	484	6
Alaska	10	97	59	11	0	35	0	0	1	11
Arizona	102	264	475	0	2	57	0	0	71	1
Arkansas	627	243	1,785	2	8	11	3	2	742	4
California	865	1,329	5,821	40	32	59	0	0	143	27
Colorado	693	408	732	1	4	71	8	30	239	20
Connecticut	107	5	329	4	2	46	2	0	3	3
Delaware	16	5	203	2	9	25	0	0	5	0
Dist Of Columbia	6	1	25	0	5	0	0	0	0	0
Florida	1,242	54	2,157	301	34	200	8	1	117	41
Georgia	135	126	5,788	21	17	5	1	1	577	2
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	202	934	458	6	0	17	0	0	93	12
Illinois	1,832	1,293	5,519	31	37	661	8	7	1,325	18
Indiana	1,445	256	5,220	7	16	287	8	3	347	5
Iowa	97	1,273	2,641	5	14	181	1	2	1,701	102
Kansas	2,470	1,984	1,449	5	9	56	7	1	2,684	13
Kentucky	395	354	1,659	1	10	51	2	3	605	0
Louisiana	778	638	1,878	4	11	494	1	19	523	0
Maine	57	239	613	0	0	9	0	0	7	2
Maryland	177	70	313	0	6	47	0	0	17	3
Massachusetts	64	29	1,002	8	0	78	1	0	15	0
Michigan	1,794	718	2,807	10	11	287	162	1	447	12
Minnesota	119	2,943	2,133	20	8	175	0	2	330	15
Mississippi	153	345	1,361	2	3	90	1	1	753	1
Missouri	1,287	885	1,808	10	4	82	2	1	1,017	16
Montana	13	1,231	303	16	1	3	0	3	22	25
Nebraska	925	750	738	5	41	52	2	2	1,708	17
Nevada	51	56	87	15	1	16	0	1	38	7
New Hampshire	12	59	427	1	0	7	0	0	6	1
New Jersey	164	13	1,510	14	19	54	0	14	82	43
New Mexico	502	160	51	0	2	9	0	0	98	0
New York	468	165	2,378	9	15	230	0	1	101	8
North Carolina	22	47	4,529	8	12	4	2	1	322	7
North Dakota	56	3,855	515	30	2	26	0	3	442	7
Ohio	2,138	190	4,805	11	25	86	0	6	262	14
Oklahoma	1,703	507	1,167	9	15	33	1	6	1,375	11
Oregon	554	83	1,561	4	19	18	0	0	69	307
Pennsylvania	986	77	3,908	61	249	74	2	16	366	4
Rhode Island	1	1	79	0	10	36	0	1	0	0
South Carolina	52	17	3,296	53	9	0	3	1	261	6
South Dakota	9	1,458	481	1	1	102	0	0	88	54
Tennessee	171	329	2,973	7	2	20	2	9	476	4
Texas	4,923	1,150	4,916	92	109	199	5	19	2,180	5
Utah	235	236	434	8	4	17	3	2	88	3
Vermont	39	42	356	0	1	10	0	0	78	0
Virginia	230	53	1,969	6	3	8	6	10	138	21
Washington	77	1,388	1,446	111	7	70	1	0	36	1
West Virginia	937	12	928	2	5	3	0	1	435	2
Wisconsin	141	434	4,392	9	34	123	5	0	337	1
Wyoming	42	219	144	1	1	27	0	0	130	7
Puerto Rico	0	0	22	0	0	0	0	0	2	0
FINAL TOTALS	29,289	27,445	93,149	967	830	4,272	249	171	21,386	869

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.....	1048	1450	1962	1813	1551	1071	973	560	28	4	2	0	10462
FLASHING LIGHTS.....	4275	3433	5411	3850	2545	1318	320	255	18	0	0	0	21425
HWY. SIGNALS, HIGHWAGS, BELLS	405	199	247	165	73	59	9	9	2	0	1	0	1169
SPECIAL WARNING DEVICES.....	2667	677	323	107	53	31	15	23	12	2	0	0	3910
CROSSBUCKS.....	14944	9817	21497	15818	8727	5432	1324	1373	182	0	1	0	79115
STOP SIGNS.....	222	100	149	89	41	8	17	7	0	0	0	0	633
OTHER SIGNS.....	194	102	82	19	16	1	2	3	0	0	0	0	419
NO SIGNS OR SIGNALS.....	3484	1388	1033	476	302	140	52	43	4	0	0	0	6922
TOTAL.....	27239	17166	30704	22337	13308	8060	2712	2273	246	6	4	0	124055

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.....	912	1533	2393	2359	2213	1932	1817	1624	129	2	1	0	14915
FLASHING LIGHTS.....	1767	1470	2273	1608	1051	691	283	235	11	0	0	0	9389
HWY. SIGNALS, HIGHWAGS, BELLS	193	123	167	91	55	54	58	17	7	0	0	0	765
SPECIAL WARNING DEVICES.....	1074	274	176	54	27	46	10	12	4	1	0	0	1678
CROSSBUCKS.....	5554	3667	5333	3626	2684	1928	1216	1022	144	0	0	0	25174
STOP SIGNS.....	105	39	49	12	14	7	11	7	0	0	0	0	244
OTHER SIGNS.....	60	46	36	20	13	2	2	0	0	0	0	0	179
NO SIGNS OR SIGNALS.....	1183	469	238	122	86	66	33	31	0	0	0	0	2228
TOTAL.....	10848	7621	10665	7892	6143	4726	3430	2948	295	3	1	0	54572

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.....	1960	2983	4355	4172	3764	3003	2790	2184	157	6	3	0	25377
FLASHING LIGHTS.....	6042	4903	7684	5458	3596	2009	603	490	29	0	0	0	30814
HWY. SIGNALS, HIGHWAGS, BELLS	598	322	414	256	128	113	67	26	9	0	1	0	1934
SPECIAL WARNING DEVICES.....	3741	951	499	161	80	77	25	35	16	3	0	0	5588
CROSSBUCKS.....	20498	13484	26830	19444	11411	7360	2540	2395	326	0	1	0	104289
STOP SIGNS.....	327	139	198	101	55	15	28	14	0	0	0	0	877
OTHER SIGNS.....	254	148	118	39	29	3	4	3	0	0	0	0	598
NO SIGNS OR SIGNALS.....	4667	1857	1271	598	388	206	85	74	4	0	0	0	9150
TOTAL.....	38087	24787	41369	30229	19451	12786	6142	5221	541	9	5	0	178627

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1989 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more stated circumstances.

- (a) An impact occurs between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian or other highway user at a rail-highway crossing.
- (b) Any collision, derailment, fire, explosion, act of GOD or other event involving the operation of railroad on-track equipment (standing or moving) which results in more than \$5,700 in damages to railroad on-track equipment, signals, track and/or track structures, and roadbed.
- (c) Any event arising from the operation of a railroad which results in:
 - (i) death of one or more persons;
 - (ii) injury to one or more persons, other than railroad employees, requiring medical treatment;
 - (iii) injury to one or more employees requiring medical treatment or resulting in restriction of work or motion for one or more days, one or more lost work days, transfer to another job, termination of employment or loss of consciousness;
 - (iv) any occupational illness of railroad employee diagnosed by a physician.

DEFINITIONS

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

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

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

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

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

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

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

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

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

Crossing surfaces.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Other signs. Signs other than crossbucks or stop signs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Type of development.

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

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

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

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

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

APPENDIX B: REPORTING FORMS

FORMS

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

FRA F 6180-57 Grade Crossing Accident/Incident Report

FRA F 6180-55 Railroad Injury and Illness Summary

FRA F 6180-54 Rail Equipment Accident/Incident Report

For all reportable rail-highway crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than \$5,700 in damages to railroad on-track equipment, signals, track, track structures, or roadbed, Form FRA 6180-54 must also be submitted.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 04-R4009

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

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

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

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

7. **MILES RUN DURING MONTH**

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

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED
TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-53A	TOTAL FRA FORMS 6180-54
	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

SECTION A—RECAPITULATION OF ALL CASUALTIES INCLUDING HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								CLASS OF PERSON FOR SECTIONS A AND B	SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/ INCIDENT CASUALTIES							
TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL			TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj		Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
								1. Employees on duty								
								2. Employees not on duty								
								3. Passengers on trains								
								4. Other nontrespassers								
								5. Trespassers (all classes)								
								6. Contractor Employees								
								7. GRAND TOTAL								

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

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

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

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

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

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

HAZARDOUS MATERIALS (number of)

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

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 1. Dawn 3. Dusk 2. Day 4. Dark	18. WEATHER (single entry) CODE 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow
---------------------------------------	--	---

OPERATIONAL DATA

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

EQUIPMENT

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

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 Hrs: Mins:	46. CONDUCTOR 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 <div style="text-align: center;">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 <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				RAILROAD EQUIPMENT INVOLVED				
12. TYPE	3. Truck-Trailer	6. Motorcycle	CODE	16. EQUIPMENT	3. Train <i>(standing)</i>	6. Light loco(s) <i>(moving)</i>	CODE	
1. Auto	4. Bus	7. Pedestrian		1. Train <i>(units pulling)</i>	4. Car(s) <i>(moving)</i>	7. Light loco(s) <i>(standing)</i>		
2. Truck	5. School Bus	8. Other <i>(specify)</i>		2. Train <i>(units pushing)</i>	5. Car(s) <i>(standing)</i>	8. Other <i>(specify)</i>		
13. SPEED <i>(estimated mph at impact)</i>	14. DIRECTION <i>(geographical)</i>		CODE	17. POSITION OF CAR/UNIT IN TRAIN				CODE
	1. North	3. East						
	2. South	4. West						
15. POSITION	18. CIRCUMSTANCE		CODE					CODE
1. Stalled on crossing	2. Stopped on crossing	3. Moving over crossing		1. Train struck highway user		2. Train struck by highway user		
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials?								CODE
				1. Highway user	2. Rail equipment	3. Both	4. Neither	

ENVIRONMENT

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

TRAIN AND TRACK

23. TYPE OF TRAIN	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED	CODE
1. Freight		1. Main	
2. Passenger		2. Yard	
3. Mixed		3. Siding	
4. Work		4. Industry	
5. Yard/Switching			
6. Light Locomotive(s)			
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>	30. TIME TABLE DIRECTION	
	Est	1. North	
	MPH	2. South	
	Recorded	3. East	
		4. West	

CROSSING WARNING

31. TYPE	1 <input type="checkbox"/> Gates	5 <input type="checkbox"/> Hwy. Traffic Signals	9 <input type="checkbox"/> Watchman	32. SIGNALLED CROSSING WARNING		CODE
<i>(place X in appropriate box(es))</i>	2 <input type="checkbox"/> Cantilever FLS	6 <input type="checkbox"/> Audible	10 <input type="checkbox"/> Flagged by crew	Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No		
	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			
33. LOCATION OF WARNING	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS	CODE	35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS		
1. Both sides		1. Yes		1. Yes 2. No 3. Unknown		
2. Side of vehicle approach		2. No				
3. Opposite side of vehicle approach		3. Unknown				

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE	CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN	CODE
1. Yes		1. Yes	
2. No		2. No	
3. Unknown		3. Unknown	
38. MOTORIST	39. VIEW OF TRACK OBSCURED BY <i>(primary obstruction)</i>		
1. Drove around or thru the gate	2. Stopped and then proceeded	3. Did not stop	4. Other <i>(specify)</i>
			5. Unknown

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE <i>(est. dollar damage)</i>	41. DRIVER WAS	CODE	42. WAS DRIVER IN THE VEHICLE?	CODE
	1. Killed		1. Yes	
	2. Injured		2. No	
	3. Uninjured			
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

A. INITIATING AGENCY

RAILROAD STATE

C. REASON FOR UPDATE:

CHANGES IN EXISTING CROSSING DATA
 NEW CROSSING
 CLOSED CROSSING

D. EFFECTIVE DATE

M D Y

B. CROSSING NUMBER

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

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 1. at grade 2. RR under 3. RR over

16. Private Vehicle Crossing A. 1. Farm 2. Residential 3. Recreational 4. Industrial
B. 5. at grade 6. RR under 7. RR over
C. 8. signs-specify _____
 9. signals-specify _____
 0. none

17. Public Vehicle Crossing 1. at grade 2. RR under 3. RR over

DO NOT WRITE IN THIS SPACE

State _____ County _____
City _____ Nearest City _____
RR Code _____ Timetable Station _____

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements

Daylight (6 AM to 6 PM)		Night (6 PM to 6 AM)	
thru trains	switching	thru trains	switching
_____1	_____2	_____3	_____4

1B. Check if Less Than One Movement Per Day 5

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

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

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

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

6. Type of Warning Device at Crossing
A. Signs

Crossbucks		Standard Highway Stop Sign	Other Stop Signs	Other Signs: Specify	
reflectORIZED	non-reflectORIZED			_____ 05	_____ 06
_____ 01	_____ 02	_____ 03	_____ 04	_____ 07	_____ 08
Number	Number	Number	Number	Number	Number

B. Train Activated Devices

Gates		Cantilevered Flashing Lights		Mast Mounted Flashing Lights	Other Flashing Lights	Highway Traffic Signals	Wigwags	Bells	
red & white reflectORIZED	other colored	over traffic lane	not over traffic lane						
_____ 09	_____ 10	_____ 11	_____ 12	_____ 13	_____ 14	_____ 15	_____ 16	_____ 17	_____ 18
Number	Number	Number	Number	Number	Number	Number	Number	Number	Number

C. Specify Special Warning Device not Train Activated _____ 19

D. No Signs or Signals 20

7. Is Commercial Power Available? Yes No

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

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

Part III Physical Data

1. Type of Development 1. Open Sp. 2. Res 3. Comm. 4. Ind. 5. Inst.

2. Smallest Crossing Angle 0°-29° 30°-59° 60°-90°

3. Number of Traffic Lanes Crossing Railroad _____ Number

4. Are Truck Pullout Lanes Present? Yes No

5. Is Highway Paved Yes No

6. Pavement Markings Stoplines RR Xing Sym. None

7. Are RR Advance Warning Signs Present? Yes No

8. Crossing Surface 1. Sec. Timber 2. Full Wd. Plank 3. Asphalt 4. Concrete Slab
 5. Concrete Pave. 6. Rubber 7. Metal Sections 8. Other Metal
 9. Unconsolidated 0. Other Specify

9. Does Track Run Down A Street? Yes No

10. Nearby Intersecting Highway? Yes No

Part IV Highway Department Information

1. Highway System _____

2. Is Crossing on State Highway System? Yes No

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

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

1. IS RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED?
 YES 155 NO 5,617 NOT REPORTED 0

2. WAS DRIVER IN VEHICLE?
 YES 5,103 NO 664 NOT REPORTED 5

3. DRIVER WAS:
 KILLED 473 INJURED 1,653 UNINJURED 3,633 NOT REPORTED 13

4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?
 YES 424 NO 3,615 NOT REPORTED 955 N/A 778

5. DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:
 NORTH 1,418 SOUTH 1,444 EAST 1,462 WEST 1,419 NOT REPORTED 29

6. TRAIN TIMETABLE DIRECTION:
 NORTH 1,236 SOUTH 1,177 EAST 1,679 WEST 1,660 NOT REPORTED 20

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

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

LESS THAN ONE TRAIN PER DAY?					
YES	29,173	NO	149,444	N/R	10
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	4,490	NO	174,054	N/R	83
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	26,567	NO	151,953	N/R	107
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	167,938	NO	9,736	N/R	953
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	54,656	NO	123,970	N/R	1
IS HIGHWAY PAVED?					
YES	124,839	NO	53,791	N/R	0
IS COMMERCIAL POWER AVAILABLE?					
YES	162,148	NO	16,441	N/R	38
DOES TRACK RUN DOWN A STREET? ¹					
YES	5,374	NO	171,646	N/R	1,607
NEARBY INTERSECTING HIGHWAY? ¹					
YES	69,521	NO	107,448	N/R	1,658
RR ADVANCE WARNING SIGNS PRESENT?					
YES	101,955	NO	76,672	N/R	0
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,290	NO	176,328	N/R	9
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	27,517	NO	151,110	N/R	0
DOES CROSSING PROVIDE SPEED SELECTION?					
YES	9,175	NO	60,112	N/R	109,340

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

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

APPENDIX D. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS

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

State	---Freight---			---Passenger---			-Yard Switching		---Other---			
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	10	2	3	---	---	---	1	---	---	1	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	2	---	1	---	---	---	---	---	---	1	---	2
Arkansas.....	7	2	2	---	---	---	3	---	---	---	---	---
California.....	8	3	2	5	---	---	2	---	---	8	---	2
Colorado.....	3	---	---	---	---	---	---	---	---	1	---	---
Connecticut.....	---	---	---	1	---	---	---	---	---	---	---	---
Delaware.....	1	---	1	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	8	---	2	2	---	---	1	---	---	---	---	---
Georgia.....	13	2	3	---	---	---	6	---	2	1	---	---
Idaho.....	2	---	---	---	---	---	---	---	---	1	---	---
Illinois.....	14	1	11	---	---	---	4	---	---	7	---	---
Indiana.....	8	---	2	2	---	---	2	---	1	2	---	1
Iowa.....	4	1	1	---	---	---	3	---	---	1	---	---
Kansas.....	3	1	1	---	---	---	1	---	1	---	---	---
Kentucky.....	17	---	5	---	---	---	2	---	---	3	---	2
Louisiana.....	14	---	10	---	---	---	7	---	1	---	---	---
Maine.....	2	---	5	---	---	---	2	---	---	---	---	---
Maryland.....	1	---	---	---	---	---	7	---	---	1	---	---
Massachusetts....	2	---	1	---	---	---	---	---	---	---	---	---
Michigan.....	5	1	1	1	---	---	9	---	1	---	---	---
Minnesota.....	7	---	3	---	---	---	---	---	---	2	---	---
Mississippi.....	11	1	3	2	2	---	---	---	---	---	---	---
Missouri.....	13	---	2	1	1	---	2	---	1	2	1	---
Montana.....	7	1	1	---	---	---	---	---	---	---	---	---
Nebraska.....	8	5	2	---	---	---	1	---	---	---	---	---
Nevada.....	3	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	1	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	4	---	---	---	---	---	1	---	---	2	---	1
New Mexico.....	4	---	1	---	---	---	---	---	---	---	---	---
New York.....	5	---	2	2	---	---	1	---	2	1	---	---
North Carolina...	17	5	10	---	---	---	---	---	---	1	---	---
North Dakota.....	---	---	---	---	---	---	1	---	---	---	---	---
Ohio.....	16	---	4	---	---	---	6	---	2	3	---	1
Oklahoma.....	5	1	---	1	---	1	---	---	---	---	---	---
Oregon.....	11	---	2	---	---	---	5	---	---	2	---	2
Pennsylvania.....	15	3	4	---	---	---	4	---	---	4	---	1
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	5	---	1	1	---	---	---	---	---	2	---	1
South Dakota.....	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	14	2	3	---	---	---	1	---	1	2	---	---
Texas.....	33	3	14	1	---	1	5	---	---	4	---	1
Utah.....	2	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	3	---	2	---	---	---	---	---	---	---	---	---
Virginia.....	17	1	3	4	2	25	3	---	1	3	---	---
Washington.....	6	2	3	---	---	---	1	---	---	2	---	---
West Virginia....	14	---	2	1	---	---	---	---	---	4	---	4
Wisconsin.....	8	---	5	---	---	---	1	---	---	---	---	---
Wyoming.....	3	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	357	37	118	24	5	27	82	---	13	61	1	18

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. Wiegags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	---	---	1	5	---	---	6	12
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	3	---	---	---	3
Arkansas.....	---	---	1	---	6	1	---	2	10
California.....	---	1	2	---	10	3	1	6	23
Colorado.....	---	---	---	1	---	---	---	3	4
Connecticut.....	---	1	---	---	---	---	---	---	1
Delaware.....	---	---	---	---	---	---	---	1	1
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	2	1	---	---	5	---	---	3	11
Georgia.....	---	---	---	1	12	1	---	6	20
Idaho.....	---	1	---	---	---	---	---	2	3
Illinois.....	---	1	1	1	5	2	1	14	25
Indiana.....	2	1	1	---	1	1	1	7	14
Iowa.....	---	---	---	---	2	---	---	6	8
Kansas.....	---	---	---	---	3	---	---	1	4
Kentucky.....	---	1	---	---	8	---	---	13	22
Louisiana.....	---	2	---	3	10	---	---	6	21
Maine.....	---	---	---	---	1	2	---	1	4
Maryland.....	1	---	---	1	5	---	---	2	9
Massachusetts....	---	---	---	1	---	---	---	1	2
Michigan.....	---	5	1	---	5	---	---	4	15
Minnesota.....	1	---	---	---	1	4	---	3	9
Mississippi.....	1	---	---	---	2	---	---	10	13
Missouri.....	---	---	---	---	3	---	---	15	18
Montana.....	---	---	---	---	1	---	---	6	7
Nebraska.....	---	---	---	---	4	1	---	4	9
Nevada.....	---	---	---	---	1	---	---	2	3
New Hampshire.....	---	---	---	---	1	---	---	---	1
New Jersey.....	1	1	---	---	1	---	3	1	7
New Mexico.....	---	---	---	---	3	---	---	1	4
New York.....	---	---	---	---	1	1	2	5	9
North Carolina...	1	---	---	---	2	---	---	15	18
North Dakota.....	---	---	---	---	---	---	---	1	1
Ohio.....	---	2	---	2	13	2	---	6	25
Oklahoma.....	---	---	---	---	---	---	---	6	6
Oregon.....	---	1	---	2	3	3	1	8	18
Pennsylvania.....	---	---	---	2	7	5	---	9	23
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	---	---	---	---	5	---	---	3	8
South Dakota.....	---	---	---	---	1	---	---	---	1
Tennessee.....	---	1	---	---	4	---	---	12	17
Texas.....	---	3	---	---	16	11	---	13	43
Utah.....	---	---	---	---	---	---	1	1	2
Vermont.....	---	---	---	---	---	1	---	1	3
Virginia.....	---	---	---	2	10	4	1	11	27
Washington.....	1	---	---	---	---	2	---	6	9
West Virginia.....	---	---	---	1	6	---	---	12	19
Wisconsin.....	---	---	---	---	4	---	---	5	9
Wyoming.....	---	---	---	---	---	---	---	3	3
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	10	22	6	18	170	44	11	243	524

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.....	225	41.21	16	36.36	67	36.22	14	50
Truck.....	186	34.07	24	54.55	75	40.54	20	36
Truck-trailer....	109	19.96	3	6.82	34	18.38	3	27
Bus.....	1	.18	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	3	.55	---	---	---	---	---	---
Pedestrian.....	1	.18	---	---	1	.54	---	1
Other.....	21	3.85	1	2.27	8	4.32	1	7
Total.....	546	100.00	44	100.00	185	100.00	38	121

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	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj
Gates.....	5	1	3	1	---	---	1	---	---	3	---	---	---	---	---	10	1	3
Cantilever flashrs	---	---	---	---	---	---	3	---	---	2	---	1	---	---	---	5	---	1
Standard flashers	---	---	---	1	---	---	13	2	4	3	---	1	---	---	---	17	2	5
Hwy Sig, W W, Bells	---	---	---	3	---	---	4	---	2	2	2	---	---	---	---	6	---	2
Special Devices..	---	---	---	---	---	1	12	---	3	3	---	---	---	---	---	18	---	4
Crossbucks.....	---	---	---	14	3	1	89	12	53	62	2	8	5	1	2	170	18	68
Stopsigns.....	---	---	---	5	---	2	30	4	10	9	---	2	---	---	---	44	4	14
Other Signs.....	---	---	---	1	---	1	5	---	3	5	---	1	---	---	---	11	---	5
No Signs Or Signl	---	---	---	17	---	5	117	11	53	100	5	16	9	---	---	243	16	74
Total.....	5	1	3	42	3	14	274	29	128	189	9	29	14	1	2	524	43	176

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

Speed Of Consist	VISIBILITY												Total		
	Dawn			Day			Dusk			Dark					
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	---	---	---	75	---	7	5	---	---	35	---	5	118	---	12
1-9.....	3	---	---	38	---	4	2	---	---	10	---	2	51	---	6
10-19.....	1	---	---	47	---	28	4	---	3	20	1	2	73	1	34
20-29.....	2	---	1	46	8	28	4	---	1	19	1	2	71	9	31
30-39.....	2	---	---	61	11	29	3	---	1	30	2	7	95	13	37
40-49.....	1	---	---	27	9	10	2	---	1	8	---	2	38	9	13
50-59.....	1	---	---	10	4	1	---	---	---	7	---	---	18	5	1
60-69.....	1	---	---	3	1	1	1	---	1	5	3	25	9	4	27
70-79.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	11	---	1	307	33	108	21	---	7	134	8	45	473	41	161
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	2	---	---	---	---	---	2	---	1	4	---	1
1-9.....	2	---	1	16	---	1	1	---	---	12	---	3	31	---	5
10-19.....	---	---	---	1	---	1	---	---	---	3	---	5	4	---	6
20-29.....	---	---	---	2	---	---	---	---	---	2	1	---	4	1	---
30-39.....	---	---	---	3	---	---	---	---	---	---	---	---	3	---	---
40-49.....	---	---	---	3	1	2	---	---	---	1	---	1	4	1	3
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60-69.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
70-79.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	2	---	1	27	1	4	1	---	---	21	1	10	51	2	15
GRAND TOTAL															
Standing.....	---	---	---	2	---	---	---	---	---	2	---	1	4	---	1
1-9.....	5	---	1	91	---	8	6	---	---	47	---	8	149	---	17
10-19.....	1	---	---	39	---	5	2	---	---	13	---	7	55	---	12
20-29.....	2	---	1	49	---	28	4	---	3	22	2	2	77	2	34
30-39.....	2	---	---	49	8	28	4	---	1	19	1	2	74	9	31
40-49.....	1	---	---	64	12	31	3	---	1	31	2	8	99	14	40
50-59.....	1	---	---	27	9	10	2	---	1	8	---	2	38	9	13
60-69.....	1	---	---	10	4	1	---	---	---	8	1	---	19	5	1
70-79.....	---	---	---	3	1	1	1	---	1	5	3	25	9	4	27
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	13	---	2	334	34	112	22	---	7	155	9	55	524	43	176

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

Railroad	WARNING DEVICE CATEGORY							No Signs Or Signals	Total
	Gates	Flashing Lights	Hwy Sig. Highways Bells	Special	Cross-Bucks	Stop Signs	Other Signs		
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	1	---	1	1	8	---	---	5	16
Arkansas And Missouri Railroad Company	---	---	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Railway Co.	---	1	1	---	7	1	1	4	15
Bangor And Aroostook Railroad	---	---	---	---	---	2	---	1	3
Buffalo & Pittsburgh Railroad, Inc.	---	---	---	---	1	---	---	2	3
Burlington Northern Railroad Company	2	---	---	1	6	2	---	59	70
Canadian Pacific Railway Company	---	---	---	---	---	---	---	1	1
Central Michigan Railway Company	---	---	---	---	---	---	---	---	---
Chicago And North Western Transportation	---	---	---	---	6	2	---	---	8
Chicago Missouri & Western Railway	---	---	---	---	---	---	---	---	---
Chicago Southshore & South Bend Railroad	2	---	---	---	---	---	---	---	2
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	---	---
Columbus And Greenville Railway Company	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation	1	5	1	3	15	6	5	21	57
CSX Transportation	2	2	---	3	33	1	---	28	69
Dakota, Minnesota & Eastern Railroad	---	---	---	---	2	1	---	---	3
Delaware And Hudson Railroad Company	---	---	---	---	---	---	---	---	---
Denver And Rio Grande Western Railroad Co.	---	---	---	---	---	---	1	3	4
Detroit And Mackinac Railway Company	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Company	---	---	---	---	---	1	---	4	5
Escanaba And Lake Superior Railroad Co.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company	---	---	---	---	---	---	---	---	---
Fox River Valley Railroad Corporation	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	---	2	---	---	1	---	---	2	5
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	---	---	---	---	1	---	---	---	1
Huron & Eastern Railway	---	1	---	---	---	---	---	---	1
Illinois Central Railroad Company	---	---	1	---	2	---	---	3	6
Indiana Harbor Belt Railroad Company	---	---	---	---	---	---	1	---	1
Indiana Hi-rail Corporation	---	---	---	---	---	---	---	---	---
Indiana Rail Road Company	---	---	---	---	---	---	---	---	---
Iowa Interstate Railroad	---	---	---	---	1	---	---	---	1
Kansas City Southern Railway Company	---	---	---	---	2	---	---	---	2
Kiamichi Railroad Company, Inc.	---	---	---	---	---	---	---	1	1
Long Island Rail Road	---	---	---	---	---	---	---	1	1
Los Angeles Junction Railway Company	---	---	---	---	---	---	---	---	---
Louisiana & Arkansas Railway Company	---	---	---	1	3	---	---	---	4
Metro North Commuter Railroad Company	---	1	---	---	---	---	---	---	1
Midsouth Rail Corporation	---	---	---	---	1	---	---	---	1
Montana Rail Link	---	---	---	---	1	---	---	3	4
Nashville & Eastern Railroad	---	---	---	---	---	---	---	---	---
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
New York, Susquehanna And Western Railroad	---	---	---	1	---	---	---	---	---
Norfolk And Western Railway Company	---	2	---	1	12	4	1	19	39
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Company	---	---	---	---	1	---	---	1	2
Patapsco & Back Rivers Railroad Company	1	---	---	---	5	---	---	---	6
Port Terminal Railroad Association	---	---	---	---	3	---	---	---	3
Providence And Worcester Railroad Company	---	---	---	---	---	---	---	---	---
Seminole Gulf Railroad	---	---	---	---	1	---	---	---	1
Soo Line Railroad Company	---	---	---	---	1	1	---	4	6
Southeastern Pennsylvania Transportation	---	---	---	---	---	---	---	---	---
Southern Pacific Transportation Company	---	5	1	1	12	11	---	12	42
Southern Railway Company	1	---	---	1	16	1	---	43	62
Southern Railway Company	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Company	---	---	---	1	1	---	1	1	3
St. Lawrence & Atlantic Railroad Company	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company	---	---	1	---	3	1	---	---	5
Tennessee Southern Railroad Company, Inc.	---	---	---	---	---	---	---	---	---
Terminal Railroad Association Of St. Louis	---	---	---	---	---	---	---	1	1
Texas Mexican Railway Company	---	---	---	---	---	---	---	---	---
Toledo, Peoria And Western Railroad	---	---	---	---	---	---	---	---	---
Tuscola And Saginaw Bay Railroad Company	---	---	---	---	---	---	---	---	---
Union Belt Of Detroit	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Company	---	2	---	---	17	5	1	16	44
UTSZ Transit Service, Incorporated	---	---	---	3	---	---	---	---	---
Washington Central Railroad Company	---	---	---	---	---	1	---	---	1
Winchester And Western Railroad Company	---	---	---	1	---	---	---	1	2
Wisconsin Central Ltd.	---	---	---	---	1	---	---	2	3
All Other Railroads.....	---	1	---	1	7	4	---	5	18
Total.....	10	22	6	18	170	44	11	243	524

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

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

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

Railroad	Motor Vehicle			Other Highway Users			Total		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corporation	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	16	4	26	---	---	---	16	4	26
Arkansas And Missouri Railroad Company	---	---	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Railway Co.	15	4	2	1	---	1	16	4	3
Bangor And Aroostook Railroad	3	---	3	---	---	---	3	---	1
Buffalo & Pittsburgh Railroad, Inc.	3	---	1	---	---	---	3	---	---
Burlington Northern Railroad Company	70	12	20	4	---	2	74	12	22
Canadian Pacific Railway Company	1	---	---	---	---	---	1	---	---
Central Michigan Railway Company	---	---	---	---	---	---	---	---	---
Chicago And North Western Transportation	8	1	3	1	---	1	9	1	4
Chicago Missouri & Western Railway	---	---	---	---	---	---	---	---	---
Chicago Southshore & South Bend Railroad	2	---	---	---	---	---	2	---	---
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	---	---
Columbus And Greenville Railway Company	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation	57	3	18	---	---	---	57	3	18
CSX Transportation	69	1	17	4	1	2	73	2	19
Dakota, Minnesota & Eastern Railroad	3	---	---	---	---	---	3	---	---
Delaware And Hudson Railroad Company	---	---	---	---	---	---	---	---	---
Denver And Rio Grande Western Railroad Co.	4	---	---	---	---	---	4	---	---
Detroit And Mackinac Railway Company	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Company	5	---	1	---	---	---	5	---	1
Escanaba And Lake Superior Railroad Co.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company	---	---	---	---	---	---	---	---	---
Fox River Valley Railroad Corporation	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company	5	---	2	---	---	---	5	---	2
Green Bay And Western Railroad Company	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Company	1	---	---	---	---	---	1	---	---
Huron & Eastern Railway	1	1	---	---	---	---	1	1	---
Illinois Central Railroad Company	6	---	6	1	---	---	7	---	6
Indiana Harbor Belt Railroad Company	1	---	1	---	---	---	1	---	1
Indiana Hi-rail Corporation	---	---	---	---	---	---	---	---	---
Indiana Rail Road Company	---	---	---	---	---	---	---	---	---
Iowa Interstate Railroad	1	---	---	---	---	---	1	---	---
Kansas City Southern Railway Company	2	---	---	---	---	---	2	---	---
Kiamichi Railroad Company, Inc.	1	---	1	---	---	---	1	---	1
Long Island Rail Road	1	---	---	---	---	---	1	---	---
Los Angeles Junction Railway Company	---	---	---	---	---	---	---	---	---
Louisiana & Arkansas Railway Company	4	---	---	---	---	---	4	---	---
Metro North Commuter Railroad Company	1	---	---	---	---	---	1	---	---
Midsouth Rail Corporation	1	---	---	---	---	---	1	---	---
Montana Rail Link	4	---	1	---	---	---	4	---	1
Nashville & Eastern Railroad	---	---	---	---	---	---	---	---	---
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
New York, Susquehanna And Western Railroad	---	---	---	---	---	---	---	---	---
Norfolk And Western Railway Company	39	1	15	2	---	1	41	1	16
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Company	2	---	1	---	---	---	2	---	1
Patapsco & Back Rivers Railway Company	6	---	---	---	---	---	6	---	---
Port Terminal Railroad Association	3	---	---	1	---	---	4	---	---
Providence And Worcester Railroad Company	---	---	---	---	---	---	---	---	---
Seminole Gulf Railroad	1	---	---	---	---	---	1	---	---
Seo Line Railroad Company	6	---	1	2	---	1	8	---	2
Southeastern Pennsylvania Transportation	---	---	---	---	---	---	---	---	---
Southern Pacific Transportation Company	42	2	14	1	---	---	43	2	14
Southern Railway Company	62	11	17	3	---	1	65	11	18
Southrail Corporation	1	---	1	---	---	---	1	---	1
Springfield Terminal Railway Company	3	---	4	---	---	---	3	---	4
St. Lawrence & Atlantic Railroad Company	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company	5	1	1	---	---	---	5	1	1
Tennessee Southern Railroad Company, Inc.	---	---	---	---	---	---	---	---	---
Terminal Railroad Association Of St. Louis	1	---	---	---	---	---	1	---	---
Texas Mexican Railway Company	---	---	---	1	---	---	1	---	---
Toldeo, Peoria And Western Railroad	---	---	---	---	---	---	---	---	---
Tuscola And Saginaw Bay Railroad Company	---	---	---	---	---	---	---	---	---
Union Belt Of Detroit	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Company	44	2	14	1	---	---	45	2	14
UTSZ Transit Service, Incorporated	---	---	---	---	---	---	---	---	---
Washington Central Railroad Company	1	---	2	---	---	---	1	---	2
Winchester And Western Railroad Company	2	---	---	---	---	---	2	---	---
Wisconsin Central Ltd.	3	---	---	---	---	---	3	---	---
All Other Railroads.....	18	---	4	---	---	---	18	---	4
Total.....	524	43	176	22	1	9	546	44	185

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

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

TABLE E-1. TRESPASSER CASUALTIES BY YEAR

YEAR	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
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
1985	474	734	83	242	391	492
1984	588	773	89	227	499	546

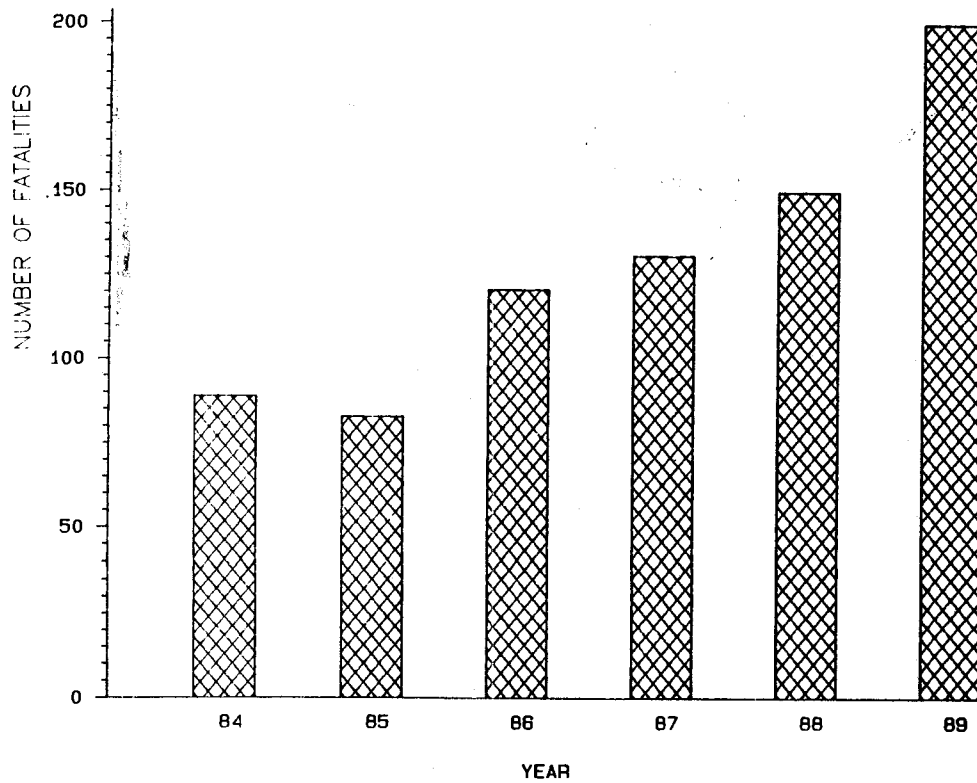


FIGURE 37. TRESPASSER FATALITIES AT RAIL—HIGHWAY CROSSING, BY YEAR

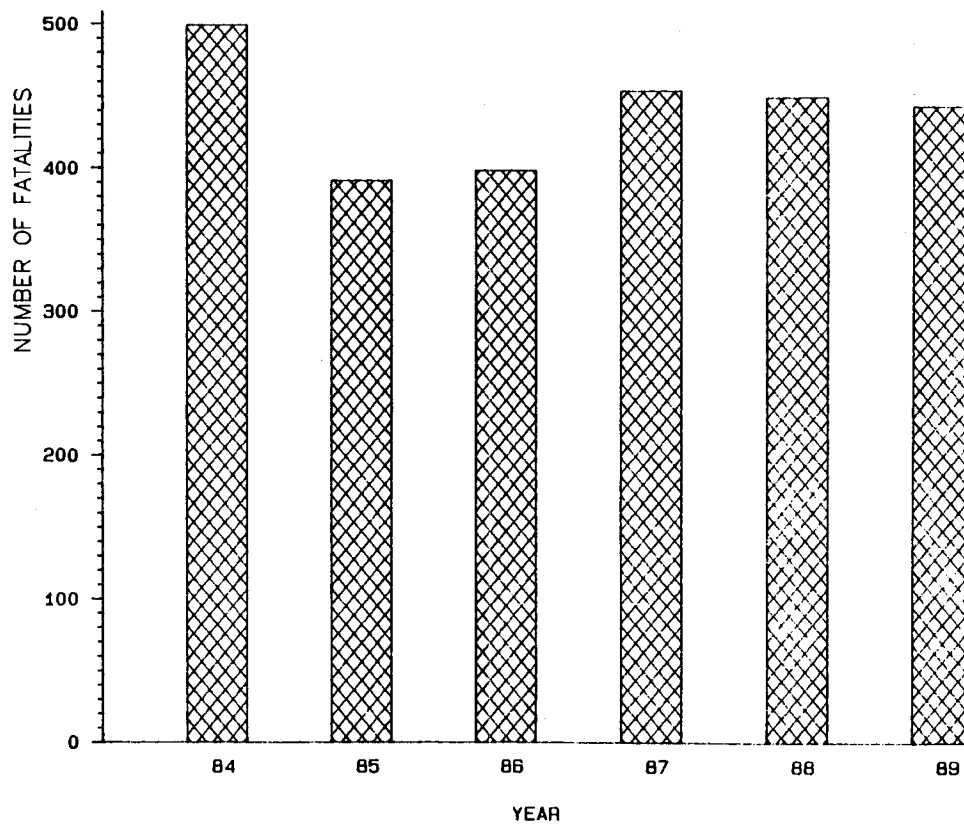


FIGURE 38. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSING, BY YEAR

TABLE E-2. 1989 TRESPASSER CASUALTIES BY MONTH

MONTH	TOTAL		AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
	KILLED	INJURED	KILLED	INJURED	KILLED	INJURED
January	34	96	14	47	20	49
February	39	50	18	29	21	21
March	35	57	15	26	20	31
April	62	64	18	31	44	33
May	60	89	16	29	44	60
June	54	80	9	18	45	62
July	56	67	10	17	46	50
August	58	94	14	31	44	63
September	55	72	20	29	35	43
October	80	82	20	30	60	52
November	56	84	23	45	33	39
December	52	63	23	38	29	25
FINAL TOTAL	641	898	200	370	441	528

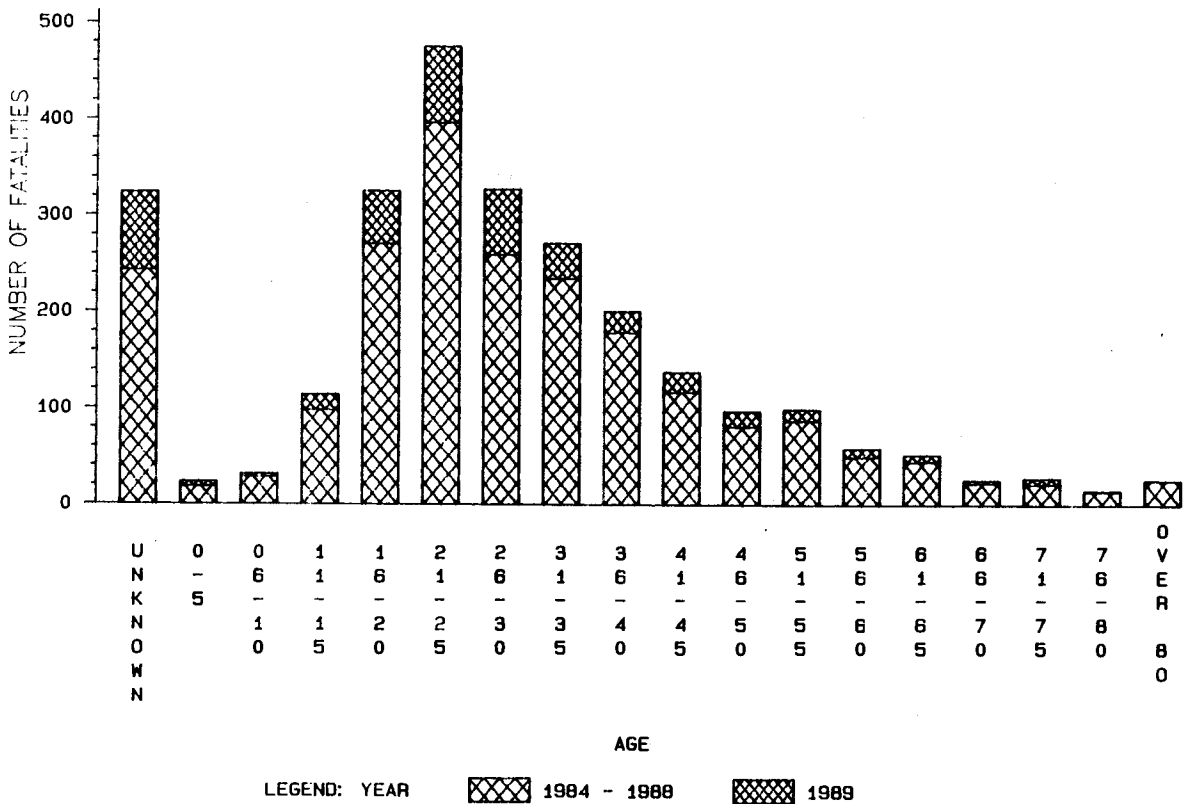


FIGURE 39. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSINGS, BY AGE GROUP

TABLE E-3. TRESPASSER CASUALTIES BY RAILROAD

RAILROAD	TOTAL		AT RAIL-HIGHWAY		NOT AT RAIL-HWY	
	KILLED	INJURED	GRADE KILLED	CROSSING INJURED	GRADE KILLED	CROSSING INJURED
ALABAMA GREAT SOUTHERN RAILROAD	3	1	0	0	3	1
ARKANSAS AND MISSOURI RAILROAD COMPANY	0	1	0	0	0	1
AMTRAK (NATIONAL RAILROAD PASSENGER CORPORATION)	115	68	52	41	63	27
ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY	24	38	0	0	24	38
ARIZONA EASTERN RAILROAD	0	1	0	0	0	1
BURLINGTON NORTHERN RAILROAD COMPANY	56	48	15	13	41	35
BUFFALO & PITTSBURGH RAILROAD, INCORPORATED	0	2	0	0	0	2
BELT RAILWAY COMPANY OF CHICAGO	0	1	0	1	0	0
CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY	1	0	0	0	1	0
CENTRAL CALIFORNIA TRACTION COMPANY	0	1	0	1	0	0
CENTRAL OF GEORGIA RAILROAD COMPANY	2	2	0	0	2	2
CENTRAL MICHIGAN RAILWAY COMPANY	0	1	0	0	0	1
CHICAGO MISSOURI & WESTERN RAILWAY	2	2	2	0	0	2
CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RAILWAY	4	1	0	0	4	1
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY	18	18	11	13	7	5
CONSOLIDATED RAIL CORPORATION	61	89	22	35	39	54
CHICAGO SOUTHSHORE & SOUTH BEND RAILROAD	3	1	2	1	1	0
CSX TRANSPORTATION	63	96	11	20	52	76
DENVER AND RIO GRANDE WESTERN RAILROAD COMPANY	1	0	0	0	1	0
FLORIDA EAST COAST RAILWAY COMPANY	23	43	12	27	11	16
FOX RIVER VALLEY RAILROAD CORPORATION	1	0	0	0	1	0
GEORGIA SOUTHERN & FLORIDA COMPANY	2	1	0	0	2	1
GRAND TRUNK WESTERN RAILROAD COMPANY	1	2	0	0	1	2
ILLINOIS CENTRAL RAILROAD COMPANY	4	5	2	2	2	3
INDIANA HARBOR BELT RAILROAD COMPANY	0	12	0	10	0	2
INDIANA HI-RAIL CORPORATION	0	1	0	1	0	0
KANSAS CITY SOUTHERN RAILWAY COMPANY	2	2	1	0	1	2
LOUISIANA & ARKANSAS RAILWAY COMPANY	0	3	0	0	0	3
LONG ISLAND RAIL ROAD	29	21	6	8	23	13
MERIDIAN & BIGBEE RAILROAD COMPANY	0	2	0	2	0	0
MONONGAHELA RAILWAY COMPANY	0	1	0	0	0	1
METRO NORTH COMMUTER RAILROAD COMPANY	1	9	0	3	1	6
MONTANA RAIL LINK	2	5	0	0	2	5
MIDSOUTH RAIL CORPORATION	0	1	0	0	0	1
NORTHEAST ILLINOIS REGIONAL COMMUTER RAIL CORPORAT	10	28	5	24	5	4
NEW JERSEY TRANSIT RAIL OPERATIONS	22	10	5	0	17	10
NORFOLK AND PORTSMOUTH BELT LINE RAILROAD COMPANY	0	1	0	0	0	1
NORFOLK AND WESTERN RAILWAY COMPANY	22	42	4	18	18	24
NORTHWESTERN PACIFIC RAILROAD COMPANY	0	1	0	1	0	0
PEARL RIVER VALLEY RAILROAD COMPANY	0	1	0	0	0	1
PORT TERMINAL RAILROAD ASSOCIATION	1	6	1	5	0	1
RICHMOND, FREDERICKSBURG & POTOMAC RAILROAD COMPAN	1	1	0	0	1	1
SOUTH CAROLINA CENTRAL RAILROAD CO., INC.	1	0	0	0	1	0
SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY	6	16	0	9	6	7
SOO LINE RAILROAD COMPANY	10	22	2	13	8	9
SOUTHERN RAILWAY COMPANY	38	63	7	19	31	44
SOUTHERN PACIFIC TRANSPORTATION COMPANY	46	92	10	37	36	55
SABINE RIVER & NORTHERN RAILROAD COMPANY	0	2	0	2	0	0
ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	8	11	5	6	3	5
SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMONT)	0	9	0	5	0	4
TEXAS MEXICAN RAILWAY COMPANY	0	1	0	0	0	1
UNION PACIFIC RAILROAD COMPANY	58	112	25	52	33	60
WINCHESTER AND WESTERN RAILROAD COMPANY	0	1	0	1	0	0
FINAL TOTALS	641	898	200	370	441	528

TABLE E-4. TRESPASSER CASUALTIES BY STATE

STATE	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING KILLED	AT RAIL-HIGHWAY GRADE CROSSING INJURED	NOT AT RAIL-HWY GRADE CROSSING KILLED	NOT AT RAIL-HWY GRADE CROSSING INJURED
Alabama	8	12	1	3	7	9
Arizona	15	13	3	1	12	12
Arkansas	7	12	5	6	2	6
California	51	93	16	28	35	65
Colorado	6	8	0	2	6	8
Connecticut	4	7	1	2	3	5
Delaware	3	3	0	0	3	3
Dist Of Columbia	2	0	0	0	2	0
Florida	53	66	22	34	31	32
Georgia	16	26	2	6	14	20
Idaho	2	3	2	0	0	3
Illinois	62	81	33	53	29	28
Indiana	24	37	15	25	9	12
Iowa	3	17	2	13	1	4
Kansas	10	14	4	6	6	8
Kentucky	11	12	3	1	8	11
Louisiana	6	18	0	4	6	14
Maine	0	6	0	4	0	2
Maryland	8	8	1	0	7	8
Massachusetts	8	14	0	4	8	10
Michigan	10	29	4	18	6	11
Minnesota	10	9	3	5	7	4
Mississippi	5	4	2	0	3	4
Missouri	13	10	5	2	8	8
Montana	4	6	0	1	4	5
Nebraska	8	12	3	11	5	1
Nevada	5	8	2	6	3	2
New Jersey	30	17	6	1	24	16
New Mexico	3	7	0	0	3	7
New York	53	42	9	11	44	31
North Carolina	23	30	6	10	17	20
Ohio	22	27	9	10	13	17
Oklahoma	13	13	8	3	5	10
Oregon	8	21	4	8	4	13
Pennsylvania	24	50	0	19	24	31
South Carolina	13	28	3	12	10	16
South Dakota	0	1	0	0	0	1
Tennessee	13	16	3	7	10	9
Texas	42	80	11	47	31	33
Utah	2	0	1	0	1	0
Virginia	15	19	8	6	7	13
Washington	13	9	1	0	12	9
West Virginia	5	5	0	1	5	4
Wisconsin	7	4	1	2	6	2
Wyoming	1	1	1	0	0	1
FINAL TOTALS	641	898	200	370	441	528