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of Transportation
**Federal Railroad
Administration**

HIGHWAY-RAIL CROSSING ACCIDENT/INCIDENT AND INVENTORY BULLETIN

Office of Safety

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NOTICE

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
INTRODUCTION	1
RESOURCE ALLOCATION PROCEDURE CONSTANTS	2
TABLE-S. Summary of Highway-Rail Crossing Accident Statistics for the Nation	3
HISTORICAL ACCIDENT TRENDS - GRAPHS	5
FIGURE 1. Summary of Accidents/Incidents and Casualties at Public Highway-Rail Crossings	6
FIGURE 2. Summary of Motor Vehicle Accidents/ Incidents and Rates at Public Highway-Rail Crossings	6
FIGURE 2A. Summary of Motor Vehicle Accidents/ Incidents at Public Highway-Rail Crossings and Number of Crossings	7
HISTORICAL ACCIDENT TRENDS - DATA	9
TABLE 1. Summary of Accidents/Incidents and Casualties at Highway-Rail Crossings	10
TABLE 2. Summary of Accidents/Incidents and Accident Rates at Highway-Rail Crossings Involving Motor Vehicles	10
CURRENT YEAR ACCIDENTS AT PUBLIC CROSSINGS ONLY - GRAPHS	11
FIGURE 3A. Accidents by Highway User	12
FIGURE 3B. Casualties by Highway User	12
FIGURE 4A. Motor Vehicle Accidents/Incidents	13
FIGURE 4B. PIE CHART - Injuries vs. Fatalities	13

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
FIGURE 5A. Motor Vehicle Accidents/Incidents by Train Speed	14
FIGURE 5B. Casualties by Rail Consist Speed	14
FIGURE 6A. Accidents by Warning Device Category	15
FIGURE 6B. Accidents by Warning Device Category - Casualties	15
FIGURE 7A. Accidents/Incidents by Number of Trains Per Day and Annual Average Daily Traffic	16
FIGURE 7B. Accidents/Incidents by Number of Trains Per Day and Warning Device Category	16
FIGURE 8. Crossing Accident Rate by Location	17
FIGURE 9. Crossing Accident Rate by Type Development	17
FIGURE 10. Crossing Accident Rate by Number of Tracks	18
FIGURE 11. Crossing Accident Rate by Number of Mainline Tracks	18
FIGURE 12. Crossing Accident Rate by Highway System	19
FIGURE 13. Crossing Accident Rate by Type of Urban Road	19
FIGURE 14. Crossing Accident Rate by Type of Rural Road	20
FIGURE 15. Crossing Accident Rate by Paved or Non-Paved Road Surface	20
FIGURE 16. Crossing Accident Rate by Number of Traffic Lanes	21
FIGURE 17. Crossing Accident Rate by Smallest Crossing Angle	21

TABLE OF CONTENTS cont.

<u>SECTION</u>		<u>PAGE</u>
FIGURE 18.	Crossing Accident Rate by Crossing Surface	22
FIGURE 19.	Crossing Accident Rate by Number of Trains Per Day	22
FIGURE 20.	Crossing Accident Rate by Number of Thru-Trains During Daylight Hours (6 a.m. to 6 p.m.)	23
FIGURE 21.	Crossing Accident Rate by Maximum Timetable Speed	23
FIGURE 22.	Crossing Accident Rate by Annual Average Daily Traffic	24
FIGURE 23.	Crossing Accident Rate by Number of Trains and Annual Average Daily Traffic	24
FIGURE 24.	Crossing Accident Rate by Warning Device Category	25
 CURRENT YEAR ACCIDENTS AT PUBLIC CROSSINGS ONLY - MAPS		
		27
FIGURE 25A.	Motor Vehicle Accidents/Incidents at Highway-Rail Crossings	28
FIGURE 25B.	Motor Vehicle Accidents/Incidents Killed at Highway-Rail Crossings	29
FIGURE 25C.	Motor Vehicle Accidents/Incidents at Crossings Injuries	30
 CURRENT YEAR ACCIDENT DATA AT PUBLIC CROSSINGS ONLY - DATA		
		31
TABLE 3.	Accidents/Incidents at Highway-Rail Crossings by State	32
TABLE 4.	MV Accidents/Incidents at Highway-Rail Crossings by State	33
TABLE 5.	Accidents/Incidents at Highway-Rail by Type of Motor Vehicle	34
TABLE 6.	MV Accidents/Incidents at Highway-Rail Crossings by Type of Consist	35

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
TABLE 7. MV Accidents/Incidents at Highway-Rail Crossings by Warning Device by Railroad	36
TABLE 7A. Accidents/Incidents at Highway-Rail by Railroad	37
TABLE 8. MV Accidents/Incidents at Highway-Rail Crossings by Warning Device by State	38
TABLE 9. Accidents/Incidents at Highway-Rail Crossings by Highway User	39
TABLE 10. MV Accidents/Incidents at Highway-Rail Crossings by Circumstance	39
TABLE 11. Accidents/Incidents at Highway-Rail Crossings by Type of Vehicle and Number of Occupants	39
TABLE 12. MV Accidents/Incidents at Highway-Rail Crossings by Type of Vehicle, Circumstance and Visibility	40
TABLE 13. Casualties at Highway Crossings by Type of Person Involved, Highway User, and Circumstance	41
TABLE 14. MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Speed of Vehicle, Circumstance, and Visibility	42
TABLE 15. MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Position and Type of Vehicle	42
TABLE 16. MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Speed of Train, Circumstance, and Visibility	43
TABLE 17. MV Accidents/Incidents at Highway-Rail Crossings by Railroad Equipment Involved, Part of Train Struck, Circumstance and Visibility	44

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
TABLE 18.	MV Accidents/Incidents at Highway-Rail Crossings by Train Speed and Type of Train 44
TABLE 19.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Number of Cars in Train and Type of Train 44
TABLE 20.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Length of Consists and Visibility 45
TABLE 21.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Type and Class of Track 46
TABLE 22.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Warning Device and Motorist Action 46
TABLE 23.	MV Accidents/Incidents at Highway-Rail Crossings by Operational Status of Warning Device, Circumstance, and Visibility 47
TABLE 24.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings During Dusk and Dark Hours by Illumination of Crossing and Circumstance 47
TABLE 25.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Location and Type of Warning Device, Circumstance and Visibility 48
TABLE 26.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Visibility and Circumstance 49
TABLE 27.	MV Accidents/Incidents at Highway-Rail Crossings by Visibility and Circumstance 49

TABLE OF CONTENTS cont.

<u>SECTION</u>		<u>PAGE</u>
TABLE 28.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Time of Day and Circumstance	50
TABLE 29.	MV Accidents/Incidents and Casualties at Highway-Rail Crossings by Month and Circumstance	50
TABLE 30.	MV Accidents/Incidents at Highway-Rail Crossings by Weather Conditions, Circumstance and Visibility	51
TABLE 31.	MV Accidents/Incidents at Highway-Rail Crossings by Obstruction of Motorist View, Circumstance and Visibility	51
TABLE 32.	MV Accidents/Incidents at Highway-Rail Crossings by Motorist Action and Type of Vehicle.	51
 HIGHWAY-RAIL CROSSING		
	INVENTORY - GRAPHS	53
FIGURE 26.	Crossings by Type of Development	54
FIGURE 27.	Crossings by Number of Tracks	54
FIGURE 28.	Crossings by Number of Lanes	55
FIGURE 29.	Crossings by Warning Device Category	55
FIGURE 30.	Crossings by Smallest Crossing Angle	56
FIGURE 31.	Crossings by Crossing Surface.	56
FIGURE 32.	Crossings by Number of Trains Per Day and Warning Device Category	57
FIGURE 34.	Crossings by Number of Trains Per Day and Type of Warning Device	57
FIGURE 35.	Crossings by Annual Average Daily Traffic	58
 HIGHWAY-RAIL CROSSING INVENTORY		
	MAPS	59
FIGURE 37A.	Number of Public Crossings by State	60

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
FIGURE 37B. Number of Private Crossings by State	61
HIGHWAY-RAIL CROSSING INVENTORY	
DATA	63
TABLE 33. Total Public and Private Crossings by State and Type	64
TABLE 34. Total Public and Private Crossings by Railroad and Type	65
TABLE 35. Total Crossings by State and Location: Urban or Rural	67
TABLE 36. Total Crossings by Number of Main and Other Tracks	68
TABLE 37. Total Crossings by Number of Tracks and Warning Device Category	68
TABLE 38. Total Crossings by Number of Tracks and Traffic Lanes	68
TABLE 39. Total Crossings by Number of Tracks and State	69
TABLE 40. Total Crossings by Type of Highway System and State	70
TABLE 41. Total Crossings by Highway System Group and State	71
TABLE 42. Total Crossings by Functional Classification of Road at Highway-Rail Crossings	72
TABLE 43. Total Crossings by Number of Traffic Lanes and State	72
TABLE 44. Total Crossings by Number of Traffic Lanes and Warning Device Category	73
TABLE 45. Total Crossings by Warning Device Category and State	73
TABLE 46. Total Crossings by Warning Device Category and Railroad	74

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
TABLE 47.	Total Crossings by Pavement Markings and State 76
TABLE 48.	Total Crossings by Railroad Advance Warning and State 77
TABLE 49.	Total Crossings Meeting the Manual on Uniform Traffic Control Devices' Standard for Crossbucks by State . . 78
TABLE 50.	Total Crossings by Total Number of Trains Per Day 79
TABLE 51.	Total Crossings by Number of Thru Trains and Switching Trains Per Day 79
TABLE 52.	Total Crossings by Number of Day and Night Trains Per Day 79
TABLE 53.	Total Crossings by Number of Trains Per day and Warning Device Category 80
TABLE 54.	Total Crossings by Number of Trains Per Day and Annual Average Daily Traffic 80
TABLE 55.	Total Crossings by Maximum Timetable Speed 80
TABLE 56.	Total Crossings by Typical Train Speed Variation 81
TABLE 57.	Total Crossings by Annual Average Daily Traffic 81
TABLE 58.	Total Crossings by Annual Average Daily Traffic and Warning Device Category 81
TABLE 59.	Total Crossings by Truck Traffic As a Percentage of Annual Average Daily Traffic 82
TABLE 60.	Total Crossings by Crossing Surface . 83

TABLE OF CONTENTS cont.

<u>SECTION</u>	<u>PAGE</u>
TABLE 61. Total Crossings by Maximum Timetable Speed, Warning Device Category and Number of Tracks	84
SUMMARY OF ACCIDENT/INCIDENT AND INVENTORY DATA FOR PRIVATE CROSSINGS	
TABLE 62. MV Accidents/Incidents at Private Highway-Rail Crossings by Type of Consist	86
TABLE 63. MV Accidents/Incidents at Private Highway-Rail Crossings by State and Warning Device	87
TABLE 64. Accidents/Incidents at Private Highway- Rail Crossings by Highway User	88
TABLE 65. MV Accidents/Incidents at Private Highway-Rail Crossings by Warning Device Category and Motorist Action.	88
TABLE 66. MV Accidents/Incidents at Private Highway-Rail Crossings by Speed of Train, Circumstance and Visibility	89
TABLE 67. MV Accidents/Incidents at Private Highway-Rail Crossings by Railroad and Warning Device Category	90
TABLE 68. Accidents/Incidents and Casualties at Private Highway-Rail Crossings by by Railroad	91
TABLE 69. MV Accidents/Incidents and Casualties at Private Highway-Rail Crossings by Speed of Consist	92
TABLE 70. MV Accidents/Incidents and Casualties at Private Highway-Rail Crossings by Length of Consist	92

TABLE OF CONTENTS cont.

<u>SECTION</u>		<u>PAGE</u>
TABLE 71.	MV Accidents/Incidents at Private Highway-Rail Crossings by Operational Status of Warning Device, Circumstance and Visibility	93
TABLE 72.	Private Crossings At-Grade by State and Type Development	94
TABLE 73.	Private Crossings At-Grade by State and Type Warning Device	95
TABLE 74.	Private Crossings At-Grade by Type Development and Warning Device	95
TABLE 75.	Private Crossings At-Grade by Railroad and Type Development	96
TABLE 76.	Private Crossings At-Grade by Railroad and Type Warning Device	98
APPENDIX A - REPORTING REQUIREMENTS AND DEFINITIONSA-1
APPENDIX B - REPORTING FORMSB-1

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
LOCO(S)	-	Locomotive
MUTCD	-	Manual on Uniform Traffic Control Devices
MV	-	Motor Vehicle
NONT	-	Non-Trespasser
PSGR	-	Passenger
SIG	-	Signal
TRES	-	Trespasser
VEH REG	-	Vehicles Registered

TABLE 4. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY STATE, 1993, CORRECTION

State	No. Of Acc/Inc	-----Casualties-----			Vehicles Registered	--Per 10,000 Registration--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj.
Alabama.....	164	23	53	76	3,402,000	.48	.07	.16
Alaska.....	9	---	4	4	512,000	.18	---	.08
Arizona.....	26	2	10	12	2,861,000	.09	.01	.03
Arkansas.....	136	21	54	75	1,538,000	.88	.14	.35
California.....	152	29	39	68	23,082,000	.07	.01	.02
Colorado.....	53	7	21	28	2,983,000	.18	.02	.07
Connecticut.....	10	1	4	5	2,605,000	.04	---	.02
Delaware.....	10	---	6	6	567,000	.18	---	.11
Dist. of Columbia	---	---	---	---	264,000	---	---	---
Florida.....	101	16	68	84	10,686,000	.09	.01	.06
Georgia.....	144	18	61	79	6,179,000	.23	.03	.10
Idaho.....	43	6	13	19	1,065,000	.40	.06	.12
Illinois.....	257	41	102	143	8,192,000	.31	.05	.12
Indiana.....	270	33	88	121	4,717,000	.57	.07	.19
Iowa.....	125	10	44	54	2,898,000	.43	.03	.15
Kansas.....	97	5	32	37	2,012,000	.48	.02	.16
Kentucky.....	66	5	36	41	3,059,000	.22	.02	.12
Louisiana.....	199	19	93	112	3,178,000	.63	.06	.29
Maine.....	4	---	1	1	1,005,000	.04	---	.01
Maryland.....	12	---	4	4	3,814,000	.03	---	.01
Massachusetts....	9	---	---	---	3,684,000	.02	---	---
Michigan.....	151	14	78	92	7,538,000	.20	.02	.10
Minnesota.....	116	15	38	53	3,659,000	.32	.04	.10
Mississippi.....	120	13	62	75	2,025,000	.59	.06	.31
Missouri.....	100	12	36	48	4,125,000	.24	.03	.09
Montana.....	22	8	6	14	955,000	.23	.08	.06
Nebraska.....	74	10	20	30	1,392,000	.53	.07	.14
Nevada.....	---	---	---	---	970,000	---	---	---
New Hampshire....	3	---	---	---	914,000	.03	---	---
New Jersey.....	44	2	29	31	5,764,000	.08	---	.05
New Mexico.....	22	4	22	26	1,405,000	.16	.03	.16
New York.....	37	6	15	21	9,966,000	.04	.01	.02
North Carolina...	149	12	47	59	5,471,000	.27	.02	.09
North Dakota....	36	7	16	23	684,000	.53	.10	.23
Ohio.....	252	40	92	132	9,413,000	.27	.04	.10
Oklahoma.....	116	12	61	73	2,844,000	.41	.04	.21
Oregon.....	39	6	8	14	2,713,000	.14	.02	.03
Pennsylvania.....	92	7	35	42	8,476,000	.11	.01	.04
Rhode Island.....	---	---	---	---	636,000	---	---	---
South Carolina...	74	17	33	50	2,613,000	.28	.07	.13
South Dakota.....	29	---	15	15	753,000	.39	---	.20
Tennessee.....	96	9	22	31	4,827,000	.20	.02	.05
Texas.....	452	65	184	249	13,032,000	.35	.05	.14
Utah.....	25	5	5	10	1,301,000	.19	.04	.04
Vermont.....	2	---	4	4	483,000	.04	---	.08
Virginia.....	69	4	17	21	5,455,000	.13	.01	.03
Washington.....	55	4	11	15	4,556,000	.12	.01	.02
West Virginia....	28	1	8	9	1,297,000	.22	.01	.06
Wisconsin.....	147	8	78	86	3,985,000	.37	.02	.20
Wyoming.....	3	---	2	2	512,000	.06	---	.04
Unknown.....	---	---	---	---	---	---	---	---
Total.....	4,240	517	1,677	2,194	196,067,000	.22	.03	.09

Note: Vehicle registration figures are for 1993 and were supplied by the Federal Highway Administration. Registration figures for Hawaii are omitted because it does not have any reporting railroads.

INTRODUCTION

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

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

* * * * *

Tables and figures retain the number identification used in prior years. Information on accidents/incidents and crossings is presented in the following sequence:

Historical data on highway-rail crossing accidents/incidents at public crossings.

Summary of 1994 accidents/incidents that occurred at public crossing sites.

Physical and operational statistics for all public at-grade highway-rail crossings as described in the inventory on June 9, 1995.

Summary of 1994 accidents/incidents occurring at private highway-rail crossings and tabulations of private crossings in the inventory.

The tables and figures in Sections 1, 2, 3, 4, and Appendix C furnish data on public highway-rail crossings; although tables 33 and 34 in Section 4 include counts of the number of 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.

**1992/3 ACCIDENT PREDICTION AND
RESOURCE ALLOCATION PROCEDURE CONSTANTS**

The U.S. DOT Highway-Rail 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 have been adjusted periodically in order to keep the formulas matched with current accident trends. The last readjustment was made for Calendar Year 1992 and was published in Bulletin No. 14.

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

These constants were redetermined for the "national" model using the crossings in the inventory as of December 31, 1991. Organizations using the "DOT Model" should update their models by replacing the old constants with the recalculated constants. The constants referenced here are located in the computer program ACPD.NEW as shown in the coding at the top of page A-4, Appendix A1 of the User's Guide Third Edition and in RESAL.NEW on page B-3, Appendix B1.

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

**ACCIDENT PREDICTION AND RESOURCE ALLOCATION
PROCEDURE NORMALIZING CONSTANTS**

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

The Resource Allocation Procedure is currently being reviewed and, if merited, may be revised. (This project is one of 55 actions identified within the Department of Transportation's recently released Highway-Rail Crossing Safety Action Plan.) As such, recalculation of the "normalizing constants" for the existing accident prediction formulas has been deferred until this review is complete. Users of the "DOT Model" should continue to use the 1992 constants detailed above.

TABLE-S. SUMMARY OF HIGHWAY-RAIL CROSSING ACCIDENT STATISTICS FOR THE NATION

YEAR	ACCI	TOTAL		MOTOR VEHICLES			NON-MOTOR VEHICLES		
		FATAL	INJ	ACCI	FATAL	INJ	ACCI	FATAL	INJ
1989									
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
1990									
PUBLIC	5,233	648	2,254	5,022	568	2,186	211	80	68
PRIVATE	480	50	153	458	46	146	22	4	7
TOTAL	5,713	698	2,407	5,480	614	2,332	233	84	75
1991									
PUBLIC	4,861	565	1,923	4,677	497	1,866	184	68	57
PRIVATE	525	43	171	495	38	163	30	5	8
TOTAL	5,386	608	2,094	5,172	535	2,029	214	73	65
1992									
PUBLIC	4,465	536	1,830	4,269	466	1,752	196	70	78
PRIVATE	445	43	145	415	40	139	30	3	6
TOTAL	4,910	579	1,975	4,684	506	1,891	226	73	84
1993									
PUBLIC	4,437	584	1,744	4,240	517	1,677	197	67	67
PRIVATE	455	42	93	421	37	83	34	5	10
TOTAL	4,892	626	1,837	4,661	554	1,760	231	72	77
1994									
PUBLIC	4,503	572	1,829	4,296	501	1,764	207	71	65
PRIVATE	476	43	132	450	41	121	26	2	11
TOTAL	4,979	615	1,961	4,746	542	1,885	233	73	76

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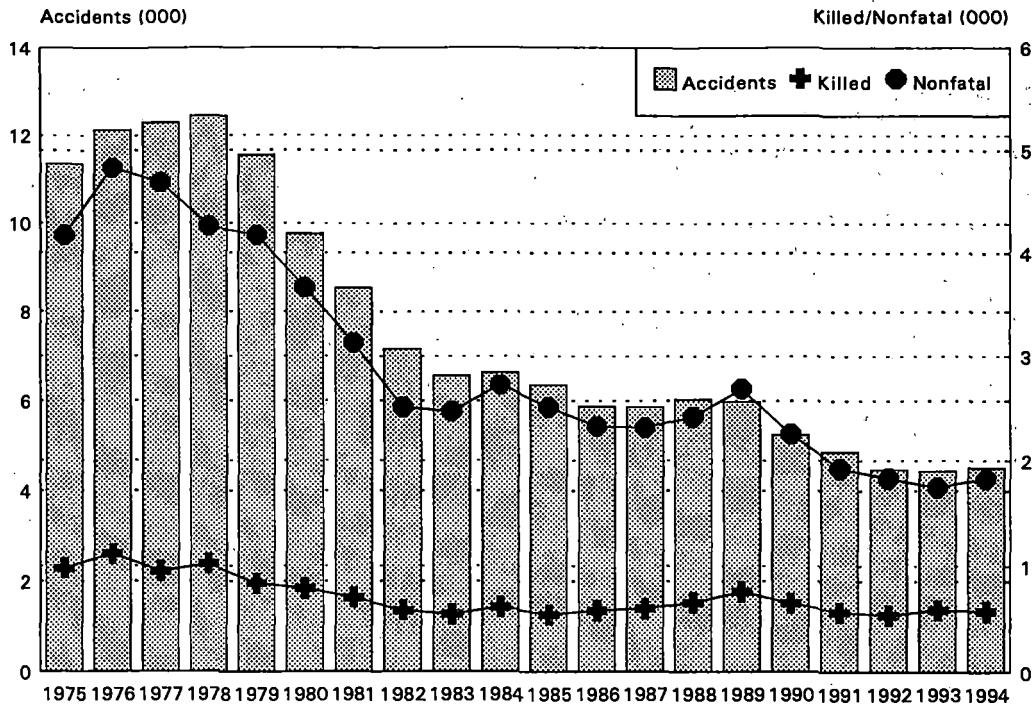
(G R A P H S)

HISTORICAL ACCIDENT TRENDS

FOR

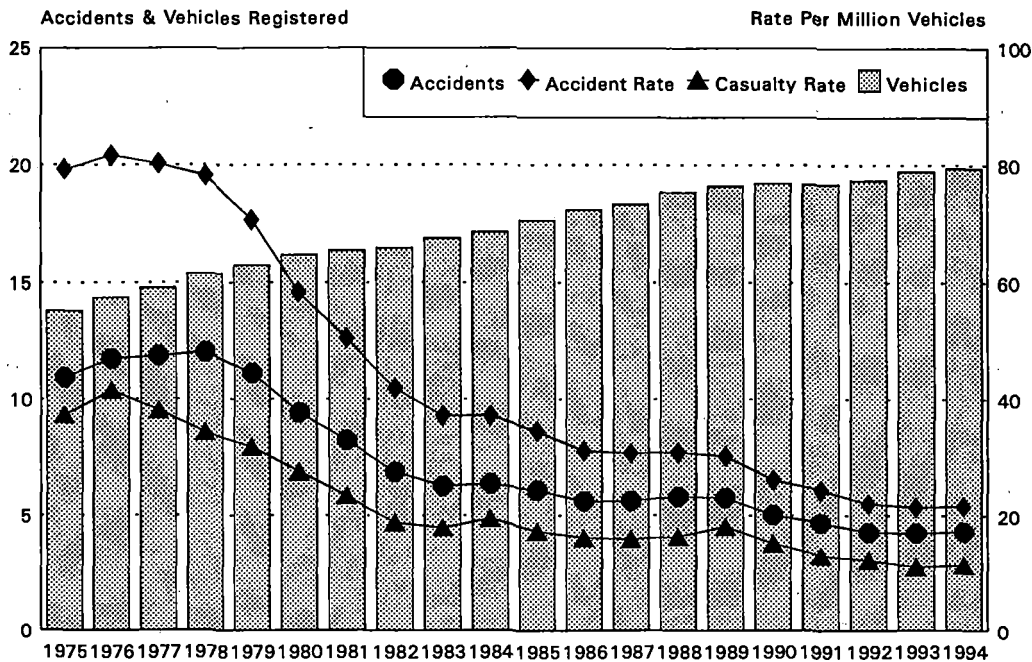
PUBLIC CROSSINGS ONLY

FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT PUBLIC HIGHWAY-RAIL CROSSINGS



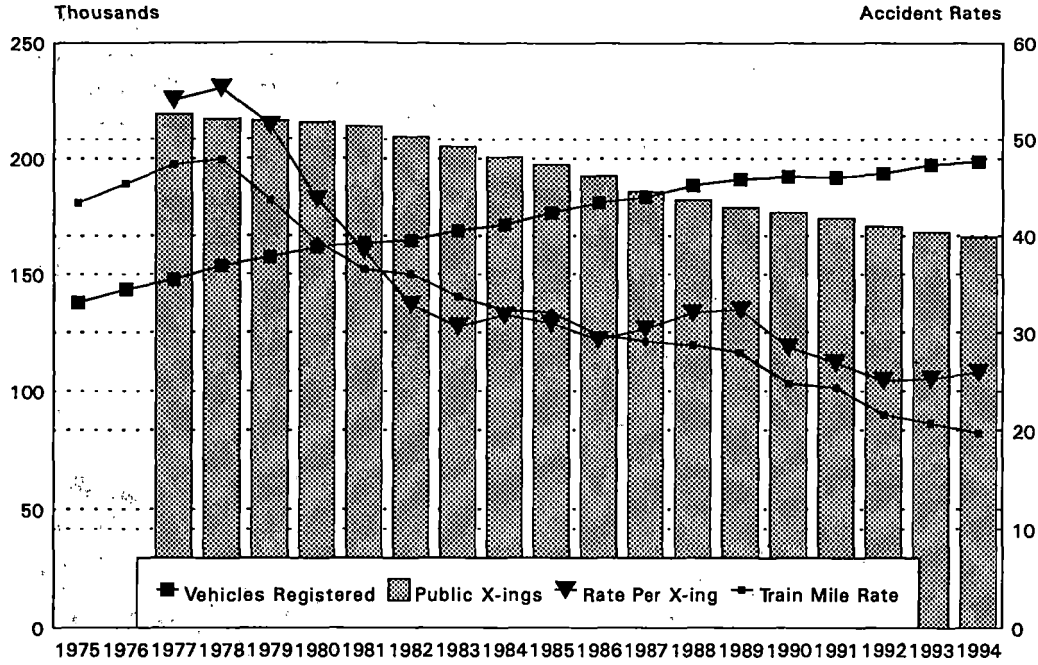
For accidents use scale on left axis, casualties use scale on right axis.

FIGURE 2. SUMMARY OF MOTOR VEHICLE ACCIDENTS/INCIDENTS AND RATES AT PUBLIC HIGHWAY-RAIL CROSSINGS



The number of accidents are shown in thousands using left axis.
 The number of registered vehicles are shown in ten thousands using left axis.
 Accident and casualty rates use right axis.

FIGURE 2A. SUMMARY OF MOTOR VEHICLE ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS AND NUMBER OF CROSSINGS



PUBLIC AT GRADE CROSSINGS

Accident rates are shown in terms of the frequency per 1,000 public at grade crossings, and the frequency per 3,000,000 train miles operated.

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(D A T A)

HISTORICAL ACCIDENT TRENDS

FOR

PUBLIC CROSSINGS ONLY

TABLE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES
AT HIGHWAY-RAIL PUBLIC CROSSINGS

YEAR	NUMBER OF ACCIDENTS	TOTAL		CASUALTIES	
		KILLED	INJURED	CASUALTIES	PER ACCIDENT
1989	5,979	757	2,683	3,440	0.58
1990	5,233	648	2,254	2,902	0.55
1991	4,861	565	1,923	2,488	0.51
1992	4,465	536	1,830	2,366	0.52
1993	4,437	584	1,744	2,328	0.52
1994	4,503	572	1,829	2,401	0.53

TABLE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT
HIGHWAY-RAIL PUBLIC CROSSINGS INVOLVING MOTOR VEHICLES

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000) ¹	ACCIDENTS PER MILLION VEHICLES
1989	5,772	190,940	30.23
1990	5,022	192,123	26.14
1991	4,677	191,743	24.39
1992	4,269	193,430	22.07
1993	4,240	197,254	21.49
1994	4,296	198,620 ²	21.63

¹Figures supplied by the Federal Highway Administration

²1994 MOTOR VEHICLE NUMBERS ARE PRELIMINARY.
Registration figures for Hawaii are omitted because it does not
have any reporting railroads.

(G R A P H S)

CURRENT YEAR ACCIDENTS

AT

PUBLIC CROSSINGS ONLY

FIGURE 3A. ACCIDENTS BY HIGHWAY USER

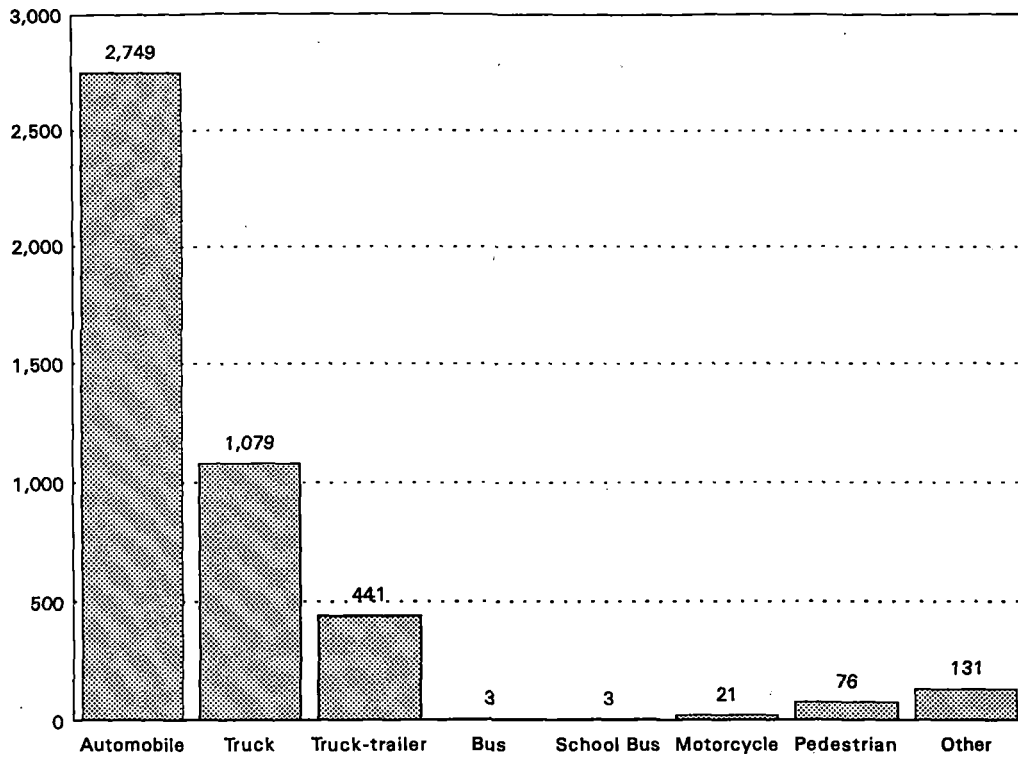


FIGURE 3B. CASUALTIES BY HIGHWAY USER

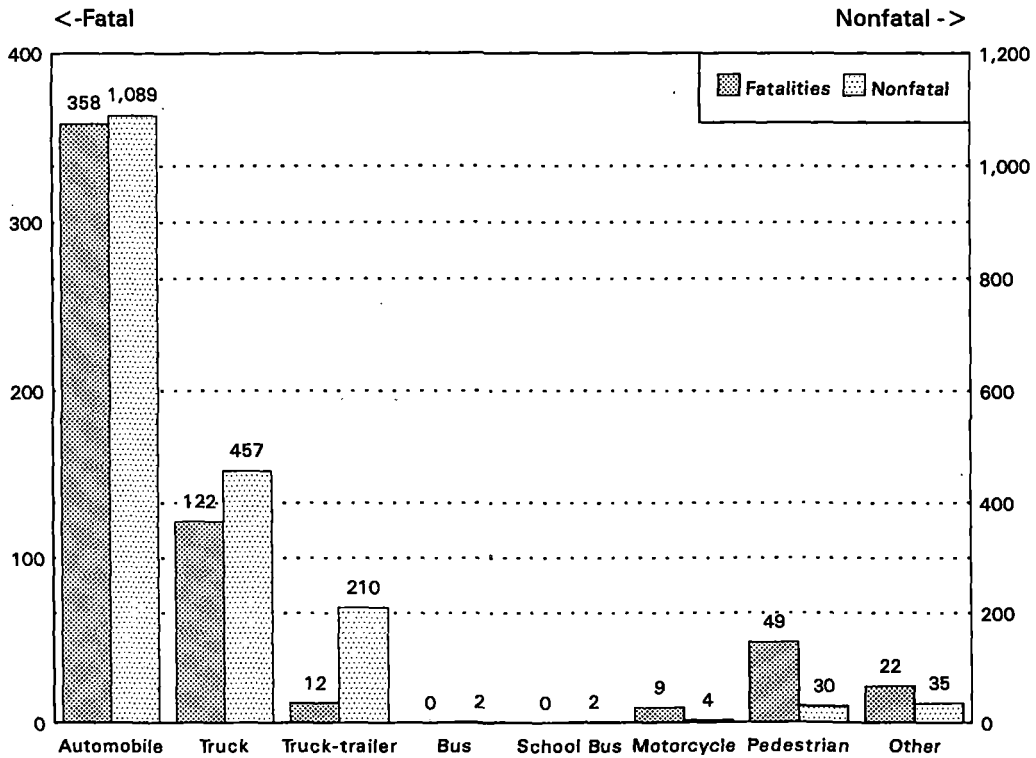


FIGURE 4A. MOTOR VEHICLE ACCIDENTS/INCIDENTS

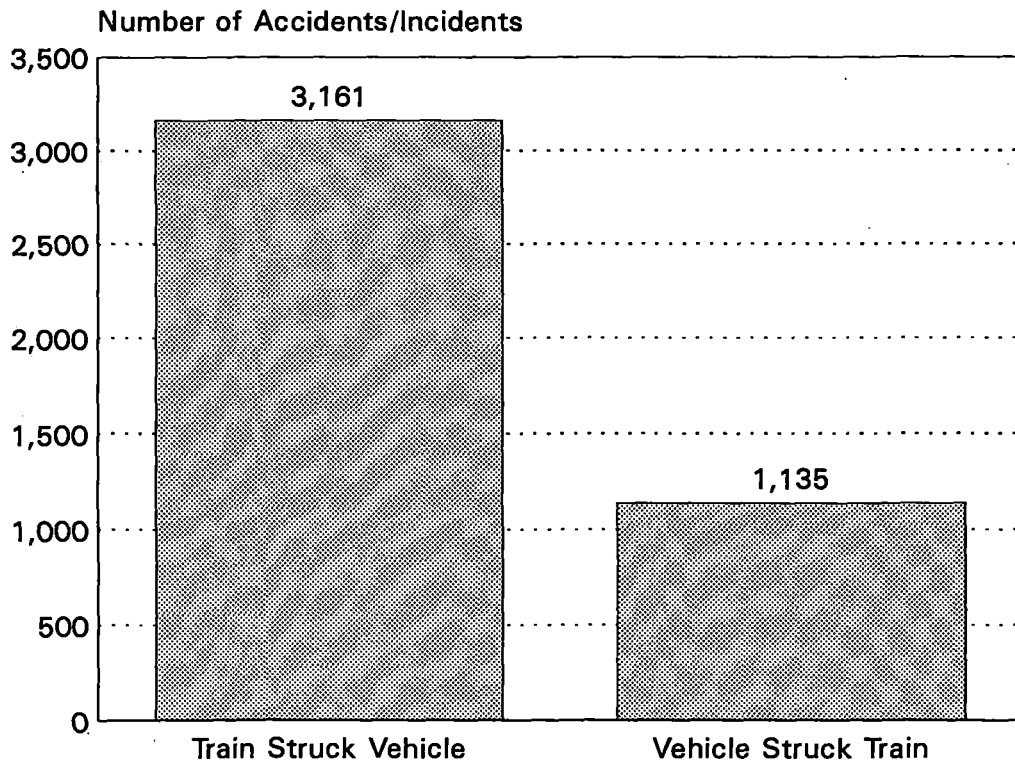


FIGURE 4B. CASUALTIES IN MOTOR VEHICLE ACCIDENT/INCIDENTS

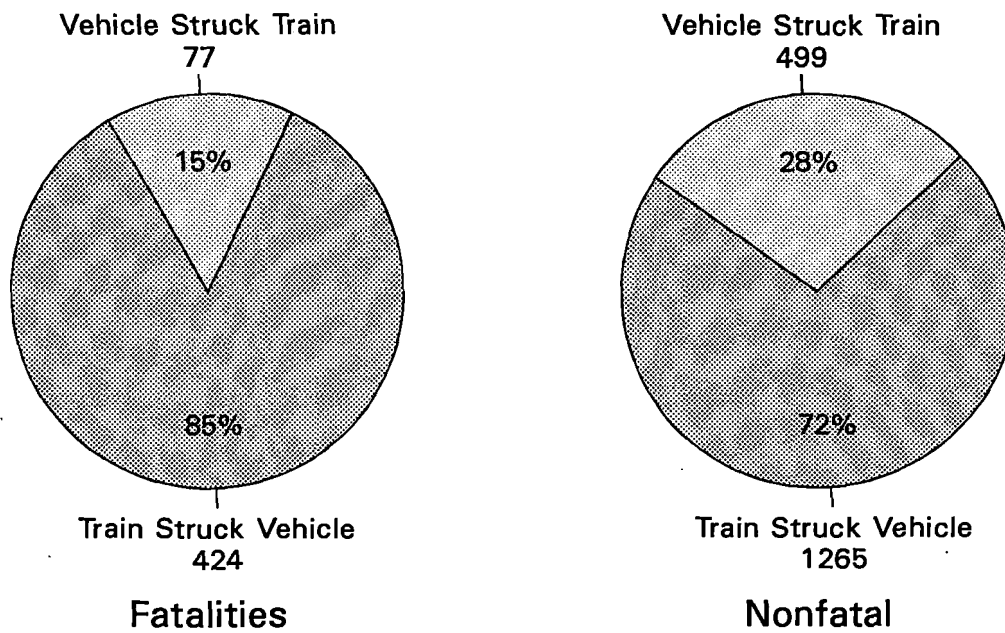


FIGURE 5A. MOTOR VEHICLE ACCIDENTS/INCIDENTS BY RAIL CONSIST SPEED

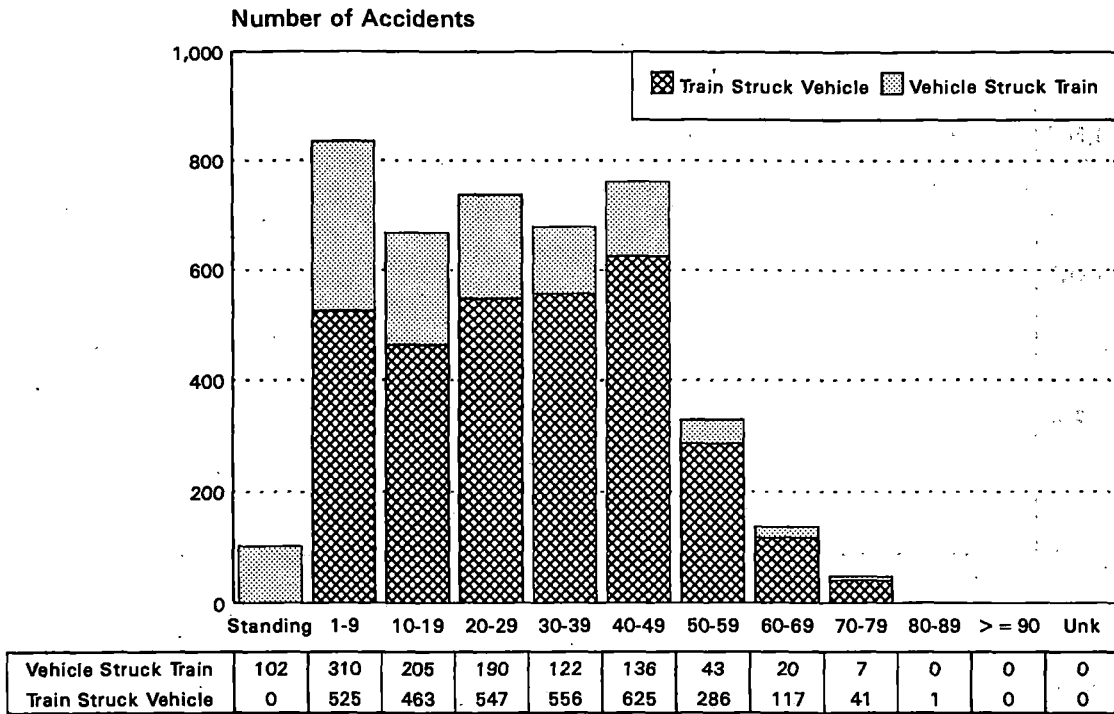


FIGURE 5B. CASUALTIES BY RAIL CONSIST SPEED

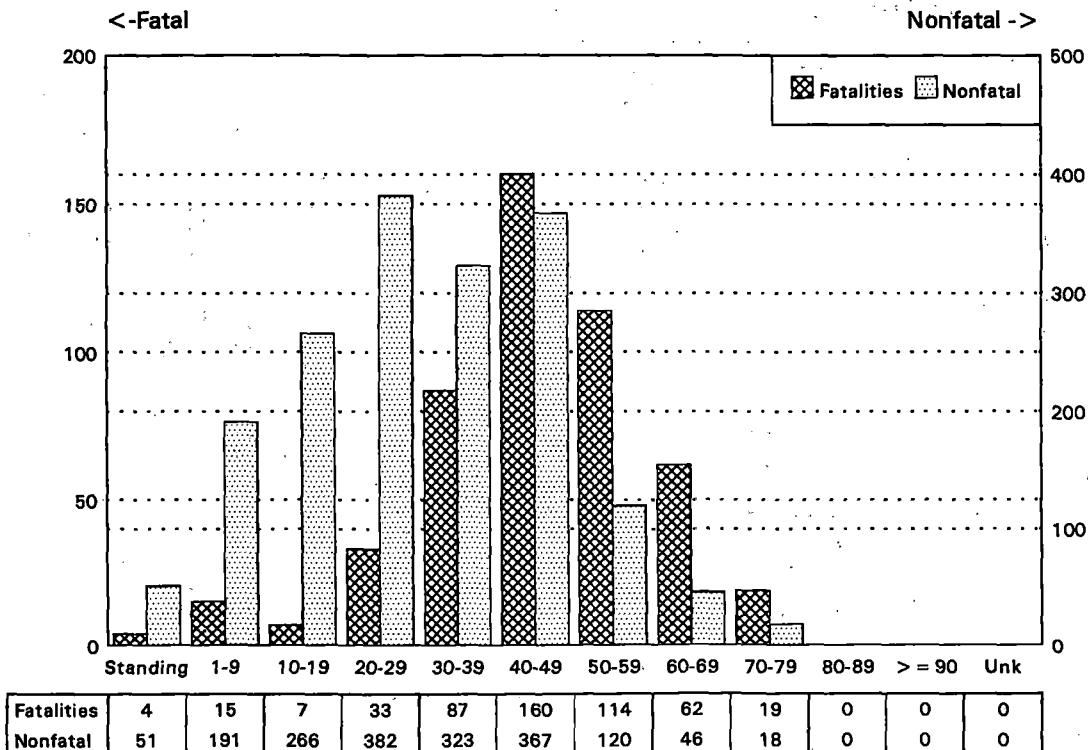
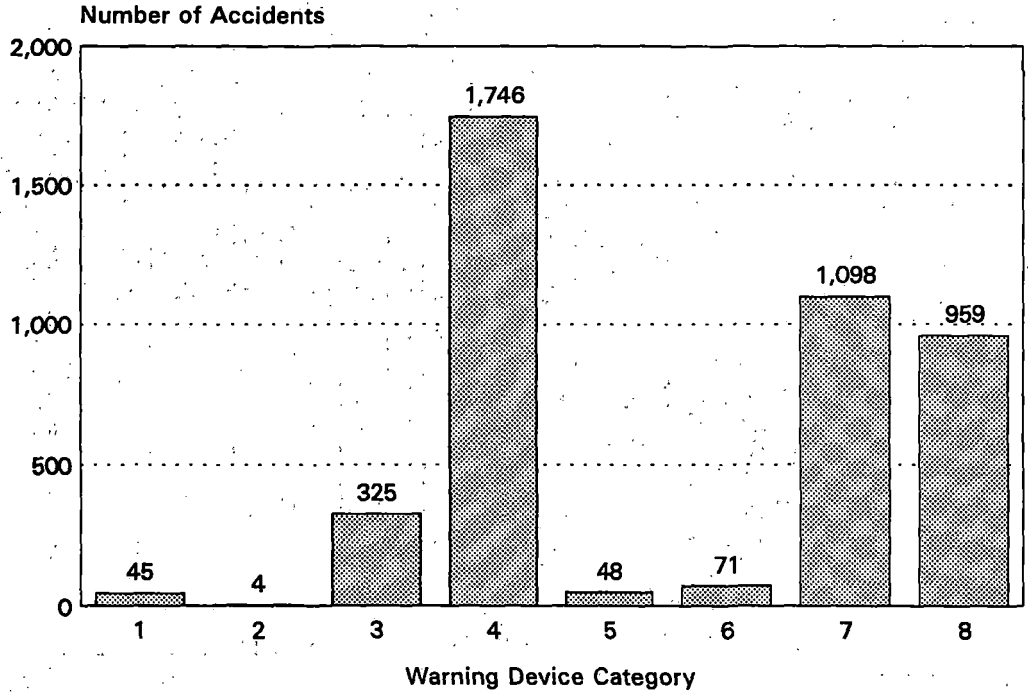


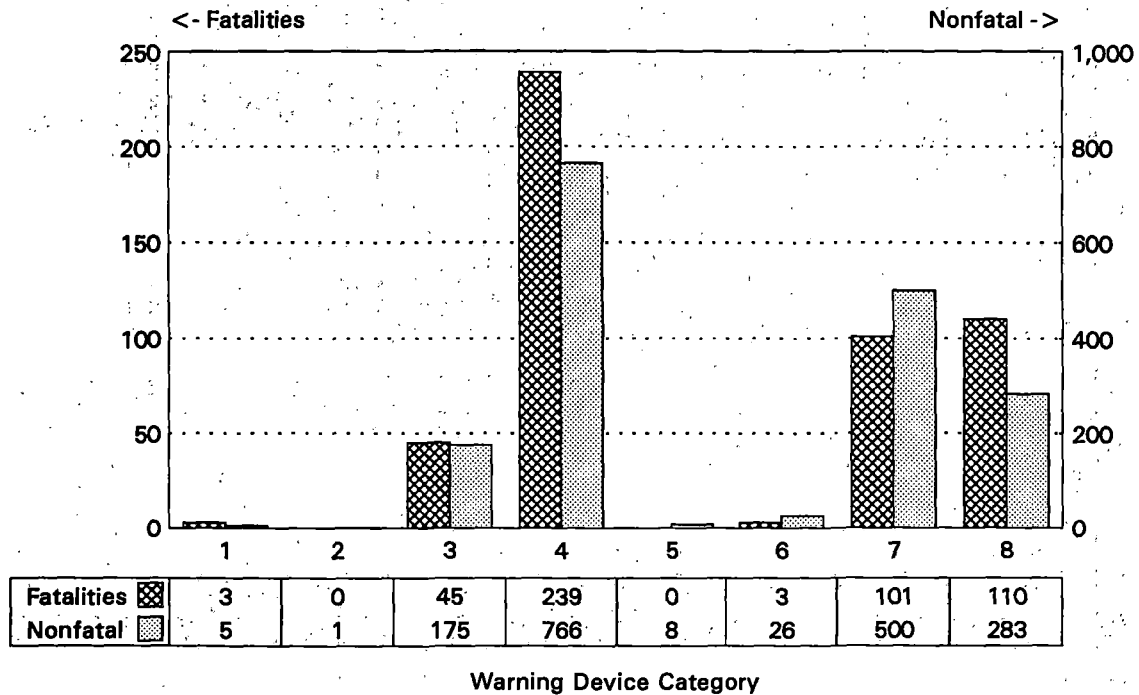
FIGURE 6A. ACCIDENTS BY WARNING DEVICE CATEGORY



Motor vehicle accidents

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

FIGURE 6B. CASUALTIES BY WARNING DEVICE CATEGORY



Motor vehicle accidents

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

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

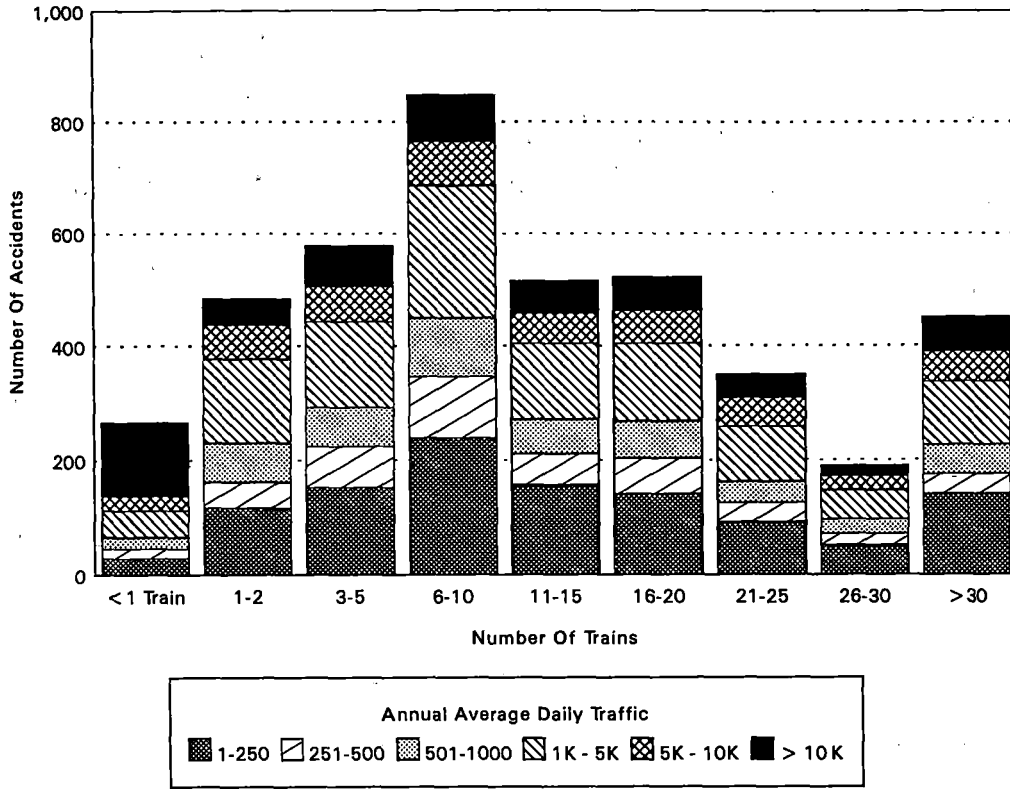


FIGURE 7B. ACCIDENTS/INCIDENTS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

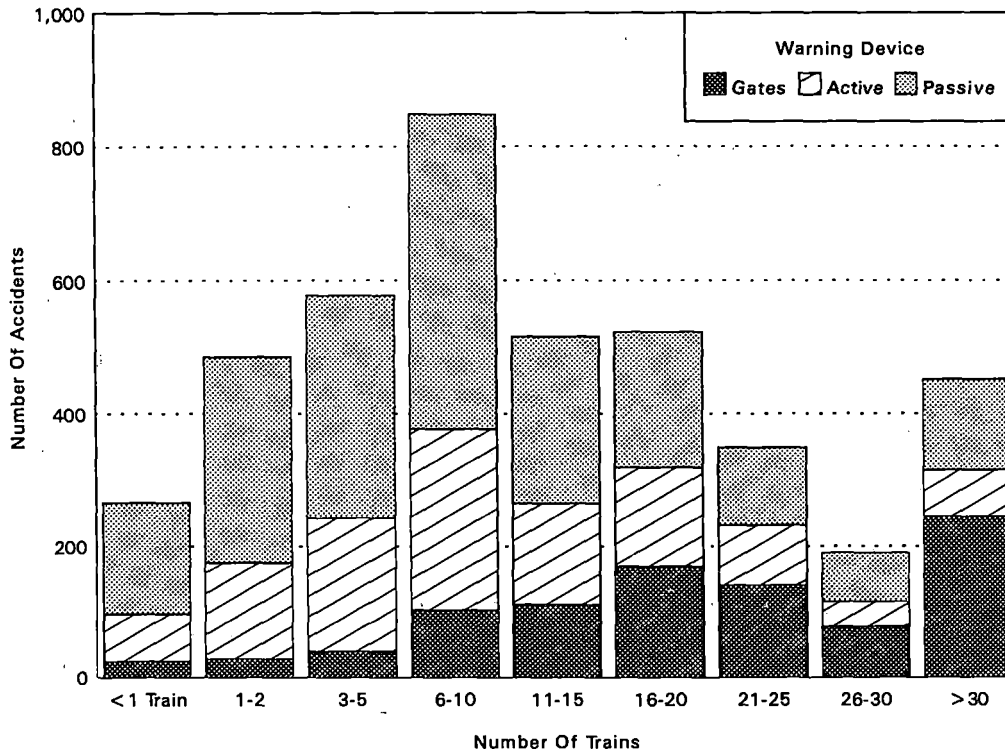
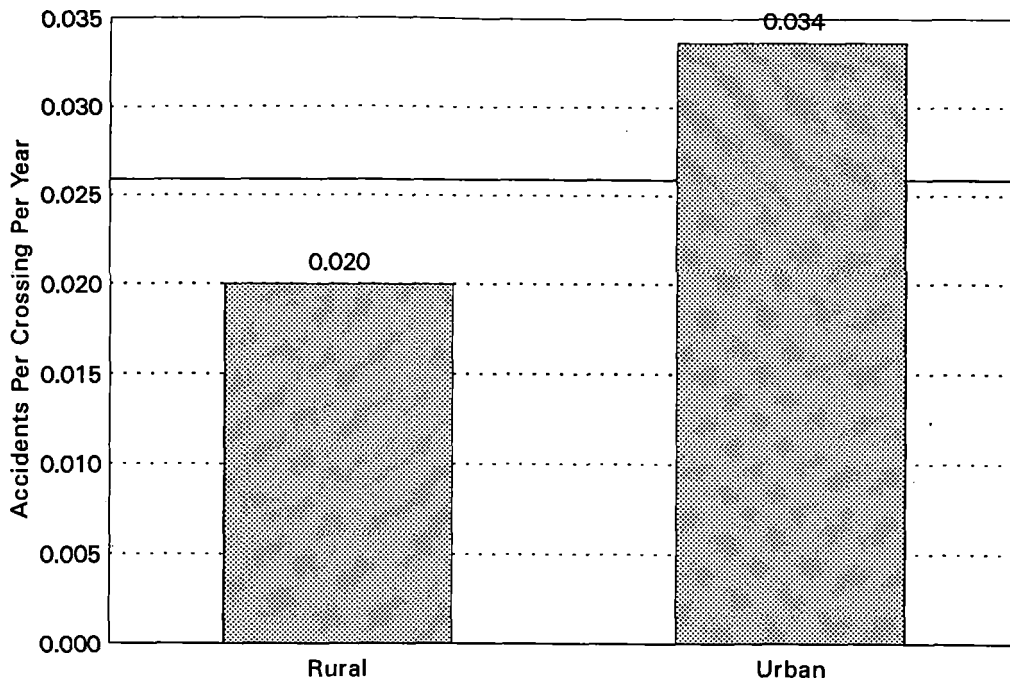
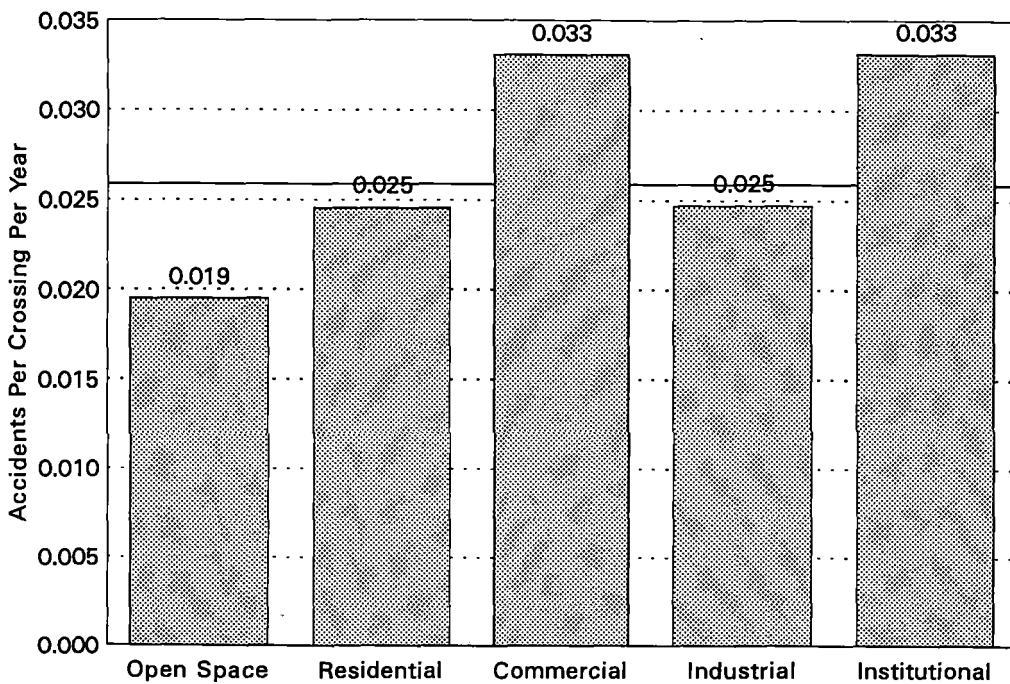


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION



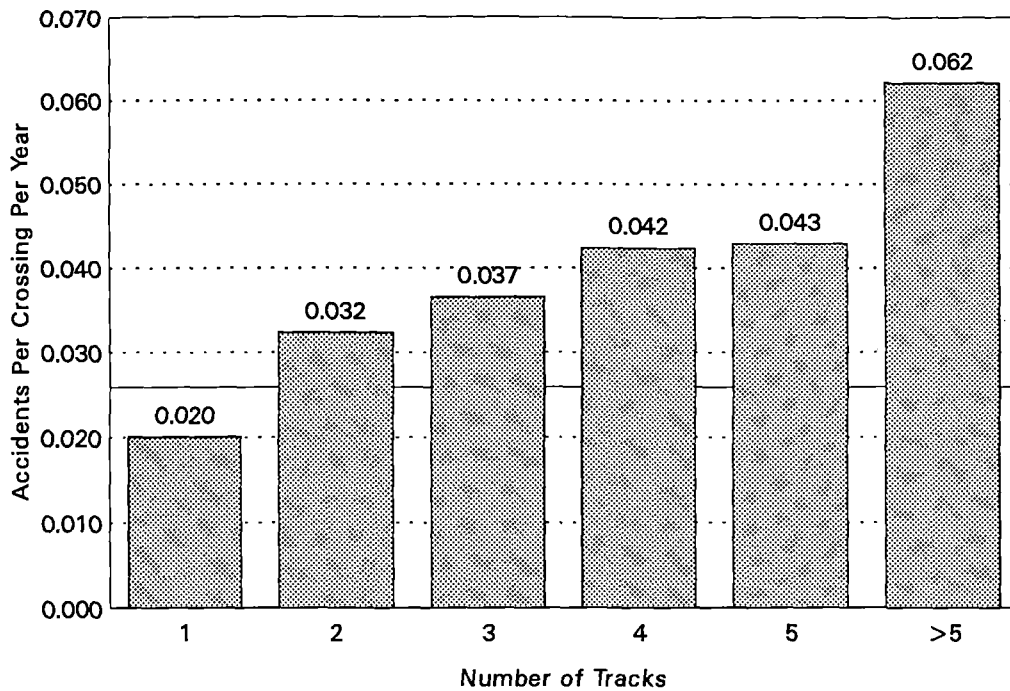
National average .02587

FIGURE 9. CROSSING ACCIDENT RATE BY TYPE DEVELOPMENT



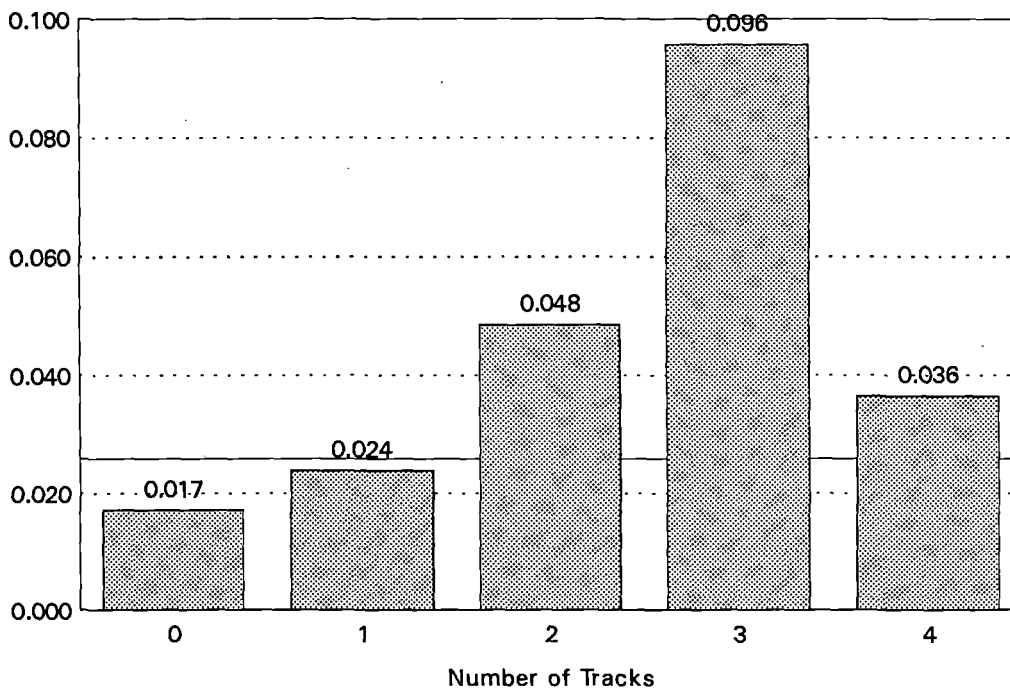
National average .02587

FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS



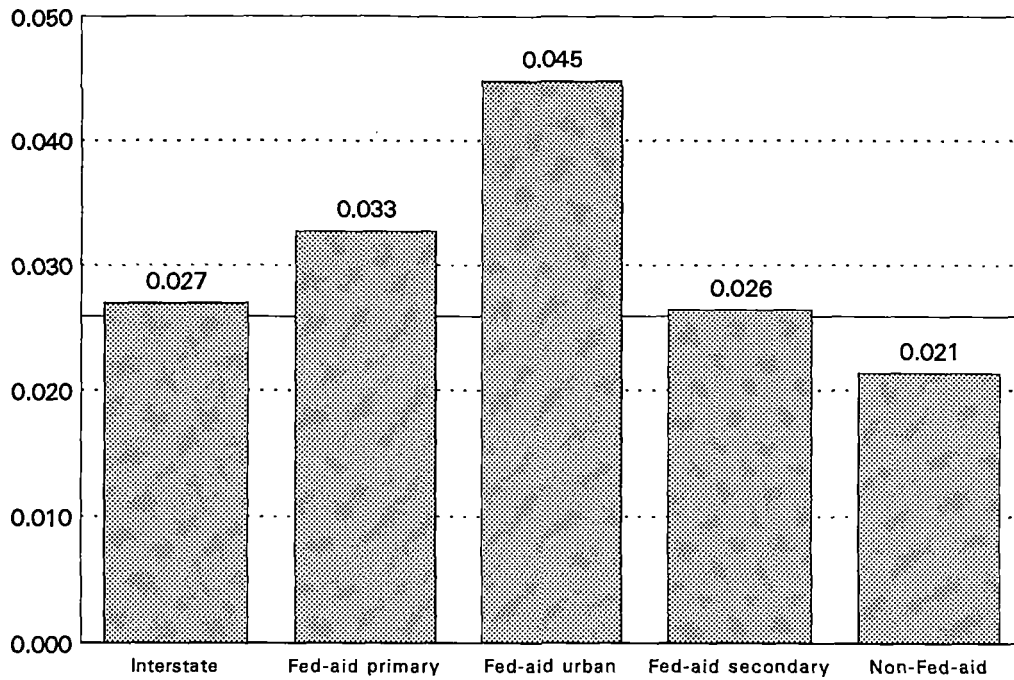
National average .02587

FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS



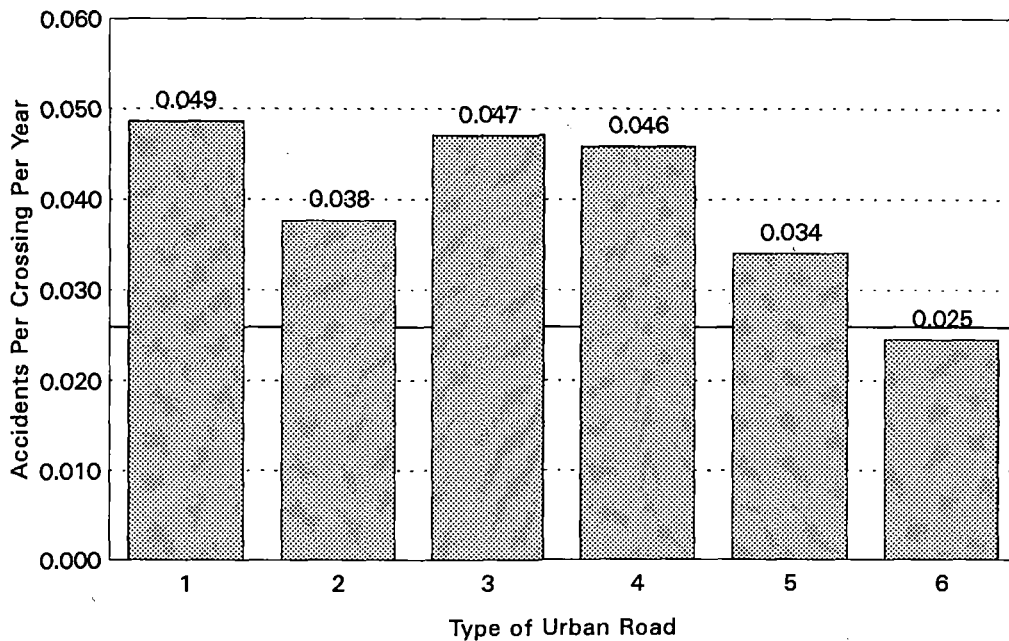
National average .02587

FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM



National average .02587

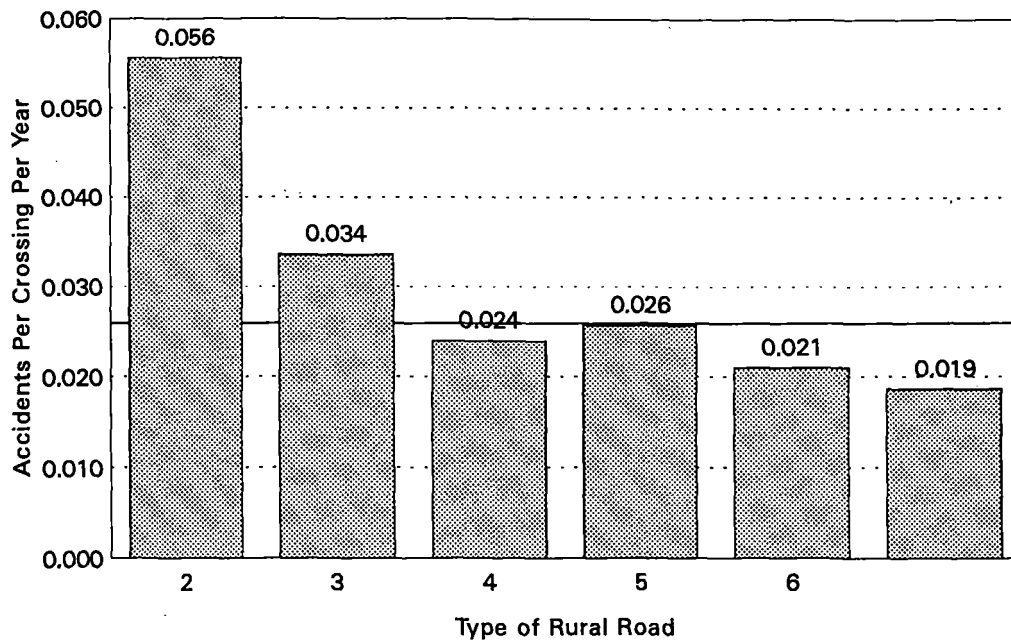
FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD



National average .02587

1 = Interstate; 2 = Other freeway or expressway; 3 = Other principal arterial;
4 = Minor arterial; 5 = Collector; 6 = Local

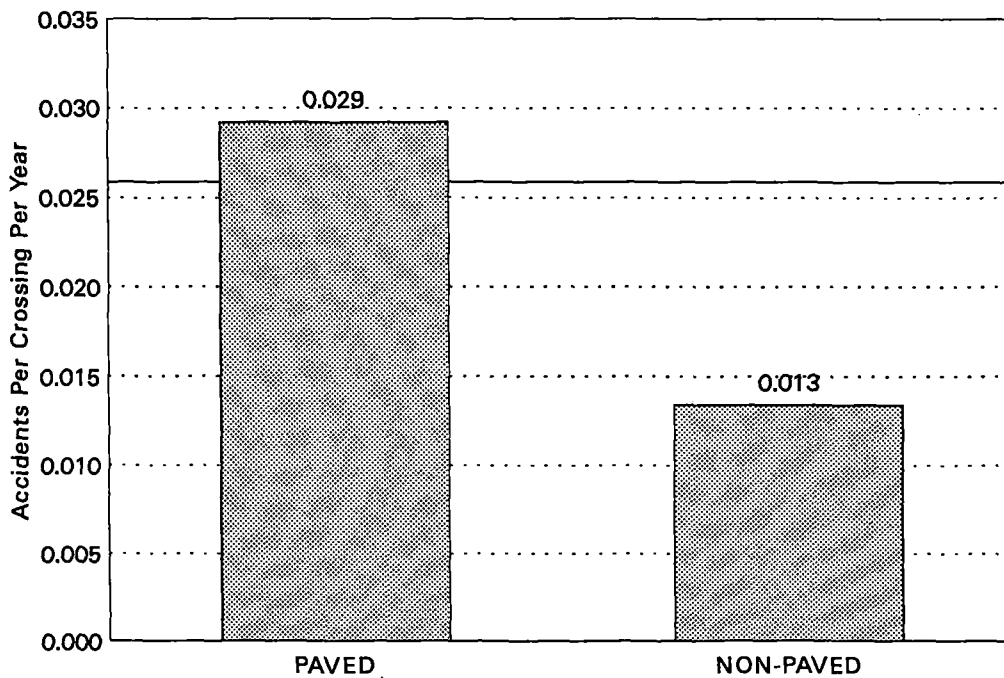
FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD



National average .02587

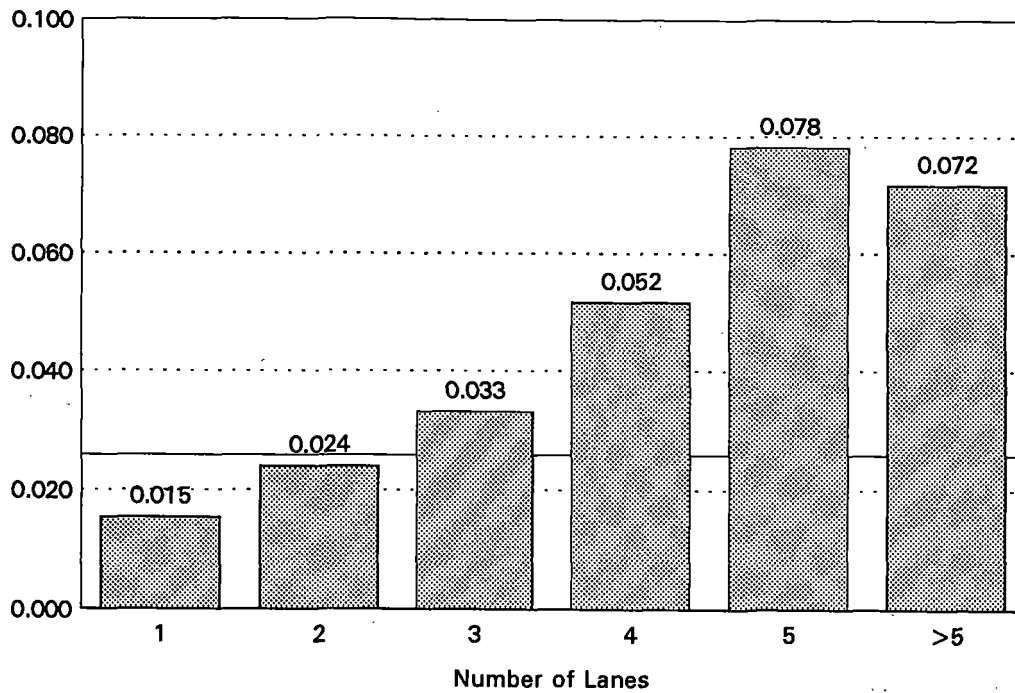
1 = Interstate; 2 = Other freeway or expressway; 3 = Other principal arterial;
4 = Minor arterial; 5 = Collector; 6 = Local

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



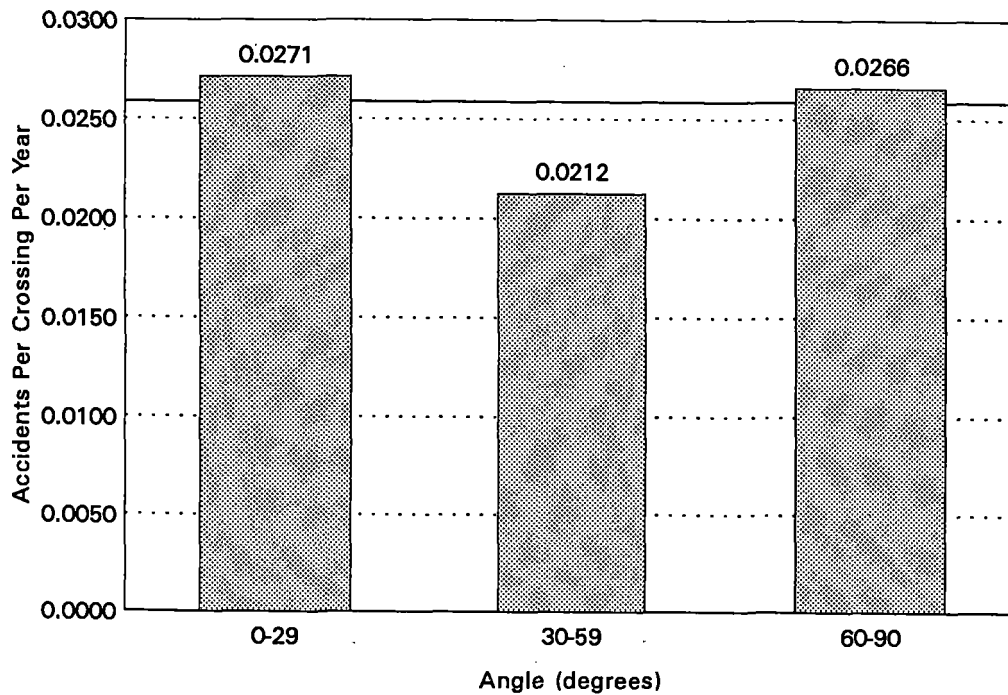
National average .02587

FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES



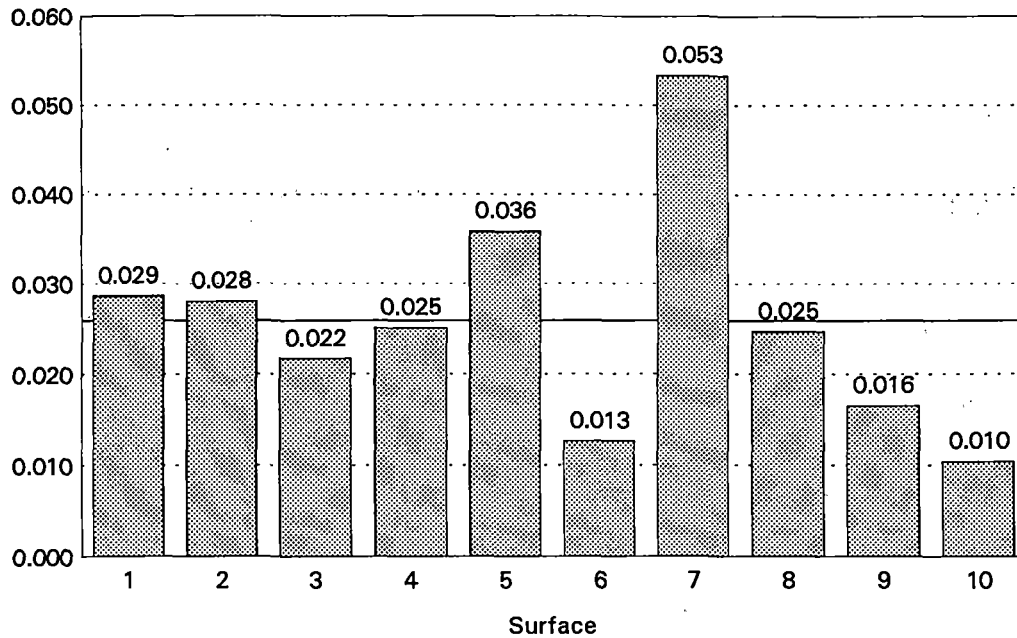
National average .02587

FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE



National average .02587

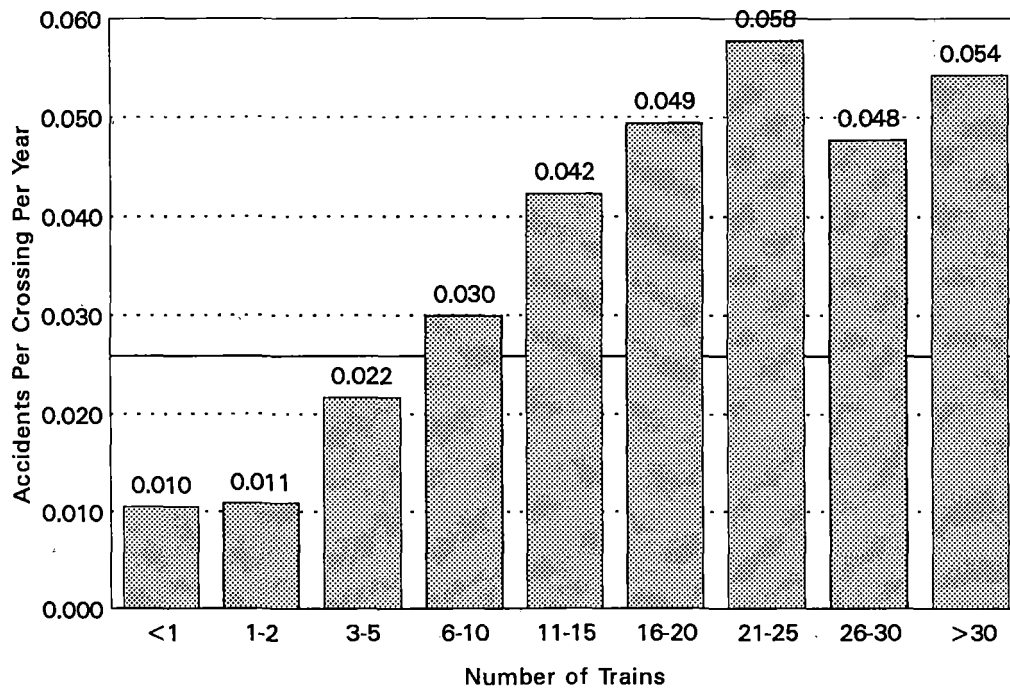
FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE



National average .02587

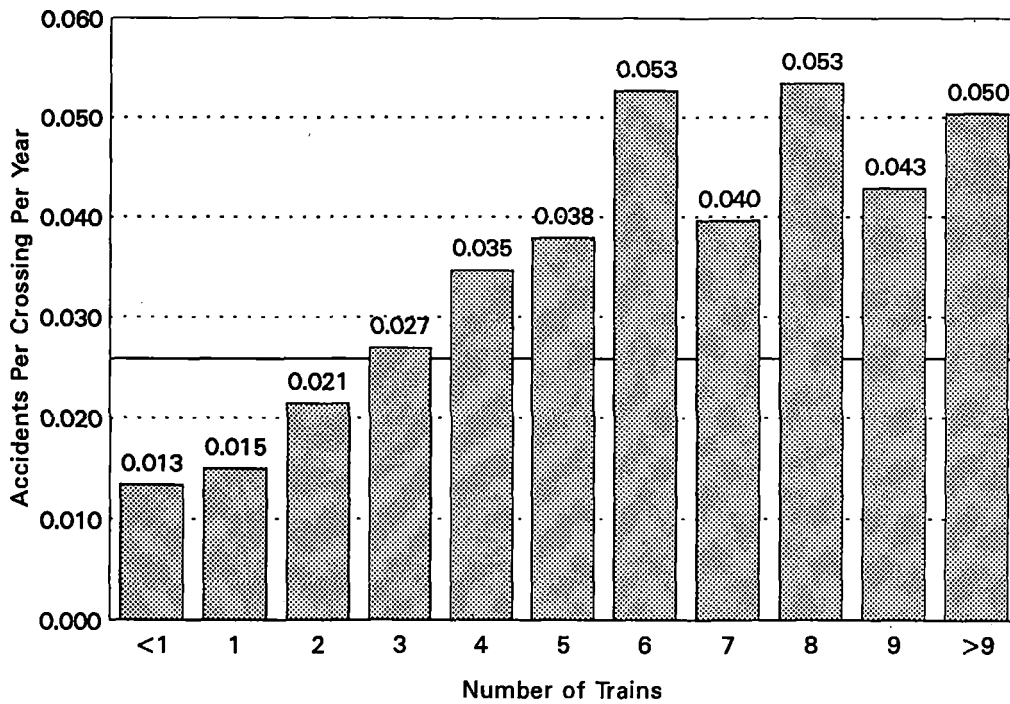
1 = Section timber; 2 = Full wood plank; 3 = Asphalt; 4 = Concrete slab; 5 = Concrete pavement; 6 = Rubber; 7 = Metal sections; 8 = Other metal; 9 = Unconsolidated; 10 = Other

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



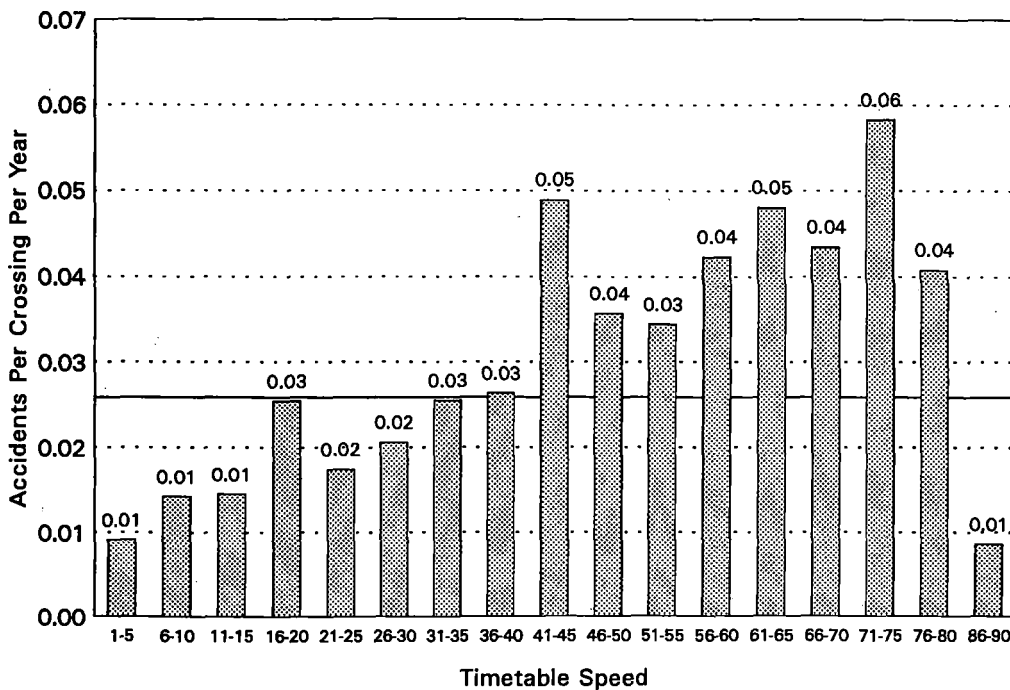
National average .02587

FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6am to 6pm)



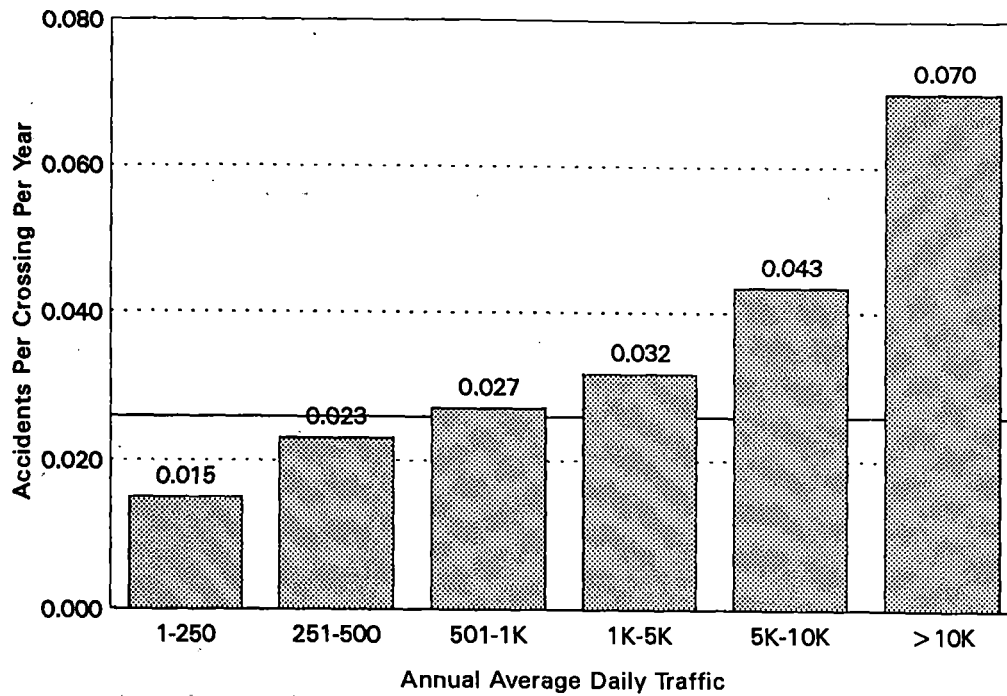
National average .02587

FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED



National average .02587

FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

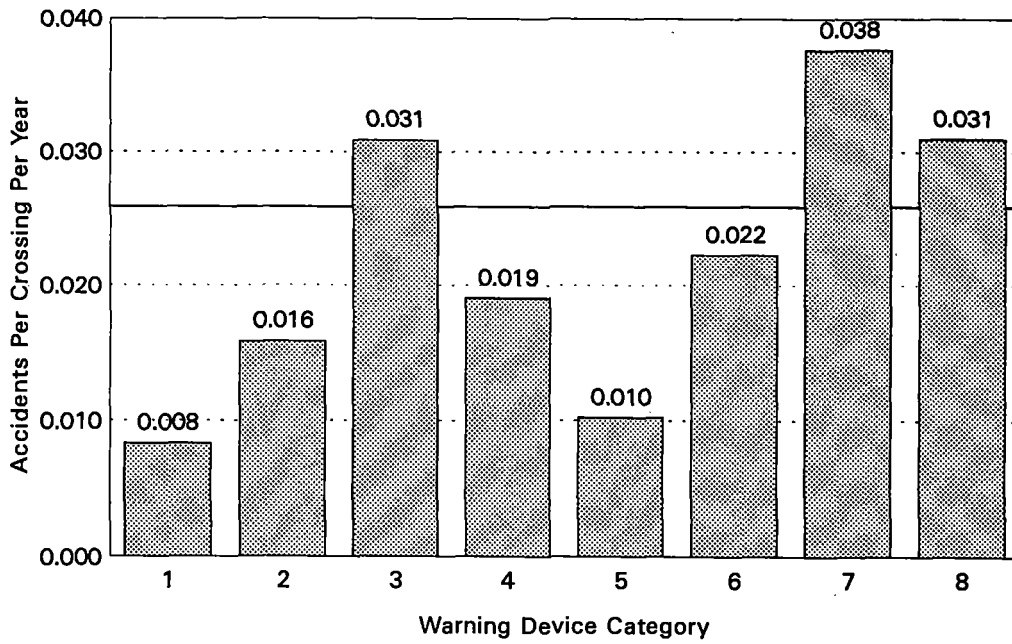


National average .02587

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

Trains	Annual Average Daily Traffic					
	1-250	251-500	501-1k	1k-5k	5k-10k	>10k
< 1	0.0027	0.0056	0.007	0.0083	0.0137	0.1034
1 - 2	0.0053	0.0088	0.0142	0.0172	0.0242	0.0275
3 - 5	0.0126	0.0223	0.0232	0.0277	0.0382	0.0535
6 - 10	0.0189	0.0313	0.0322	0.0394	0.0452	0.0619
11- 15	0.0293	0.0419	0.0438	0.0487	0.0672	0.0902
16- 20	0.033	0.05	0.0527	0.0553	0.0746	0.1019
21- 25	0.0383	0.0514	0.0532	0.0666	0.1062	0.1046
26- 30	0.0307	0.0431	0.0557	0.0563	0.088	0.0822
> 30	0.0417	0.0392	0.0592	0.06	0.0711	0.1012

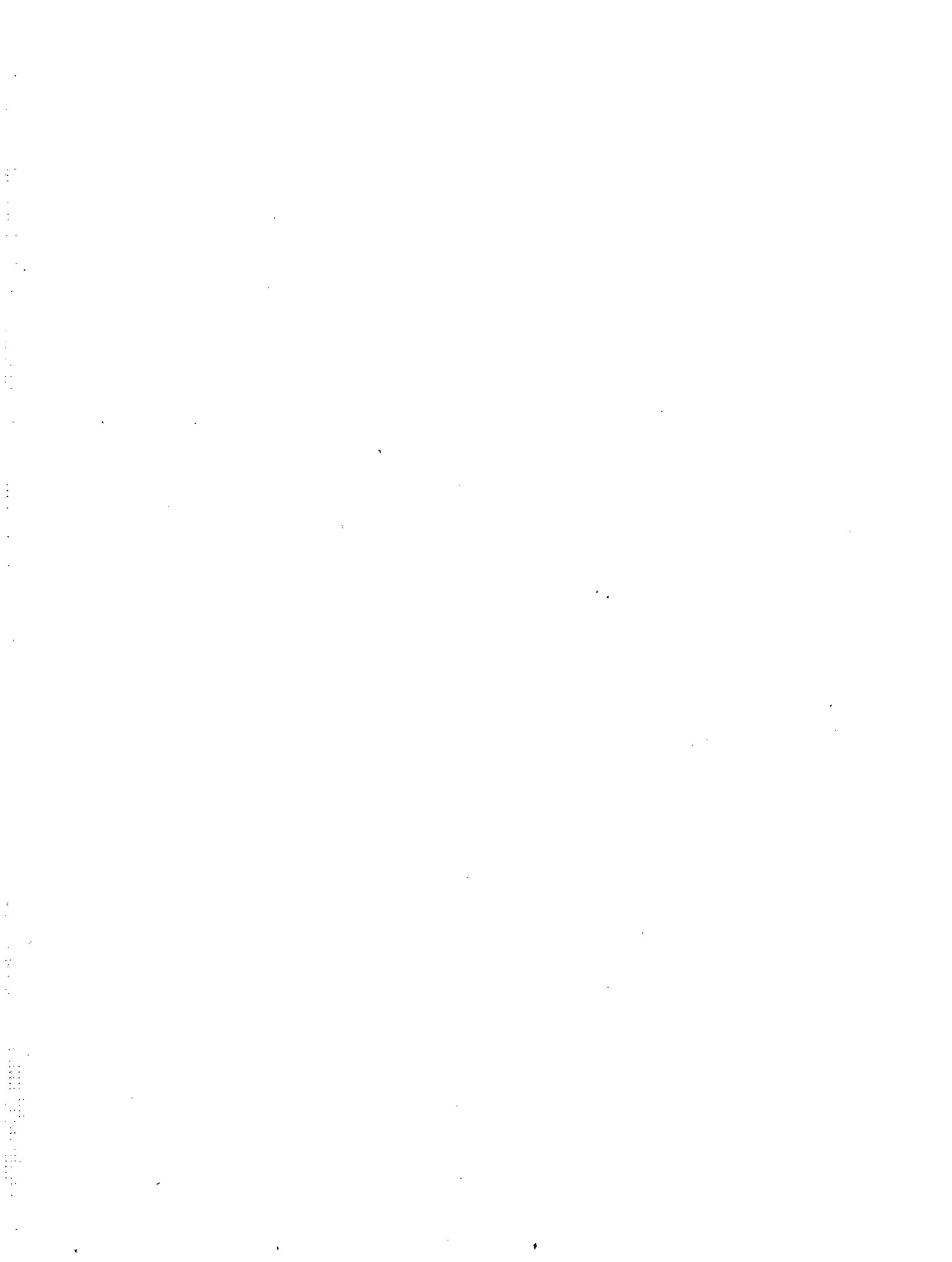
**FIGURE 24. CROSSING ACCIDENT RATE
BY WARNING DEVICE CATEGORY**



National average .02587

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

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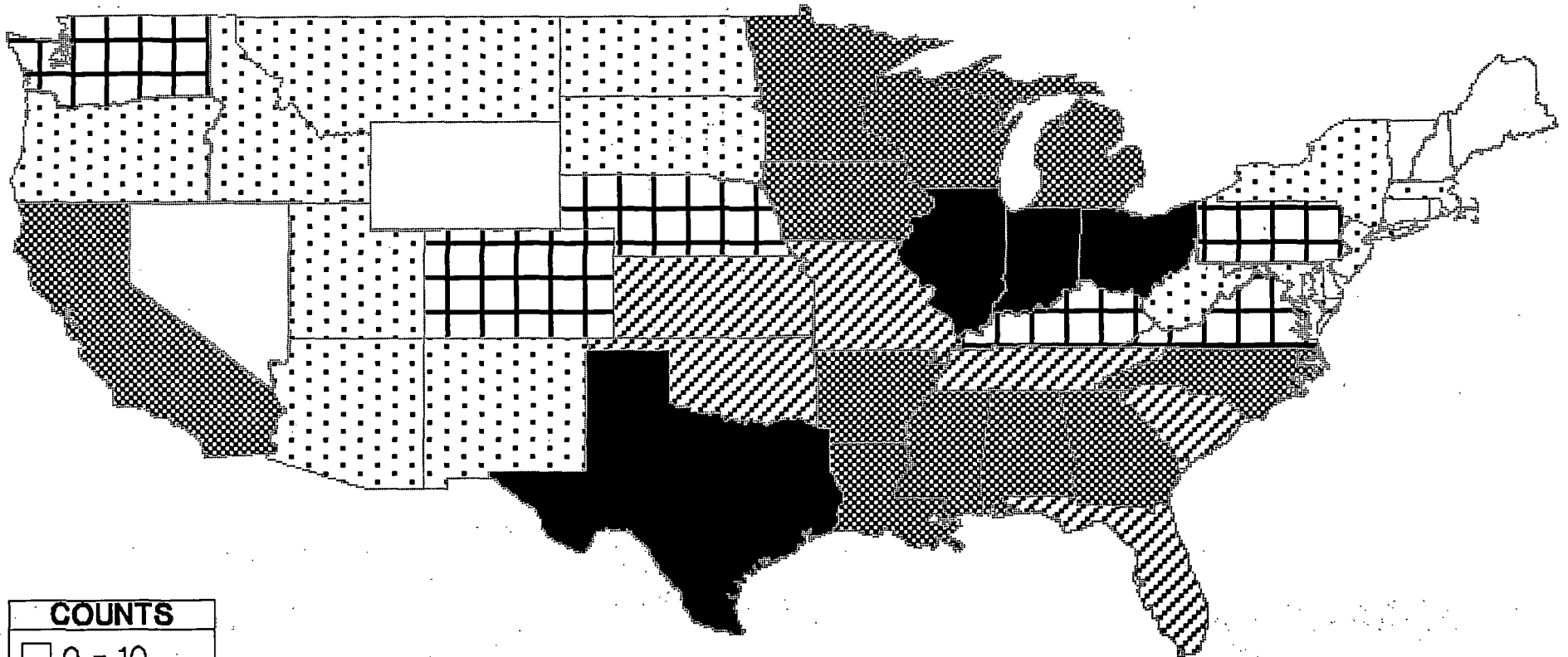
(M A P S)

CURRENT YEAR ACCIDENTS

AT

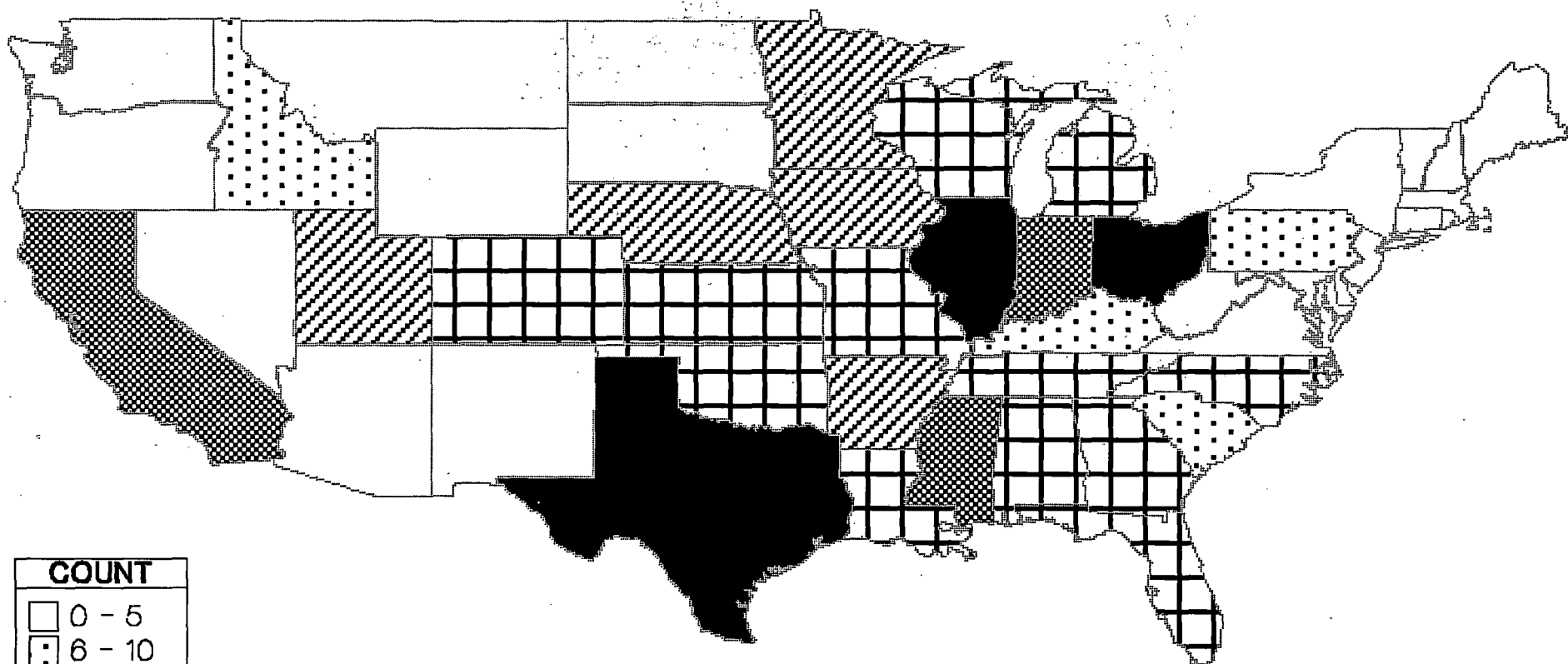
PUBLIC CROSSINGS ONLY

FIGURE 25A. MOTOR VEHICLE ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1994



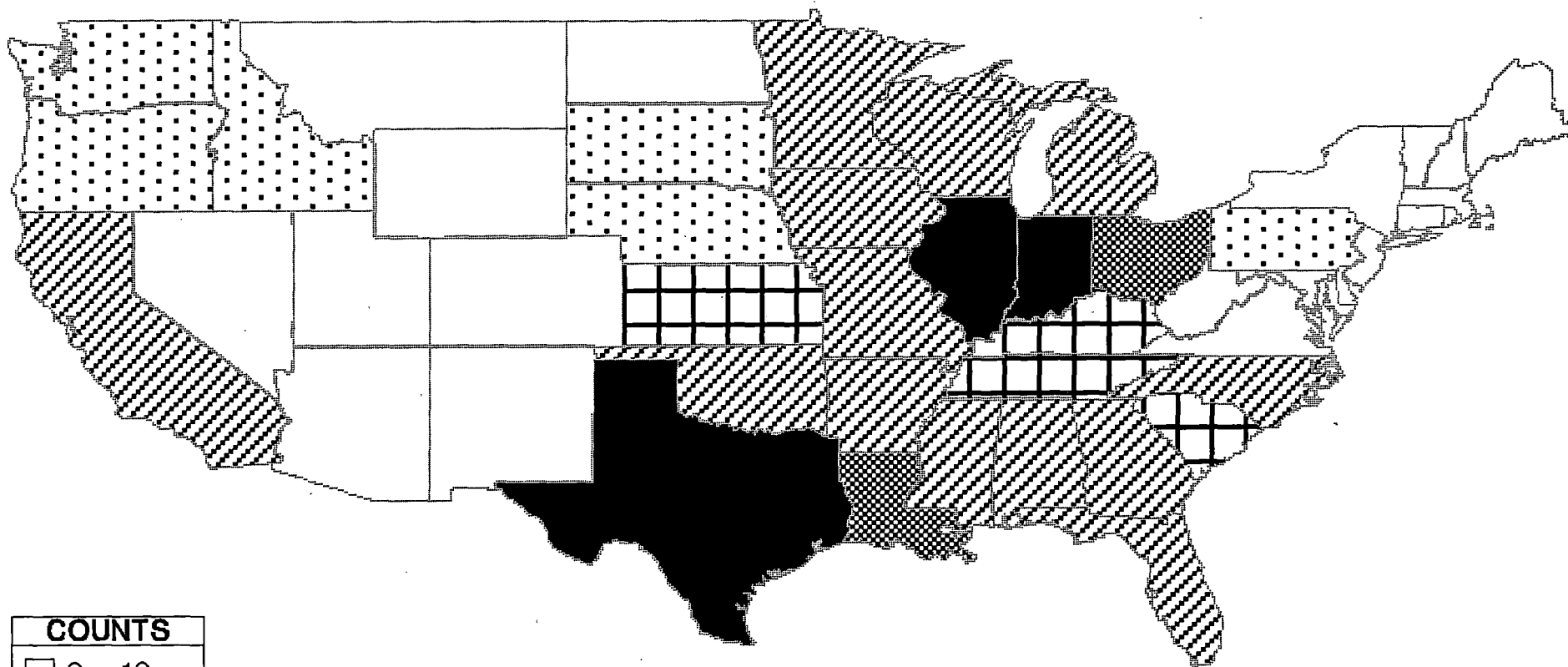
COUNTS	
□	0 - 10
▣	11 - 40
⊕	41 - 80
▨	81 - 120
▩	121 - 200
■	201 - 460

FIGURE 25B. MOTOR VEHICLE ACCIDENTS/INCIDENTS KILLED AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1994



COUNT	
□	0 - 5
◻	6 - 10
⊞	11 - 15
▨	16 - 20
▩	21 - 30
■	31 - 65

**FIGURE 25C. MOTOR VEHICLE ACCIDENTS/INCIDENTS INJURED
AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1994**



30

COUNTS	
□	0 - 10
▣	11 - 20
⊕	21 - 40
▨	41 - 80
▩	81 - 100
■	101 - 173

(D A T A)

OVERVIEW

OF CURRENT

YEAR

AT

PUBLIC CROSSINGS

ONLY

TABLE 3. ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY STATE, 1994

State	No. Of Acc/Inc	---Killed---		---Injured---		Total -Casualties--	
		No.	%	No.	%	No.	%
Alabama.....	172	12	2.10	74	4.05	86	3.58
Alaska.....	3	3	.52	3	.16	6	.25
Arizona.....	24	2	.35	9	.49	11	.46
Arkansas.....	139	19	3.32	65	3.55	84	3.50
California.....	183	34	5.94	52	2.84	86	3.58
Colorado.....	43	11	1.92	11	.60	22	.92
Connecticut.....	4	---	---	1	.05	1	.04
Delaware.....	5	1	.17	4	.22	5	.21
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	114	16	2.80	46	2.52	62	2.58
Georgia.....	148	12	2.10	53	2.90	65	2.71
Idaho.....	39	9	1.57	12	.66	21	.87
Illinois.....	308	49	8.57	181	9.90	230	9.58
Indiana.....	273	27	4.72	123	6.72	150	6.25
Iowa.....	157	19	3.32	56	3.06	75	3.12
Kansas.....	94	16	2.80	31	1.69	47	1.96
Kentucky.....	80	10	1.75	36	1.97	46	1.92
Louisiana.....	202	16	2.80	97	5.30	113	4.71
Maine.....	5	---	---	3	.16	3	.12
Maryland.....	12	---	---	5	.27	5	.21
Massachusetts....	16	---	---	3	.16	3	.12
Michigan.....	158	24	4.20	79	4.32	103	4.29
Minnesota.....	138	18	3.15	64	3.50	82	3.42
Mississippi.....	163	25	4.37	66	3.61	91	3.79
Missouri.....	115	12	2.10	43	2.35	55	2.29
Montana.....	18	---	---	9	.49	9	.37
Nebraska.....	86	20	3.50	23	1.26	43	1.79
Nevada.....	7	2	.35	3	.16	5	.21
New Hampshire....	2	---	---	---	---	---	---
New Jersey.....	34	6	1.05	10	.55	16	.67
New Mexico.....	17	5	.87	6	.33	11	.46
New York.....	37	6	1.05	12	.66	18	.75
North Carolina...	145	11	1.92	46	2.52	57	2.37
North Dakota.....	20	2	.35	12	.66	14	.58
Ohio.....	229	37	6.47	82	4.48	119	4.96
Oklahoma.....	116	16	2.80	66	3.61	82	3.42
Oregon.....	38	1	.17	11	.60	12	.50
Pennsylvania.....	73	8	1.40	19	1.04	27	1.12
Rhode Island.....	---	---	---	---	---	---	---
South Carolina...	87	8	1.40	37	2.02	45	1.87
South Dakota.....	29	1	.17	15	.82	16	.67
Tennessee.....	99	12	2.10	25	1.37	37	1.54
Texas.....	502	55	9.62	227	12.41	282	11.75
Utah.....	26	17	2.97	5	.27	22	.92
Vermont.....	3	---	---	2	.11	2	.08
Virginia.....	56	5	.87	9	.49	14	.58
Washington.....	60	3	.52	15	.82	18	.75
West Virginia....	41	3	.52	6	.33	9	.37
Wisconsin.....	176	14	2.45	72	3.94	86	3.58
Wyoming.....	7	5	.87	---	---	5	.21
Unknown.....	---	---	---	---	---	---	---
Total.....	4,503	572	100.00	1,829	100.00	2,401	100.00

TABLE 4. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY STATE, 1994

State	No. Of Acc/Inc	-----Casualties-----			Vehicles Registered	--Per 10,000 Registration--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj
Alabama.....	167	12	71	83	3,422,000	.49	.04	.21
Alaska.....	3	3	3	6	508,000	.06	.06	.06
Arizona.....	23	1	9	10	2,980,000	.08	---	.03
Arkansas.....	134	18	63	81	1,560,000	.86	.12	.40
California.....	163	22	48	70	23,518,000	.07	.01	.02
Colorado.....	41	11	10	21	3,144,000	.13	.03	.03
Connecticut.....	4	---	1	1	2,638,000	.02	---	---
Delaware.....	5	1	4	5	568,000	.09	.02	.07
Dist. of Columbia	---	---	---	---	270,000	---	---	---
Florida.....	104	11	43	54	10,132,000	.10	.01	.04
Georgia.....	144	11	52	63	5,638,000	.26	.02	.09
Idaho.....	38	7	12	19	1,062,000	.36	.07	.11
Illinois.....	276	35	170	205	8,331,000	.33	.04	.20
Indiana.....	265	26	119	145	4,850,000	.55	.05	.25
Iowa.....	152	19	54	73	2,929,000	.52	.06	.18
Kansas.....	89	14	31	45	1,965,000	.45	.07	.16
Kentucky.....	80	10	36	46	2,615,000	.31	.04	.14
Louisiana.....	196	15	95	110	3,242,000	.60	.05	.29
Maine.....	5	---	3	3	1,071,000	.05	---	.03
Maryland.....	12	---	5	5	3,543,000	.03	---	.01
Massachusetts....	15	---	3	3	3,956,000	.04	---	.01
Michigan.....	143	15	74	89	7,599,000	.19	.02	.10
Minnesota.....	132	17	62	79	3,869,000	.34	.04	.16
Mississippi.....	158	24	65	89	2,056,000	.77	.12	.32
Missouri.....	111	12	41	53	4,179,000	.27	.03	.10
Montana.....	18	---	9	9	967,000	.19	---	.09
Nebraska.....	73	16	20	36	1,490,000	.49	.11	.13
Nevada.....	4	---	2	2	983,000	.04	---	.02
New Hampshire....	2	---	---	---	1,013,000	.02	---	---
New Jersey.....	30	3	9	12	5,752,000	.05	.01	.02
New Mexico.....	17	5	6	11	1,472,000	.12	.03	.04
New York.....	33	5	10	15	10,428,000	.03	---	.01
North Carolina...	139	11	45	56	5,462,000	.25	.02	.08
North Dakota.....	18	2	10	12	687,000	.26	.03	.15
Ohio.....	225	35	81	116	9,647,000	.23	.04	.08
Oklahoma.....	111	15	64	79	2,863,000	.39	.05	.22
Oregon.....	38	1	11	12	2,748,000	.14	---	.04
Pennsylvania.....	72	7	19	26	8,557,000	.08	.01	.02
Rhode Island.....	---	---	---	---	728,000	---	---	---
South Carolina...	85	7	37	44	2,764,000	.31	.03	.13
South Dakota.....	28	1	15	16	845,000	.33	.01	.18
Tennessee.....	96	11	25	36	5,150,000	.19	.02	.05
Texas.....	494	55	221	276	13,287,000	.37	.04	.17
Utah.....	25	16	5	21	1,381,000	.18	.12	.04
Vermont.....	3	---	2	2	502,000	.06	---	.04
Virginia.....	53	4	9	13	5,593,000	.09	.01	.02
Washington.....	58	3	14	17	4,654,000	.12	.01	.03
West Virginia....	40	2	6	8	1,375,000	.29	.01	.04
Wisconsin.....	168	13	70	83	4,044,000	.42	.03	.17
Wyoming.....	6	5	---	5	583,000	.10	.09	---
Unknown.....	---	---	---	---	---	---	---	---
Total.....	4,296	501	1,764	2,265	198,620,000	.22	.03	.09

Note: Vehicle registration figures are for 1994 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 AT HIGHWAY-RAIL CROSSINGS,
BY TYPE OF MOTOR VEHICLE, 1994

State	---Automobile---			----Truck----			-Truck Trailer-			-----Bus-----			---School Bus---			---Motorcycle---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	108	10	50	33	1	15	26	1	6	---	---	---	---	---	---	---	---	---
Alaska.....	---	---	---	2	2	---	1	1	3	---	---	---	---	---	---	---	---	---
Arizona.....	17	1	9	4	---	---	2	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	72	13	37	40	5	18	22	---	8	---	---	---	---	---	---	---	---	---
California.....	97	18	28	36	2	15	26	1	4	---	---	---	---	---	4	1	1	---
Colorado.....	26	9	4	10	2	4	5	---	2	---	---	---	---	---	---	---	---	---
Connecticut.....	3	---	1	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	---	---	---	2	1	1	3	---	3	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	77	8	32	20	1	9	5	---	2	---	---	---	---	---	2	2	---	---
Georgia.....	94	7	39	27	3	11	23	1	2	---	---	---	---	---	---	---	---	---
Idaho.....	23	2	7	12	5	4	3	---	1	---	---	---	---	---	---	---	---	---
Illinois.....	183	25	56	67	10	32	24	---	82	---	---	---	---	---	2	---	---	---
Indiana.....	179	18	89	68	8	23	18	---	7	---	---	---	---	---	---	---	---	---
Iowa.....	99	17	36	35	1	14	17	---	4	---	---	---	---	---	1	1	---	---
Kansas.....	58	9	19	23	5	11	7	---	1	---	---	---	---	---	1	---	---	---
Kentucky.....	52	10	25	15	---	4	11	---	5	---	---	2	---	2	---	---	---	---
Louisiana.....	113	11	65	56	4	22	27	---	8	---	---	---	---	---	---	---	---	---
Maine.....	2	---	1	3	---	2	---	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	9	---	3	3	---	2	---	---	---	---	---	---	---	---	---	---	---	---
Massachusetts....	12	---	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	105	10	54	32	4	18	5	---	2	---	---	---	---	---	1	1	---	---
Minnesota.....	84	14	40	37	3	18	11	---	4	---	---	---	---	---	---	---	---	---
Mississippi.....	111	18	41	31	6	16	16	---	8	---	---	---	---	---	---	---	---	---
Missouri.....	66	9	21	33	2	19	12	1	1	---	---	---	---	---	---	---	---	---
Montana.....	8	---	---	8	---	6	2	---	3	---	---	---	---	---	---	---	---	---
Nebraska.....	51	8	11	17	6	8	4	2	1	---	---	---	---	---	1	---	---	---
Nevada.....	2	---	---	2	---	2	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire....	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	20	2	5	8	1	4	2	---	---	---	---	---	---	---	---	---	---	---
New Mexico.....	9	3	---	7	2	5	1	---	1	---	---	---	---	---	---	---	---	---
New York.....	29	5	10	3	---	---	---	---	---	---	---	1	---	---	---	---	---	---
North Carolina...	96	9	34	27	2	7	16	---	4	---	---	---	---	---	---	---	---	---
North Dakota.....	13	2	8	4	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	149	26	52	55	7	23	18	2	5	---	---	---	---	---	3	---	1	---
Oklahoma.....	68	10	36	32	4	15	10	1	12	---	---	---	---	---	1	---	1	---
Oregon.....	17	1	6	11	---	5	10	---	---	---	---	---	---	---	---	---	---	---
Pennsylvania.....	39	6	6	24	1	13	9	---	---	---	---	---	---	---	---	---	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	52	6	26	21	1	6	12	---	5	---	---	---	---	---	---	---	---	---
South Dakota.....	18	---	9	6	1	5	3	---	---	---	---	---	---	---	1	---	1	---
Tennessee.....	67	8	21	21	1	4	7	---	---	---	---	---	---	---	1	2	---	---
Texas.....	282	27	131	159	27	65	51	---	24	1	---	1	---	---	1	1	---	---
Utah.....	17	14	4	3	1	---	3	---	---	1	---	1	---	---	1	1	---	---
Vermont.....	1	---	1	2	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	37	2	6	9	1	3	7	1	---	---	---	---	---	---	---	---	---	---
Washington.....	40	3	12	11	---	2	6	---	---	1	---	---	---	---	---	---	---	---
West Virginia....	30	2	3	8	---	3	2	---	---	---	---	---	---	---	---	---	---	---
Wisconsin.....	109	10	48	46	2	20	12	1	2	---	---	---	---	---	1	---	---	---
Wyoming.....	3	5	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	2,749	358	1,089	1,079	122	457	441	12	210	3	---	2	3	---	2	21	9	4

TABLE 6. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TYPE OF CONSIST, 1994

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	134	12	58	4	---	1	18	---	6	11	---	6
Alaska.....	1	2	---	---	---	---	1	---	---	1	1	3
Arizona.....	10	---	5	---	---	---	10	1	4	3	---	---
Arkansas.....	115	17	55	---	---	---	9	---	4	10	1	4
California.....	103	13	29	27	9	6	19	---	6	14	---	7
Colorado.....	33	9	5	3	2	2	3	---	1	2	---	2
Connecticut.....	---	---	---	4	---	1	---	---	---	---	---	---
Delaware.....	4	1	2	---	---	---	1	---	2	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	60	7	31	26	3	7	10	---	4	8	1	1
Georgia.....	115	9	45	5	1	---	9	---	2	15	1	5
Idaho.....	34	7	11	---	---	---	3	---	1	1	---	---
Illinois.....	186	23	76	36	11	83	24	1	7	30	---	4
Indiana.....	214	22	93	13	3	6	14	1	5	24	---	15
Iowa.....	116	19	44	2	---	---	19	---	4	15	---	6
Kansas.....	75	13	26	2	1	---	6	---	3	6	---	2
Kentucky.....	71	10	29	---	---	---	6	---	1	3	---	6
Louisiana.....	150	14	83	3	---	1	26	---	3	17	1	8
Maine.....	4	---	3	---	---	---	---	---	---	1	---	---
Maryland.....	7	---	1	---	---	---	1	---	---	4	---	4
Massachusetts....	9	---	3	5	---	---	---	---	---	1	---	---
Michigan.....	118	14	68	3	---	1	11	---	2	11	1	3
Minnesota.....	91	17	47	---	---	---	20	---	2	21	---	13
Mississippi.....	115	20	56	18	3	6	11	---	1	14	1	2
Missouri.....	90	11	39	1	---	---	10	1	1	10	---	1
Montana.....	14	---	9	---	---	---	2	---	---	2	---	---
Nebraska.....	65	14	17	1	---	1	2	---	1	5	2	1
Nevada.....	3	---	2	1	---	---	---	---	---	---	---	---
New Hampshire....	2	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	15	2	3	9	1	4	2	---	---	4	---	2
New Mexico.....	15	5	6	---	---	---	---	---	---	2	---	---
New York.....	23	2	10	7	3	---	1	---	---	2	---	---
North Carolina...	103	10	38	5	---	---	17	1	5	14	---	2
North Dakota.....	16	2	10	---	---	---	2	---	---	---	---	---
Ohio.....	193	31	76	3	1	1	15	---	3	14	3	1
Oklahoma.....	98	15	60	---	---	---	5	---	1	8	---	3
Oregon.....	29	---	10	1	---	---	5	1	---	3	---	1
Pennsylvania.....	52	6	15	6	---	2	6	---	---	8	1	2
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	69	7	30	---	---	---	9	---	4	7	---	3
South Dakota.....	17	---	9	1	---	2	3	---	---	7	1	4
Tennessee.....	70	8	22	1	---	1	12	---	---	13	3	2
Texas.....	375	52	180	7	---	1	61	2	18	51	1	22
Utah.....	18	12	3	1	1	---	1	2	---	5	1	2
Vermont.....	3	---	2	---	---	---	---	---	---	---	---	---
Virginia.....	45	4	8	2	---	1	2	---	---	4	---	---
Washington.....	31	2	10	3	---	---	16	---	---	8	1	4
West Virginia....	36	2	6	---	---	---	1	---	---	3	---	---
Wisconsin.....	129	10	54	1	---	---	20	1	9	18	2	7
Wyoming.....	5	5	---	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,281	429	1,389	201	39	127	413	11	100	401	22	148

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

TABLE 7. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY WARNING DEVICE, 1994

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corp.	---	3	---	---	---	---	---	---	3
Alton & Southern Railroad	1	2	---	---	---	---	---	---	3
Amtrak (Nat'l Railroad Passenger Corp.)	71	11	3	---	34	7	---	---	126
Atchison, Topeka And Santa Fe Railway Co.	54	38	---	1	65	1	---	---	159
Bangor And Aroostook Railroad	---	2	---	---	---	---	---	---	2
Belt Railway Co. of Chicago	---	2	---	---	---	---	---	---	2
Bessemer & Lake Erie Railroad Co.	---	---	---	---	1	---	---	---	1
Birmingham Southern Railroad Co.	---	1	---	---	---	---	---	---	1
Burlington Northern Railroad Co.	63	102	3	1	193	63	---	---	425
Chicago And North Western Transp.	34	54	4	2	73	14	---	3	184
Chicago, Central & Pacific Railroad Co.	4	11	---	1	16	1	---	1	34
Consolidated Rail Corp.	79	72	6	6	82	9	3	13	270
Cuyahoga Valley Railway Co.	---	---	---	---	---	---	---	---	---
CSX Transp.	82	141	22	7	185	36	---	3	476
Dakota, Minnesota & Eastern Railroad	1	4	---	---	9	1	---	---	15
Delaware And Hudson Railroad Co.	4	1	---	---	---	---	---	---	5
Denver And Rio Grande Western Railroad Co.	2	4	---	---	6	---	---	---	12
Duluth, Missabe & Iron Range Railway Co.	---	1	---	---	1	1	---	---	3
Elgin, Joliet And Eastern Railway Co.	1	1	---	---	1	---	---	---	3
Florida East Coast Railway Co.	23	---	---	---	---	2	---	---	25
Fox Valley & Western Ltd.	---	6	---	---	10	---	---	---	16
Gateway Western Railway	---	3	---	---	5	1	---	---	9
Grand Trunk Western Railroad Co.	20	14	---	---	6	10	---	---	50
Houston Belt & Terminal Railway Co.	4	---	---	---	1	---	---	---	5
Illinois Central Railroad Co.	6	34	---	---	47	3	---	1	91
Indiana Harbor Belt Railroad Co.	8	4	---	1	2	1	---	---	16
Kansas City Southern Railway Co.	10	44	2	2	104	1	---	---	163
Long Island Rail Road	4	---	---	1	---	---	---	---	5
Metro North Commuter Railroad Co.	1	1	---	---	1	---	---	---	3
Montana Rail Link	1	---	---	---	6	3	---	---	10
New Jersey Transit Rail Operations	8	---	---	---	---	---	---	---	8
Norfolk Southern Corp.	150	184	8	4	230	66	---	2	644
Northeast Illinois Regional Commuter Rail	17	4	---	---	---	---	---	---	21
Northern Indiana Commuter Trans.	3	3	---	---	---	1	---	---	7
Paducah & Louisville Railway Co.	---	3	---	---	1	---	---	---	4
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	---	1	---	---	2	---	---	---	3
Soo Line Railroad Co.	11	24	---	---	36	5	---	1	77
Southeastern Pennsylvania Transp.	4	---	---	---	---	---	---	---	4
Southern Pacific Transp. Co.	100	41	12	9	71	3	---	---	236
Southern Pacific, Chicago-St. Louis Corp.	1	2	1	---	4	---	---	---	8
Springfield Terminal Railway Co.	1	3	---	1	1	---	---	---	6
St. Louis Southwestern Railway Co.	10	19	1	---	42	4	---	---	76
Terminal Railroad Assoc. of St. Louis	---	2	---	---	1	---	---	---	3
Texas Mexican Railway Co.	---	4	---	---	2	---	---	---	6
Union Pacific Railroad Co.	133	101	2	4	266	42	---	16	564
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	6	---	---	24	---	---	---	30
Wisconsin Central Ltd.	9	34	1	---	28	12	---	---	84
All Other Railroads.....	39	111	6	8	190	38	1	5	398
Total.....	959	1,098	71	48	1,746	325	4	45	4,296

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

TABLE 7A. ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY RAILROAD, 1994

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	3	3	3	---	---	---	3	3	3
Alton & Southern Railroad	3	---	3	---	---	---	3	---	3
Amtrak (Nat'l Railroad Passenger Corp.)	126	26	34	21	14	2	147	40	36
Atchison, Topeka And Santa Fe Railway Co.	159	15	57	13	6	5	172	21	62
Bangor And Aroostook Railroad	2	---	1	---	---	---	2	---	1
Belt Railway Co. of Chicago	2	---	1	---	---	---	2	---	1
Bessemer & Lake Erie Railroad Co.	1	---	---	---	---	---	1	---	---
Birmingham Southern Railroad Co.	1	---	---	---	---	---	1	---	---
Burlington Northern Railroad Co.	425	79	198	28	5	9	453	84	207
Chicago And North Western Transp.	184	24	54	8	5	2	192	29	56
Chicago, Central & Pacific Railroad Co.	34	1	12	1	---	1	35	1	13
Consolidated Rail Corp.	270	41	83	13	5	4	283	46	87
Cuyahoga Valley Railway Co.	---	---	---	---	---	---	---	---	---
CSX Transp.	476	44	241	18	7	6	494	51	247
Dakota, Minnesota & Eastern Railroad	15	---	8	---	---	---	15	---	8
Delaware And Hudson Railroad Co.	5	1	6	---	---	---	5	1	6
Denver And Rio Grande Western Railroad Co.	12	4	6	---	---	---	12	4	6
Duluth, Missabe & Iron Range Railway Co.	3	2	2	---	---	---	3	2	2
Elgin, Joliet And Eastern Railway Co.	3	---	2	---	---	---	3	---	2
Florida East Coast Railway Co.	25	2	14	3	1	2	28	3	16
Fox Valley & Western Ltd.	16	---	7	---	---	---	16	---	7
Gateway Western Railway	9	1	1	1	---	1	10	1	2
Grand Trunk Western Railroad Co.	50	8	26	7	5	3	57	13	29
Houston Belt & Terminal Railway Co.	5	---	---	---	---	---	5	---	---
Illinois Central Railroad Co.	91	7	41	2	---	1	93	7	42
Indiana Harbor Belt Railroad Co.	16	---	6	1	---	1	17	---	7
Kansas City Southern Railway Co.	163	8	83	3	---	---	166	8	83
Long Island Rail Road	5	2	---	---	---	---	5	2	---
Metro North Commuter Railroad Co.	3	---	---	---	---	---	3	---	---
Montana Rail Link	10	3	1	---	---	---	10	3	1
New Jersey Transit Rail Operations	8	1	4	1	1	---	9	2	4
Norfolk Southern Corp.	644	70	191	23	5	7	667	75	198
Northeast Illinois Regional Commuter Rail	21	3	82	2	---	2	23	3	84
Northern Indiana Commuter Trans.	7	---	1	---	---	---	7	---	1
Paducah & Louisville Railway Co.	4	---	---	---	---	---	4	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	3	---	---	---	---	---	3	---	---
Soo Line Railroad Co.	77	10	34	7	---	2	84	10	36
Southeastern Pennsylvania Transp.	4	---	1	---	---	---	4	---	1
Southern Pacific Transp. Co.	236	23	92	10	2	6	246	25	98
Southern Pacific, Chicago-St. Louis Corp.	8	---	---	---	---	---	8	---	---
Springfield Terminal Railway Co.	6	---	3	1	---	---	7	---	3
St. Louis Southwestern Railway Co.	76	19	37	1	---	---	77	19	37
Terminal Railroad Assoc. of St. Louis	3	---	---	---	---	---	3	---	---
Texas Mexican Railway Co.	6	1	2	---	---	---	6	1	2
Union Pacific Railroad Co.	564	78	229	27	12	7	591	90	236
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	30	2	21	---	---	---	30	2	21
Wisconsin Central Ltd.	84	8	35	4	---	1	88	8	36
All Other Railroads.....	398	15	142	12	3	3	410	18	145
Total.....	4,296	501	1,764	207	71	65	4,503	572	1,829

TABLE 8. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY WARNING DEVICE, 1994

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	9	35	6	1	85	31	---	---	167
Alaska.....	---	3	---	---	---	---	---	---	3
Arizona.....	11	9	---	1	2	---	---	---	23
Arkansas.....	24	36	---	---	70	3	---	1	134
California.....	95	26	5	7	23	6	---	1	163
Colorado.....	6	9	2	---	17	7	---	---	41
Connecticut.....	2	1	---	---	---	1	---	---	4
Delaware.....	1	3	---	---	1	---	---	---	5
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	67	18	1	1	13	4	---	---	104
Georgia.....	52	13	2	1	56	20	---	---	144
Idaho.....	1	3	2	1	17	14	---	---	38
Illinois.....	104	72	1	3	84	4	---	8	276
Indiana.....	66	87	8	1	78	22	---	3	265
Iowa.....	18	36	2	1	82	9	---	4	152
Kansas.....	21	9	---	1	53	4	---	1	89
Kentucky.....	17	32	3	2	23	1	---	2	80
Louisiana.....	26	68	7	1	88	4	---	2	196
Maine.....	---	4	---	---	1	---	---	---	5
Maryland.....	2	2	1	2	3	2	---	---	12
Massachusetts....	6	7	---	1	1	---	---	---	15
Michigan.....	25	56	---	1	38	23	---	---	143
Minnesota.....	10	35	---	---	46	40	---	1	132
Mississippi.....	8	51	1	---	80	16	---	2	158
Missouri.....	18	25	1	2	59	6	---	---	111
Montana.....	2	1	---	---	7	8	---	---	18
Nebraska.....	14	7	---	---	42	9	---	1	73
Nevada.....	3	---	---	---	1	---	---	---	4
New Hampshire....	1	---	---	---	1	---	---	---	2
New Jersey.....	10	13	---	3	1	1	1	1	30
New Mexico.....	5	4	---	---	8	---	---	---	17
New York.....	20	5	---	2	6	---	---	---	33
North Carolina...	29	31	2	1	73	1	---	2	139
North Dakota.....	2	4	---	---	8	4	---	---	18
Ohio.....	39	43	5	1	123	9	1	4	225
Oklahoma.....	13	23	1	---	67	7	---	---	111
Oregon.....	10	3	1	2	12	9	---	1	38
Pennsylvania.....	18	23	2	1	20	2	1	5	72
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	12	28	5	4	28	8	---	---	85
South Dakota.....	---	8	1	---	11	8	---	---	28
Tennessee.....	16	27	3	---	47	2	---	1	96
Texas.....	120	113	3	3	233	18	---	4	494
Utah.....	6	2	---	---	17	---	---	---	25
Vermont.....	---	1	---	1	---	---	1	---	3
Virginia.....	16	24	1	2	9	1	---	---	53
Washington.....	13	14	---	1	23	6	---	1	58
West Virginia....	10	14	1	---	13	2	---	---	40
Wisconsin.....	9	69	4	---	73	13	---	---	168
Wyoming.....	2	1	---	---	3	---	---	---	6
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	959	1,098	71	48	1,746	325	4	45	4,296

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

TABLE 9. ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY HIGHWAY USER, 1994

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	2,749	61.05	358	62.59	1,089	59.54	284	774
Truck.....	1,079	23.96	122	21.33	457	24.99	104	348
Truck-trailer....	441	9.79	12	2.10	210	11.48	12	95
Bus.....	3	.07	---	---	2	.11	---	2
School bus.....	3	.07	---	---	2	.11	---	1
Motorcycle.....	21	.47	9	1.57	4	.22	8	4
Pedestrian.....	76	1.69	49	8.57	30	1.64	49	27
Other.....	131	2.91	22	3.85	35	1.91	20	31
Total.....	4,503	100.00	572	100.00	1,829	100.00	477	1,282

TABLE 10. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY CIRCUMSTANCE, 1994

Circumstance	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Struck by consist	3,161	73.58	424	84.63	1,265	71.71	341	845
Ran into consist.	1,135	26.42	77	15.37	499	28.29	67	379
Total.....	4,296	100.00	501	100.00	1,764	100.00	408	1,224

TABLE 11. ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS BY
TYPE OF VEHICLE AND NUMBER OF OCCUPANTS, 1994

Vehicle	# of A/I	# of Occupants	# of Occupants		Killed		Injured		Vehicle Damage	Damage Per A/I
			Per A/I	Killed	Per A/I	injured	Per A/I			
Automobile...	2,749	3,425	1.25	358	.13	1,075	.39	6,560,147	2,386	
Truck.....	1,079	1,261	1.17	122	.11	442	.41	4,983,806	4,619	
Truck-trailer	441	410	.93	11	.02	67	.15	4,972,413	11,275	
Bus.....	3	2	.67	0	.00	0	.00	203,500	67,833	
School bus...	3	3	1.00	0	.00	2	.67			
Motorcycle...	21	19	.90	9	.43	4	.19	19,500	929	
Total	4,296	5,120	1.19	500	.12	1,590	.37	16,739,366	3,897	

TABLE 12. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY CIRCUMSTANCE, 1994

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.....	45	7	22	1,093	172	459	80	18	40	755	111	242
Truck.....	20	3	6	524	79	205	22	2	12	208	22	80
Truck-trailer....	10	---	3	307	7	173	12	---	---	73	1	18
Bus.....	---	---	---	3	---	2	---	---	---	---	---	---
School bus.....	---	---	---	3	---	2	---	---	---	---	---	---
Motorcycle.....	---	---	---	5	2	1	---	---	---	1	---	---
Total.....	75	10	31	1,935	260	842	114	20	52	1,037	134	340
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	25	---	12	345	15	126	23	---	9	383	35	179
Truck.....	19	1	11	150	8	62	9	---	3	127	7	78
Truck-trailer....	1	---	3	26	2	10	---	---	---	12	2	3
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	7	2	1	1	1	---	7	4	2
Total.....	45	1	26	528	27	199	33	1	12	529	48	262
GRAND TOTAL												
Automobile.....	70	7	34	1,438	187	585	103	18	49	1,138	146	421
Truck.....	39	4	17	674	87	267	31	2	15	335	29	158
Truck-trailer....	11	---	6	333	9	183	12	---	---	85	3	21
Bus.....	---	---	---	3	---	2	---	---	---	---	---	---
School bus.....	---	---	---	3	---	2	---	---	---	---	---	---
Motorcycle.....	---	---	---	12	4	2	1	1	---	8	4	2
Total.....	120	11	57	2,463	287	1,041	147	21	64	1,566	182	602

TABLE 13. ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TYPE OF PERSON, 1994

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.....	---	10	---	---	---	2	227	605	81	146	---	---	308	763	1,973
Truck.....	---	13	---	---	---	---	92	245	14	45	---	---	106	303	774
Truck-trailer....	---	64	---	---	---	76	8	42	---	12	---	---	8	194	402
Bus.....	---	2	---	---	---	---	---	---	---	---	---	---	---	2	3
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	2	3
Motorcycle.....	---	---	---	---	---	---	1	---	1	1	---	---	2	1	6
Pedestrian.....	---	3	---	---	---	---	19	11	27	13	---	---	46	27	70
Other.....	---	5	---	---	---	---	11	22	8	3	---	---	19	30	116
Total.....	---	97	---	---	---	78	358	927	131	220	---	---	489	1,322	3,347
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	3	---	---	---	---	38	275	12	48	---	---	50	326	776
Truck.....	---	2	---	---	---	---	15	125	1	27	---	---	16	154	305
Truck-trailer....	1	3	---	---	---	---	---	8	3	5	---	---	4	16	39
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	7	2	---	1	---	---	7	3	15
Pedestrian.....	---	---	---	---	---	---	2	---	1	3	---	---	3	3	6
Other.....	---	1	---	---	---	---	1	3	2	1	---	---	3	5	15
Total.....	1	9	---	---	---	---	63	413	19	85	---	---	83	507	1,156
GRAND TOTAL															
Automobile.....	---	13	---	---	---	2	265	880	93	194	---	---	358	1,089	2,749
Truck.....	---	15	---	---	---	---	107	370	15	72	---	---	122	457	1,079
Truck-trailer....	1	67	---	---	---	76	8	50	3	17	---	---	12	210	441
Bus.....	---	2	---	---	---	---	---	---	---	---	---	---	---	2	3
School bus.....	---	---	---	---	---	---	---	2	---	---	---	---	---	2	3
Motorcycle.....	---	---	---	---	---	---	8	2	1	2	---	---	9	4	21
Pedestrian.....	---	3	---	---	---	---	21	11	28	16	---	---	49	30	76
Other.....	---	6	---	---	---	---	12	25	10	4	---	---	22	35	131
Total.....	1	106	---	---	---	78	421	1,340	150	305	---	---	572	1,829	4,503

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

TABLE 14. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY VEHICLE SPEED, CIRCUMSTANCE, AND VISIBILITY, 1994

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.....	26	---	3	595	28	150	28	1	5	408	17	61	1,057	46	219
1-9.....	19	7	10	471	71	166	24	4	9	157	23	47	671	105	232
10-19.....	9	1	7	393	64	198	28	5	20	181	26	88	611	96	313
20-29.....	8	1	5	206	45	103	16	---	11	119	14	56	349	60	175
30-39.....	5	---	2	112	19	56	6	4	2	64	17	37	187	40	97
40-49.....	1	---	1	47	5	29	2	4	1	25	7	12	75	16	43
50-59.....	1	---	1	17	6	20	---	---	---	16	7	13	34	13	34
60 and over.....	---	---	---	4	3	---	---	---	---	1	1	1	5	4	1
Unknown.....	6	1	2	90	19	120	10	2	4	66	22	25	172	44	151
Total.....	75	10	31	1,935	260	842	114	20	52	1,037	134	340	3,161	424	1,265
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	12	---	5	102	1	28	6	---	---	95	1	27	215	2	60
10-19.....	7	---	2	136	1	41	7	---	2	114	2	32	264	3	77
20-29.....	7	---	4	111	6	44	8	---	---	100	6	59	226	12	107
30-39.....	6	1	4	66	4	34	5	1	6	68	7	48	145	13	92
40-49.....	6	---	7	43	5	26	4	---	2	48	16	30	101	21	65
50-59.....	2	---	1	26	4	14	1	---	1	41	10	36	70	14	52
60 and over.....	---	---	---	9	4	6	---	---	---	7	4	4	16	8	10
Unknown.....	5	---	3	35	2	6	2	---	1	56	2	26	98	4	36
Total.....	45	1	26	528	27	199	33	1	12	529	48	262	1,135	77	499
GRAND TOTAL															
Standing.....	26	---	3	595	28	150	28	1	5	408	17	61	1,057	46	219
1-9.....	31	7	15	573	72	194	30	4	9	252	24	74	886	107	292
10-19.....	16	1	9	529	65	239	35	5	22	295	28	120	875	99	390
20-29.....	15	1	9	317	51	147	24	---	11	219	20	115	575	72	282
30-39.....	11	1	6	178	23	90	11	5	8	132	24	85	332	53	189
40-49.....	7	---	8	90	10	55	6	4	3	73	23	42	176	37	108
50-59.....	3	---	2	43	10	34	1	---	1	57	17	49	104	27	86
60 and over.....	---	---	---	13	7	6	---	---	---	8	5	5	21	12	11
Unknown.....	11	1	5	125	21	126	12	2	5	122	24	51	270	48	187
Total.....	120	11	57	2,463	287	1,041	147	21	64	1,566	182	602	4,296	501	1,764

TABLE 15. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY POSITION AND TYPE OF VEHICLE, 1994

Vehicle	-----Position On Crossing-----								
	--Stalled On--			--Stopped On--			--Moving Over--		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Automobile.....	230	9	30	480	29	132	2,039	320	927
Truck.....	66	1	4	145	5	28	868	116	425
Truck-trailer....	36	---	3	92	1	19	313	11	188
Bus.....	1	---	1	1	---	1	1	---	---
School bus.....	1	---	---	---	---	---	2	---	2
Motorcycle.....	1	1	---	4	---	1	16	8	3
Total.....	335	11	38	722	35	181	3,239	455	1,545

TABLE 16. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY CONSIST SPEED CIRCUMSTANCE, AND VISIBILITY, 1994

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.....	14	---	3	312	1	40	19	---	4	180	1	33	525	2	80
10-19.....	10	---	4	278	1	96	13	1	---	162	3	71	463	5	171
20-29.....	7	---	5	328	9	211	14	---	7	198	9	76	547	18	299
30-39.....	15	3	9	340	39	166	31	1	25	170	28	65	556	71	265
40-49.....	17	2	7	392	98	205	17	2	12	199	42	70	625	144	294
50-59.....	7	1	2	181	65	86	13	8	2	85	35	12	286	109	102
60-69.....	2	---	1	76	38	28	6	8	2	33	12	10	117	58	41
70-79.....	3	4	---	27	9	10	1	---	---	10	4	3	41	17	13
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	75	10	31	1,935	260	842	114	20	52	1,037	134	340	3,161	424	1,265
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	4	1	3	16	---	3	2	---	3	80	3	42	102	4	51
1-9.....	8	---	2	135	2	39	12	---	1	155	11	69	310	13	111
10-19.....	9	---	6	91	---	31	6	---	5	99	2	53	205	2	95
20-29.....	10	---	6	92	4	36	5	---	2	83	11	39	190	15	83
30-39.....	9	---	4	66	5	34	3	1	1	44	10	19	122	16	58
40-49.....	2	---	1	81	10	46	5	---	---	48	6	26	136	16	73
50-59.....	2	---	4	26	3	6	---	---	---	15	2	8	43	5	18
60-69.....	1	---	---	15	2	1	---	---	---	4	2	4	20	4	5
70-79.....	---	---	---	6	1	3	---	---	---	1	1	2	7	2	5
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	45	1	26	528	27	199	33	1	12	529	48	262	1,135	77	499
GRAND TOTAL															
Standing.....	4	1	3	16	---	3	2	---	3	80	3	42	102	4	51
1-9.....	22	---	5	447	3	79	31	---	5	335	12	102	835	15	191
10-19.....	19	---	10	369	1	127	19	1	5	261	5	124	668	7	266
20-29.....	17	---	11	420	13	247	19	---	9	281	20	115	737	33	382
30-39.....	24	3	13	406	44	200	34	2	26	214	38	84	678	87	323
40-49.....	19	2	8	473	108	251	22	2	12	247	48	96	761	160	367
50-59.....	9	1	6	207	68	92	13	8	2	100	37	20	329	114	120
60-69.....	3	---	1	91	40	29	6	8	2	37	14	14	137	62	46
70-79.....	3	4	---	33	10	13	1	---	---	11	5	5	48	19	18
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	120	11	57	2,463	287	1,041	147	21	64	1,566	182	602	4,296	501	1,764

TABLE 17. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY RAILROAD EQUIPMENT INVOLVED, 1994

Type Consist	Consist Struck Vehicle	Vehicle Struck Consist	Lead Unit	Part Of Consist Struck				Unknown	Visibility			
				1	2	3	4		Dawn	Day	Dusk	Dark
Train (Units Pulling)	2,738	823	516	139	63	45	51	9	94	2,078	122	1,267
Train (Units Pushing)	178	101	51	8	11	7	23	1	13	136	10	120
Train (Standing)	---	87	18	22	16	15	12	4	4	9	3	71
Cars (Moving)	51	37	37	---	---	---	---	---	2	80	2	4
Cars (Standing)	---	10	9	---	1	---	---	---	---	6	---	4
Light Locos (Moving)	194	70	64	---	---	---	6	---	7	152	10	95
Light Locos (Standing)	---	6	5	---	---	---	1	---	---	1	---	5
Other	---	1	1	---	---	---	---	---	---	1	---	---
Total	3,161	1,135	701	169	91	67	93	14	120	2,463	147	1,566

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

TABLE 18. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TRAIN SPEED AND TYPE OF TRAIN, 1994

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	67	4	36	---	---	---	20	---	10	15	---	5	102	4	51
1-9	364	7	75	13	---	2	279	3	65	179	5	49	835	15	191
10-19	489	5	207	14	---	---	73	---	18	92	2	41	668	7	266
20-29	632	27	278	24	---	78	31	3	6	50	3	20	737	33	382
30-39	612	79	299	25	2	10	5	2	1	36	4	13	678	87	323
40-49	714	152	351	23	2	3	3	1	---	21	5	13	761	160	367
50-59	293	100	111	27	9	4	2	2	---	7	3	5	329	114	120
60-69	103	54	30	33	8	14	---	---	---	1	---	2	137	62	46
70-79	7	1	2	41	18	16	---	---	---	---	---	---	48	19	18
80-89	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	3,281	429	1,389	201	39	127	413	11	100	401	22	148	4,296	501	1,764

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

TABLE 19. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY LENGTH OF CONSIST, 1994

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	463	20	199	147	27	118	216	4	52	109	3	44	935	54	413
10-19	333	37	139	37	9	3	99	1	24	5	---	2	474	47	168
20-29	333	32	130	---	---	---	33	2	8	4	2	4	370	36	142
30-39	275	57	124	---	---	---	31	3	7	4	3	2	310	63	133
40-49	261	41	124	---	---	---	8	---	2	2	---	---	271	41	126
50-59	266	55	98	---	---	---	8	---	4	2	---	---	276	55	102
60-69	237	30	105	1	---	---	5	---	2	---	---	---	243	30	107
70-79	231	42	93	---	---	---	6	1	1	1	---	---	238	43	94
80-89	192	23	73	1	1	---	1	---	---	1	---	2	195	24	75
90-99	213	23	100	---	---	---	---	---	---	---	---	---	213	23	100
100-109	168	31	74	1	---	2	1	---	---	2	---	2	172	31	78
110-119	190	26	85	---	---	---	---	---	---	1	---	---	191	26	85
120-129	45	5	13	---	---	---	---	---	---	---	---	---	45	5	13
130-139	15	3	4	---	---	---	---	---	---	---	---	---	15	3	4
140-149	12	1	7	---	---	---	---	---	---	---	---	---	12	1	7
150 And over	27	2	8	---	---	---	---	---	---	---	---	---	27	2	8
Locomotives only	20	1	13	14	2	4	5	---	---	270	14	92	309	17	109
Total	3,281	429	1,389	201	39	127	413	11	100	401	22	148	4,296	501	1,764

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

TABLE 20. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY LENGTH OF CONSIST AND VISIBILITY, 1994

Number Of Cars	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	10	4	3	455	30	232	23	6	7	162	7	53	650	47	295
10-19.....	10	1	5	217	24	74	16	---	8	103	13	27	346	38	114
20-29.....	6	1	3	177	15	77	6	2	1	81	12	20	270	30	101
30-39.....	11	---	1	123	43	42	8	3	5	85	12	40	227	58	88
40-49.....	4	---	---	115	21	56	5	---	7	83	14	30	207	35	93
50-59.....	3	2	2	119	30	42	12	6	3	75	10	25	209	48	72
60-69.....	4	---	4	97	21	45	6	---	3	72	5	26	179	26	78
70-79.....	2	---	---	109	15	43	4	1	5	79	18	28	194	34	76
80-89.....	8	1	8	94	14	36	4	---	1	52	6	14	158	21	59
90-99.....	2	---	---	98	13	53	9	---	7	53	4	17	162	17	77
100-109.....	4	1	1	80	11	40	4	---	3	39	14	17	127	26	61
110-119.....	3	---	1	79	14	45	4	---	---	55	10	18	141	24	64
120-129.....	1	---	1	14	---	7	5	1	---	14	1	3	34	2	11
130-139.....	1	---	1	6	1	2	---	---	---	5	2	---	12	3	3
140-149.....	---	---	---	5	1	1	1	---	---	---	---	---	6	1	1
150 And over.....	1	---	---	11	1	3	---	---	---	6	---	2	18	1	5
Locomotives only.	5	---	1	136	6	44	7	1	2	73	6	20	221	13	67
Total.....	75	10	31	1,935	260	842	114	20	52	1,037	134	340	3,161	424	1,265
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	7	---	1	170	5	68	10	---	3	98	2	46	285	7	118
10-19.....	1	---	1	67	4	18	6	1	2	54	4	33	128	9	54
20-29.....	4	---	4	51	4	15	3	---	1	42	2	21	100	6	41
30-39.....	3	---	2	30	2	14	1	---	1	49	3	28	83	5	45
40-49.....	4	---	4	25	2	10	1	---	3	34	4	16	64	6	33
50-59.....	4	---	2	28	2	10	3	---	---	32	5	18	67	7	30
60-69.....	3	---	1	21	---	9	---	---	---	40	4	19	64	4	29
70-79.....	3	1	2	7	---	2	1	---	---	33	8	14	44	9	18
80-89.....	3	---	1	12	---	5	---	---	---	22	3	10	37	3	16
90-99.....	3	---	1	22	1	9	1	---	---	25	5	13	51	6	23
100-109.....	4	---	4	19	2	7	---	---	---	22	3	6	45	5	17
110-119.....	1	---	1	25	2	12	1	---	---	23	---	8	50	2	21
120-129.....	---	---	---	5	1	---	---	---	---	6	2	2	11	3	2
130-139.....	1	---	---	2	---	1	---	---	---	---	---	---	3	---	1
140-149.....	1	---	---	2	---	1	---	---	---	3	---	5	6	---	6
150 And over.....	---	---	---	3	1	1	---	---	---	6	---	2	9	1	3
Locomotives only.	3	---	2	39	1	17	6	---	2	40	3	21	88	4	42
Total.....	45	1	26	528	27	199	33	1	12	529	48	262	1,135	77	499
GRAND TOTAL															
1-9.....	17	4	4	625	35	300	33	6	10	260	9	99	935	54	413
10-19.....	11	1	6	284	28	92	22	1	10	157	17	60	474	47	168
20-29.....	10	1	7	228	19	92	9	2	2	123	14	41	370	36	142
30-39.....	14	---	3	153	45	56	9	3	6	134	15	68	310	63	133
40-49.....	8	---	4	140	23	66	6	---	10	117	18	46	271	41	126
50-59.....	7	2	4	147	32	52	15	6	3	107	15	43	276	55	102
60-69.....	7	---	5	118	21	54	6	---	3	112	9	45	243	30	107
70-79.....	5	1	2	116	15	45	5	1	5	112	26	42	238	43	94
80-89.....	11	1	9	106	14	41	4	---	1	74	9	24	195	24	75
90-99.....	5	---	1	120	14	62	10	---	7	78	9	30	213	23	100
100-109.....	8	1	5	99	13	47	4	---	3	61	17	23	172	31	78
110-119.....	4	---	2	104	16	57	5	---	---	78	10	26	191	26	85
120-129.....	1	---	1	19	1	7	5	1	---	20	3	5	45	5	13
130-139.....	2	---	1	8	1	3	---	---	---	5	2	---	15	3	4
140-149.....	1	---	---	7	1	2	1	---	---	3	---	5	12	1	7
150 And over.....	1	---	---	14	2	4	---	---	---	12	---	4	27	2	8
Locomotives only.	8	---	3	175	7	61	13	1	4	113	9	41	309	17	109
Total.....	120	11	57	2,463	287	1,041	147	21	64	1,566	182	602	4,296	501	1,764

TABLE 21. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TYPE AND CLASS OF TRACK, 1994

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.....	317	5	97	173	2	34	23	1	8	175	2	51	---	---	---	688	10	190
2.....	727	31	294	35	---	14	8	---	1	17	---	3	---	---	---	787	31	312
3.....	1,119	118	572	6	1	1	3	---	4	5	---	---	---	---	---	1,133	119	577
4.....	1,434	298	600	3	---	6	---	---	---	2	---	---	---	---	---	1,439	298	606
5.....	176	41	60	---	---	---	---	---	---	---	---	---	---	---	---	176	41	60
6.....	4	1	3	---	---	---	---	---	---	---	---	---	---	---	---	4	1	3
Unknown.....	39	---	8	12	---	---	3	---	2	15	1	6	---	---	---	69	1	16
Total.....	3,816	494	1,634	229	3	55	37	1	15	214	3	60	---	---	---	4,296	501	1,764

TABLE 22. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY WARNING DEVICE AND MOTORIST ACTION, 1994

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.....	580	95	228	3	---	2	20	---	7	342	15	45	14	---	1	959	110	283
Cantilever flshrs	---	---	---	26	---	9	251	32	119	62	4	20	---	---	---	339	36	148
Standard flashers	---	---	---	57	2	20	538	61	302	156	2	28	8	---	2	759	65	352
Hwy Sig,W W,Bells	---	---	---	5	---	1	44	3	21	21	---	4	1	---	---	71	3	26
Special Devices..	---	---	---	4	---	---	34	---	7	10	---	1	---	---	---	48	---	8
Crossbucks.....	---	---	---	79	17	33	1,266	203	625	376	17	102	25	2	6	1,746	239	766
Stopsigns.....	---	---	---	28	4	11	226	38	136	68	3	28	3	---	---	325	45	175
Other Signs.....	---	---	---	---	---	---	3	---	1	1	---	---	---	---	---	4	---	1
No Signs Or Signl	---	---	---	3	---	2	27	3	3	14	---	---	1	---	---	45	3	5
Total.....	580	95	228	205	23	78	2,409	340	1,221	1,050	41	228	52	2	9	4,296	501	1,764

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

TABLE 23. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE, AND VISIBILITY, 1994

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.....	929	7	23	29	362	23	354	11	81	4	95
Cantilever flshrs	337	2	---	5	137	9	76	1	50	5	56
Standard flashers	747	1	11	9	329	11	172	8	120	5	105
Hwy Sig, W W, Bells	71	---	---	---	39	1	12	1	5	3	10
Special Devices..	---	---	48	---	9	1	11	2	5	2	18
Crossbucks.....	---	---	1,746	24	860	55	348	19	223	11	206
Stopsigns.....	---	---	325	8	171	12	50	3	43	3	35
Other Signs.....	---	---	4	---	1	---	1	---	1	---	1
No Signs Or Signl	---	---	45	---	27	2	13	---	---	---	3
Total.....	2,084	10	2,202	75	1,935	114	1,037	45	528	33	529

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

TABLE 24. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, DURING DUSK AND DARK HOURS BY ILLUMINATION OF CROSSING AND CIRCUMSTANCE, 1994

	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	719	56	323	270	16	111	989	72	434
Not Lighted.....	1,777	272	736	625	47	296	2,402	319	1,032
Not Reported.....	654	95	205	234	14	90	888	109	295
Total.....	3,161	424	1,265	1,135	77	499	4,296	501	1,764

TABLE 25. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY CROSSING PROTECTION, 1994

Warning Device	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	42	5	13	848	91	344	42	7	15	604	70	189	1,536	173	561
Automatic, Side Of Approach.	1	---	---	17	2	5	1	---	---	9	---	8	28	2	13
Automatic, Opposite Side....	---	---	---	1	---	---	1	---	---	1	---	---	3	---	---
Automatic, Side Not Reported	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Manual, Both Sides.....	---	---	---	7	---	---	1	---	---	10	---	---	18	---	---
Manual, Side Of Approach....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Manual, Side Not Reported...	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Other, Both Sides.....	30	5	16	1,001	162	477	63	10	37	389	64	140	1,483	241	670
Other, Side Of Approach.....	2	---	2	22	---	10	1	---	---	6	---	1	31	---	13
Other, Opposite Side.....	---	---	---	4	---	1	3	2	---	2	---	2	9	2	3
Other, Side Not Reported....	---	---	---	5	3	---	---	---	---	2	---	---	7	3	---
No Signs Or Signals.....	---	---	---	27	2	5	2	1	---	13	---	---	42	3	5
Total.....	75	10	31	1,935	260	842	114	20	52	1,037	134	340	3,161	424	1,265
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	20	---	11	250	19	94	16	---	9	260	19	116	546	38	230
Automatic, Side Of Approach.	1	---	---	6	---	---	---	---	---	5	1	4	12	1	4
Automatic, Opposite Side....	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Manual, Both Sides.....	2	---	1	5	---	---	1	---	---	14	---	5	22	---	6
Manual, Side Of Approach....	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
Manual, Side Not Reported...	---	---	---	---	---	---	1	---	---	1	---	1	2	---	1
Other, Both Sides.....	21	1	13	257	7	101	13	1	3	226	28	126	517	37	243
Other, Side Of Approach.....	1	---	1	8	1	4	---	---	---	13	---	8	22	1	13
Other, Opposite Side.....	---	---	---	1	---	---	1	---	---	3	---	---	5	---	---
Other, Side Not Reported....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
No Signs Or Signals.....	---	---	---	---	---	---	---	---	---	3	---	---	3	---	---
Total.....	45	1	26	528	27	199	33	1	12	529	48	262	1,135	77	499
GRAND TOTAL															
Automatic, Both Sides.....	62	5	24	1,098	110	438	58	7	24	864	89	305	2,082	211	791
Automatic, Side Of Approach.	2	---	---	23	2	5	1	---	---	14	1	12	40	3	17
Automatic, Opposite Side....	---	---	---	1	---	---	2	---	---	1	---	---	4	---	---
Automatic, Side Not Reported	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
Manual, Both Sides.....	2	---	1	12	---	---	2	---	---	24	---	5	40	---	6
Manual, Side Of Approach....	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	3	---	---	3	---	---
Manual, Side Not Reported...	---	---	---	1	---	---	1	---	---	1	---	1	3	---	1
Other, Both Sides.....	51	6	29	1,258	169	578	76	11	40	615	92	266	2,000	278	913
Other, Side Of Approach.....	3	---	3	30	1	14	1	---	---	19	---	9	53	1	26
Other, Opposite Side.....	---	---	---	5	---	1	4	2	---	5	---	2	14	2	3
Other, Side Not Reported....	---	---	---	6	3	---	---	---	---	2	---	---	8	3	---
No Signs Or Signals.....	---	---	---	27	2	5	2	1	---	16	---	---	45	3	5
Total.....	120	11	57	2,463	287	1,041	147	21	64	1,566	182	602	4,296	501	1,764

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.

TABLE 26. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY VISIBILITY AND CIRCUMSTANCE, 1994

Visibility	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	75	10	31	45	1	26	120	11	57
Day.....	1,935	260	842	528	27	199	2,463	287	1,041
Dusk.....	114	20	52	33	1	12	147	21	64
Dark.....	1,037	134	340	529	48	262	1,566	182	602
Total.....	3,161	424	1,265	1,135	77	499	4,296	501	1,764

TABLE 27. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TEMPERATURE AND VISIBILITY, 1994

Temperature	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	---	---	1	---	2	---	---	---	2	---	1
80 To 100.....	---	552	18	69	2	124	2	32	2	676	20	101
60 To 79.....	24	705	35	323	15	177	12	162	39	882	47	485
40 To 59.....	29	384	29	376	8	101	9	180	37	485	38	556
20 To 39.....	16	217	23	192	13	79	7	111	29	296	30	303
0 To 19.....	5	62	6	65	6	35	2	36	11	97	8	101
-20 To -1.....	1	15	3	11	1	9	1	7	2	24	4	18
Under -20.....	---	---	---	---	---	1	---	1	---	1	---	1
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	75	1,935	114	1,037	45	528	33	529	120	2,463	147	1,566

TABLE 28. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY TIME OF DAY, 1994

TIME	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	95	15	27	47	1	20	142	16	47
1 TO 1:59 AM...	79	5	25	50	7	29	129	12	54
2 TO 2:59 AM...	78	12	25	57	4	31	135	16	56
3 TO 3:59 AM...	61	5	17	38	2	30	99	7	47
4 TO 4:59 AM...	39	2	12	25	2	11	64	4	23
5 TO 5:59 AM...	51	3	18	32	1	18	83	4	36
6 TO 6:59 AM...	102	18	28	36	1	15	138	19	43
7 TO 7:59 AM...	141	22	125	39	2	15	180	24	140
8 TO 8:59 AM...	152	21	73	47	3	12	199	24	85
9 TO 9:59 AM...	167	22	67	53	2	20	220	24	87
10 TO 10:59 AM.	166	23	60	33	1	9	199	24	69
11 TO 11:59 AM.	161	16	73	55	4	20	216	20	93
NOON TO 12:59 PM.	192	21	64	45	1	15	237	22	79
1 TO 1:59 PM...	188	17	78	36	2	11	224	19	89
2 TO 2:59 PM...	173	19	72	64	6	23	237	25	95
3 TO 3:59 PM...	196	33	61	60	2	27	256	35	88
4 TO 4:59 PM...	178	23	78	45	3	19	223	26	97
5 TO 5:59 PM...	166	22	59	59	3	22	225	25	81
6 TO 6:59 PM...	182	28	70	52	---	19	234	28	89
7 TO 7:59 PM...	129	30	63	47	2	31	176	32	94
8 TO 8:59 PM...	131	18	52	45	8	26	176	26	78
9 TO 9:59 PM...	122	17	44	56	3	29	178	20	73
10 TO 10:59 PM.	105	22	43	55	8	24	160	30	67
11 TO 11:59 PM.	107	10	31	59	9	23	166	19	54
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	3,161	424	1,265	1,135	77	499	4,296	501	1,764

TABLE 29. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS,
BY MONTH AND CIRCUMSTANCE, 1994

Month	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	366	36	153	140	6	51	506	42	204
February.....	293	44	115	118	5	53	411	49	168
March.....	252	24	100	100	10	38	352	34	138
April.....	229	24	83	90	2	44	319	26	127
May.....	259	25	89	72	7	30	331	32	119
June.....	238	32	170	80	2	35	318	34	205
July.....	265	43	114	71	9	28	336	52	142
August.....	257	43	113	87	7	34	344	50	147
September.....	235	38	66	81	3	46	316	41	112
October.....	240	31	85	85	1	46	325	32	131
November.....	250	42	82	109	12	50	359	54	132
December.....	277	42	95	102	13	44	379	55	139
Total.....	3,161	424	1,265	1,135	77	499	4,296	501	1,764

TABLE 30. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY WEATHER CIRCUMSTANCE AND VISIBILITY, 1994

Weather	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	45	1,363	64	655	25	362	16	308	70	1,725	80	963
Cloudy.....	14	423	35	219	7	83	9	113	21	506	44	332
Rain.....	4	107	8	110	3	46	4	52	7	153	12	162
Fog.....	9	11	1	18	6	14	---	28	15	25	1	46
Sleet.....	1	1	---	---	---	2	---	3	1	3	---	3
Snow.....	2	30	6	35	4	21	4	25	6	51	10	60
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	75	1,935	114	1,037	45	528	33	529	120	2,463	147	1,566

TABLE 31. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY OBSTRUCTION OF MOTORIST VIEW, CIRCUMSTANCE AND VISIBILITY, 1994

Type Obstruction	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	1	39	3	15	1	15	2	4	2	54	5	19
Standing RR Equipment.	---	16	1	7	---	3	---	4	---	19	1	11
Passing Train.....	---	10	---	2	---	1	---	2	---	11	---	4
Topography.....	---	16	---	5	---	7	---	2	---	23	---	7
Vegetation.....	---	36	3	7	2	17	---	2	2	53	3	9
Highway Vehicle.....	---	9	---	1	---	5	---	2	---	14	---	3
Other.....	---	10	3	8	---	5	---	8	---	15	3	16
Not Obstructed.....	74	1,799	104	992	42	475	31	505	116	2,274	135	1,497
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	75	1,935	114	1,037	45	528	33	529	120	2,463	147	1,566

TABLE 32. (MV) ACCIDENTS/INCIDENTS AT HIGHWAY-RAIL CROSSINGS, BY MOTORIST ACTION AND TYPE OF VEHICLE, 1994

Type Of Vehicle	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	53	2,649	47	91	2,439	219
Truck.....	16	1,053	10	18	995	66
Truck-trailer....	10	425	6	11	405	25
Bus.....	---	3	---	---	2	1
School bus.....	---	3	---	---	3	---
Motorcycle.....	---	21	---	1	19	1
Total.....	79	4,154	63	121	3,863	312

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(G R A P H S)

HIGHWAY-RAIL CROSSING

INVENTORY

AT

PUBLIC CROSSINGS ONLY

FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

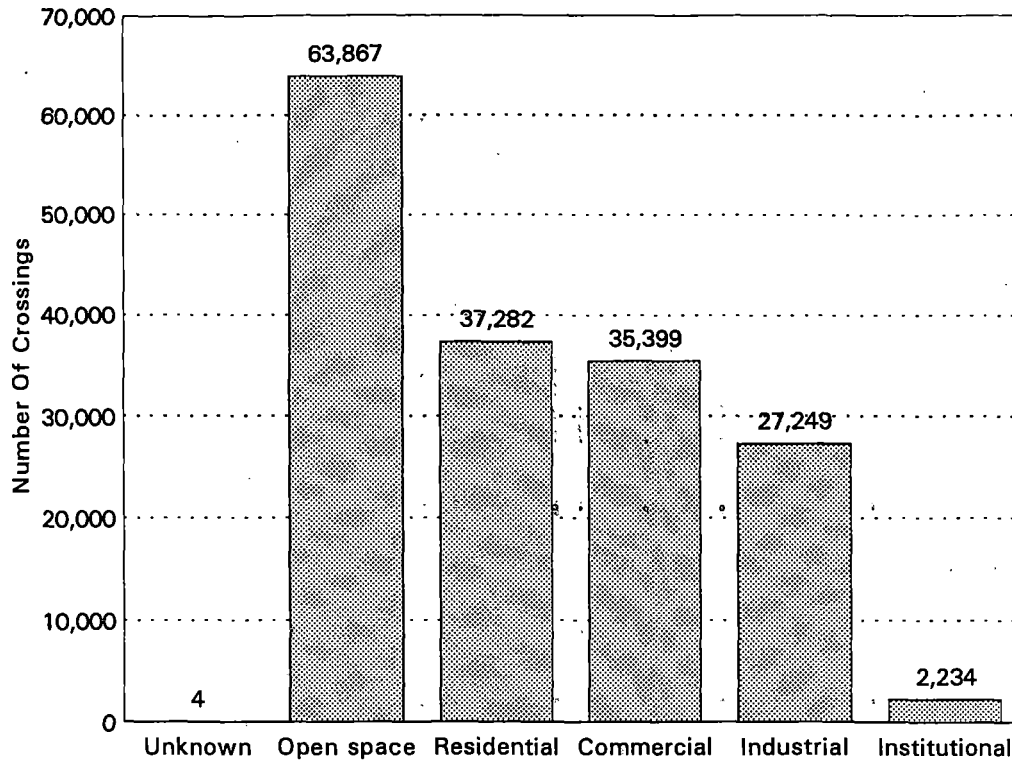


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

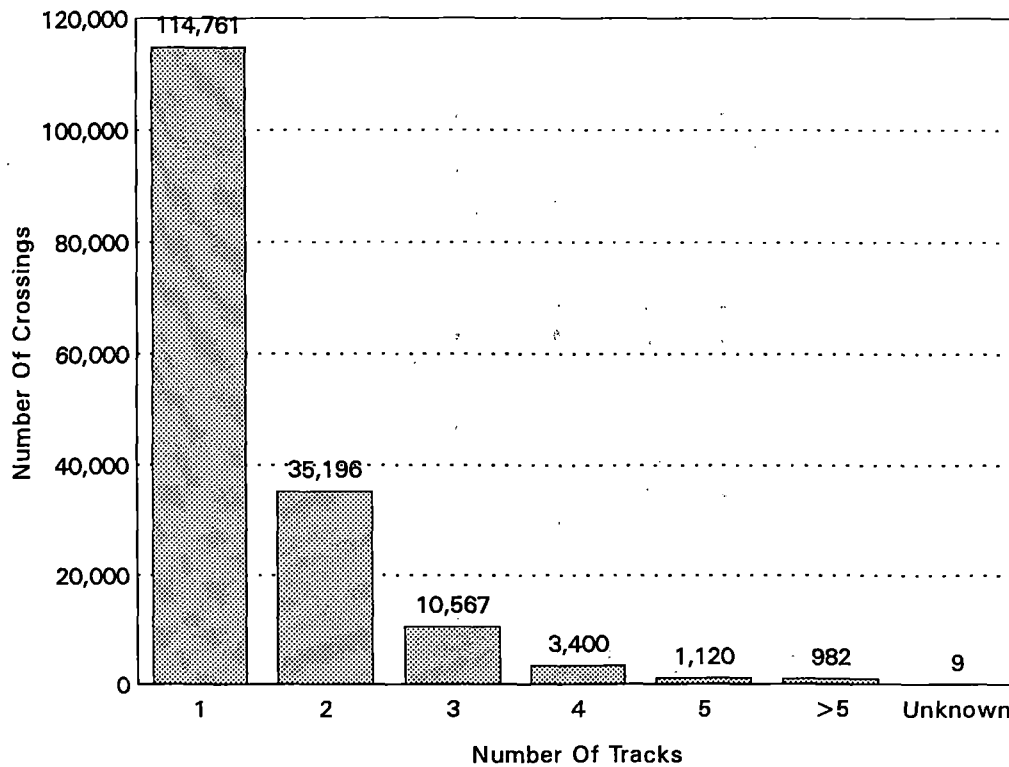


FIGURE 28. CROSSINGS BY NUMBER OF LANES

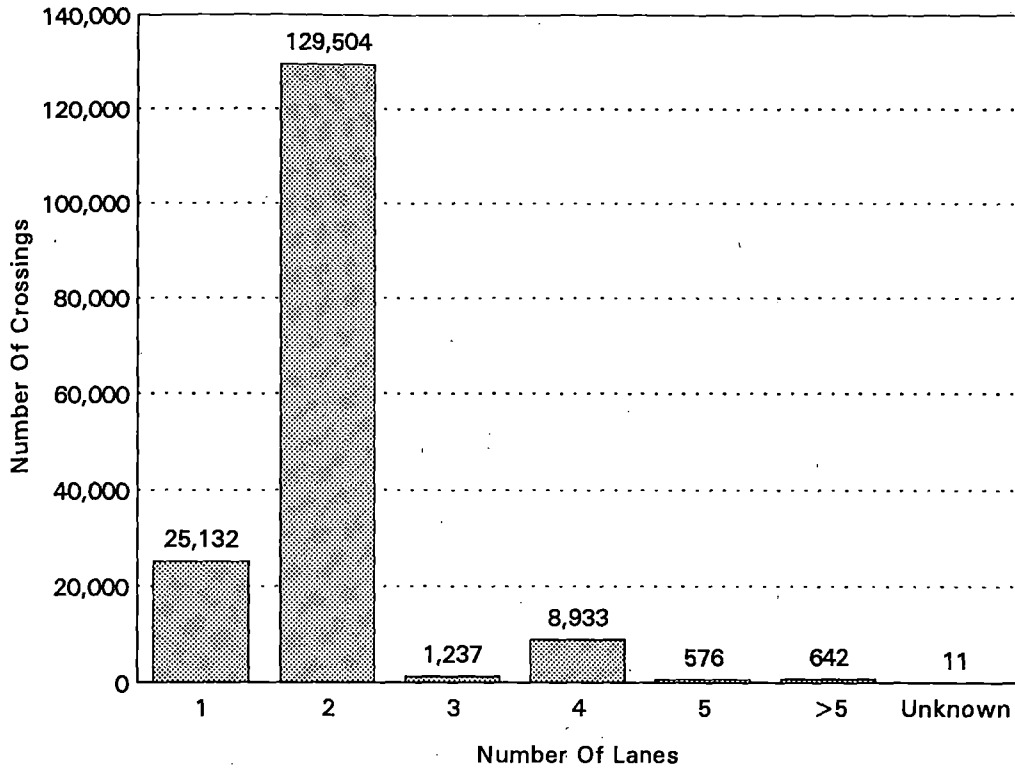
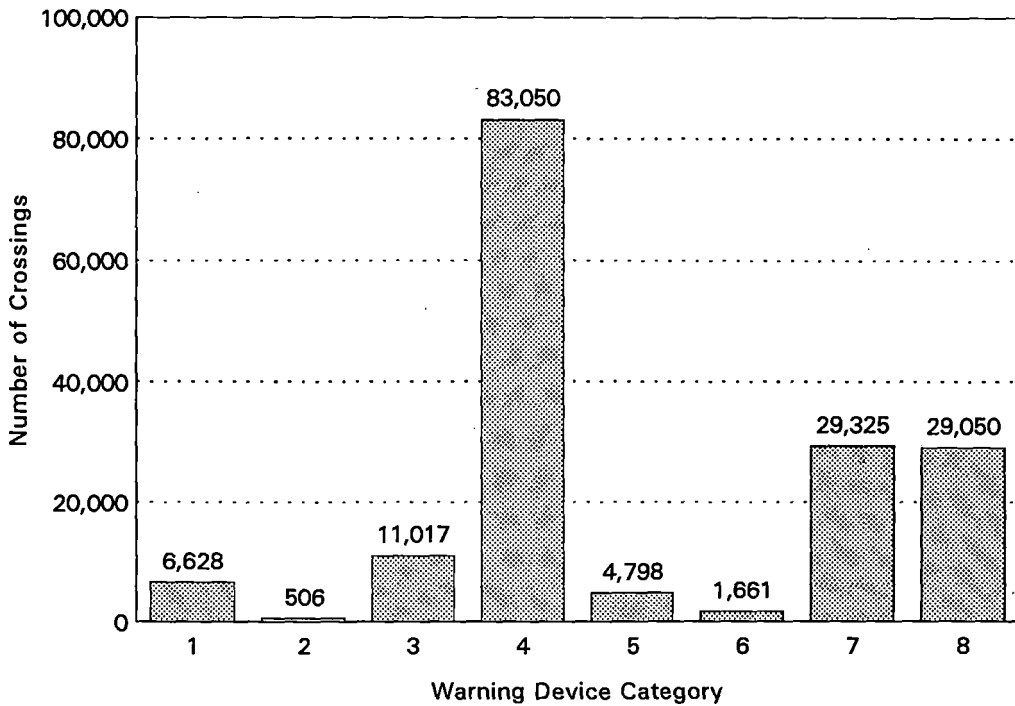


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY



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

FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

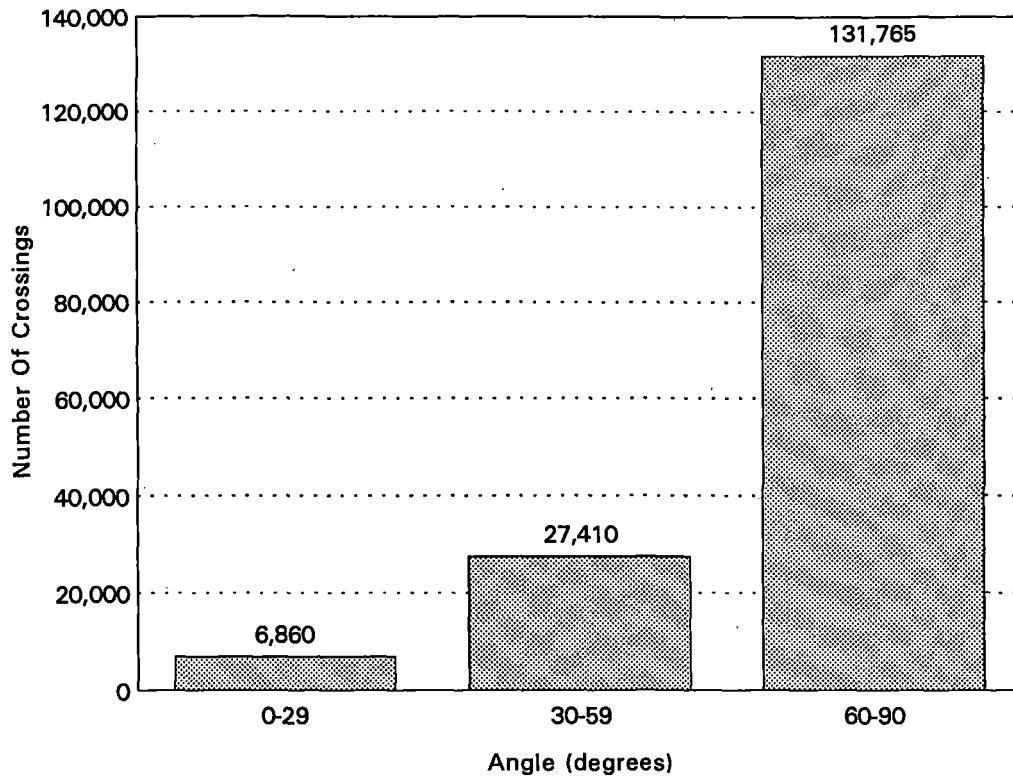
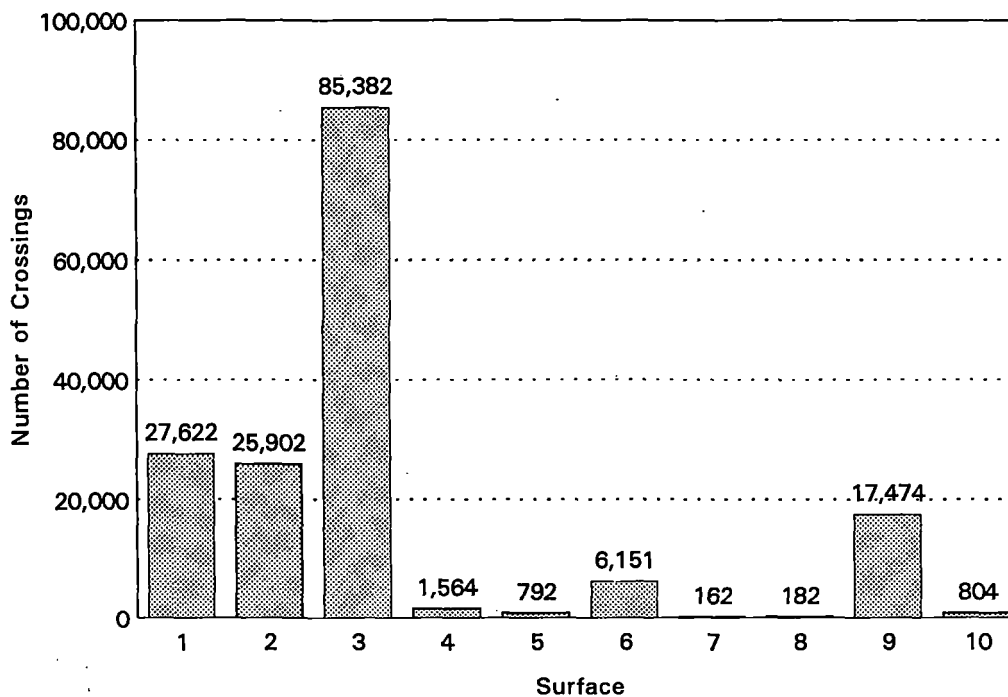
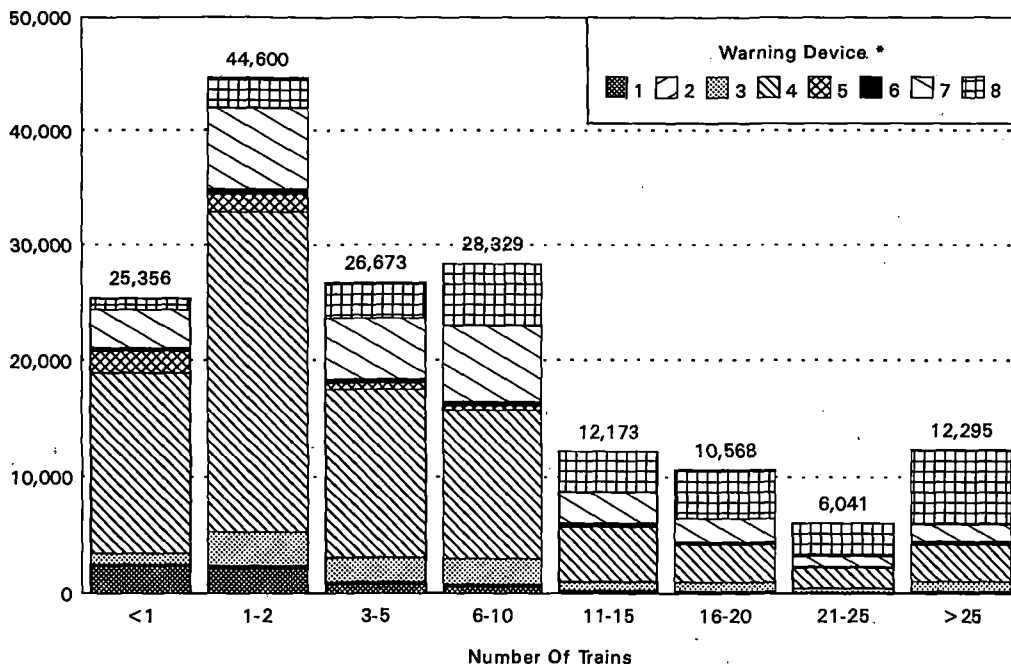


FIGURE 31. CROSSINGS BY CROSSING SURFACE



1 = Section timber; 2 = Full wood plank; 3 = Asphalt; 4 = Concrete slab; 5 = Concrete pavement; 6 = Rubber; 7 = Metal sections; 8 = Other metal; 9 = Unconsolidated; 10 = Other

FIGURE 32. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY



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

FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND TYPE OF WARNING DEVICE

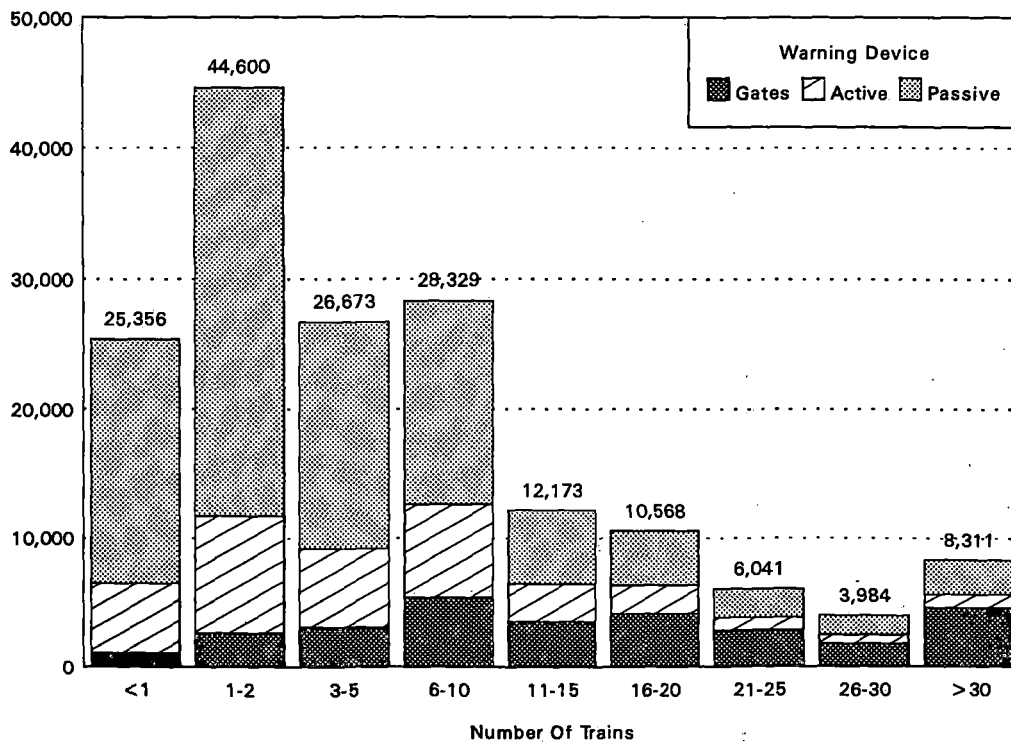
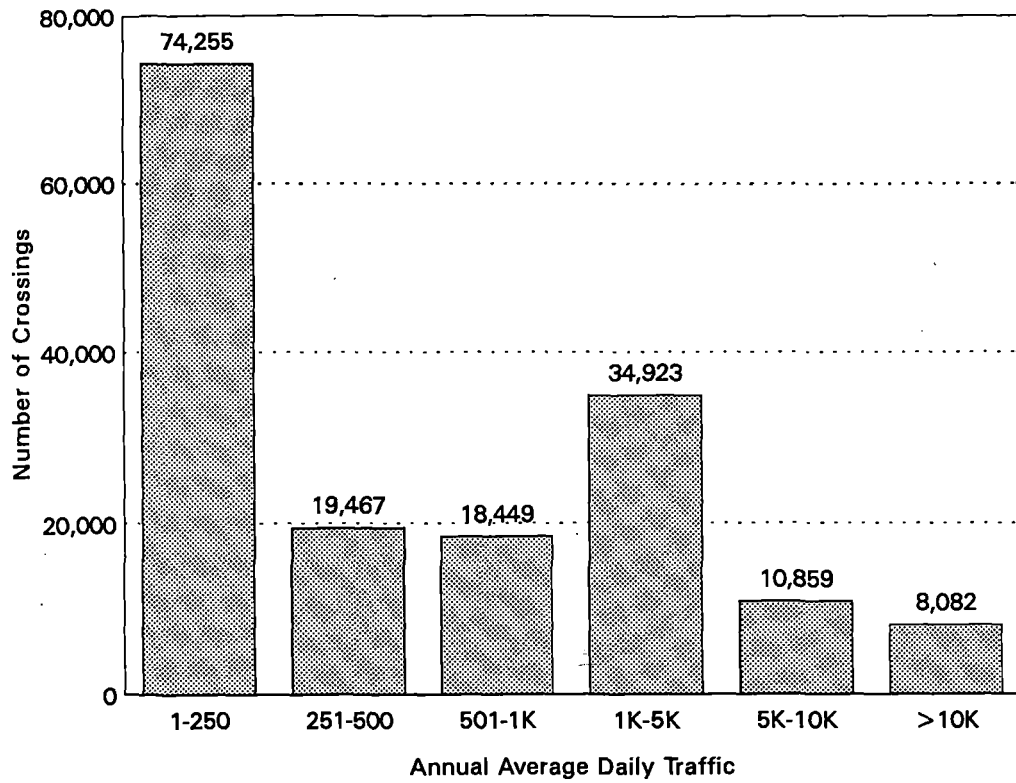


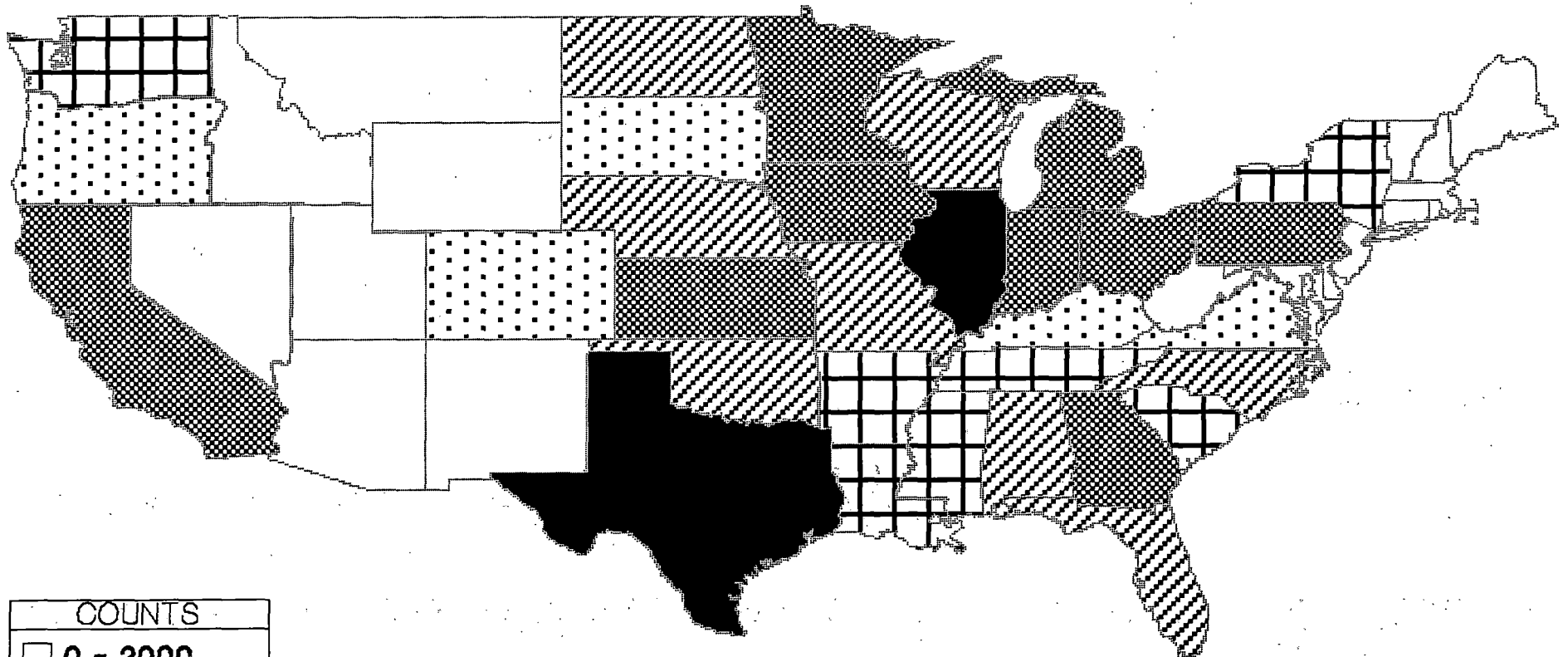
FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC



(M A P S)

HIGHWAY-RAIL CROSSING

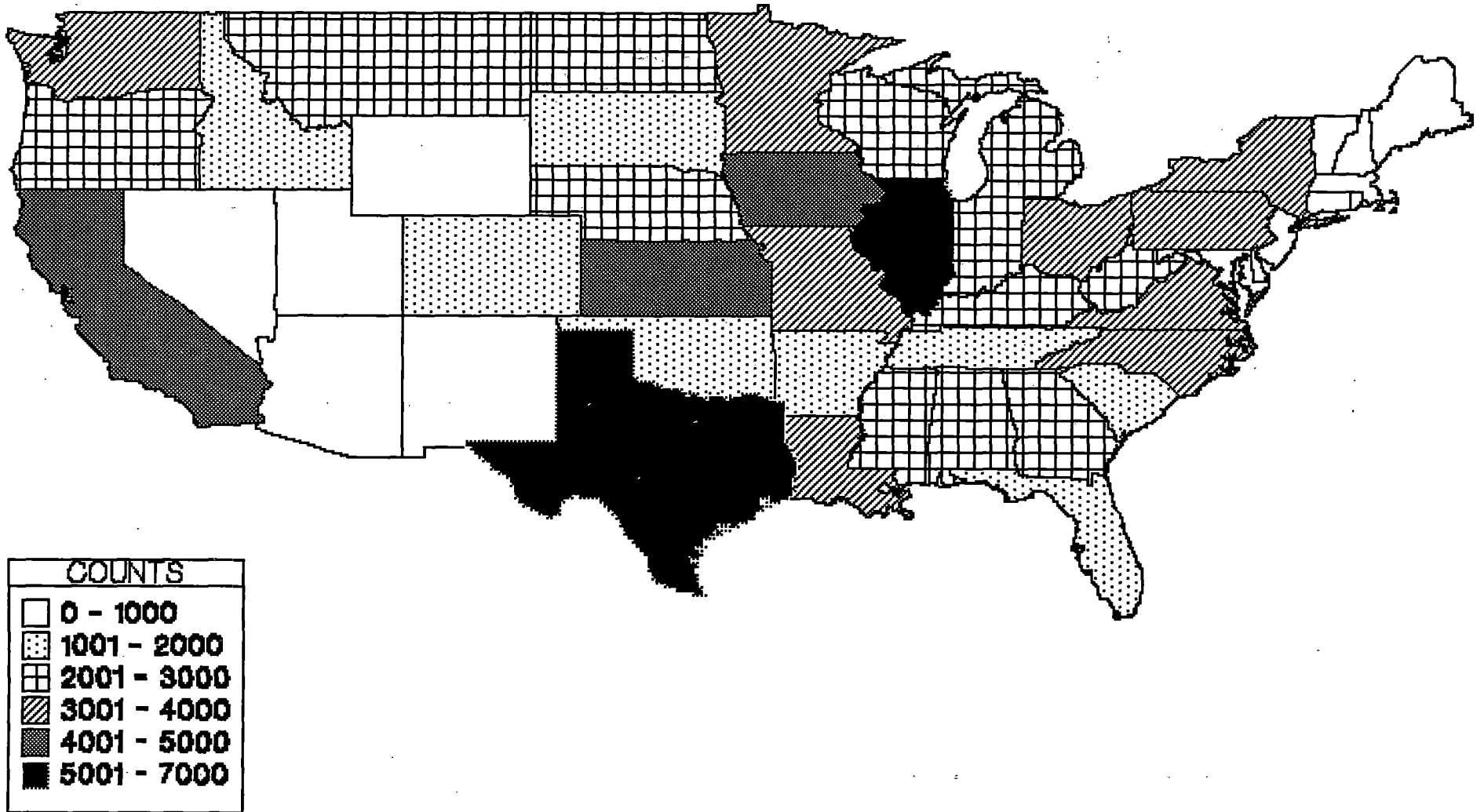
FIGURE 37A. NUMBER OF PUBLIC CROSSINGS BY STATE, 1994



COUNTS	
□	0 - 2000
◻	2001 - 3000
⊞	3001 - 4000
▨	4001 - 5000
▩	5001 - 8000
■	8001 - 14000

FIGURE 37B. NUMBER OF PRIVATE CROSSINGS BY STATE, 1994

61



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(D A T A)

HIGHWAY - RAIL

CROSSING

INVENTORY

TABLE 33. TOTAL PUBLIC AND PRIVATE CROSSINGS BY STATE AND TYPE, 1994

State	Public At Grade	Public RR Under	Public RR Over	Private at Grade	Private Grade Separated	Pedestrian at Grade	Pedestrian Grade Separated	Total
Alabama	4,008	488	174	2,111	20	23	2	6,826
Alaska	227	11	6	108	1	8	4	365
Arizona	941	88	83	688	106	6	2	1,914
Arkansas	3,325	182	120	1,523	71	10	8	5,239
California	7,988	933	563	4,895	195	155	87	14,816
Colorado	2,076	205	115	1,448	21	21	8	3,894
Connecticut	370	323	252	261	37	0	31	1,274
Delaware	269	48	57	153	2	2	1	532
Dist Of Columbia	37	30	37	12	0	11	2	129
Florida	4,077	231	58	1,463	1	68	3	5,901
Georgia	6,197	546	253	2,790	7	41	5	9,839
Hawaii	6	0	0	0	0	0	0	6
Idaho	1,556	92	68	1,422	12	10	3	3,163
Illinois	10,265	924	1,909	5,749	175	308	85	19,415
Indiana	6,678	449	578	2,902	89	68	13	10,777
Iowa	5,290	472	328	4,298	50	47	11	10,496
Kansas	7,912	349	208	4,256	32	36	0	12,793
Kentucky	2,639	438	441	2,830	102	54	24	6,528
Louisiana	3,770	226	117	3,299	20	36	7	7,475
Maine	882	128	78	934	15	11	3	2,051
Maryland	693	314	203	732	24	9	17	1,992
Massachusetts	1,192	795	436	538	52	19	84	3,116
Michigan	5,791	327	403	2,726	22	109	20	9,398
Minnesota	5,218	461	342	3,140	17	53	24	9,255
Mississippi	3,028	223	112	2,090	14	14	2	5,483
Missouri	4,872	637	411	3,300	72	61	34	9,387
Montana	1,533	137	82	2,057	112	15	5	3,941
Nebraska	4,058	211	124	2,824	39	14	4	7,274
Nevada	288	60	40	258	11	3	0	660
New Hampshire	503	118	52	344	21	7	6	1,051
New Jersey	1,862	534	728	594	57	42	83	3,900
New Mexico	815	70	79	595	44	2	2	1,607
New York	3,279	1,352	1,096	3,179	192	65	232	9,395
North Carolina	4,875	505	287	3,632	17	51	19	9,386
North Dakota	4,631	79	83	2,184	16	19	4	7,016
Ohio	6,713	1,070	1,082	3,955	198	34	56	13,108
Oklahoma	4,627	257	192	1,779	57	18	2	6,932
Oregon	2,343	290	174	2,878	113	90	12	5,900
Pennsylvania	5,599	1,547	1,872	3,450	239	126	199	13,032
Rhode Island	128	107	38	71	7	0	5	356
South Carolina	3,111	368	123	1,359	1	12	3	4,977
South Dakota	2,137	89	46	1,361	53	5	1	3,692
Tennessee	3,371	503	456	1,948	52	28	11	6,369
Texas	12,706	861	791	6,559	140	33	16	21,106
Utah	1,009	117	48	789	2	4	3	1,972
Vermont	496	85	83	650	44	46	4	1,408
Virginia	2,201	608	456	3,145	116	49	20	6,595
Washington	3,018	373	312	3,212	106	96	20	7,137
West Virginia	1,972	262	347	2,308	102	76	18	5,085
Wisconsin	4,899	428	314	2,984	86	108	42	8,861
Wyoming	530	113	46	930	78	1	7	1,705
Puerto Rico	24	0	0	2	0	0	0	26
FINAL TOTALS	166,035	19,064	16,303	106,715	3,060	2,124	1,254	314,555

TABLE 34. TOTAL PUBLIC AND PRIVATE CROSSINGS BY RAILROAD AND TYPE, 1994

Railroad	Public At Grade	Public RR Under	Public RR Over	Private at Grade	Private Grade Separated	Pedestrian at Grade	Pedestrian Grade Separated	Total
Alaska Railroad Corporation	223	11	6	108	1	8	4	361
Allegheny and Eastern Railroad	106	10	2	82	2	3	1	206
Amtrak (National Railroad Passenger Corpora	185	539	489	68	23	2	73	1,379
Arkansas & Missouri Railroad Company	251	7	14	92	5	0	0	369
Arkansas Midland Railroad Company, Incorpor	179	6	4	92	1	2	0	284
Atchison, Topeka & Santa Fe Railway Company	6,648	631	580	3,666	191	51	22	11,789
Atlanta & Saint Andrews Bay Railway Company	137	6	1	70	0	1	0	215
Austin & Northwestern Railroad	169	8	7	108	3	1	0	296
Bangor & Aroostook Railroad	165	12	23	385	0	7	0	592
Bessemer & Lake Erie Railroad Company	140	35	49	96	3	2	0	325
Boston & Maine Corporation	866	430	204	412	51	14	36	2,013
Buffalo & Pittsburgh Railroad, Incorporated	322	47	55	263	16	7	0	710
Burlington Northern Railroad Company	19,149	1,540	1,173	12,820	367	266	65	35,380
Camas Prairie Railroad Company	106	5	18	116	4	1	1	251
Canadian Pacific Railway Company	51	12	15	180	6	39	1	304
Cedar Rapids & Iowa City Railway Company	96	16	6	92	0	3	1	214
Cedar River Railroad Company	160	1	2	104	0	0	0	267
Central Kansas Railway, Incorporated	1,129	16	5	579	4	3	0	1,736
Central Michigan Railway Company	332	19	6	187	1	7	0	552
Central Railroad Company Of Indianapolis	270	0	0	3	0	0	0	273
Central Vermont Railway, Incorporated	193	63	56	223	14	3	8	560
Chehalis Western	86	27	11	96	6	2	0	228
Chicago & North Western Transportation Comp	5,672	555	707	4,184	151	109	51	11,429
Chicago Missouri & Western Railway	141	30	20	115	5	7	1	319
Chicago, Central & Pacific Railroad Company	888	88	79	701	49	15	12	1,832
Columbus & Greenville Railway Company	337	4	1	310	4	3	0	659
Consolidated Rail Corporation	13,068	3,243	3,469	7,323	396	172	272	27,943
CSX Transportation	18,465	2,481	1,787	11,087	288	343	109	34,560
Dakota, Minnesota & Eastern Railroad	805	21	33	554	38	2	0	1,453
Dakota, Missouri Valley & Western Railroad,	287	2	0	159	0	1	0	449
Delaware & Hudson Railway Company	311	81	93	446	30	16	9	986
Delta Southern Railroad Company	92	1	1	119	0	0	0	213
Denver & Rio Grande Western Railroad Compan	836	137	67	673	4	3	4	1,724
Department of Defense - Other	270	3	5	234	1	5	0	518
Detroit & Mackinac Railway Company	359	8	1	207	1	10	0	586
Duluth, Missabe & Iron Range Railway Compan	150	25	28	131	4	2	0	340
Eastern Idaho Railroad	353	7	4	269	2	0	0	635
Elgin, Joliet & Eastern Railway Company	192	30	28	89	2	0	0	341
Escanaba & Lake Superior Railroad Company	267	4	2	162	0	4	0	439
Florida Central Railroad Company	154	3	5	55	0	12	0	229
Florida East Coast Railway Company	714	33	6	114	0	13	0	880
Fox Valley & Western Ltd.	727	39	21	449	15	16	3	1,270
Gateway Western Railway	224	24	23	156	1	2	0	430
Georgia Central Railroad	220	9	4	87	0	2	0	322
Georgia Southwestern Railroad Division	282	19	3	166	1	1	0	472
Grainbelt Corporation	255	2	8	93	0	0	0	358
Grand Trunk Western Railroad Incorporated	1,164	102	178	498	6	15	11	1,974
Great Western Railway Company	85	3	1	127	0	0	1	217
Gulf And Mississippi Railroad Corporation	645	53	29	460	1	2	0	1,190
Hillsdale County Railway Company, Incorpora	127	3	2	68	3	0	0	203
Houston Belt & Terminal Railway Company	164	23	16	43	0	4	1	251
Huron & Eastern Railway	207	0	0	154	0	1	0	362
Idaho Northern & Pacific Railroad Company	112	4	3	182	0	1	0	302
Illinois Central Railroad Company	2,824	332	332	1,707	43	65	23	5,326
Indiana & Ohio Central Railroad, Incorporat	116	19	19	87	7	0	0	248
Indiana Hi-Rail Corporation	236	5	2	106	7	4	0	360
Indiana Rail Road Company	459	22	38	152	10	3	0	684
Iowa Interstate Railroad	479	60	43	326	5	3	1	917
Iowa Northern Railway Company	187	8	5	119	0	0	0	319
Kankakee, Beaverville & Southern Railroad C	164	1	7	60	2	0	0	234
Kansas City Southern Railway Company	1,028	105	87	492	26	6	4	1,748
Kansas City Terminal Railway Company	79	48	25	95	0	1	0	248
Kansas Southwestern Railway	408	6	2	163	0	0	0	579
Kiamichi Railroad Company, Incorporated	234	5	11	97	9	0	0	356
Kyle Railroad Company	496	12	4	367	5	1	0	885
Lamoille Valley Railroad Company	84	9	7	105	13	0	0	218
Long Island Rail Road	304	294	105	82	0	8	80	873
Louisiana & Arkansas Railway Company	666	65	34	579	4	4	2	1,354
Louisiana & Delta Railroad	208	1	0	173	0	0	0	382
Maine Department Of Transportation	161	25	15	87	5	3	0	296
Maryland & Delaware Railroad Company	92	1	0	137	0	0	1	231
Maryland Dept. Of Transportation	84	6	3	101	2	4	0	200
Mass. Bay Transporatation Authority	75	80	60	48	6	3	18	290
Mid-Atlantic Railroad Company, Incorporated	135	4	0	123	0	2	0	264

TABLE 34. TOTAL PUBLIC AND PRIVATE CROSSINGS BY RAILROAD AND TYPE, CONT. 1994

Railroad	Public			Private		Pedestrian		Total
	At Grade	Public RR Under	Public RR Over	at Grade	Private Grade Separated	at Grade	Pedestrian Grade Separated	
Mid-Michigan Railroad Company	115	4	0	95	0	3	0	217
Midd States Port Authority	404	17	20	170	2	1	0	614
Midsouth Railroad Corporation (USE CODE KC	513	72	25	269	4	2	0	885
Missouri & Northern Arkansas Railroad Compa	410	35	24	353	5	1	0	828
Monongahela Railway Company	64	14	41	93	0	1	0	213
Montana Rail Link	449	52	21	684	10	3	1	1,220
MNVA Railroad, Incorporated	103	2	0	101	0	1	0	207
Nashville & Eastern Railroad	199	11	11	151	6	2	0	380
Nebraska Central Railroad	342	0	0	236	0	2	0	580
New Jersey Transit Rail Operations	347	199	297	96	13	19	45	1,016
New Orleans Lower Coast Railroad, Incorpora	45	0	0	180	0	4	0	229
New Orleans Public Belt Railroad	100	6	8	156	6	2	0	278
New York City Trans. Authority (MTA)	30	143	42	15	9	0	39	278
New York, Susquehanna & Western Railroad Co	271	21	9	223	10	3	1	538
Norfolk Southern Corporation	17,117	1,999	1,644	11,503	243	106	45	32,657
North Carolina Department Of Transportation	92	11	3	122	2	3	1	234
Northeast Kansas & Missouri	124	2	4	106	0	0	0	236
Ohio Central Railroad Company	130	15	5	150	9	0	1	310
Oklahoma Department Of Transportation	383	18	9	105	2	1	0	518
Oklahoma Kansas & Texas Railroad Company	122	12	8	110	0	1	0	253
Paducah & Louisville Railway Company	259	53	49	185	7	3	0	556
Pittsburgh & Lake Erie Railroad Company	97	53	35	99	15	6	12	317
Prairie Trunk Railway	169	1	0	61	0	1	0	232
Providence & Worcester Railroad Company	196	73	49	123	6	0	6	453
Red River Valley & Western Railroad	761	5	1	316	0	0	0	1,083
Seminole Gulf Railroad	166	7	0	31	0	0	0	204
Soo Line Railroad Company	4,271	365	368	2,732	48	67	26	7,877
South Carolina Central Railroad Company, In	132	2	1	65	0	1	0	201
South Dakota Railroad Authority	321	9	2	282	2	1	0	617
South Kansas & Oklahoma Railroad Company	359	12	15	245	3	2	0	636
South Orient Railroad Company, Ltd.	178	6	8	173	1	1	0	367
Southeastern Pennsylvania Transportation Au	262	114	174	53	22	10	40	675
Southern Pacific Transportation Company	8,090	887	557	4,893	216	126	66	14,835
Southern Pacific, Chicago-St. Louis Corpora	269	18	27	87	3	32	1	437
Springfield Terminal Railway Company (Vermo	429	75	33	283	8	0	3	831
St. Louis Southwestern Railway Company	2,025	114	77	780	29	2	0	3,027
State Subsidy	247	35	31	139	9	0	2	463
Tennessee Southern Railroad Company, Incorp	134	18	11	65	2	0	1	231
Terminal Railroad Association Of St. Louis	141	40	26	12	1	0	0	220
Texas & Oklahoma Railroad Company	340	8	1	190	0	0	0	539
Texas Mexican Railway Company	239	9	2	195	0	0	0	445
Texas Northeastern Division--Mid-Michigan R	216	12	12	115	0	0	0	355
Toledo, Peoria & Western Railway Corporatio	438	12	3	270	0	6	0	729
Tulare Valley Railroad Company	324	2	5	232	3	4	0	570
Tuscola & Saginaw Bay Railroad Company, Inc	568	20	7	243	2	10	1	851
Twin City & Western Railroad	138	4	10	106	1	0	0	259
Union Pacific Railroad Company	16,292	1,454	902	10,609	175	115	65	29,612
Vermont Railway, Incorporated	95	17	11	148	10	4	0	285
Washington Central Railroad Company	356	17	13	344	2	0	0	732
Wheeling & Lake Erie Railway Company	596	83	161	442	32	9	6	1,329
Wisconsin & Southern Railroad Company	604	28	14	315	15	10	3	989
Wisconsin Central Ltd. (also Railway)	1,985	103	87	1,207	7	34	6	3,429
All Other Railroads	16,923	1,189	1,291	12,294	276	235	68	32,276
FINAL TOTALS	166,035	19,064	16,303	106,715	3,060	2,124	1,254	314,555

TABLE 35. TOTAL OF CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL, 1994

State	Urban	Rural	Total
Alabama.....	1,858	2,150	4,008
Alaska.....	88	139	227
Arizona.....	470	471	941
Arkansas.....	1,289	2,036	3,325
California.....	5,820	2,168	7,988
Colorado.....	721	1,355	2,076
Connecticut.....	239	131	370
Delaware.....	73	196	269
Dist of Columbia.	37	---	37
Florida.....	2,365	1,712	4,077
Georgia.....	2,198	3,999	6,197
Hawaii.....	---	6	6
Idaho.....	259	1,297	1,556
Illinois.....	3,913	6,352	10,265
Indiana.....	2,888	3,790	6,678
Iowa.....	1,636	3,654	5,290
Kansas.....	1,398	6,514	7,912
Kentucky.....	702	1,937	2,639
Louisiana.....	1,657	2,113	3,770
Maine.....	236	646	882
Maryland.....	521	172	693
Massachusetts....	843	349	1,192
Michigan.....	2,362	3,429	5,791
Minnesota.....	1,421	3,797	5,218
Mississippi.....	1,137	1,891	3,028
Missouri.....	1,578	3,294	4,872
Montana.....	281	1,252	1,533
Nebraska.....	516	3,542	4,058
Nevada.....	74	214	288
New Hampshire....	221	282	503
New Jersey.....	1,330	532	1,862
New Mexico.....	239	576	815
New York.....	1,515	1,764	3,279
North Carolina...	2,012	2,863	4,875
North Dakota.....	252	4,379	4,631
Ohio.....	3,168	3,545	6,713
Oklahoma.....	309	4,318	4,627
Oregon.....	1,010	1,333	2,343
Pennsylvania....	2,918	2,681	5,599
Rhode Island.....	123	5	128
South Carolina...	1,071	2,040	3,111
South Dakota.....	261	1,876	2,137
Tennessee.....	1,527	1,844	3,371
Texas.....	6,700	6,006	12,706
Utah.....	544	465	1,009
Vermont.....	165	331	496
Virginia.....	929	1,272	2,201
Washington.....	1,387	1,631	3,018
West Virginia....	431	1,541	1,972
Wisconsin.....	1,989	2,910	4,899
Wyoming.....	80	450	530
Puerto Rico.....	---	24	24
Unknown.....	---	---	---
Total.....	64,761	101,274	166,035

TABLE 36. TOTAL CROSSINGS BY NUMBER OF MAIN AND OTHER TRACKS, 1994

Other Tracks	Number of Main Tracks							Total
	0	1	2	3	4	5	>5	
0	9	98,852	9,960	286	78	5	4	109,194
1	15,909	21,692	2,722	76	18	---	1	40,418
2	3,544	6,591	1,054	51	16	1	1	11,258
3	968	1,923	329	28	14	---	---	3,262
4	269	601	143	13	7	3	1	1,037
5	116	246	69	4	1	1	1	438
>5	107	246	70	2	3	---	---	428
Total	20,922	130,151	14,347	460	137	10	8	166,035

TABLE 37. CROSSINGS BY NUMBER OF TRACKS AND WARNING DEVICE, 1994

Warning device	Number of Tracks						Total
	1	2	3	4	5	>5	
Gates.....	13,382	9,999	3,531	1,262	458	418	29,050
Flashing lights.....	21,038	5,539	1,805	581	185	177	29,325
Hwy. signals, wigwags, bells	1,021	411	148	47	20	14	1,661
Special warning devices.....	3,316	959	310	125	41	47	4,798
Stop signs.....	8,006	2,162	571	179	56	43	11,017
Crossbucks.....	62,561	14,938	3,869	1,110	320	252	83,050
Other signs.....	365	93	30	14	1	3	506
No signs or signals.....	5,072	1,095	303	82	39	37	6,628
Total.....	114,761	35,196	10,567	3,400	1,120	991	166,035

TABLE 38. CROSSINGS BY TRACKS AND TRAFFIC LANES, 1994

Traffic Lanes	Number of Tracks						Total
	1	2	3	4	5	>5	
1	19,933	4,229	726	169	33	42	25,132
2	87,581	28,244	8,941	2,918	980	840	129,504
3	752	330	100	33	9	13	1,237
4	5,621	2,135	732	263	94	88	8,933
5	408	119	35	8	2	4	576
>5	466	139	33	9	2	4	653
Total	114,761	35,196	10,567	3,400	1,120	991	166,035

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE, 1994

State	Number of Tracks						Total
	1	2	3	4	5	>5	
Alabama.....	2,873	719	284	73	27	32	4,008
Alaska.....	186	34	6	1	---	---	227
Arizona.....	696	166	60	15	3	1	941
Arkansas.....	2,270	725	223	63	26	18	3,325
California.....	5,472	1,579	569	191	90	87	7,988
Colorado.....	1,445	424	141	40	13	13	2,076
Connecticut.....	299	59	10	---	2	---	370
Delaware.....	228	30	7	2	2	---	269
Dist of Columbia.	28	7	2	---	---	---	37
Florida.....	2,576	1,051	288	81	40	41	4,077
Georgia.....	4,599	1,128	307	107	21	35	6,197
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,093	298	110	36	10	9	1,556
Illinois.....	6,318	2,759	785	254	90	59	10,265
Indiana.....	4,701	1,509	314	103	31	20	6,678
Iowa.....	3,515	1,146	422	133	36	38	5,290
Kansas.....	5,430	1,638	541	191	60	52	7,912
Kentucky.....	1,771	646	152	48	9	13	2,639
Louisiana.....	2,821	675	186	52	15	21	3,770
Maine.....	724	123	24	9	1	1	882
Maryland.....	522	130	22	12	2	5	693
Massachusetts....	941	187	41	15	4	4	1,192
Michigan.....	4,137	1,194	279	104	38	39	5,791
Minnesota.....	3,699	993	343	117	32	34	5,218
Mississippi.....	2,089	609	204	78	22	26	3,028
Missouri.....	2,879	1,314	469	131	41	38	4,872
Montana.....	1,003	351	127	26	12	14	1,533
Nebraska.....	2,656	900	321	109	40	32	4,058
Nevada.....	198	64	16	4	1	5	288
New Hampshire....	427	66	7	2	1	---	503
New Jersey.....	1,358	386	83	19	8	8	1,862
New Mexico.....	570	173	44	17	4	7	815
New York.....	2,296	748	161	48	13	13	3,279
North Carolina...	3,627	832	267	87	31	31	4,875
North Dakota.....	3,704	679	194	40	13	1	4,631
Ohio.....	3,645	2,094	622	231	73	48	6,713
Oklahoma.....	2,998	1,067	342	136	48	36	4,627
Oregon.....	1,688	447	163	32	12	1	2,343
Pennsylvania.....	3,653	1,368	358	140	43	37	5,599
Rhode Island.....	86	36	6	---	---	---	128
South Carolina...	2,401	561	106	21	13	9	3,111
South Dakota.....	1,685	288	116	35	6	7	2,137
Tennessee.....	2,265	766	220	74	21	25	3,371
Texas.....	9,162	2,413	709	262	83	77	12,706
Utah.....	683	213	71	17	18	7	1,009
Vermont.....	403	71	16	4	---	2	496
Virginia.....	1,456	518	166	44	11	6	2,201
Washington.....	1,989	627	273	86	22	21	3,018
West Virginia....	1,413	410	114	21	5	9	1,972
Wisconsin.....	3,707	856	235	70	23	8	4,899
Wyoming.....	351	114	41	19	4	1	530
Puerto Rico.....	19	5	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	114,761	35,196	10,567	3,400	1,120	991	166,035

TABLE 40. TOTAL CROSSINGS BY TYPE OF HIGHWAY SYSTEM AND STATE, 1994

State	Highway System					Total
	01	02	03	04	08	
Alabama.....	---	184	388	308	3,128	4,008
Alaska.....	7	10	15	21	174	227
Arizona.....	10	30	175	74	652	941
Arkansas.....	2	136	1,008	157	2,022	3,325
California.....	---	933	1,020	598	5,437	7,988
Colorado.....	---	84	361	98	1,533	2,076
Connecticut.....	---	25	102	31	212	370
Delaware.....	---	31	5	113	120	269
Dist of Columbia.	---	4	---	2	31	37
Florida.....	1	278	739	133	2,926	4,077
Georgia.....	---	379	167	776	4,875	6,197
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	47	110	145	1,254	1,556
Illinois.....	1	621	1,386	782	7,475	10,265
Indiana.....	---	240	428	1,140	4,870	6,678
Iowa.....	3	290	710	484	3,803	5,290
Kansas.....	---	306	398	1,069	6,139	7,912
Kentucky.....	2	78	231	243	2,085	2,639
Louisiana.....	5	144	390	286	2,945	3,770
Maine.....	---	72	22	98	690	882
Maryland.....	---	15	21	12	645	693
Massachusetts....	---	116	316	121	639	1,192
Michigan.....	9	234	665	895	3,988	5,791
Minnesota.....	1	184	114	829	4,090	5,218
Mississippi.....	---	137	426	307	2,158	3,028
Missouri.....	3	93	229	584	3,963	4,872
Montana.....	---	59	70	107	1,297	1,533
Nebraska.....	---	200	231	479	3,148	4,058
Nevada.....	---	19	14	22	233	288
New Hampshire....	---	7	148	43	305	503
New Jersey.....	---	77	178	172	1,435	1,862
New Mexico.....	---	20	61	55	679	815
New York.....	---	197	27	562	2,493	3,279
North Carolina...	---	111	207	364	4,193	4,875
North Dakota.....	3	178	88	474	3,888	4,631
Ohio.....	---	272	983	615	4,843	6,713
Oklahoma.....	---	143	299	389	3,796	4,627
Oregon.....	---	133	274	269	1,667	2,343
Pennsylvania.....	129	552	1,029	795	3,094	5,599
Rhode Island.....	---	6	44	14	64	128
South Carolina...	1	188	176	572	2,174	3,111
South Dakota.....	---	98	90	252	1,697	2,137
Tennessee.....	---	104	467	120	2,680	3,371
Texas.....	82	100	153	34	12,337	12,706
Utah.....	1	15	5	134	854	1,009
Vermont.....	---	36	28	63	369	496
Virginia.....	---	93	311	365	1,432	2,201
Washington.....	---	107	172	414	2,325	3,018
West Virginia....	---	122	44	345	1,461	1,972
Wisconsin.....	---	314	767	410	3,408	4,899
Wyoming.....	---	27	32	38	433	530
Puerto Rico.....	---	6	---	2	16	24
Unknown.....	---	---	---	---	---	---
Total.....	260	7,855	15,324	16,415	126,181	166,035

HIGHWAY SYSTEM CODES

CODE SYSTEM

01 Interstate
 03 Federal-aid urban
 08 Non-federal-aid

CODE SYSTEM

02 Federal-aid primary
 04 Federal-aid secondary

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE, 1994

State	On-State	Off-State	Total
Alabama.....	274	3,734	4,008
Alaska.....	81	146	227
Arizona.....	52	889	941
Arkansas.....	551	2,774	3,325
California.....	325	7,663	7,988
Colorado.....	234	1,842	2,076
Connecticut.....	83	287	370
Delaware.....	238	31	269
Dist of Columbia.	36	1	37
Florida.....	458	3,619	4,077
Georgia.....	722	5,475	6,197
Hawaii.....	---	6	6
Idaho.....	119	1,437	1,556
Illinois.....	1,286	8,979	10,265
Indiana.....	606	6,072	6,678
Iowa.....	295	4,995	5,290
Kansas.....	418	7,494	7,912
Kentucky.....	766	1,873	2,639
Louisiana.....	847	2,923	3,770
Maine.....	171	711	882
Maryland.....	114	579	693
Massachusetts....	45	1,147	1,192
Michigan.....	336	5,455	5,791
Minnesota.....	283	4,935	5,218
Mississippi.....	373	2,655	3,028
Missouri.....	705	4,167	4,872
Montana.....	234	1,299	1,533
Nebraska.....	308	3,750	4,058
Nevada.....	63	225	288
New Hampshire....	112	391	503
New Jersey.....	176	1,686	1,862
New Mexico.....	179	636	815
New York.....	344	2,935	3,279
North Carolina...	3,119	1,756	4,875
North Dakota.....	219	4,412	4,631
Ohio.....	903	5,810	6,713
Oklahoma.....	360	4,267	4,627
Oregon.....	142	2,201	2,343
Pennsylvania.....	1,790	3,809	5,599
Rhode Island.....	46	82	128
South Carolina...	2,217	894	3,111
South Dakota.....	146	1,991	2,137
Tennessee.....	298	3,073	3,371
Texas.....	2,071	10,635	12,706
Utah.....	109	900	1,009
Vermont.....	111	385	496
Virginia.....	1,449	752	2,201
Washington.....	167	2,851	3,018
West Virginia....	1,204	768	1,972
Wisconsin.....	383	4,516	4,899
Wyoming.....	73	457	530
Puerto Rico.....	19	5	24
Unknown.....	---	---	---
Total.....	25,660	140,375	166,035

TABLE 42. CROSSINGS BY FUNCTIONAL CLASSIFICATION OF ROAD, 1994

Rural	Crossings	Urban	Crossings
Interstate.....	36	Interstate.....	144
Other principal arterial	1,193	Other freeway/expressway	372
Minor arterial.....	3,801	Other principal arterial	5,846
Major collector.....	11,290	Minor arterial.....	10,476
Minor collector.....	9,491	Collector.....	10,864
Local.....	75,463	Local.....	37,059
Total.....	101,274	Total.....	64,761

TABLE 43. TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND STATE, 1994

State	Number of Lanes						Total
	1	2	3	4	5	>5	
Alabama.....	785	2,991	23	190	8	11	4,008
Alaska.....	12	197	2	14	2	---	227
Arizona.....	12	762	14	107	23	23	941
Arkansas.....	726	2,512	16	66	4	1	3,325
California.....	411	5,503	176	1,551	145	202	7,988
Colorado.....	172	1,718	22	148	10	6	2,076
Connecticut.....	5	330	16	17	2	---	370
Delaware.....	4	247	4	13	---	1	269
Dist of Columbia.	1	30	1	2	1	2	37
Florida.....	161	3,361	82	367	32	74	4,077
Georgia.....	1,190	4,747	29	211	12	8	6,197
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	374	1,121	7	51	1	2	1,556
Illinois.....	2,058	7,471	58	641	15	22	10,265
Indiana.....	892	5,419	53	283	18	13	6,678
Iowa.....	621	4,449	36	178	5	1	5,290
Kansas.....	1,893	5,710	15	290	2	2	7,912
Kentucky.....	829	1,762	6	42	---	---	2,639
Louisiana.....	585	2,952	19	188	13	13	3,770
Maine.....	44	820	2	15	1	---	882
Maryland.....	73	561	8	44	3	4	693
Massachusetts....	43	1,084	8	56	1	---	1,192
Michigan.....	349	4,828	74	456	51	33	5,791
Minnesota.....	869	4,076	17	252	3	1	5,218
Mississippi.....	381	2,535	9	98	2	3	3,028
Missouri.....	1,213	3,521	11	119	5	3	4,872
Montana.....	148	1,357	2	23	2	1	1,533
Nebraska.....	874	3,125	6	52	1	---	4,058
Nevada.....	78	183	1	25	---	1	288
New Hampshire....	32	449	2	17	2	1	503
New Jersey.....	87	1,624	15	129	1	6	1,862
New Mexico.....	265	506	1	36	3	4	815
New York.....	307	2,838	19	110	2	3	3,279
North Carolina...	270	4,362	36	185	12	10	4,875
North Dakota.....	1,041	3,565	1	23	1	---	4,631
Ohio.....	813	5,578	49	262	5	6	6,713
Oklahoma.....	890	3,470	5	255	4	3	4,627
Oregon.....	271	1,918	47	81	24	2	2,343
Pennsylvania.....	859	4,416	119	177	2	26	5,599
Rhode Island.....	2	102	---	24	---	---	128
South Carolina...	366	2,523	23	169	20	10	3,111
South Dakota.....	641	1,450	---	39	4	3	2,137
Tennessee.....	444	2,706	31	152	31	7	3,371
Texas.....	2,222	9,167	67	1,085	58	107	12,706
Utah.....	188	745	1	71	1	3	1,009
Vermont.....	108	376	5	7	---	---	496
Virginia.....	29	2,033	24	94	11	10	2,201
Washington.....	266	2,419	55	239	31	8	3,018
West Virginia....	945	1,009	7	9	1	1	1,972
Wisconsin.....	174	4,455	11	242	1	16	4,899
Wyoming.....	108	392	2	28	---	---	530
Puerto Rico.....	1	23	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	25,132	129,504	1,237	8,933	576	653	166,035

TABLE 44. CROSSINGS BY NUMBER OF TRAFFIC LANES AND WARNING DEVICE, 1994

Warning device	Number of Traffic Lanes						Total
	1	2	3	4	5	>5	
Gates.....	764	23,725	470	3,491	289	311	29,050
Flashing lights.....	758	24,743	352	3,061	202	209	29,325
Hwy. signals, wigwags, bells	132	1,248	45	193	15	28	1,661
Special warning devices.....	319	3,944	107	375	27	26	4,798
Stop signs.....	1,819	9,034	29	127	2	6	11,017
Crossbucks.....	19,604	61,787	183	1,385	32	59	83,050
Other signs.....	125	362	2	15	---	2	506
No signs or signals.....	1,611	4,661	49	286	9	12	6,628
Total.....	25,132	129,504	1,237	8,933	576	653	166,035

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE, 1994

State	Warning Device Category							Total	
	Gates	Flashing Lights	Hwy.Sig. Wigwags Bells	Special	Stop Signs	Cross-Bucks	Other Signs		No Signs or Signals
Alabama.....	292	640	20	47	1,007	1,696	7	299	4,008
Alaska.....	16	61	---	7	29	105	---	9	227
Arizona.....	349	71	4	57	98	336	---	26	941
Arkansas.....	305	460	25	78	168	2,153	---	136	3,325
California.....	3,116	1,038	307	114	341	2,882	15	175	7,988
Colorado.....	333	276	42	27	233	1,080	3	82	2,076
Connecticut.....	98	141	5	24	50	33	---	19	370
Delaware.....	44	148	---	28	3	33	---	13	269
Dist of Columbia	---	4	---	4	10	15	1	3	37
Florida.....	2,065	682	14	97	162	983	7	67	4,077
Georgia.....	1,561	348	19	163	1,089	2,762	6	249	6,197
Hawaii.....	---	---	---	---	1	5	---	---	6
Idaho.....	99	200	9	8	519	676	1	44	1,556
Illinois.....	2,104	2,630	126	228	81	4,710	3	383	10,265
Indiana.....	1,152	1,674	101	176	732	2,707	8	128	6,678
Iowa.....	599	998	31	46	431	3,108	1	76	5,290
Kansas.....	857	696	60	199	238	5,715	2	145	7,912
Kentucky.....	365	814	14	57	50	1,177	---	162	2,639
Louisiana.....	432	707	27	44	271	1,995	14	280	3,770
Maine.....	71	388	---	80	18	325	---	---	882
Maryland.....	98	204	21	30	34	264	6	36	693
Massachusetts....	197	462	30	212	5	232	3	51	1,192
Michigan.....	809	1,464	39	140	866	2,390	4	79	5,791
Minnesota.....	581	619	9	25	678	3,196	2	108	5,218
Mississippi.....	134	461	13	53	847	1,245	11	264	3,028
Missouri.....	477	1,003	69	94	137	2,855	1	236	4,872
Montana.....	160	188	1	13	83	1,058	1	29	1,533
Nebraska.....	568	305	12	15	281	2,759	---	118	4,058
Nevada.....	108	25	1	4	6	139	---	5	288
New Hampshire....	31	146	11	108	50	133	7	17	503
New Jersey.....	402	659	17	236	18	407	2	121	1,862
New Mexico.....	193	95	5	9	13	474	5	21	815
New York.....	1,375	646	74	249	17	822	21	75	3,279
North Carolina...	1,133	728	18	211	56	2,384	9	336	4,875
North Dakota....	337	123	1	1	78	3,921	---	170	4,631
Ohio.....	1,498	1,452	44	78	183	3,354	5	99	6,713
Oklahoma.....	395	734	24	114	114	3,137	8	101	4,627
Oregon.....	548	141	46	91	453	894	44	126	2,343
Pennsylvania....	744	1,265	109	653	141	1,946	279	462	5,599
Rhode Island....	15	33	19	23	7	9	---	22	128
South Carolina...	579	528	---	166	399	1,413	1	25	3,111
South Dakota....	18	173	2	---	28	1,840	---	76	2,137
Tennessee.....	307	639	19	198	178	1,634	2	394	3,371
Texas.....	2,393	1,982	76	107	226	7,309	14	599	12,706
Utah.....	166	168	5	86	61	442	5	76	1,009
Vermont.....	27	196	3	44	25	199	---	2	496
Virginia.....	660	520	16	116	9	786	4	90	2,201
Washington.....	458	430	28	52	117	1,652	2	279	3,018
West Virginia....	211	449	5	31	36	1,025	2	213	1,972
Wisconsin.....	464	1,384	135	136	308	2,391	---	81	4,899
Wyoming.....	102	126	4	1	32	244	---	21	530
Puerto Rico.....	4	1	1	18	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	29,050	29,325	1,661	4,798	11,017	83,050	506	6,628	166,035

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD, 1994

Railroad	Gates	Flashing Lights	Hwy. Sig. Wignags		Stop Signs	Cross-Bucks	Other Signs	No Signs Or		Total
			Bells	Special				Signals		
ARR	Alaska Railroad Corporation	16	61	0	7	29	102	0	8	223
ALY	Allegheny and Eastern Railroad	7	32	1	0	9	51	4	2	106
ATK	Amtrak (National Railroad Passenger Corpora	144	10	0	5	6	11	4	5	185
AM	Arkansas & Missouri Railroad Company	5	33	4	3	42	154	0	10	251
AKMD	Arkansas Midland Railroad Company, Incorpor	2	29	5	3	2	125	0	13	179
ATSF	Atchison, Topeka & Santa Fe Railway Company	2,053	827	73	281	82	3,303	5	24	6,648
ASAB	Atlanta & Saint Andrews Bay Railway Company	21	34	0	0	24	54	3	1	137
AUNW	Austin & Northwestern Railroad	29	26	1	0	2	98	0	13	169
BAR	Bangor & Aroostook Railroad	4	89	0	8	11	53	0	0	165
BLE	Bessemer & Lake Erie Railroad Company	36	29	0	2	0	71	0	2	140
BM	Boston & Maine Corporation	173	198	17	174	27	225	4	48	866
BPRR	Buffalo & Pittsburgh Railroad, Incorporated	37	78	4	11	4	181	1	6	322
BN	Burlington Northern Railroad Company	2,667	2,482	83	216	1,107	12,127	14	453	19,149
CSP	Camas Prairie Railroad Company	5	7	0	0	11	77	0	6	106
CP	Canadian Pacific Railway Company	1	31	0	1	1	17	0	0	51
CIC	Cedar Rapids & Iowa City Railway Company	1	35	0	7	1	46	0	6	96
CEDR	Cedar River Railroad Company	1	23	1	0	7	128	0	0	160
CKRY	Central Kansas Railway, Incorporated	26	73	4	67	14	944	0	1	1,129
CMGN	Central Michigan Railway Company	13	120	5	4	53	133	0	4	332
CEERA	Central Railroad Company Of Indianapolis	18	82	6	0	9	126	1	28	270
CV	Central Vermont Railway, Incorporated	25	108	1	1	15	40	1	2	193
CHWE	Chehalis Western	1	33	1	0	2	49	0	0	86
CNW	Chicago & North Western Transportation Comp	713	1,148	119	62	249	3,216	1	164	5,672
CMNW	Chicago Missouri & Western Railway	2	32	12	0	1	88	0	6	141
CC	Chicago, Central & Pacific Railroad Company	69	259	11	31	41	453	0	24	888
CAGY	Columbus & Greenville Railway Company	3	51	0	5	130	141	0	7	337
CR	Consolidated Rail Corporation	2,907	3,481	174	1,025	494	3,995	262	730	13,068
CSX	CSX Transportation	4,559	3,955	82	539	1,487	6,995	20	828	18,465
DME	Dakota, Minnesota & Eastern Railroad	14	107	3	0	48	603	0	30	805
DMVW	Dakota, Missouri Valley & Western Railroad,	1	6	1	1	5	266	0	7	287
DH	Delaware & Hudson Railway Company	143	83	3	1	3	71	5	2	311
DSRR	Delta Southern Railroad Company	0	9	0	0	0	81	0	2	92
DRGW	Denver & Rio Grande Western Railroad Compan	133	160	5	8	71	418	3	38	836
DOD	Department of Defense - Other	25	54	1	50	5	111	15	9	270
DM	Detroit & Mackinac Railway Company	0	57	3	0	91	208	0	0	359
DMIR	Duluth, Missabe & Iron Range Railway Compan	9	19	0	2	31	87	2	0	150
EIRR	Eastern Idaho Railroad	22	46	1	0	131	147	0	6	353
EJE	Elgin, Joliet & Eastern Railway Company	79	63	2	10	4	34	0	0	192
ELS	Escanaba & Lake Superior Railroad Company	4	64	1	45	4	146	1	2	267
FCEN	Florida Central Railroad Company	44	17	0	1	6	85	0	1	154
FEC	Florida East Coast Railway Company	599	30	0	27	3	46	0	9	714
FWV	Fox Valley & Western Ltd.	36	255	23	14	60	333	0	6	727
GWWR	Gateway Western Railway	7	44	20	0	7	142	0	4	224
GC	Georgia Central Railroad	36	11	3	0	37	133	0	0	220
GSWR	Georgia Southwestern Railroad Division	30	16	4	0	35	186	0	11	282
GNBC	Grainbelt Corporation	0	21	0	0	0	233	0	1	255
GTW	Grand Trunk Western Railroad Incorporated	386	263	4	46	219	243	0	3	1,164
GWR	Great Western Railway Company	2	5	4	0	6	67	0	1	85
GSMR	Gulf And Mississippi Railroad Corporation	1	37	0	1	90	465	2	49	645
HCRC	Hillsdale County Railway Company, Incorpora	0	25	1	0	6	95	0	0	127
HBT	Houston Belt & Terminal Railway Company	61	28	1	0	2	57	0	15	164
HESR	Huron & Eastern Railway	2	18	0	0	14	170	0	3	207
INPR	Idaho Northern & Pacific Railroad Company	0	7	1	0	50	52	0	2	112
IC	Illinois Central Railroad Company	361	613	16	66	433	1,144	3	188	2,824
IOCR	Indiana & Ohio Central Railroad, Incorporat	11	21	0	0	0	84	0	0	116
IHRC	Indiana Hi-Rail Corporation	11	47	9	1	10	153	1	4	236
INRD	Indiana Rail Road Company	11	111	28	0	75	223	0	11	459
IAIS	Iowa Interstate Railroad	97	103	8	0	75	196	0	0	479
IANR	Iowa Northern Railway Company	6	45	1	0	32	98	0	5	187
KBSR	Kankakee, Beaverville & Southern Railroad C	5	37	5	0	5	112	0	0	164
KCS	Kansas City Southern Railway Company	130	176	2	1	12	639	4	64	1,028
KCT	Kansas City Terminal Railway Company	2	17	2	0	0	50	1	7	79
KSW	Kansas Southwestern Railway	15	36	0	0	0	353	0	4	408
KRR	Kiamichi Railroad Company, Incorporated	1	22	0	3	16	190	0	2	234
KYLE	Kyle Railroad Company	2	25	0	2	28	429	0	10	496
LVRC	Lamoille Valley Railroad Company	1	22	0	0	0	61	0	0	84
LI	Long Island Rail Road	298	0	0	0	0	6	0	0	304
LA	Louisiana & Arkansas Railway Company	59	136	0	0	36	412	0	23	666
LDRR	Louisiana & Delta Railroad	22	9	1	0	26	123	0	27	208
MDTT	Maine Department Of Transportation	6	72	0	18	2	63	0	0	161
MDDE	Maryland & Delaware Railroad Company	0	17	0	0	1	66	1	7	92
MDT	Maryland Dept. Of Transportation	3	19	7	7	11	30	0	7	84

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY
AND RAILROAD, CONT., 1994

Railroad	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Stop Signs	Cross- Bucks	Other Signs	No Signs Or Signals	Total
XMBT	Mass. Bay Transportation Authority	7	51	1	14	0	2	0	75
MRR	Mid-Atlantic Railroad Company, Incorporated	6	9	0	3	13	104	0	135
MMRR	Mid-Michigan Railroad Company	4	24	4	0	17	65	0	115
MSPA	Midd States Port Authority	14	31	1	0	12	340	0	404
MSRC	Midsouth Railroad Corporation (USE CODE KC	8	90	2	1	128	222	0	513
MNA	Missouri & Northern Arkansas Railroad Compa	26	87	5	13	12	256	0	410
MGA	Monongahela Railway Company	0	13	0	0	0	50	0	64
MRL	Montana Rail Link	52	68	1	0	41	280	0	449
MNVA	MNVA Railroad, Incorporated	0	2	0	0	22	76	0	103
NERR	Nashville & Eastern Railroad	0	31	0	3	5	133	0	199
NCRC	Nebraska Central Railroad	6	23	0	0	37	265	0	342
NJTR	New Jersey Transit Rail Operations	211	88	1	10	1	29	0	347
NOLR	New Orleans Lower Coast Railroad, Incorpora	0	6	0	1	15	16	0	45
NOPB	New Orleans Public Belt Railroad	5	19	0	1	4	27	8	100
XMTA	New York City Trans. Authority (MTA)	22	7	0	1	0	0	0	30
NYSW	New York, Susquehanna & Western Railroad Co	93	85	14	13	10	42	0	271
NS	Norfolk Southern Corporation	3,455	2,974	79	511	1,515	7,672	14	17,117
DTNC	North Carolina Department Of Transportation	4	12	0	8	5	55	0	92
NEKM	Northeast Kansas & Missouri	12	13	0	0	6	93	0	124
OHCR	Ohio Central Railroad Company	21	21	1	0	2	85	0	130
ODOT	Oklahoma Department Of Transportation	8	50	0	0	6	280	0	383
OKKT	Oklahoma Kansas & Texas Railroad Company	9	22	0	0	2	87	0	122
PAL	Paducah & Louisville Railway Company	19	103	4	0	10	120	0	259
PLE	Pittsburgh & Lake Erie Railroad Company	14	8	1	3	4	53	0	97
PARY	Prairie Trunk Railway	1	19	0	0	0	143	0	169
PW	Providence & Worcester Railroad Company	31	90	7	20	9	21	0	196
RRVW	Red River Valley & Western Railroad	24	21	0	0	5	662	0	761
SGLR	Seminole Gulf Railroad	58	34	0	1	19	51	0	166
SOD	Soo Line Railroad Company	496	592	36	58	354	2,548	0	4,271
SCRF	South Carolina Central Railroad Company, In	4	23	0	17	29	55	0	132
SDRR	South Dakota Railroad Authority	2	10	0	0	3	271	0	321
SKOL	South Kansas & Oklahoma Railroad Company	20	61	13	0	8	257	0	359
SO	South Orient Railroad Company, Ltd.	5	34	1	0	1	137	0	178
SEPA	Southeastern Pennsylvania Transportation Au	50	77	21	18	17	32	2	262
SP	Southern Pacific Transportation Company	2,764	960	250	34	403	3,287	13	8,090
SSWN	Southern Pacific, Chicago-St. Louis Corpora	108	84	2	11	0	61	0	269
ST	Springfield Terminal Railway Company (Vermo	65	188	1	41	18	116	0	429
SSW	St. Louis Southwestern Railway Company	269	264	8	10	126	1,237	0	2,025
SUB	State Subsidy	5	88	22	16	11	88	10	247
TSRR	Tennessee Southern Railroad Company, Incorp	2	20	1	0	25	66	0	134
TRRA	Terminal Railroad Association Of St. Louis	45	14	0	56	3	20	0	141
TXOR	Texas & Oklahoma Railroad Company	3	27	0	0	0	310	0	340
TM	Texas Mexican Railway Company	1	62	0	11	6	151	0	239
TNER	Texas Northeastern Division--Mid-Michigan R	5	37	1	0	0	173	0	216
TPW	Toledo, Peoria & Western Railway Corporatio	7	125	4	0	2	295	0	438
TVRR	Tulare Valley Railroad Company	70	39	19	0	5	188	1	324
TSBY	Tuscola & Saginaw Bay Railroad Company, Inc	3	80	3	1	52	419	2	568
TCWR	Twin City & Western Railroad	17	20	0	0	21	78	0	138
UP	Union Pacific Railroad Company	2,865	2,419	108	200	867	8,972	25	16,292
VTR	Vermont Railway, Incorporated	2	40	0	6	10	37	0	95
WCRC	Washington Central Railroad Company	26	43	4	0	9	252	0	356
WE	Wheeling & Lake Erie Railway Company	48	167	3	2	25	345	0	596
WSOR	Wisconsin & Southern Railroad Company	5	167	21	8	20	376	0	604
WC	Wisconsin Central Ltd. (also Railway)	153	537	16	24	140	1,098	0	1,985
	All Other Railroads	1,687	2,807	242	926	1,412	9,038	73	16,923
FINAL TOTALS		29,050	29,325	1,661	4,798	11,017	83,050	506	166,035

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE, 1994

State	Stop Lines	RR X-ing Symbol	Both	None		Total
				Paved	Unpaved	
Alabama.....	36	132	201	2,713	926	4,008
Alaska.....	9	11	55	65	87	227
Arizona.....	23	24	410	249	235	941
Arkansas.....	56	114	322	1,667	1,166	3,325
California.....	999	201	4,718	1,770	300	7,988
Colorado.....	21	38	261	999	757	2,076
Connecticut.....	12	13	254	90	1	370
Delaware.....	6	36	120	100	7	269
Dist of Columbia.	---	---	23	14	---	37
Florida.....	274	370	1,849	1,147	437	4,077
Georgia.....	64	102	2,807	1,655	1,569	6,197
Hawaii.....	2	---	---	4	---	6
Idaho.....	15	5	262	694	580	1,556
Illinois.....	80	164	1,267	4,322	4,432	10,265
Indiana.....	69	271	1,236	4,218	884	6,678
Iowa.....	53	150	530	2,034	2,523	5,290
Kansas.....	7	21	888	2,072	4,924	7,912
Kentucky.....	44	328	734	903	630	2,639
Louisiana.....	44	209	560	2,027	930	3,770
Maine.....	3	3	569	228	79	882
Maryland.....	10	25	254	360	44	693
Massachusetts....	55	45	125	933	34	1,192
Michigan.....	70	277	1,363	2,652	1,429	5,791
Minnesota.....	126	180	463	1,853	2,596	5,218
Mississippi.....	27	45	483	1,616	857	3,028
Missouri.....	65	110	558	2,070	2,069	4,872
Montana.....	5	17	158	396	957	1,533
Nebraska.....	35	274	189	974	2,586	4,058
Nevada.....	6	4	115	64	99	288
New Hampshire....	10	28	59	354	52	503
New Jersey.....	39	232	250	1,252	89	1,862
New Mexico.....	5	29	44	339	398	815
New York.....	125	216	435	2,225	278	3,279
North Carolina...	46	33	3,615	570	611	4,875
North Dakota.....	17	29	137	595	3,853	4,631
Ohio.....	442	600	3,292	1,923	456	6,713
Oklahoma.....	31	96	194	2,222	2,084	4,627
Oregon.....	353	905	142	503	440	2,343
Pennsylvania.....	66	351	156	4,416	610	5,599
Rhode Island.....	---	---	80	48	---	128
South Carolina...	91	112	1,110	1,353	445	3,111
South Dakota.....	30	12	132	540	1,423	2,137
Tennessee.....	20	115	919	1,787	530	3,371
Texas.....	5	10	6,346	3,107	3,238	12,706
Utah.....	21	31	182	546	229	1,009
Vermont.....	36	10	88	214	148	496
Virginia.....	91	128	982	764	236	2,201
Washington.....	127	72	567	1,646	606	3,018
West Virginia....	18	12	87	1,212	643	1,972
Wisconsin.....	77	34	714	3,551	523	4,899
Wyoming.....	7	21	53	156	293	530
Puerto Rico.....	3	7	---	12	2	24
Unknown.....	---	---	---	---	---	---
Total.....	3,876	6,252	40,358	67,224	48,325	166,035

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

TABLE 48. CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE, 1994

State	Yes	No	Total
Alabama.....	853	3,155	4,008
Alaska.....	164	63	227
Arizona.....	573	368	941
Arkansas.....	913	2,412	3,325
California.....	6,425	1,563	7,988
Colorado.....	1,108	968	2,076
Connecticut.....	326	44	370
Delaware.....	229	40	269
Dist of Columbia.	22	15	37
Florida.....	2,553	1,524	4,077
Georgia.....	3,190	3,007	6,197
Hawaii.....	1	5	6
Idaho.....	1,021	535	1,556
Illinois.....	5,317	4,948	10,265
Indiana.....	5,653	1,025	6,678
Iowa.....	3,614	1,676	5,290
Kansas.....	4,265	3,647	7,912
Kentucky.....	1,527	1,112	2,639
Louisiana.....	2,444	1,326	3,770
Maine.....	870	12	882
Maryland.....	447	246	693
Massachusetts....	882	310	1,192
Michigan.....	4,727	1,064	5,791
Minnesota.....	3,396	1,822	5,218
Mississippi.....	747	2,281	3,028
Missouri.....	1,444	3,428	4,872
Montana.....	971	562	1,533
Nebraska.....	2,893	1,165	4,058
Nevada.....	224	64	288
New Hampshire....	297	206	503
New Jersey.....	963	899	1,862
New Mexico.....	177	638	815
New York.....	2,593	686	3,279
North Carolina...	3,775	1,100	4,875
North Dakota.....	1,703	2,928	4,631
Ohio.....	4,525	2,188	6,713
Oklahoma.....	1,518	3,109	4,627
Oregon.....	1,016	1,327	2,343
Pennsylvania.....	2,069	3,530	5,599
Rhode Island.....	81	47	128
South Carolina...	2,177	934	3,111
South Dakota.....	1,407	730	2,137
Tennessee.....	2,088	1,283	3,371
Texas.....	10,011	2,695	12,706
Utah.....	590	419	1,009
Vermont.....	409	87	496
Virginia.....	1,673	528	2,201
Washington.....	2,188	830	3,018
West Virginia....	463	1,509	1,972
Wisconsin.....	3,244	1,655	4,899
Wyoming.....	290	240	530
Puerto Rico.....	17	7	24
Unknown.....	---	---	---
Total.....	100,073	65,962	166,035

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

TABLE 49. CROSSINGS MEETING THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' STANDARD FOR CROSSBUCKS BY STATE, 1994

State	Active Warning	X-buck meet standards		Total
		Yes	No	
Alabama.....	952	1,866	1,190	4,008
Alaska.....	77	113	37	227
Arizona.....	424	405	112	941
Arkansas.....	790	1,796	739	3,325
California.....	4,461	1,614	1,913	7,988
Colorado.....	651	1,057	368	2,076
Connecticut.....	244	88	38	370
Delaware.....	192	53	24	269
Dist of Columbia.....	4	20	13	37
Florida.....	2,761	950	366	4,077
Georgia.....	1,928	3,590	679	6,197
Hawaii.....	---	4	2	6
Idaho.....	308	908	340	1,556
Illinois.....	4,860	4,214	1,191	10,265
Indiana.....	2,927	3,160	591	6,678
Iowa.....	1,628	2,810	852	5,290
Kansas.....	1,613	2,854	3,445	7,912
Kentucky.....	1,193	1,125	321	2,639
Louisiana.....	1,166	2,043	561	3,770
Maine.....	459	410	13	882
Maryland.....	323	195	175	693
Massachusetts....	689	296	207	1,192
Michigan.....	2,312	3,130	349	5,791
Minnesota.....	1,209	3,690	319	5,218
Mississippi.....	608	1,524	896	3,028
Missouri.....	1,549	1,779	1,544	4,872
Montana.....	349	951	233	1,533
Nebraska.....	885	2,783	390	4,058
Nevada.....	134	91	63	288
New Hampshire....	188	210	105	503
New Jersey.....	1,078	324	460	1,862
New Mexico.....	293	295	227	815
New York.....	2,095	838	346	3,279
North Carolina...	1,879	1,700	1,296	4,875
North Dakota.....	461	2,854	1,316	4,631
Ohio.....	2,994	2,569	1,150	6,713
Oklahoma.....	1,153	1,968	1,506	4,627
Oregon.....	735	1,101	507	2,343
Pennsylvania.....	2,118	1,259	2,222	5,599
Rhode Island.....	67	2	59	128
South Carolina...	1,107	1,858	146	3,111
South Dakota.....	193	1,762	182	2,137
Tennessee.....	965	1,149	1,257	3,371
Texas.....	4,451	3,797	4,458	12,706
Utah.....	339	471	199	1,009
Vermont.....	226	254	16	496
Virginia.....	1,196	687	318	2,201
Washington.....	916	1,210	892	3,018
West Virginia....	665	706	601	1,972
Wisconsin.....	1,983	2,471	445	4,899
Wyoming.....	232	186	112	530
Puerto Rico.....	6	6	12	24
Unknown.....	---	---	---	---
Total.....	60,036	71,196	34,803	166,035

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.

TABLE 50. TOTAL CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY, 1994

Trains	Crossings
<1	25,356
1-5	71,273
6-10	28,329
11-15	12,173
16-20	10,568
21-25	6,041
26-30	3,984
31-35	2,079
36-40	1,378
41-45	959
46-50	937
51-55	927
56-60	708
61-65	294
66-70	146
71-75	219
76-80	177
81-85	51
86-90	23
91-95	121
96-100	56
>100	236
Total	166,035

TABLE 51. TOTAL CROSSINGS BY NUMBER OF THRU TRAINS AND SWITCHING TRAINS PER DAY, 1994

Switching Trains	Through Trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	25,356	25,496	11,039	11,415	4,974	4,691	2,609	4,078	89,658
1-2	17,416	9,222	5,881	6,695	2,796	2,488	695	2,276	47,469
2-3	5,405	1,723	2,152	2,990	1,446	923	376	1,320	16,335
6-10	2,439	723	761	1,386	937	936	380	816	8,378
11-15	426	109	118	249	121	58	81	849	2,011
16-20	432	95	93	134	178	79	94	141	1,246
21-25	105	37	24	36	37	16	24	57	336
>25	187	62	42	79	70	42	34	86	602
Total	51,766	37,467	20,110	22,984	10,559	9,233	4,293	9,623	166,035

TABLE 52. TOTAL CROSSINGS BY NUMBER OF DAY AND NIGHT TRAINS PER DAY, 1994

Day Trains	Night Trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	25,356	6,811	933	159	7	7	4	7	33,284
1-2	26,423	25,884	2,967	399	20	10	2	3	55,708
2-3	4,445	9,293	15,646	1,824	155	33	37	2	31,435
6-10	1,378	2,167	6,152	13,875	1,705	94	42	14	25,427
11-15	184	238	743	3,720	4,909	581	22	19	10,416
16-20	80	39	294	607	1,237	1,776	289	45	4,367
21-25	40	26	28	94	358	218	982	172	1,918
>25	73	11	54	148	267	286	768	1,873	3,480
Total	57,979	44,469	26,817	20,826	8,658	3,005	2,146	2,135	166,035

TABLE 53. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE, 1994

Warning device	Number of Trains Per Day								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
Gates.....	1,043	2,662	3,080	5,407	3,518	4,132	2,841	6,367	29,050
Flashing lights.....	3,321	7,110	5,267	6,552	2,653	2,018	925	1,479	29,325
Hwy. signals, wigwags, bells	217	414	304	295	143	102	38	148	1,661
Special warning devices.....	1,881	1,566	561	405	134	106	35	110	4,798
Stop signs.....	939	2,911	2,130	2,246	760	818	377	836	11,017
Crossbucks.....	15,471	27,591	14,394	12,708	4,738	3,229	1,766	3,153	83,050
Other signs.....	153	167	80	58	12	16	3	17	506
No signs or signals.....	2,331	2,179	857	658	215	147	56	185	6,628
Total.....	25,356	44,600	26,673	28,329	12,173	10,568	6,041	12,295	166,035

TABLE 54. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC, 1994

Trains	Average Annual Daily Traffic						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	>10,000	
<1	10,823	3,013	2,872	5,569	1,831	1,248	25,356
1-2	21,774	5,238	4,805	8,555	2,484	1,744	44,600
2-3	12,049	3,230	2,937	5,455	1,674	1,328	26,673
6-10	12,621	3,419	3,227	5,957	1,747	1,358	28,329
11-15	5,319	1,314	1,369	2,731	819	621	12,173
16-20	4,244	1,259	1,233	2,459	804	569	10,568
21-25	2,378	662	696	1,442	471	392	6,041
>25	5,047	1,332	1,310	2,755	1,029	822	12,295
Total	74,255	19,467	18,449	34,923	10,859	8,082	166,035

TABLE 55. CROSSINGS BY MAXIMUM TIMETABLE SPEED, 1994

Timetable Speed	Crossings
1-5	5,507
6-10	30,282
11-15	8,534
16-20	13,050
21-25	21,807
26-30	16,524
31-35	10,197
36-40	17,080
41-45	3,806
46-50	13,844
51-55	2,908
56-60	10,191
61-65	1,271
66-70	4,699
71-75	515
76-80	5,253
81-85	1
86-90	464
91-95	1
96-100	8
>100	93
Total	166,035

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION, 1994

Variation	Speed Crossings
<1	13,882
1-5	43,065
6-10	37,082
11-15	17,116
16-20	16,651
21-25	10,197
26-30	8,554
31-35	4,457
36-40	4,625
41-45	2,339
46-50	3,249
51-55	786
56-60	1,895
61-65	643
66-70	342
71-75	374
76-80	648
81-85	13
86-90	2
91-95	---
96-100	---
>100	115
Total	166,035

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC, 1994

AADT	Crossings
1-100	52,014
101-200	15,340
201-300	11,854
301-400	7,388
401-500	7,126
501-600	4,652
601-700	3,549
701-800	4,027
801-900	2,625
901-1,000	3,596
1,001-2,000	15,992
2,001-3,000	8,724
3,001-4,000	5,489
4,001-5,000	4,718
5,001-6,000	3,029
6,001-7,000	2,307
7,001-8,000	2,232
8,001-9,000	1,602
9,001-10,000	1,689
10,001-20,000	6,142
>20,000	1,940
Total	166,035

TABLE 58. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY, 1994

Warning device	Annual Average Daily Traffic						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	>10,000	
Gates.....	4,039	3,048	3,771	10,404	4,161	3,627	29,050
Flashing lights.....	3,969	3,396	4,454	10,930	3,735	2,841	29,325
Hwy. signals, wigwags, bells	433	191	202	450	207	178	1,661
Special warning devices.....	992	591	649	1,568	562	436	4,798
Stop signs.....	6,434	1,761	1,264	1,343	161	54	11,017
Crossbucks.....	54,737	9,579	7,307	8,947	1,688	792	83,050
Other signs.....	209	84	82	95	24	12	506
No signs or signals.....	3,442	817	720	1,186	321	142	6,628
Total.....	74,255	19,467	18,449	34,923	10,859	8,082	166,035

TABLE 59. TOTAL CROSSINGS BY TRUCK TRAFFIC AS A PERCENTAGE OF ANNUAL AVERAGE DAILY TRAFFIC, 1994

%	Crossings

<1	6,087
1-5	76,171
6-10	50,153
11-15	15,592
16-20	8,300
21-25	2,135
26-30	4,646
31-35	497
36-40	962
41-45	101
46-50	900
51-55	19
56-60	157
61-65	9
66-70	47
71-75	108
76-80	70
81-85	10
86-90	52
91-95	2
96-99	17
Total	166,035

TABLE 60: TOTAL CROSSINGS BY CROSSING SURFACE, 1994

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	193	384	2,974	5	1	20	2	1	424	4
Alaska	11	97	57	10	0	40	0	0	1	11
Arizona	180	176	394	2	1	124	0	0	62	2
Arkansas	793	250	1,618	24	8	12	2	2	612	4
California	822	1,284	5,519	80	30	96	0	0	129	28
Colorado	703	415	608	30	4	131	7	23	144	11
Connecticut	109	0	115	2	0	142	2	0	0	0
Delaware	7	5	195	14	2	44	0	0	1	1
Dist Of Columbia	6	1	25	0	5	0	0	0	0	0
Florida	1,216	50	2,088	300	33	235	7	1	108	39
Georgia	120	125	5,409	15	16	16	1	1	492	2
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	232	742	439	19	1	30	0	0	82	11
Illinois	1,890	1,473	4,831	39	38	864	7	7	1,094	22
Indiana	823	98	5,117	22	14	383	9	0	209	3
Iowa	125	1,198	2,201	10	10	312	1	2	1,328	103
Kansas	2,253	2,369	1,137	57	34	123	7	1	1,921	10
Kentucky	306	313	1,458	1	4	74	1	3	479	0
Louisiana	690	586	1,492	105	7	471	1	4	413	1
Maine	53	215	598	0	0	9	0	0	7	0
Maryland	207	73	325	0	6	62	0	0	17	3
Massachusetts	64	29	992	8	0	84	0	0	15	0
Michigan	1,390	424	3,044	11	10	434	90	1	369	18
Minnesota	267	2,577	1,785	17	10	258	0	1	289	14
Mississippi	160	369	1,577	10	4	138	1	1	766	2
Missouri	1,511	751	1,604	18	3	80	2	1	884	18
Montana	25	1,149	285	17	2	10	0	8	20	17
Nebraska	861	733	642	119	40	56	2	2	1,588	15
Nevada	46	55	90	24	1	21	1	2	40	8
New Hampshire	12	57	419	1	0	7	0	0	6	1
New Jersey	154	8	1,428	12	16	83	0	58	68	35
New Mexico	449	186	49	1	2	31	0	0	97	0
New York	417	157	2,287	8	15	283	0	2	94	16
North Carolina	22	47	4,448	6	12	32	1	1	300	6
North Dakota	126	3,551	476	19	2	39	0	2	412	4
Ohio	1,910	174	4,272	11	14	133	0	2	179	18
Oklahoma	1,663	546	1,113	57	15	45	1	6	1,171	10
Oregon	487	119	1,336	14	21	60	0	0	44	262
Pennsylvania	967	77	3,781	59	244	95	1	16	355	4
Rhode Island	1	1	79	0	10	36	0	1	0	0
South Carolina	37	10	2,906	34	3	6	0	1	106	8
South Dakota	13	1,424	444	1	1	118	0	0	86	50
Tennessee	105	239	2,690	5	5	106	3	0	212	6
Texas	4,631	1,208	4,377	239	103	293	5	18	1,830	2
Utah	221	237	383	45	5	25	3	2	84	4
Vermont	34	43	331	0	1	11	0	0	75	1
Virginia	230	54	1,739	6	2	14	4	10	125	17
Washington	127	1,245	1,358	76	8	170	0	0	30	4
West Virginia	838	11	759	2	3	10	0	1	346	2
Wisconsin	71	368	3,922	7	25	263	1	1	240	1
Wyoming	44	199	138	2	1	22	0	0	118	6
Puerto Rico	0	0	22	0	0	0	0	0	2	0
FINAL TOTALS	27,622	25,902	85,382	1,564	792	6,151	162	182	17,474	804

TABLE 61. TOTAL CROSSINGS BY MAXIMUM TIME TABLE SPEED, WARNING DEVICE CATEGORY AND NUMBER OF TRACKS, 1994

SINGLE TRACK WARNING DEVICES	MAXIMUM TIME TABLE SPEED												
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES.....	1263	1695	2441	2266	1975	1586	1145	966	40	4	1	0	13382
FLASHING LIGHTS.....	4495	3083	5367	3578	2480	1417	326	284	12	0	0	0	21042
HWY. SIGNALS, WIGWAGS, BELLS	376	171	214	128	52	59	11	8	1	0	1	0	1021
SPECIAL WARNING DEVICES.....	2297	541	274	83	54	19	13	21	12	2	0	0	3316
STOP SIGNS.....	1149	841	1987	1673	1068	711	267	308	2	0	0	0	8006
CROSSBUCKS.....	12878	7325	17309	11875	6389	4621	956	1088	122	0	1	0	62564
OTHER SIGNS.....	177	94	62	15	12	0	2	3	0	0	0	0	365
NO SIGNS OR SIGNALS.....	2669	987	792	314	141	110	37	20	4	0	0	0	5074
TOTAL.....	25304	14737	28446	19932	12171	8523	2757	2698	193	6	3	0	114770

MULTIPLE TRACKS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES.....	970	1521	2470	2437	2319	2083	1892	1829	143	2	2	0	15668
FLASHING LIGHTS.....	1793	1244	1905	1405	886	649	206	187	8	0	0	0	8283
HWY. SIGNALS, WIGWAGS, BELLS	177	97	150	79	39	42	37	15	4	0	0	0	640
SPECIAL WARNING DEVICES.....	974	235	150	46	27	27	7	12	3	1	0	0	1482
STOP SIGNS.....	520	386	558	484	378	257	204	222	2	0	0	0	3011
CROSSBUCKS.....	5237	3007	4462	2801	1765	1472	847	783	112	0	0	0	20486
OTHER SIGNS.....	53	32	24	16	14	0	2	0	0	0	0	0	141
NO SIGNS OR SIGNALS.....	849	325	166	77	51	46	18	22	0	0	0	0	1554
TOTAL.....	10573	6847	9885	7345	5479	4576	3213	3070	272	3	2	0	51265

ALL CROSSINGS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES.....	2233	3216	4911	4703	4294	3669	3037	2795	183	6	3	0	29050
FLASHING LIGHTS.....	6288	4327	7272	4983	3366	2066	532	471	20	0	0	0	29325
HWY. SIGNALS, WIGWAGS, BELLS	553	268	364	207	91	101	48	23	5	0	1	0	1661
SPECIAL WARNING DEVICES.....	3271	776	424	129	81	46	20	33	15	3	0	0	4798
STOP SIGNS.....	1669	1227	2545	2157	1446	968	471	530	4	0	0	0	11017
CROSSBUCKS.....	18115	10332	21771	14676	8154	6093	1803	1871	234	0	1	0	83050
OTHER SIGNS.....	230	126	86	31	26	0	4	3	0	0	0	0	506
NO SIGNS OR SIGNALS.....	3518	1312	958	391	192	156	55	42	4	0	0	0	6628
TOTAL.....	35877	21584	38331	27277	17650	13099	5970	5768	465	9	5	0	166035

(D A T A)

SUMMARY OF ACCIDENT/INCIDENT

AND

INVENTORY

FOR

PRIVATE CROSSINGS

TABLE 62. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,
BY TYPE OF CONSIST, 1994

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	14	---	4	---	---	---	2	---	---	---	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	5	1	1	---	---	---	---	---	---	---	---	---
Arkansas.....	4	1	---	---	---	---	---	---	---	1	1	---
California.....	16	6	4	8	2	---	5	---	3	3	1	1
Colorado.....	7	2	1	---	---	---	1	---	---	1	---	---
Connecticut.....	1	---	1	4	---	4	---	---	---	1	---	1
Delaware.....	---	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	7	1	2	1	---	1	2	---	---	---	---	---
Georgia.....	10	1	3	1	---	---	2	---	1	---	---	---
Idaho.....	5	---	1	---	---	---	---	---	---	1	---	1
Illinois.....	12	4	2	2	---	1	7	---	1	7	---	4
Indiana.....	5	2	5	2	---	---	1	---	1	1	---	---
Iowa.....	---	---	---	---	---	---	2	---	---	---	---	---
Kansas.....	1	---	1	---	---	---	1	---	---	1	---	---
Kentucky.....	14	---	6	---	---	---	2	---	---	---	---	---
Louisiana.....	11	---	4	2	1	---	1	---	---	5	---	5
Maine.....	2	---	1	---	---	---	1	---	---	---	---	---
Maryland.....	1	---	---	---	---	---	---	---	---	---	---	---
Massachusetts....	2	---	---	1	---	---	---	---	---	1	---	---
Michigan.....	2	---	---	1	1	6	1	---	---	1	---	---
Minnesota.....	4	---	1	---	---	---	6	---	---	---	---	---
Mississippi.....	10	---	4	1	---	---	2	---	---	---	---	---
Missouri.....	8	1	2	1	---	---	---	---	---	---	---	---
Montana.....	6	1	1	1	---	---	1	---	---	---	---	---
Nebraska.....	4	---	---	---	---	---	1	---	---	1	---	---
Nevada.....	1	---	---	---	---	---	---	---	---	---	---	---
New Hampshire....	1	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	---	---	---	---	---	---	1	---	---	2	---	---
New Mexico.....	2	---	---	1	---	---	---	---	---	---	---	---
New York.....	8	---	2	1	---	---	---	---	---	1	---	---
North Carolina...	9	---	2	2	---	---	1	---	---	1	1	---
North Dakota....	2	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	10	1	3	---	---	---	1	---	---	---	---	---
Oklahoma.....	6	1	4	---	---	---	2	---	---	1	---	---
Oregon.....	2	1	---	---	---	---	4	---	1	---	---	---
Pennsylvania.....	11	---	3	1	---	---	2	---	---	1	---	---
Rhode Island.....	2	---	1	---	---	---	---	---	---	---	---	---
South Carolina...	5	2	---	---	---	---	---	---	---	---	---	---
South Dakota....	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	5	2	2	---	---	---	2	---	---	1	---	---
Texas.....	34	3	9	---	---	---	15	---	2	4	---	---
Utah.....	2	---	1	---	---	---	---	---	---	---	---	---
Vermont.....	2	---	---	1	---	---	---	---	---	---	---	---
Virginia.....	20	2	5	---	---	---	2	---	---	2	---	1
Washington.....	9	1	6	---	---	---	2	---	---	4	---	---
West Virginia....	13	1	3	---	---	---	1	---	---	2	---	---
Wisconsin.....	4	---	2	---	---	---	1	---	---	1	---	---
Wyoming.....	3	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	303	34	87	31	4	12	72	---	9	44	3	13

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

TABLE 63. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,
BY STATE AND WARNING DEVICE, 1994

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	2	---	---	6	2	---	6	16
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	1	---	4	---	---	---	5
Arkansas.....	---	---	---	---	---	1	---	4	5
California.....	---	1	1	1	9	15	2	3	32
Colorado.....	---	---	---	---	1	4	1	3	9
Connecticut.....	---	2	1	---	1	1	1	---	6
Delaware.....	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	1	1	---	1	6	---	1	---	10
Georgia.....	1	---	---	---	5	4	---	3	13
Idaho.....	---	---	---	---	2	1	1	2	6
Illinois.....	---	2	1	4	3	5	---	13	28
Indiana.....	---	---	---	---	---	5	1	3	9
Iowa.....	---	---	---	---	---	1	---	1	2
Kansas.....	---	---	---	---	1	1	---	1	3
Kentucky.....	---	---	---	---	9	3	---	4	16
Louisiana.....	---	1	---	---	11	2	1	4	19
Maine.....	---	---	---	---	---	2	---	1	3
Maryland.....	---	---	---	---	1	---	---	---	1
Massachusetts....	---	---	---	1	---	1	---	2	4
Michigan.....	---	2	---	---	---	1	---	2	5
Minnesota.....	---	1	---	1	3	2	1	2	10
Mississippi.....	---	---	---	1	4	3	---	5	13
Missouri.....	---	---	---	---	3	1	---	5	9
Montana.....	---	---	---	---	1	5	---	2	8
Nebraska.....	---	---	---	---	1	1	---	4	6
Nevada.....	---	---	1	---	---	---	---	---	1
New Hampshire....	---	---	---	---	---	1	---	---	1
New Jersey.....	---	---	---	1	---	---	---	2	3
New Mexico.....	---	---	---	---	3	---	---	---	3
New York.....	---	---	---	---	1	---	1	8	10
North Carolina...	---	---	---	---	6	3	---	4	13
North Dakota.....	---	---	---	---	2	---	---	---	2
Ohio.....	1	---	---	---	6	1	---	3	11
Oklahoma.....	---	1	---	---	5	---	---	3	9
Oregon.....	---	---	---	1	---	4	---	1	6
Pennsylvania.....	---	2	---	---	4	---	---	9	15
Rhode Island.....	---	---	---	---	---	1	---	1	2
South Carolina...	---	---	---	---	3	---	---	2	5
South Dakota.....	---	---	---	---	---	1	---	---	1
Tennessee.....	---	2	---	1	2	---	---	3	8
Texas.....	2	2	1	2	28	13	---	5	53
Utah.....	---	---	---	---	---	1	---	1	2
Vermont.....	1	---	---	---	2	---	---	---	3
Virginia.....	1	---	---	---	5	3	---	15	24
Washington.....	1	---	---	---	1	9	---	4	15
West Virginia....	1	---	---	1	7	---	---	7	16
Wisconsin.....	---	---	---	---	2	1	2	1	6
Wyoming.....	---	---	---	---	1	1	---	1	3
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	9	19	6	15	149	100	12	140	450

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

TABLE 64. ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,
BY HIGHWAY USER, 1994

Type Of Vehicle	----Acc/Inc----		----Killed----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	191	40.13	23	53.49	45	34.09	19	35
Truck.....	156	32.77	14	32.56	49	37.12	10	40
Truck-trailer....	102	21.43	4	9.30	27	20.45	4	17
Bus.....	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	1	.21	---	---	---	---	---	---
Pedestrian.....	1	.21	1	2.33	---	---	1	---
Other.....	25	5.25	1	2.33	11	8.33	1	9
Total.....	476	100.00	43	100.00	132	100.00	35	101

TABLE 65. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,
BY WARNING DEVICE CATEGORY AND MOTORIST ACTION, 1994

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.....	4	---	---	1	---	---	---	---	---	2	---	---	2	---	---	9	---	---
Cantilever flshrs	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Standard flashers	---	---	---	4	---	2	8	1	---	6	---	2	---	---	---	18	1	4
Hwy Sig,W W,Bells	---	---	---	1	---	---	1	---	---	3	---	---	1	---	2	6	---	2
Special Devices..	---	---	---	3	---	---	9	---	2	3	---	---	---	---	---	15	---	2
Crossbucks.....	---	---	---	9	---	4	86	14	27	49	---	7	5	---	2	149	14	40
Stopsigns.....	---	---	---	7	---	2	59	10	25	29	1	10	5	---	1	100	11	38
Other Signs.....	---	---	---	1	---	---	6	---	4	5	---	1	---	---	---	12	---	5
No Signs Or Signl	---	---	---	3	2	1	73	7	20	60	6	7	4	---	2	140	15	30
Total.....	4	---	---	29	2	9	243	32	78	157	7	27	17	---	7	450	41	121

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

TABLE 66. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY SPEED OF TRAIN, CIRCUMSTANCE AND VISIBILITY, 1994

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.....	5	1	2	76	3	11	7	---	2	63	2	2	151	6	17
1-9.....	5	---	---	106	13	40	8	---	4	20	4	6	139	17	50
10-19.....	---	---	---	71	7	25	3	1	---	8	---	4	82	8	29
20-29.....	---	---	---	9	4	4	---	---	---	3	2	---	12	6	4
30-39.....	---	---	---	5	3	3	---	---	---	3	1	1	8	4	4
40-49.....	---	---	---	2	---	1	---	---	---	1	---	---	3	---	1
50-59.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
60 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	8	---	1	---	---	---	5	---	2	13	---	3
Total.....	10	1	2	278	30	85	18	1	6	103	9	15	409	41	108
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	---	---	---	12	---	2	---	---	---	5	---	1	17	---	3
10-19.....	1	---	1	7	---	2	---	---	---	5	---	2	13	---	5
20-29.....	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
30-39.....	---	---	---	2	---	1	---	---	---	2	---	---	4	---	1
40-49.....	1	---	1	1	---	1	---	---	---	---	---	---	2	---	2
50-59.....	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
60 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
Total.....	2	---	2	24	---	6	---	---	---	15	---	5	41	---	13
GRAND TOTAL															
Standing.....	5	1	2	76	3	11	7	---	2	63	2	2	151	6	17
1-9.....	5	---	---	118	13	42	8	---	4	25	4	7	156	17	53
10-19.....	1	---	1	78	7	27	3	1	---	13	---	6	95	8	34
20-29.....	---	---	---	10	4	4	---	---	---	4	2	1	14	6	5
30-39.....	---	---	---	7	3	4	---	---	---	5	1	1	12	4	5
40-49.....	1	---	1	3	---	2	---	---	---	1	---	---	5	---	3
50-59.....	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
60 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	9	---	1	---	---	---	6	---	2	15	---	3
Total.....	12	1	4	302	30	91	18	1	6	118	9	20	450	41	121

TABLE 67. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY RAILROAD AND WARNING DEVICE CATEGORY, 1994

Railroad	Gates	Flashing Lights	Hwy Sig. Wiguags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corp.	---	---	---	---	---	---	---	---	---
Alton & Southern Railroad	---	---	---	---	---	---	---	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	2	1	1	---	12	3	1	3	23
Atchison, Topeka And Santa Fe Railway Co.	---	---	---	---	13	2	---	3	18
Bangor And Aroostook Railroad	---	---	---	---	---	2	---	1	3
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	1	2	---	3	12	24	---	28	70
Chicago And North Western Transp.	---	---	---	---	---	---	---	1	1
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	---	---
Consolidated Rail Corp.	1	1	---	1	5	1	2	13	24
Cuyahoga Valley Railway Co.	---	---	---	---	---	---	---	---	---
CSX Transp.	1	---	---	1	29	6	1	6	44
Dakota, Minnesota & Eastern Railroad	---	---	---	---	1	---	---	---	1
Delaware And Hudson Railroad Co.	---	---	---	---	---	---	---	3	3
Denver And Rio Grande Western Railroad Co.	---	---	---	---	---	4	1	---	5
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---	2	2
Florida East Coast Railway Co.	1	1	---	---	---	---	---	---	2
Fox Valley & Western Ltd.	---	---	---	---	1	---	---	---	1
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	---	2	---	---	1	---	---	---	3
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	---	2	---	---	1	2	---	5	10
Indiana Harbor Belt Railroad Co.	---	---	---	---	---	---	---	---	---
Kansas City Southern Railway Co.	---	---	---	1	13	---	---	---	14
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	---	2	1	---	---	---	---	---	3
Montana Rail Link	---	---	---	---	---	---	---	1	1
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
Norfolk Southern Corp.	1	3	---	4	19	13	---	39	79
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Northern Indiana Commuter Trans.	---	---	---	---	---	1	---	---	1
Paducah & Louisville Railway Co.	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	1	1
Port Terminal Railroad Assoc.	---	1	---	1	3	3	---	1	9
Soo Line Railroad Co.	---	1	---	---	---	1	1	3	6
Southeastern Pennsylvania Transp.	---	---	---	---	---	---	---	1	1
Southern Pacific Transp. Co.	2	2	3	1	13	13	1	2	37
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Co.	---	---	---	1	---	---	---	---	1
St. Louis Southwestern Railway Co.	---	---	---	---	4	3	---	---	7
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Co.	---	---	---	1	1	---	---	---	2
Union Pacific Railroad Co.	---	---	1	---	9	5	1	15	31
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	---	---	---	---	1	3	2	1	7
All Other Railroads.....	---	1	---	1	11	14	2	11	40
Total.....	9	19	6	15	149	100	12	140	450

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

TABLE 68. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY RAILROAD, 1994

Railroad	-----Motor Vehicle-----			-----Other Highway Users-----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	---	---	---	---	---	---	---	---	---
Alton & Southern Railroad	---	---	---	---	---	---	---	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	23	4	8	2	---	---	25	4	8
Atchison, Topeka And Santa Fe Railway Co.	18	2	5	1	---	---	19	2	5
Bangor And Aroostook Railroad	3	---	1	---	---	---	3	---	1
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	70	10	9	5	1	2	75	11	11
Chicago And North Western Transp.	1	---	---	---	---	---	1	---	---
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	---	---
Consolidated Rail Corp.	24	---	5	1	---	1	25	---	6
Cuyahoga Valley Railway Co.	---	---	---	---	---	---	---	---	---
CSX Transp.	44	7	17	2	---	2	46	7	19
Dakota, Minnesota & Eastern Railroad	1	---	---	1	---	---	2	---	---
Delaware And Hudson Railroad Co.	3	---	---	---	---	---	3	---	---
Denver And Rio Grande Western Railroad Co.	5	---	2	---	---	---	5	---	2
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	2	1	---	---	---	---	2	1	---
Florida East Coast Railway Co.	2	---	---	---	---	---	2	---	---
Fox Valley & Western Ltd.	1	---	---	---	---	---	1	---	---
Gateway Western Railway	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	3	---	1	---	---	---	3	---	1
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	10	---	6	---	---	---	10	---	6
Indiana Harbor Belt Railroad Co.	---	---	---	---	---	---	---	---	---
Kansas City Southern Railway Co.	14	---	5	---	---	---	14	---	5
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	3	---	4	---	---	---	3	---	4
Montana Rail Link	1	---	---	2	---	---	3	---	---
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
Norfolk Southern Corp.	79	6	21	3	---	---	82	6	21
Northeast Illinois Regional Commuter Rail	---	---	---	---	---	---	---	---	---
Northern Indiana Commuter Trans.	1	---	---	---	---	---	1	---	---
Paducah & Louisville Railway Co.	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	1	---	---	---	---	---	1	---	---
Port Terminal Railroad Assoc.	9	---	1	---	---	---	9	---	1
Soo Line Railroad Co.	6	---	3	---	---	---	6	---	3
Southeastern Pennsylvania Transp.	1	---	---	---	---	---	1	---	---
Southern Pacific Transp. Co.	37	4	12	2	---	1	39	4	13
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Co.	1	---	---	---	---	---	1	---	---
St. Louis Southwestern Railway Co.	7	---	5	---	---	---	7	---	5
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Co.	2	---	---	---	---	---	2	---	---
Union Pacific Railroad Co.	31	6	7	4	---	4	35	6	11
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	---	---	---	---	---	---	---	---
Wisconsin Central Ltd.	7	1	3	---	---	---	7	1	3
All Other Railroads.....	40	---	6	3	1	1	43	1	7
Total.....	450	41	121	26	2	11	476	43	132

TABLE 69. (MV) ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY SPEED OF CONSIST, 1994

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.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	37	---	5	---	---	---	62	---	9	22	---	6	121	---	20
10-19.....	30	---	4	5	---	---	9	---	---	8	---	4	52	---	8
20-29.....	56	---	26	2	---	---	---	---	---	1	---	1	59	---	27
30-39.....	63	5	21	4	---	3	1	---	---	6	---	2	74	5	26
40-49.....	74	17	20	2	---	1	---	---	---	3	1	---	79	18	21
50-59.....	34	8	8	6	1	7	---	---	---	2	1	---	42	10	15
60-69.....	8	4	2	5	2	---	---	---	---	2	1	---	15	7	2
70-79.....	1	---	1	6	1	1	---	---	---	---	---	---	7	1	2
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	303	34	87	31	4	12	72	---	9	44	3	13	450	41	121

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

TABLE 70. (MV) ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY LENGTH OF CONSIST, 1994

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.....	39	4	12	24	4	11	43	---	4	7	---	5	113	8	32
10-19.....	34	4	6	6	---	---	14	---	3	1	---	1	55	4	10
20-29.....	26	2	7	---	---	---	7	---	1	---	---	---	33	2	8
30-39.....	28	7	11	---	---	---	3	---	---	---	---	---	31	7	11
40-49.....	23	1	8	---	---	---	1	---	---	---	---	---	24	1	8
50-59.....	21	---	2	---	---	---	1	---	---	---	---	---	22	---	2
60-69.....	20	5	11	---	---	---	---	---	---	1	1	---	21	6	11
70-79.....	19	2	4	---	---	---	---	---	---	---	---	---	19	2	4
80-89.....	15	---	7	---	---	---	---	---	---	---	---	---	15	---	7
90-99.....	19	5	4	---	---	---	---	---	---	---	---	---	19	5	4
100-109.....	11	3	1	---	---	---	2	---	1	---	---	---	13	3	2
110-119.....	32	1	8	---	---	---	---	---	---	---	---	---	32	1	8
120-129.....	5	---	1	---	---	---	---	---	---	---	---	---	5	---	1
130-139.....	5	---	---	---	---	---	---	---	---	---	---	---	5	---	---
140-149.....	3	---	5	---	---	---	---	---	---	---	---	---	3	---	5
150 And over.....	2	---	---	---	---	---	---	---	---	---	---	---	2	---	---
Locomotives only.	1	---	---	1	---	1	1	---	---	35	2	7	38	2	8
Total.....	303	34	87	31	4	12	72	---	9	44	3	13	450	41	121

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

TABLE 71. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,
 BY OPERATIONAL STATUS OF WARNING DEVICE,
 CIRCUMSTANCE AND VISIBILITY, 1994

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.....	8	---	1	1	5	---	2	---	---	---	1
Cantilever flshrs	1	---	---	---	1	---	---	---	---	---	---
Standard flashers	18	---	---	2	8	---	6	---	1	---	1
Hwy Sig,W W,Bells	6	---	---	---	4	---	2	---	---	---	---
Special Devices..	---	---	15	2	7	1	1	---	2	---	2
Crossbucks.....	---	---	149	2	92	10	29	1	9	---	6
Stopsigns.....	---	---	100	2	66	3	26	---	1	---	2
Other Signs.....	---	---	12	---	7	---	4	---	1	---	---
No Signs Or Signl	---	---	140	1	88	4	33	1	10	---	3
Total.....	33	---	417	10	278	18	103	2	24	---	15

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

TABLE 72. PRIVATE CROSSINGS AT-GRADE BY STATE AND TYPE DEVELOPMENT, 1994

State	Farm	Residential	Recreational	Industrial	Unknown	Total
Alabama	1,353	265	13	480	0	2,111
Alaska	4	14	5	85	0	108
Arizona	396	24	13	255	0	688
Arkansas	1,001	220	20	282	0	1,523
California	2,154	346	123	2,263	9	4,895
Colorado	897	258	23	264	6	1,448
Connecticut	49	30	32	149	1	261
Delaware	87	38	6	22	0	153
Dist Of Columbia	0	0	0	12	0	12
Florida	367	205	33	440	418	1,463
Georgia	1,553	654	26	557	0	2,790
Idaho	888	58	9	467	0	1,422
Illinois	3,802	506	82	1,359	0	5,749
Indiana	1,914	343	29	612	4	2,902
Iowa	3,218	331	51	697	1	4,298
Kansas	3,608	208	8	431	1	4,256
Kentucky	1,604	786	18	422	0	2,830
Louisiana	1,787	520	22	969	1	3,299
Maine	410	118	77	329	0	934
Maryland	427	78	17	210	0	732
Massachusetts	170	68	39	261	0	538
Michigan	1,332	395	125	874	0	2,726
Minnesota	2,263	239	49	589	0	3,140
Mississippi	1,431	377	6	276	0	2,090
Missouri	2,336	337	27	599	1	3,300
Montana	1,624	108	23	302	0	2,057
Nebraska	2,488	86	13	237	0	2,824
Nevada	28	3	3	30	194	258
New Hampshire	152	87	23	82	0	344
New Jersey	198	62	12	321	1	594
New Mexico	447	32	4	112	0	595
New York	2,161	337	99	582	0	3,179
North Carolina	1,773	922	34	902	1	3,632
North Dakota	1,960	26	10	188	0	2,184
Ohio	2,617	342	45	950	1	3,955
Oklahoma	1,357	153	10	259	0	1,779
Oregon	1,395	337	42	1,104	0	2,878
Pennsylvania	1,483	522	156	1,289	0	3,450
Rhode Island	7	18	9	37	0	71
South Carolina	754	292	16	297	0	1,359
South Dakota	1,143	81	3	134	0	1,361
Tennessee	1,133	398	22	395	0	1,948
Texas	4,421	533	36	1,566	3	6,559
Utah	524	46	10	209	0	789
Vermont	450	62	29	109	0	650
Virginia	533	206	12	319	2,075	3,145
Washington	1,571	431	55	1,155	0	3,212
West Virginia	915	674	50	668	1	2,308
Wisconsin	1,926	255	60	743	0	2,984
Wyoming	778	16	0	136	0	930
Puerto Rico	2	0	0	0	0	2
FINAL TOTALS	64,891	12,447	1,629	25,030	2,718	106,715

TABLE 73. PRIVATE CROSSINGS AT-GRADE BY STATE AND TYPE WARNING DEVICE, 1994

State	Signs	Signals	No Signs or Signals	Unknown	Total
Alabama	649	18	1,443	1	2,111
Alaska	70	0	38	0	108
Arizona	418	5	265	0	688
Arkansas	230	6	1,287	0	1,523
California	3,609	102	1,184	0	4,895
Colorado	764	11	673	0	1,448
Connecticut	211	42	8	0	261
Delaware	19	0	134	0	153
Dist Of Columbia	0	0	12	0	12
Florida	957	48	458	0	1,463
Georgia	1,447	11	1,332	0	2,790
Idaho	289	10	1,123	0	1,422
Illinois	559	109	5,081	0	5,749
Indiana	274	39	2,589	0	2,902
Iowa	677	15	3,606	0	4,298
Kansas	274	5	3,977	0	4,256
Kentucky	558	28	2,244	0	2,830
Louisiana	403	31	2,865	0	3,299
Maine	291	16	627	0	934
Maryland	141	8	583	0	732
Massachusetts	174	13	351	0	538
Michigan	315	35	2,376	0	2,726
Minnesota	1,105	19	2,016	0	3,140
Mississippi	196	4	1,890	0	2,090
Missouri	253	26	3,021	0	3,300
Montana	512	9	1,536	0	2,057
Nebraska	150	6	2,668	0	2,824
Nevada	104	4	149	1	258
New Hampshire	49	4	291	0	344
New Jersey	155	13	426	0	594
New Mexico	234	3	358	0	595
New York	319	31	2,829	0	3,179
North Carolina	1,303	19	2,310	0	3,632
North Dakota	368	1	1,815	0	2,184
Ohio	332	44	3,579	0	3,955
Oklahoma	255	9	1,515	0	1,779
Oregon	944	24	1,909	1	2,878
Pennsylvania	765	28	2,657	0	3,450
Rhode Island	41	1	29	0	71
South Carolina	955	9	395	0	1,359
South Dakota	235	2	1,123	1	1,361
Tennessee	345	12	1,591	0	1,948
Texas	1,430	80	5,049	0	6,559
Utah	173	5	611	0	789
Vermont	72	6	572	0	650
Virginia	379	28	2,738	0	3,145
Washington	614	17	2,581	0	3,212
West Virginia	311	11	1,986	0	2,308
Wisconsin	414	20	2,550	0	2,984
Wyoming	306	5	619	0	930
Puerto Rico	1	1	0	0	2
FINAL TOTALS	24,649	993	81,069	4	106,715

TABLE 74. PRIVATE CROSSINGS AT-GRADE BY TYPE DEVELOPMENT AND WARNING DEVICE, 1994

State	Signs	Signals	No Signs or Signals	Unknown	Total
Farm.....	11,303	97	53,491	0	64,891
Residential.	3,958	77	8,412	0	12,447
Recreational	671	27	931	0	1,629
Industrial..	8,184	769	16,073	4	25,030
Unknown.....	533	23	2,162	0	2,718
FINAL TOTALS	24,649	993	81,069	4	106,715

TABLE 75. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND TYPE DEVELOPMENT, 1994

Railroad	Farm	Residential	Recreational	Industrial	Unknown	Total
Alaska Railroad Corp.	4	14	5	85	0	108
Allegheny and Eastern Railroad	40	16	5	21	0	82
Amtrak (Nat'l Railroad Passenger Corp.)	35	13	3	16	1	68
Arkansas & Missouri Railroad Co.	65	16	0	11	0	92
Arkansas Midland Railroad Co., Inc.	54	9	1	28	0	92
Atchison, Topeka & Santa Fe Railway Co.	2,324	211	20	1,109	2	3,666
Atlanta & Saint Andrews Bay Railway Co.	21	16	2	26	5	70
Austin & Northwestern Railroad	83	11	2	12	0	108
Bangor & Aroostook Railroad	184	35	48	118	0	385
Bessemer & Lake Erie Railroad Co.	38	12	2	44	0	96
Boston & Maine Corp.	142	57	18	195	0	412
Buffalo & Pittsburgh Railroad, Inc.	145	66	12	40	0	263
Burlington Northern Railroad Co.	9,339	1,044	132	2,303	2	12,820
Camas Prairie Railroad Co.	87	4	1	24	0	116
Canadian Pacific Railway Co.	101	12	22	45	0	180
Cedar Rapids & Iowa City Railway Co.	53	16	1	22	0	92
Cedar River Railroad Co.	86	9	2	7	0	104
Central Kansas Railway, Inc.	469	52	0	58	0	579
Central Michigan Railway Co.	74	23	2	88	0	187
Central Railroad Co. Of Indianapolis	1	1	0	1	0	3
Central Vermont Railway, Inc.	142	29	6	46	0	223
Chehalis Western	62	10	0	24	0	96
Chicago & North Western Transportation Co.	3,043	253	47	841	0	4,184
Chicago Missouri & Western Railway	92	3	0	20	0	115
Chicago, Central & Pacific Railroad Co.	524	24	3	150	0	701
Columbus & Greenville Railway Co.	242	39	0	29	0	310
Consolidated Rail Corp.	4,105	916	220	2,080	2	7,323
CSX Transportation	5,385	1,937	157	2,760	848	11,087
Dakota, Minnesota & Eastern Railroad	480	7	1	66	0	554
Dakota, Missouri Valley & Western Railroad	159	0	0	0	0	159
Delaware & Hudson Railway Co.	305	49	37	55	0	446
Delta Southern Railroad Co.	99	12	0	8	0	119
Denver & Rio Grande Western Railroad Co.	310	175	16	168	4	673
Department of Defense - Other	22	14	1	194	3	234
Detroit & Mackinac Railway Co.	88	64	31	24	0	207
Duluth, Missabe & Iron Range Railway Co.	24	17	1	89	0	131
Eastern Idaho Railroad	162	4	1	102	0	269
Elgin, Joliet & Eastern Railway Co.	51	1	0	37	0	89
Escanaba & Lake Superior Railroad Co.	73	28	30	31	0	162
Florida Central Railroad Co.	5	12	1	16	21	55
Florida East Coast Railway Co.	5	3	1	19	86	114
Fox Valley & Western Ltd.	261	57	13	118	0	449
Gateway Western Railway	135	1	1	19	0	156
Georgia Central Railroad	48	20	3	16	0	87
Georgia Southwestern Railroad Division	111	27	6	22	0	166
Grainbelt Corp.	86	1	1	5	0	93
Grand Trunk Western Railroad Inc.	398	25	4	71	0	498
Great Western Railway Co.	113	4	1	9	0	127
Gulf And Mississippi Railroad Corp.	306	95	3	56	0	460
Hillsdale County Railway Co., Inc.	56	5	1	6	0	68
Houston Belt & Terminal Railway Co.	0	1	0	42	0	43
Huron & Eastern Railway	101	7	2	44	0	154
Idaho Northern & Pacific Railroad Co.	118	5	0	59	0	182
Illinois Central Railroad Co.	1,109	241	8	349	0	1,707
Indiana & Ohio Central Railroad, Inc.	67	3	1	16	0	87
Indiana Hi-Rail Corp.	69	10	1	26	0	106
Indiana Rail Road Co.	103	23	2	24	0	152
Iowa Interstate Railroad	250	28	1	47	0	326
Iowa Northern Railway Co.	97	16	2	4	0	119
Kankakee, Beaverville & Southern Railroad	57	0	1	2	0	60
Kansas City Southern Railway Co.	291	42	5	154	0	492
Kansas City Terminal Railway Co.	78	1	0	15	1	95
Kansas Southwestern Railway	129	7	0	27	0	163
Kiamichi Railroad Co., Inc.	59	27	0	11	0	97
Kyle Railroad Co.	321	22	3	21	0	367
Lamoille Valley Railroad Co.	87	3	8	7	0	105
Long Island Rail Road	67	4	3	8	0	82

TABLE 75. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND TYPE DEVELOPMENT, CONT., 1994

Railroad	Farm	Residential	Recreational	Industrial	Unknown	Total
Louisiana & Arkansas Railway Co.	446	62	1	70	0	579
Louisiana & Delta Railroad	133	12	1	27	0	173
Maine Department Of Transportation	46	23	3	15	0	87
Maryland & Delaware Railroad Co.	106	14	1	16	0	137
Maryland Dept. Of Transportation	76	11	2	12	0	101
Mass. Bay Transportation Authority	15	8	6	19	0	48
Mid-Atlantic Railroad Co., Inc.	50	48	0	25	0	123
Mid-Michigan Railroad Co.	41	3	4	47	0	95
Midd States Port Authority	156	4	1	9	0	170
Midsouth Railroad Corp.	130	62	0	77	0	269
Missouri & Northern Arkansas Railroad Co.	265	12	0	76	0	353
Monongahela Railway Co.	40	18	2	33	0	93
Montana Rail Link	467	63	15	139	0	684
MNVA Railroad, Inc.	81	14	0	6	0	101
Nashville & Eastern Railroad	126	13	1	11	0	151
Nebraska Central Railroad	218	1	1	16	0	236
New Jersey Transit Rail Operations	43	15	5	33	0	96
New Orleans Lower Coast Railroad, Inc.	20	106	9	45	0	180
New Orleans Public Belt Railroad	0	0	0	156	0	156
New York City Trans. Authority (MTA)	6	0	1	8	0	15
New York, Susquehanna & Western Railroad Co.	149	30	2	42	0	223
Norfolk Southern Corp.	5,936	2,163	75	1,901	1,428	11,503
North Carolina Department Of Transportation	39	68	0	15	0	122
Northeast Kansas & Missouri	103	3	0	0	0	106
Ohio Central Railroad Co.	121	4	0	25	0	150
Oklahoma Department Of Transportation	80	17	0	8	0	105
Oklahoma Kansas & Texas Railroad Co.	88	5	1	16	0	110
Paducah & Louisville Railway Co.	118	30	1	36	0	185
Pittsburgh & Lake Erie Railroad Co.	1	29	5	64	0	99
Prairie Trunk Railway	54	3	1	3	0	61
Providence & Worcester Railroad Co.	46	17	12	48	0	123
Red River Valley & Western Railroad	293	4	0	19	0	316
Seminole Gulf Railroad	7	1	1	13	9	31
Soo Line Railroad Co.	1,996	236	48	452	0	2,732
South Carolina Central Railroad Co., Inc.	31	14	0	20	0	65
South Dakota Railroad Authority	217	41	2	22	0	282
South Kansas & Oklahoma Railroad Co.	212	9	0	24	0	245
South Orient Railroad Co., Ltd.	156	4	1	12	0	173
Southeastern Pennsylvania Transportation	22	12	2	17	0	53
Southern Pacific Transportation Co.	2,252	371	108	2,075	87	4,893
Southern Pacific, Chicago-St. Louis Corp.	59	5	0	23	0	87
Springfield Terminal Railway Co. (Vermont)	108	31	6	138	0	283
St. Louis Southwestern Railway Co.	614	75	4	87	0	780
State Subsidy	64	32	12	31	0	139
Tennessee Southern Railroad Co., Inc.	52	5	0	8	0	65
Terminal Railroad Association Of St. Louis	3	0	0	9	0	12
Texas & Oklahoma Railroad Co.	179	2	0	9	0	190
Texas Mexican Railway Co.	117	18	2	57	1	195
Texas Northeastern Division--Mid-Michigan	94	7	1	13	0	115
Toledo, Peoria & Western Railway Corp.	192	21	0	57	0	270
Tulare Valley Railroad Co.	141	4	0	87	0	232
Tuscola & Saginaw Bay Railroad Co., Inc.	106	51	6	80	0	243
Twin City & Western Railroad	102	2	0	2	0	106
Union Pacific Railroad Co.	7,475	815	63	2,151	105	10,609
Vermont Railway, Inc.	100	16	4	28	0	148
Washington Central Railroad Co.	202	66	6	70	0	344
Wheeling & Lake Erie Railway Co.	231	42	6	163	0	442
Wisconsin & Southern Railroad Co.	275	4	5	31	0	315
Wisconsin Central Ltd. (also Railway)	719	117	23	348	0	1,207
All Unknown Railroads	6,432	1,675	278	3,796	113	12,294
FINAL TOTALS	64,891	12,447	1,629	25,030	2,718	106,715

TABLE 76. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND TYPE WARNING DEVICE, 1994

Railroad	Signs	Signals	No Signs or Signals	Unknown	Total
Alaska Railroad Corp.	70	0	38	0	108
Allegheny and Eastern Railroad	10	1	71	0	82
Amtrak (Nat'l Railroad Passenger Corp.)	31	8	29	0	68
Arkansas & Missouri Railroad Co.	3	0	89	0	92
Arkansas Midland Railroad Co. Inc.	4	0	88	0	92
Atchison, Topeka & Santa Fe Railway Co.	1,167	47	2,452	0	3,666
Atlanta & Saint Andrews Bay Railway Co.	40	0	30	0	70
Austin & Northwestern Railroad	14	0	94	0	108
Bangor & Aroostook Railroad	86	5	294	0	385
Bessemer & Lake Erie Railroad Co.	11	0	85	0	96
Boston & Maine Corp.	85	13	314	0	412
Buffalo & Pittsburgh Railroad, Inc.	22	0	241	0	263
Burlington Northern Railroad Co.	2,898	117	9,804	1	12,820
Camas Prairie Railroad Co.	16	1	99	0	116
Canadian Pacific Railway Co.	54	2	124	0	180
Cedar Rapids & Iowa City Railway Co.	11	0	81	0	92
Cedar River Railroad Co.	81	0	23	0	104
Central Kansas Railway, Inc.	39	0	540	0	579
Central Michigan Railway Co.	15	0	172	0	187
Central Railroad Co. Of Indianapolis	1	0	2	0	3
Central Vermont Railway, Inc.	63	9	151	0	223
Chehalis Western	21	0	75	0	96
Chicago & North Western Transportation Co.	504	20	3,660	0	4,184
Chicago Missouri & Western Railway	5	0	110	0	115
Chicago, Central & Pacific Railroad Co.	267	2	432	0	701
Columbus & Greenville Railway Co.	5	0	305	0	310
Consolidated Rail Corp.	940	70	6,313	0	7,323
CSX Transportation	4,271	166	6,650	0	11,087
Dakota, Minnesota & Eastern Railroad	52	0	501	1	554
Dakota, Missouri Valley & Western Railroad	12	0	147	0	159
Delaware & Hudson Railway Co.	33	9	404	0	446
Delta Southern Railroad Co.	11	0	108	0	119
Denver & Rio Grande Western Railroad Co.	564	3	106	0	673
Department of Defense - Other	146	0	88	0	234
Detroit & Mackinac Railway Co.	28	0	179	0	207
Duluth, Missabe & Iron Range Railway Co.	117	2	12	0	131
Eastern Idaho Railroad	38	2	229	0	269
Elgin, Joliet & Eastern Railway Co.	16	5	68	0	89
Escanaba & Lake Superior Railroad Co.	15	2	145	0	162
Florida Central Railroad Co.	51	1	3	0	55
Florida East Coast Railway Co.	55	5	54	0	114
Fox Valley & Western Ltd.	57	3	389	0	449
Gateway Western Railway	5	0	151	0	156
Georgia Central Railroad	84	0	3	0	87
Georgia Southwestern Railroad Division	126	0	40	0	166
Grainbelt Corp.	2	1	90	0	93
Grand Trunk Western Railroad Inc.	35	12	451	0	498
Great Western Railway Co.	43	1	83	0	127
Gulf And Mississippi Railroad Corp.	36	0	424	0	460
Hillsdale County Railway Company, Inc.	1	0	67	0	68
Houston Belt & Terminal Railway Co.	5	0	38	0	43
Huron & Eastern Railway	4	0	150	0	154
Idaho Northern & Pacific Railroad Co.	37	2	143	0	182
Illinois Central Railroad Co.	231	21	1,455	0	1,707
Indiana & Ohio Central Railroad, Inc.	2	0	85	0	87
Indiana Hi-Rail Corp.	5	0	101	0	106
Indiana Rail Road Co.	10	0	142	0	152
Iowa Interstate Railroad	35	3	288	0	326
Iowa Northern Railway Co.	6	0	113	0	119
Kankakee, Beaverville & Southern Railroad	1	1	58	0	60
Kansas City Southern Railway Co.	90	4	398	0	492
Kansas City Terminal Railway Co.	16	0	79	0	95
Kansas Southwestern Railway	3	0	160	0	163
Kiamichi Railroad Company, Inc.	19	0	78	0	97
Kyle Railroad Co.	8	0	359	0	367
Lamoille Valley Railroad Co.	4	0	101	0	105

TABLE 76. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND WARNING DEVICE, CONT., 1994

Railroad	Signs	Signals	No Signs or Signals	Unknown	Total
Long Island Rail Road	3	5	74	0	82
Louisiana & Arkansas Railway Co.	58	4	517	0	579
Louisiana & Delta Railroad	11	0	162	0	173
Maine Department Of Transportation	27	1	59	0	87
Maryland & Delaware Railroad Co.	5	0	132	0	137
Maryland Dept. Of Transportation	3	0	98	0	101
Mass. Bay Transportation Authority	24	0	24	0	48
Mid-Atlantic Railroad Co. Inc.	110	0	13	0	123
Mid-Michigan Railroad Co.	6	0	89	0	95
Midd States Port Authority	14	0	156	0	170
Midsouth Railroad Corp.	39	0	230	0	269
Missouri & Northern Arkansas Railroad Co.	26	0	327	0	353
Monongahela Railway Co.	33	0	60	0	93
Montana Rail Link	149	4	531	0	684
MNVA Railroad, Inc.	8	0	93	0	101
Nashville & Eastern Railroad	2	0	149	0	151
Nebraska Central Railroad	6	0	230	0	236
New Jersey Transit Rail Operations	36	3	57	0	96
New Orleans Lower Coast Railroad, Inc.	8	1	171	0	180
New Orleans Public Belt Railroad	24	0	132	0	156
New York City Trans. Authority (MTA)	8	0	7	0	15
New York, Susquehanna & Western Railroad Co.	27	2	194	0	223
Norfolk Southern Corp.	1,617	52	9,833	1	11,503
North Carolina Department Of Transportation	11	0	111	0	122
Northeast Kansas & Missouri	1	0	105	0	106
Ohio Central Railroad Co.	28	0	122	0	150
Oklahoma Department Of Transportation	11	0	94	0	105
Oklahoma Kansas & Texas Railroad Co.	14	1	95	0	110
Paducah & Louisville Railway Co.	44	3	138	0	185
Pittsburgh & Lake Erie Railroad Co.	60	6	33	0	99
Prairie Trunk Railway	3	0	58	0	61
Providence & Worcester Railroad Co.	76	7	40	0	123
Red River Valley & Western Railroad	45	0	271	0	316
Seminole Gulf Railroad	23	0	8	0	31
Soo-Line Railroad Co.	237	19	2,476	0	2,732
South Carolina Central Railroad Co.	57	0	8	0	65
South Dakota Railroad Authority	21	1	260	0	282
South Kansas & Oklahoma Railroad Co.	21	0	224	0	245
South Orient Railroad Company, Ltd.	44	0	129	0	173
Southeastern Pennsylvania Transportation	1	1	51	0	53
Southern Pacific Transportation Co.	2,148	97	2,648	0	4,893
Southern Pacific, Chicago-St. Louis Corp.	6	1	80	0	87
Springfield Terminal Railway Co.	108	9	166	0	283
St. Louis Southwestern Railway Co.	199	5	576	0	780
State Subsidy	41	0	98	0	139
Tennessee Southern Railroad Co., Inc.	1	2	62	0	65
Terminal Railroad Association Of St. Louis	4	0	8	0	12
Texas & Oklahoma Railroad Co.	4	0	186	0	190
Texas Mexican Railway Co.	18	22	155	0	195
Texas Northeastern Division--Mid-Michigan	14	0	101	0	115
Toledo, Peoria & Western Railway Corp.	16	0	254	0	270
Tulare Valley Railroad Co.	176	0	56	0	232
Tuscola & Saginaw Bay Railroad Co., Inc.	18	0	225	0	243
Twin City & Western Railroad	1	0	105	0	106
Union Pacific Railroad Co.	1,638	79	8,892	0	10,609
Vermont Railway, Inc.	17	3	128	0	148
Washington Central Railroad Co.	65	0	279	0	344
Wheeling & Lake Erie Railway Co.	77	2	363	0	442
Wisconsin & Southern Railroad Co.	13	0	302	0	315
Wisconsin Central Ltd. (also Railway)	199	3	1,005	0	1,207
All Unknown Railroads	4,208	122	7,963	1	12,294
FINAL TOTALS	24,649	993	81,069	4	106,715

APPENDIX A

REPORTING

REQUIREMENTS

AND

DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1992 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 highway-rail 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 \$6,300 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 \$250 million based on 1991 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 cross ties.
3. **Asphalt.** A surface over the entire crossing area or the area between plants 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.** Performed 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 cross-ties 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 or her 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.

Highway-rail Crossing. A location where one or more railroad tracks intersect a public or private thoroughfare, a sidewalk, or a pathway.

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-train Incident. An event arising from railroad operations but not from the

movement of on-track equipment, which does not exceed the reporting threshold, and results in a death, a reportable injury, or a reportable occupational illness.

Nontrespassers. 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.

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.

Train Accident. A collision, derailment, or other event involving the operation of railroad on-track equipment resulting in damages that exceed the reporting threshold.

Train Incident. Any event involving the movement of railroad on-track equipment that results in a death, a reportable injury, or a reportable illness, but in which railroad property damage does not exceed the reporting threshold.

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)	Gates¹
	7)	Flashing lights¹
	6)	Highway signals, wigwags or bells
	5)	Special warning devices
	3)	Stop signs
	4)	Crossbucks
	2)	Other signs
	Lowest	1)

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 highway-rail 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 highway-rail crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than \$6,300 in damages to railroad on-track equipment, signals, track, track structures, or roadbed, Form FRA 6180-54 must also be submitted.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 2130-0500

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 im-
[L.S]
pression seal) _____
(Signature of affiant)

(Name of Affiant)
(Title of Office held by affiant)

(Notary Public)

7. MILES RUN DURING MONTH

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

8.

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

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

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

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

DEFINITIONS

A *train accident* is any collision, derailment, fire, explosion, act of God, or any other event involving operation of railroad on-track equipment (standing or moving) which results in damages to railroad on-track equipment, signals, track, track structures, and roadbed above the dollar threshold listed in the current FRA Guide for Preparing Accident/Incident Reports.

A *train incident* is any event arising from the movement of an equipment consist, which results in a reportable death, injury or illness, but not more than the damages required for reporting train accidents.

A *nontrain incident* is any event arising from the operation of a railroad, other than a train accident or train incident, which results in a reportable death, injury or illness.

A *reportable death, injury, or illness* is any event arising from the operation of a railroad which results in:

- (a) death to one or more persons;
- (b) injury to one or more persons, other than railroad employees, that requires medical treatment;
- (c) injury to one or more employees that requires medical treatment or results in restriction of work or motion for one or more days, one or more lost workdays, transfer to another job, termination of employment, or loss of consciousness; or
- (d) any occupational illness of a railroad employee, as diagnosed by a physician.

An *equipment consist* is a train, locomotive(s), cut of cars, or any single car not coupled to another car or locomotive.

A *train* is defined as a locomotive unit or locomotive units coupled, with or without cars and with or without markers displayed. Included in this definition are those trains consisting entirely of self-propelled units designed to carry passenger and/or freight traffic.

A *locomotive* is a self-propelled unit of equipment designed for moving other equipment and includes a self-propelled unit designed to carry freight and/or passenger traffic. For rapid transit and commuter reporting, any powered unit, including a married pair, will be identified as a locomotive.

A *car* is

- (a) any unit of equipment designed to be hauled by locomotives, or
- (b) any unit of on-track work equipment such as a track motorcar, a highway-rail car, on-track push car, on-track crane, on-track ballast tamping machine, etc.

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

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

HAZARDOUS MATERIALS (number of)			
8. CARS CARRYING	9. CARS DAMAGED OR DERAILED	10. CARS WHICH RELEASED HAZ. MAT.	11. PEOPLE EVACUATED (est.)

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. <input type="checkbox"/> MPH Recorded <input type="checkbox"/>		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) 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 (1) First Involved (derailed, struck, striking, etc.) (2) Causing (mechanical failures)	30a. Initial and Number	30b. Position in Train	30c. Loaded (yes or no)
31. LOCOMOTIVE UNITS (no. of)	a. Head End	b. Manual c. Remote	d. Manual e. Remote
(1) Total in Train	32. CARS (no. of)		
(2) Total Derailed	(1) Total in Equipment Consist		
	(2) Total Derailed		

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

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

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

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

47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE
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50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER		5. DATE OF ACCIDENT/INCIDENT month day year		6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
LOCATION				
7. NEAREST RAILROAD STATION		8. COUNTY		9. STATE (two letter code) CODE
10. CITY (if in a city)		11. HIGHWAY NAME OR NUMBER (if private crossing, so state)		
ACCIDENT/INCIDENT SITUATION				
12. TYPE 1. Auto 3. Truck-Trailer 6. Motorcycle 2. Truck 4. Bus 7. Pedestrian 5. School Bus 8. Other (specify)			CODE	16. EQUIPMENT 1. Train (units pulling) 3. Train (standing) 6. Light loco(s) (moving) 2. Train (units pushing) 4. Car(s) (moving) 7. Light loco(s) (standing) 5. Car(s) (standing) 8. Other (specify)
13. SPEED (estimated mph at impact)		14. DIRECTION (geographical) 1. North 3. East 2. South 4. West		CODE
15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing		CODE	17. POSITION OF CAR/UNIT IN TRAIN CODE	
18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user		CODE		
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither CODE				
ENVIRONMENT				
20. TEMPERATURE (specify, if minus) °F		21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark		CODE
				22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow
TRAIN AND TRACK				
23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)		CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry	
25. TRACK NUMBER OR NAME		26. FRA TRACK CLASSIFICATION		27. NUMBER OF LOCOMOTIVE UNITS
28. NUMBER OF CARS		29. TRAIN SPEED (recorded speed, if available) MPH Recorded		30. TIME TABLE DIRECTION 1. North 3. East 2. South 4. West
CROSSING WARNING				
31. TYPE (place X in appropriate box(es))		1 <input type="checkbox"/> Gates	5 <input type="checkbox"/> Hwy. Traffic Signals	9 <input type="checkbox"/> Watchman
		2 <input type="checkbox"/> Cantilever FLS	6 <input type="checkbox"/> Audible	10 <input type="checkbox"/> Flagged by crew
		3 <input type="checkbox"/> Standard FLS	7 <input type="checkbox"/> Crossbucks	11 <input type="checkbox"/> Other (specify)
		4 <input type="checkbox"/> Wig Wags	8 <input type="checkbox"/> Stop Signs	12 <input type="checkbox"/> None
32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No		CODE		
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach		CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	
			35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown	
MOTORIST ACTION				
36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown		CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	
38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown		CODE		
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other (specify) 4. Topography 6. Highway vehicles 8. Not obstructed		CODE		
HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES				
40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)		41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured		42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED		44. TOTAL NUMBER OF OCCUPANTS INJURED		45. TOTAL NUMBER OF OCCUPANTS (include driver)
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No CODE				
47. TYPED NAME AND TITLE		48. SIGNATURE		49. DATE

U.S. DOT — AAR CROSSING INVENTORY FORM

A. INITIATING AGENCY

RAILROAD STATE

C. REASON FOR UPDATE:

CHANGES IN EXISTING CROSSING DATA
 NEW CROSSING
 CLOSED CROSSING

D. EFFECTIVE DATE

____/____/____
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	
16. Private Vehicle Crossing		17. Public Vehicle Crossing		DO NOT WRITE IN THIS SPACE	

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

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

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 timetable 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 ____03 Number	Other Stop Signs ____04 Number	Other Signs: Specify	
reflectORIZED ____01 Number	non-reflectORIZED ____02 Number			____05 Number	____06 Number
				____07 Number	____08 Number

B. Train Activated Devices

Gates		Cantilevered Flashing Lights		Mast Mounted Flashing Lights ____13 Number	Other Flashing Lights Specify _____ 14 Number	Highway Traffic Signals ____16 Number	Wigwags ____17 Number	Bells ____18 Number
red & white reflectORIZED ____09 Number	other colored ____10 Number	over traffic lane ____11 Number	not over traffic lane ____12 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 <input type="checkbox"/> 1. Open Sp. <input type="checkbox"/> 2. Res <input type="checkbox"/> 3. Comm. <input type="checkbox"/> 4. Ind. <input type="checkbox"/> 5. Inst.		5. Is Highway Paved <input type="checkbox"/> Yes <input type="checkbox"/> No		9. Does Track Run Down A Street? <input type="checkbox"/> Yes <input type="checkbox"/> No	
2. Smallest Crossing Angle <input type="checkbox"/> 0°-29° <input type="checkbox"/> 30°-59° <input type="checkbox"/> 60°-90°		6. Pavement Markings <input type="checkbox"/> Stoppelines <input type="checkbox"/> RR Xing Sym. <input type="checkbox"/> None		10. Nearby Intersecting Highway? <input type="checkbox"/> Yes <input type="checkbox"/> No	
3. Number of Traffic Lanes Crossing Railroad _____ Number		7. Are RR Advance Warning Signs Present? <input type="checkbox"/> Yes <input type="checkbox"/> No			
4. Are Truck Pullout Lanes Present? <input type="checkbox"/> Yes <input type="checkbox"/> No		8. Crossing Surface <input type="checkbox"/> 1. Sec. Timber <input type="checkbox"/> 2. Full Wd. Plank <input type="checkbox"/> 3. Asphalt <input type="checkbox"/> 4. Concrete Slab <input type="checkbox"/> 5. Concrete Pave. <input type="checkbox"/> 6. Rubber <input type="checkbox"/> 7. Metal Sections <input type="checkbox"/> 8. Other Metal <input type="checkbox"/> 9. Unconsolidated <input type="checkbox"/> 0. Other Specify			

Part IV Highway Department Information

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