

**HIGHWAY-RAIL CROSSING  
ACCIDENT/INCIDENT AND  
INVENTORY BULLETIN**

**NO. 19  
CALENDAR YEAR 1996**

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**U.S. Department of Transportation  
Federal Railroad Administration**

**Office of Safety**

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## LIST OF ABBREVIATIONS

<b>ACC/INC</b>	-	<b>Accident/Incident</b>
<b>A/I</b>	-	<b>Accident/Incident</b>
<b>CONT</b>	-	<b>Contractor Employee</b>
<b>ENOD</b>	-	<b>Employee Not On Duty</b>
<b>EOD</b>	-	<b>Employee On Duty</b>
<b>FA</b>	-	<b>Federal Aid</b>
<b>HWY</b>	-	<b>Highway</b>
<b>INJ</b>	-	<b>Injury or Casualty</b>
<b>K</b>	-	<b>Thousands</b>
<b>KLD</b>	-	<b>Killed</b>
<b>LOCO(S)</b>	-	<b>Locomotive</b>
<b>MUTCD</b>	-	<b>Manual on Uniform Traffic Control Devices</b>
<b>MV</b>	-	<b>Motor Vehicle</b>
<b>NONT</b>	-	<b>Non-Trespasser</b>
<b>PSGR</b>	-	<b>Passenger</b>
<b>SIG</b>	-	<b>Signal</b>
<b>TRES</b>	-	<b>Trespasser</b>
<b>VEH REG</b>	-	<b>Vehicles Registered</b>

## INTRODUCTION

The nineteenth 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 crossings accidents/incidents at public crossings.

Summary of 1996 accidents/incidents that occurred at public crossings sites.

Physical and operational statistics for all public at-grade highway-rail crossings as described in the inventory on July 19, 1997.

Summary of 1996 accidents/incidents occurring at private highway-rail crossings and tabulations of private crossings in the inventory.

The tables and figures in Sections 1,2,3,5, 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 VEHICLE		NON-MOTOR VEHICLES		ACCI	FATAL	INJ
		FATAL	INJ	ACCI	FATAL	INJ	INJ			
<hr/>										
<u>1991</u>										
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	
<u>1992</u>										
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	
<u>1993</u>										
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	
<u>1994</u>										
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	
<u>1995</u>										
PUBLIC	4,153	524	1,754	3,972	455	1,696	181	69	58	
PRIVATE	480	55	140	444	53	129	36	2	11	
TOTAL	4,633	579	1,894	4,416	508	1,825	217	71	69	
<u>1996</u>										
PUBLIC	3,788	449	1,486	3,612	377	1,428	176	72	58	
PRIVATE	469	39	124	442	38	117	27	1	7	
TOTAL	4,257	488	1,610	4,054	415	1,545	203	73	65	

( 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	KILLED	INJURED	TOTAL CASUALTIES	ACCIDENT	CASUALTIES PER
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
1995	4,153		524	1,754	2,278	0.55
1996	3,788		449	1,486	1,935	0.51

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

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000) <sup>1</sup>	ACCIDENTS PER MILLION VEHICLES
1991	4,677	191,743	24.39
1992	4,269	193,430	22.07
1993	4,240	197,254	21.49
1994	4,296	198,045	21.69
1995	3,972	200,446	19.81
1996	3,612	204,482 <sup>2</sup>	17.66

Registration figures for Hawaii are omitted because it does not have any reporting railroads.



( D A T A )

OVERVIEW

OF CURRENT

YEAR

AT

PUBLIC CROSSINGS

ONLY

**TABLE 3. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY STATE, 1996**

State	No. Of Acc/Inc	--- Killed ---		--- Injured ---		Total - Casualties -	
		No.	%	No.	%	No.	%
Alabama.....	142	17	3.79	67	4.51	84	4.34
Alaska.....	5	---	---	---	---	---	---
Arizona.....	25	4	.89	3	.20	7	.36
Arkansas.....	131	20	4.45	36	2.42	56	2.89
California.....	172	20	4.45	47	3.16	67	3.46
Colorado.....	25	2	.45	11	.74	13	.67
Connecticut.....	9	---	---	3	.20	3	.16
Delaware.....	4	---	---	2	.13	2	.10
Dist. of Columbia	2	---	---	---	---	---	---
Florida.....	93	14	3.12	33	2.22	47	2.43
Georgia.....	136	18	4.01	37	2.49	55	2.84
Idaho.....	43	6	1.34	14	.94	20	1.03
Illinois.....	210	37	8.24	83	5.59	120	6.20
Indiana.....	211	28	6.24	76	5.11	104	5.37
Iowa.....	114	6	1.34	35	2.36	41	2.12
Kansas.....	101	13	2.90	39	2.62	52	2.69
Kentucky.....	69	3	.67	20	1.35	23	1.19
Louisiana.....	213	29	6.46	115	7.74	144	7.44
Maine.....	6	---	---	1	.07	1	.05
Maryland.....	9	---	---	7	.47	7	.36
Massachusetts....	19	---	---	27	1.82	27	1.40
Michigan.....	136	17	3.79	85	5.72	102	5.27
Minnesota.....	132	13	2.90	45	3.03	58	3.00
Mississippi.....	120	15	3.34	63	4.24	78	4.03
Missouri.....	107	17	3.79	32	2.15	49	2.53
Montana.....	23	2	.45	11	.74	13	.67
Nebraska.....	54	8	1.78	20	1.35	28	1.45
Nevada.....	6	1	.22	4	.27	5	.26
New Hampshire.....	1	---	---	---	---	---	---
New Jersey.....	27	2	.45	8	.54	10	.52
New Mexico.....	23	7	1.56	19	1.28	26	1.34
New York.....	31	4	.89	13	.87	17	.88
North Carolina...	112	9	2.00	45	3.03	54	2.79
North Dakota....	30	4	.89	11	.74	15	.78
Ohio.....	174	13	2.90	61	4.10	74	3.82
Oklahoma.....	75	22	4.90	34	2.29	56	2.89
Oregon.....	28	1	.22	5	.34	6	.31
Pennsylvania....	64	3	.67	23	1.55	26	1.34
Rhode Island....	---	---	---	---	---	---	---
South Carolina...	83	5	1.11	39	2.62	44	2.27
South Dakota....	20	2	.45	9	.61	11	.57
Tennessee.....	113	8	1.78	26	1.75	34	1.76
Texas.....	391	50	11.14	161	10.83	211	10.90
Utah.....	31	11	2.45	6	.40	17	.88
Vermont.....	3	1	.22	3	.20	4	.21
Virginia.....	50	4	.89	18	1.21	22	1.14
Washington.....	51	6	1.34	16	1.08	22	1.14
West Virginia....	17	2	.45	5	.34	7	.36
Wisconsin.....	144	5	1.11	65	4.37	70	3.62
Wyoming.....	3	---	---	3	.20	3	.16
Unknown.....	---	---	---	---	---	---	---
Total.....	3,788	449	100.00	1,486	100.00	1,935	100.00

TABLE 4. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY STATE, 1996

State	No. Of Acc/Inc	-----Casualties-----			Vehi cles Regi stered	--Per 10,000 Registrati on--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj
Alabama.....	138	15	66	81	3,590,761	.38	.04	.18
Alaska.....	3	---	---	---	555,103	.05	---	---
Arizona.....	21	1	2	3	2,942,495	.07	---	.01
Arkansas.....	128	20	35	55	1,630,416	.79	.12	.21
California.....	154	9	43	52	22,963,802	.07	---	.02
Colorado.....	24	2	11	13	2,899,910	.08	.01	.04
Connecticut.....	9	---	3	3	2,671,221	.03	---	.01
Delaware.....	4	---	2	2	601,076	.07	---	.03
Dist. of Columbia	2	---	---	---	244,318	.08	---	---
Florida.....	85	11	29	40	10,559,507	.08	.01	.03
Georgia.....	135	17	37	54	6,192,515	.22	.03	.06
Idaho.....	40	5	14	19	1,076,563	.37	.05	.13
Illinois.....	191	24	80	104	9,157,225	.21	.03	.09
Indiana.....	208	28	75	103	5,168,356	.40	.05	.15
Iowa.....	111	6	34	40	2,925,521	.38	.02	.12
Kansas.....	98	11	36	47	2,127,628	.46	.05	.17
Kentucky.....	66	2	19	21	2,664,392	.25	.01	.07
Louisiana.....	211	29	112	141	3,322,357	.64	.09	.34
Maine.....	6	---	1	1	992,817	.06	---	.01
Maryland.....	9	---	7	7	3,693,032	.02	---	.02
Massachusetts....	19	---	27	27	4,576,212	.04	---	.06
Michigan.....	131	14	85	99	7,801,992	.17	.02	.11
Minnesota.....	123	9	44	53	3,999,720	.31	.02	.11
Mississippi.....	118	15	62	77	2,173,189	.54	.07	.29
Missouri.....	102	15	26	41	4,309,962	.24	.03	.06
Montana.....	22	2	11	13	989,398	.22	.02	.11
Nebraska.....	48	6	18	24	1,485,586	.32	.04	.12
Nevada.....	5	1	4	5	1,068,898	.05	.01	.04
New Hampshire.....	1	---	---	---	1,171,473	.01	---	---
New Jersey.....	21	---	6	6	5,994,950	.04	---	.01
New Mexico.....	22	7	18	25	1,514,907	.15	.05	.12
New York.....	23	2	9	11	10,443,715	.02	---	.01
North Carolina...	108	6	44	50	5,749,462	.19	.01	.08
North Dakota.....	25	3	9	12	711,569	.35	.04	.13
Ohio.....	166	10	60	70	10,028,772	.17	.01	.06
Oklahoma.....	72	21	34	55	2,911,559	.25	.07	.12
Oregon.....	24	---	5	5	2,846,208	.08	---	.02
Pennsylvania.....	62	1	23	24	8,651,861	.07	---	.03
Rhode Island.....	---	---	---	---	716,189	---	---	---
South Carolina...	78	4	36	40	2,867,901	.27	.01	.13
South Dakota.....	18	2	8	10	733,797	.25	.03	.11
Tennessee.....	109	7	26	33	5,470,351	.20	.01	.05
Texas.....	386	50	159	209	13,811,852	.28	.04	.12
Utah.....	30	10	6	16	1,469,037	.20	.07	.04
Vermont.....	3	1	3	4	510,372	.06	.02	.06
Virginia.....	46	2	16	18	5,671,332	.08	---	.03
Washington.....	48	4	14	18	4,598,573	.10	.01	.03
West Virginia....	16	1	4	5	1,443,703	.11	.01	.03
Wisconsin.....	140	4	62	66	4,162,265	.34	.01	.15
Wyoming.....	3	---	3	3	617,895	.05	---	.05
Unknown.....	---	---	---	---	---	---	---	---
Total.....	3,612	377	1,428	1,805	204,481,715	.18	.02	.07

Note: Vehicle registration figures are for 1996 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 PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TYPE OF MOTOR VEHICLE, 1996

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.....	94	7	45	25	5	10	19	3	11	---	---	---	---	---	---	---	---	---
Alaska.....	1	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	12	---	2	8	1	---	---	---	---	1	---	---	---	---	---	---	---	---
Arkansas.....	79	14	22	37	5	11	12	1	2	---	---	---	---	---	---	---	---	---
California.....	95	7	33	40	2	8	19	---	2	---	---	---	---	---	---	---	---	---
Colorado.....	17	2	7	7	---	4	---	---	---	---	---	---	---	---	---	---	---	---
Connecticut.....	8	---	3	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	4	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	54	9	13	19	2	13	11	---	2	1	---	1	---	---	---	---	---	---
Georgia.....	70	8	20	43	5	9	21	4	8	---	---	---	---	---	---	1	---	---
Idaho.....	22	4	7	13	1	6	5	---	1	---	---	---	---	---	---	---	---	---
Illinois.....	133	17	55	49	7	23	9	---	2	---	---	---	---	---	---	---	---	---
Indiana.....	144	19	55	49	8	17	13	---	3	1	---	---	---	---	---	1	1	---
Iowa.....	62	5	16	43	1	17	6	---	1	---	---	---	---	---	---	---	---	---
Kansas.....	56	7	17	28	1	15	13	2	4	---	---	---	---	---	---	1	1	---
Kentucky.....	34	---	10	23	2	9	9	---	---	---	---	---	---	---	---	---	---	---
Louisiana.....	129	23	67	56	5	30	23	1	11	1	---	1	1	---	2	1	---	1
Maine.....	5	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	4	---	1	1	---	---	4	---	6	---	---	---	---	---	---	---	---	---
Massachusetts....	15	---	4	1	---	1	3	---	22	---	---	---	---	---	---	---	---	---
Michigan.....	94	10	60	27	4	22	9	---	2	---	---	---	---	---	---	1	---	1
Minnesota.....	72	5	28	38	4	13	13	---	3	---	---	---	---	---	---	---	---	---
Mississippi.....	85	15	47	20	---	13	13	---	2	---	---	---	---	---	---	---	---	---
Missouri.....	56	7	18	39	8	8	6	---	18	---	---	---	---	---	---	1	---	---
Montana.....	14	1	7	6	1	3	2	---	1	---	---	---	---	---	---	---	---	---
Nebraska.....	28	4	11	15	2	7	5	---	---	---	---	---	---	---	---	---	---	---
Nevada.....	1	---	1	2	1	---	2	---	3	---	---	---	---	---	---	---	---	---
New Hampshire.....	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	18	---	6	2	---	---	1	---	---	---	---	---	---	---	---	---	---	---
New Mexico.....	11	---	8	10	7	10	1	---	---	---	---	---	---	---	---	---	---	---
New York.....	20	2	8	1	---	---	2	---	1	---	---	---	---	---	---	---	---	---
North Carolina...	74	4	31	20	2	10	14	---	3	---	---	---	---	---	---	---	---	---
North Dakota.....	15	3	7	7	---	2	3	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	104	6	38	48	2	19	13	2	2	---	---	---	---	---	---	1	---	1
Oklahoma.....	45	14	26	20	6	7	7	1	1	---	---	---	---	---	---	---	---	---
Oregon.....	14	---	3	4	---	1	6	---	1	---	---	---	---	---	---	---	---	---
Pennsylvania.....	39	1	18	12	---	3	11	---	2	---	---	---	---	---	---	---	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	52	3	27	14	---	5	10	1	2	1	---	---	1	---	2	---	---	---
South Dakota.....	13	1	7	4	1	1	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	77	5	20	19	2	4	10	---	2	---	---	---	1	---	---	2	---	---
Texas.....	224	27	106	123	20	37	38	3	16	1	---	---	---	---	---	---	---	---
Utah.....	21	8	3	7	2	3	2	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	1	1	---	1	---	---	1	---	3	---	---	---	---	---	---	---	---	---
Virginia.....	33	1	14	9	1	2	4	---	---	---	---	---	---	---	---	---	---	---
Washington.....	30	1	9	14	2	5	3	1	---	1	---	---	---	---	---	---	---	---
West Virginia....	10	---	1	4	1	3	2	---	---	---	---	---	---	---	---	---	---	---
Wisconsin.....	86	3	48	37	1	12	16	---	2	---	---	---	1	---	---	---	---	---
Wyoming.....	1	---	3	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	2,279	244	935	950	112	363	363	19	121	7	---	2	4	---	4	9	2	3

TABLE 6. (M) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TYPE OF CONSIST, 1996

State	----Freight----			---Passenger---			-Yard Swit ching			-----Other-----		
	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj
Alabama.....	119	13	58	3	2	2	11	---	4	5	---	2
Alaska.....	1	---	---	---	---	---	2	---	---	---	---	---
Arizona.....	11	1	1	---	---	---	1	---	---	9	---	1
Arkansas.....	101	17	25	6	---	2	11	1	3	10	2	5
California.....	100	5	34	22	4	3	17	---	2	15	---	4
Colorado.....	21	2	10	1	---	---	---	---	---	2	---	1
Connecticut.....	2	---	---	4	---	3	1	---	---	2	---	---
Delaware.....	3	---	1	1	---	1	---	---	---	---	---	---
Dist. of Columbia	1	---	---	1	---	---	---	---	---	---	---	---
Florida.....	60	6	21	19	5	7	3	---	---	3	---	1
Georgia.....	113	16	31	4	1	---	15	---	5	3	---	1
Idaho.....	34	5	12	1	---	1	1	---	---	4	---	1
Illinois.....	140	21	58	26	3	19	10	---	---	15	---	3
Indiana.....	155	22	58	19	3	5	12	---	1	22	3	11
Iowa.....	74	6	25	1	---	---	16	---	3	20	---	6
Kansas.....	76	10	30	---	---	---	11	---	3	11	1	3
Kentucky.....	56	1	16	1	---	---	4	---	2	5	1	1
Louisiana.....	166	27	81	10	1	12	20	1	9	15	---	10
Maine.....	4	---	1	1	---	---	---	---	---	1	---	---
Maryland.....	6	---	2	1	---	4	---	---	---	2	---	1
Massachusetts....	10	---	3	4	---	23	1	---	1	4	---	---
Michigan.....	105	10	68	5	4	5	14	---	8	7	---	4
Minnesota.....	92	9	36	2	---	1	18	---	4	11	---	3
Mississippi.....	96	7	48	9	7	5	7	---	2	6	1	7
Missouri.....	76	15	21	1	---	1	14	---	3	11	---	1
Montana.....	19	2	10	---	---	---	1	---	---	2	---	1
Nebraska.....	42	4	17	1	2	1	1	---	---	4	---	---
Nevada.....	4	1	2	1	---	2	---	---	---	---	---	---
New Hampshire.....	1	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	8	---	4	7	---	2	---	---	---	6	---	---
New Mexico.....	18	4	16	2	3	1	1	---	1	1	---	---
New York.....	12	---	6	10	2	3	---	---	---	1	---	---
North Carolina...	94	6	36	5	---	2	5	---	4	4	---	2
North Dakota.....	20	3	9	1	---	---	3	---	---	1	---	---
Ohio.....	145	9	47	6	---	1	3	---	3	12	1	9
Oklahoma.....	63	19	29	---	---	---	5	1	1	4	1	4
Oregon.....	18	---	5	---	---	---	---	---	---	6	---	---
Pennsylvania.....	48	1	19	2	---	1	4	---	1	8	---	2
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	64	3	31	6	1	3	4	---	---	4	---	2
South Dakota.....	10	2	8	---	---	---	4	---	---	4	---	---
Tennessee.....	86	4	23	2	---	---	3	---	---	18	3	3
Texas.....	317	48	128	8	1	5	32	1	17	29	---	9
Utah.....	24	9	5	---	---	---	---	---	---	6	1	1
Vermont.....	---	---	---	3	1	3	---	---	---	---	---	---
Virginia.....	38	2	13	2	---	1	3	---	---	3	---	2
Washington.....	26	3	9	2	1	1	12	---	1	8	---	3
West Virginia....	15	1	4	---	---	---	---	---	---	1	---	---
Wisconsin.....	109	3	44	3	---	3	14	1	1	14	---	14
Wyoming.....	3	---	3	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	2,806	317	1,108	203	41	123	284	5	79	319	14	118

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

TABLE 7. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY WARNING DEVICE, 1996

Railroad	Gates	Flashing Lights	Hwy Sig. Wiwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signal s	Total
Alaska Railroad Corp.	1	1	---	---	1	---	---	---	3
Alton & Southern Railroad	1	---	---	---	---	---	---	---	1
Amtrak (Nat'l Railroad Passenger Corp.)	54	14	4	---	37	10	---	1	120
Bangor And Aroostook Railroad	---	1	---	---	---	---	---	---	1
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	2	---	---	---	2
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Santa Fe	110	122	2	1	184	74	---	1	494
Chicago, Central & Pacific Railroad Co.	1	6	1	---	8	---	---	---	16
Consolidated Rail Corp.	68	47	6	1	63	10	3	7	205
CSX Transp.	93	117	2	10	153	56	---	3	434
Dakota, Minnesota & Eastern Railroad	---	4	---	---	5	---	---	---	9
Delaware And Hudson Railroad Co.	2	3	---	1	---	---	---	---	6
Denver And Rio Grande Western Railroad Co.	1	2	2	2	5	3	---	---	15
Duluth, Missabe & Iron Range Railway Co.	1	1	---	---	1	---	---	---	3
Duluth, Winnipeg & Pacific Railway	---	1	---	---	---	1	---	---	2
Elgin, Joliet And Eastern Railway Co.	3	1	---	---	1	1	---	1	7
Florida East Coast Railway Co.	21	1	---	1	---	---	---	---	23
Gateway Western Railway	1	---	---	---	6	---	---	---	7
Grand Trunk Western Railroad Co.	16	7	---	---	2	13	---	1	39
Guilford Railroad System	4	3	1	---	1	---	---	---	9
Houston Belt & Terminal Railway Co.	1	---	---	---	1	2	---	---	4
Illinois Central Railroad Co.	8	36	2	2	56	2	---	---	106
Indiana Harbor Belt Railroad Co.	8	3	---	---	1	---	---	---	12
Kansas City Southern Railway Co.	8	44	8	1	98	2	1	1	163
Long Island Rail Road	5	---	---	---	---	---	---	---	5
Massachusetts Bay Transit Authority	1	---	---	---	---	---	---	---	1
Metro North Commuter Railroad Co.	2	3	1	---	---	---	---	---	6
Montana Rail Link	1	---	---	---	3	6	---	1	11
New Jersey Transit Rail Operations	7	1	---	1	---	---	---	---	9
Norfolk Southern Corp.	104	136	7	7	161	67	---	3	485
Northeast Illinois Regional Commuter Rail	11	4	---	---	---	1	---	---	16
Northern Indiana Commuter Trans.	2	3	2	---	1	1	---	---	9
Paducah & Louisville Railway Co.	---	3	---	---	1	---	---	---	4
Peninsular Commuter	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	1	1	---	---	2	---	---	---	4
Soo Line Railroad Co.	13	15	---	---	37	7	---	1	73
Southeastern Pennsylvania Transp.	---	1	---	---	---	---	---	---	1
Southern California Regional Rail	8	---	---	---	---	1	---	---	9
Southern Pacific Transp. Co.	82	38	6	1	56	3	---	3	189
Southern Pacific, Chicago-St. Louis Corp.	2	1	---	---	1	---	---	---	4
St. Louis Southwestern Railway Co.	12	12	---	1	40	---	1	---	66
Terminal Railroad Assoc. of St. Louis	---	---	---	---	2	---	---	---	2
Union Pacific Railroad Co.	103	137	3	9	230	66	1	9	558
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	5	---	1	13	---	---	---	19
Wisconsin Central Ltd.	8	30	---	2	49	12	---	---	101
All Other Railroads.....	34	92	5	8	184	32	1	3	359
Total.....	798	896	52	49	1,405	370	7	35	3,612

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

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

Amtrak

TABLE 7A. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY RAILROAD, 1996

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	3	---	---	2	---	---	5	---	---
Alton & Southern Railroad	1	---	1	---	---	---	1	---	1
Amtrak (Nat'l Railroad Passenger Corp.)	120	32	59	12	7	1	132	39	60
Bangor And Aroostook Railroad	1	---	---	---	---	---	1	---	---
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	2	---	---	---	---	---	2	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Santa Fe	494	85	169	34	14	10	528	99	179
Chicago, Central & Pacific Railroad Co.	16	---	7	1	---	---	17	---	7
Consolidated Rail Corp.	205	19	85	13	6	2	218	25	87
CSX Transp.	434	33	186	12	5	3	446	38	189
Dakota, Minnesota & Eastern Railroad	9	1	6	1	---	---	10	1	6
Delaware And Hudson Railroad Co.	6	---	1	---	---	---	6	---	1
Denver And Rio Grande Western Railroad Co.	15	5	9	---	---	---	15	5	9
Duluth, Missabe & Iron Range Railway Co.	3	---	1	---	---	---	3	---	1
Duluth, Winnipeg & Pacific Railway	2	---	2	---	---	---	2	---	2
Elgin, Joliet And Eastern Railway Co.	7	---	2	---	---	---	7	---	2
Florida East Coast Railway Co.	23	3	7	5	2	3	28	5	10
Gateway Western Railway	7	1	---	---	---	---	7	1	---
Grand Trunk Western Railroad Co.	39	6	20	4	3	---	43	9	20
Guilford Railroad System	9	---	3	---	---	---	9	---	3
Houston Belt & Terminal Railway Co.	4	---	---	---	---	---	4	---	---
Illinois Central Railroad Co.	106	10	56	1	---	1	107	10	57
Indiana Harbor Belt Railroad Co.	12	---	4	---	---	---	12	---	4
Kansas City Southern Railway Co.	163	23	64	2	1	---	165	24	64
Long Island Rail Road	5	1	2	5	2	4	10	3	6
Massachusetts Bay Transit Authority	1	---	22	---	---	---	1	---	22
Metro North Commuter Railroad Co.	6	1	3	1	---	---	7	1	3
Montana Rail Link	11	1	3	1	1	---	12	2	3
New Jersey Transit Rail Operations	9	---	2	3	2	---	12	2	2
Norfolk Southern Corp.	485	42	161	15	5	6	500	47	167
Northeast Illinois Regional Commuter Rail	16	1	11	5	1	2	21	2	13
Northern Indiana Commuter Trans.	9	1	1	---	---	---	9	1	1
Paducah & Louisville Railway Co.	4	---	---	---	---	---	4	---	---
Peninsular Commuter	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	4	---	4	---	---	---	4	---	4
Soo Line Railroad Co.	73	4	27	4	1	1	77	5	28
Southeastern Pennsylvania Transp.	1	---	1	---	---	---	1	---	1
Southern California Regional Rail	9	2	1	1	1	---	10	3	1
Southern Pacific Transp. Co.	189	20	75	13	9	2	202	29	77
Southern Pacific, Chicago-St. Louis Corp.	4	1	---	---	---	---	4	1	---
St. Louis Southwestern Railway Co.	66	12	30	1	---	1	67	12	31
Terminal Railroad Assoc. of St. Louis	2	---	2	---	---	---	2	---	2
Union Pacific Railroad Co.	558	59	210	25	10	15	583	69	225
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	19	1	10	---	---	---	19	1	10
Wisconsin Central Ltd.	101	2	42	4	1	3	105	3	45
All Other Railroads.....	359	11	139	11	1	4	370	12	143
Total.....	3,612	377	1,428	176	72	58	3,788	449	1,486

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

TABLE 8. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
AT WARNING DEVICE BY STATE, 1996

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	9	28	1	2	59	39	---	---	138
Alaska.....	1	1	---	---	1	---	---	---	3
Arizona.....	4	14	---	---	2	1	---	---	21
Arkansas.....	12	38	1	1	67	9	---	---	128
California.....	88	22	5	2	22	11	1	3	154
Colorado.....	5	2	1	1	10	5	---	---	24
Connecticut.....	1	3	1	---	1	3	---	---	9
Delaware.....	1	3	---	---	---	---	---	---	4
Dist. of Columbia	1	1	---	---	---	---	---	---	2
Florida.....	50	10	---	1	19	5	---	---	85
Georgia.....	43	13	4	3	40	30	---	2	135
Idaho.....	1	10	1	---	9	18	---	1	40
Illinois.....	58	57	---	3	70	2	---	1	191
Indiana.....	49	72	5	1	52	26	---	3	208
Iowa.....	19	34	1	---	50	6	---	1	111
Kansas.....	14	18	---	1	60	5	---	---	98
Kentucky.....	8	33	---	1	19	3	---	2	66
Louisiana.....	15	71	7	---	110	6	1	1	211
Maine.....	---	4	---	---	2	---	---	---	6
Maryland.....	3	2	1	---	3	---	---	---	9
Massachusetts....	13	5	1	---	---	---	---	---	19
Michigan.....	23	36	---	2	40	30	---	---	131
Minnesota.....	18	32	---	---	45	27	---	1	123
Mississippi.....	1	32	6	2	63	13	---	1	118
Missouri.....	9	26	---	4	50	12	1	---	102
Montana.....	3	3	---	---	8	7	---	1	22
Nebraska.....	14	1	---	1	24	7	---	1	48
Nevada.....	1	---	---	---	3	---	---	1	5
New Hampshire.....	---	1	---	---	---	---	---	---	1
New Jersey.....	11	5	2	---	1	---	---	2	21
New Mexico.....	8	4	---	---	10	---	---	---	22
New York.....	17	2	1	1	1	1	---	---	23
North Carolina...	28	23	2	---	52	2	---	1	108
North Dakota.....	5	1	---	---	18	1	---	---	25
Ohio.....	39	34	2	2	81	7	1	---	166
Oklahoma.....	6	22	---	1	37	6	---	---	72
Oregon.....	8	3	---	---	5	7	---	1	24
Pennsylvania.....	13	12	1	3	21	5	3	4	62
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	12	20	---	2	30	14	---	---	78
South Dakota.....	1	9	---	---	7	1	---	---	18
Tennessee.....	22	37	1	2	36	10	---	1	109
Texas.....	103	86	3	3	162	26	---	3	386
Utah.....	6	3	2	2	13	3	---	1	30
Vermont.....	---	1	---	---	2	---	---	---	3
Virginia.....	20	8	1	3	14	---	---	---	46
Washington.....	15	7	1	1	14	8	---	2	48
West Virginia....	7	4	---	---	4	---	---	1	16
Wisconsin.....	13	41	1	4	67	14	---	---	140
Wyoming.....	---	2	---	---	1	---	---	---	3
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	798	896	52	49	1,405	370	7	35	3,612

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



TABLE 9. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY HIGHWAY USER, 1996

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	2,279	60.16	244	54.34	935	62.92	198	652
Truck.....	950	25.08	112	24.94	363	24.43	90	296
Truck-trailer....	363	9.58	19	4.23	121	8.14	18	72
Bus.....	7	.18	---	---	2	.13	---	2
School bus.....	4	.11	---	---	4	.27	---	2
Motorcycle.....	9	.24	2	.45	3	.20	2	3
Pedestrian.....	95	2.51	60	13.36	31	2.09	60	28
Other.....	81	2.14	12	2.67	27	1.82	11	19
Total.....	3,788	100.00	449	100.00	1,486	100.00	379	1,074

TABLE 10. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY CIRCUMSTANCE, 1996

Circumstance	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Struck by consist	2,713	75.11	327	86.74	1,048	73.39	261	739
Ran into consist.	899	24.89	50	13.26	380	26.61	47	288
Total.....	3,612	100.00	377	100.00	1,428	100.00	308	1,027

TABLE 11. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS BY  
TYPE OF VEHICLE AND NUMBER OF OCCUPANTS, 1996

Vehicle	# of A/I	# of Occupants	Occupants Per A/I	Killed		Injured	Injured Per A/I	Vehicle Damage	Damage Per A/I
				Killed	Per A/I				
Automobile...	2,279	2,811	1.23	244	.11	920	.40	6,557,617	2,877
Truck.....	950	1,069	1.13	112	.12	345	.36	4,890,908	5,148
Truck-trailer	363	346	.95	18	.05	62	.17	4,025,113	11,088
Bus.....	7	29	4.14	0	.00	2	.29	68,000	9,714
School bus...	4	14	3.50	0	.00	3	.75	30,000	7,500
Motorcycle...	9	8	.89	2	.22	3	.33	7,000	778
Total	3,612	4,277	1.18	376	.10	1,335	.37	15,578,638	4,313

TABLE 12. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY CIRCUMSTANCE, 1996

Type Of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
<b>RAIL CONSIST STRUCK HIGHWAY USER</b>												
Automobile.....	48	4	13	963	145	458	64	5	27	593	56	176
Truck.....	27	1	11	509	70	205	22	4	6	143	26	37
Truck-trailer....	14	1	1	258	13	79	11	---	24	52	2	8
Bus.....	---	---	---	4	---	1	---	---	---	1	---	---
School bus.....	---	---	---	3	---	2	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	---	---	---	1	---	---
Total.....	89	6	25	1,737	228	745	97	9	57	790	84	221
<b>HIGHWAY USER STRUCK RAIL CONSIST</b>												
Automobile.....	15	---	9	283	16	120	16	---	4	297	18	128
Truck.....	6	1	---	136	3	49	9	1	8	98	6	47
Truck-trailer....	---	---	---	26	3	8	---	---	---	2	---	1
Bus.....	---	---	---	1	---	---	1	---	1	---	---	---
School bus.....	---	---	---	1	---	2	---	---	---	---	---	---
Motorcycle.....	---	---	---	5	2	1	---	---	---	3	---	2
Total.....	21	1	9	452	24	180	26	1	13	400	24	178
<b>GRAND TOTAL</b>												
Automobile.....	63	4	22	1,246	161	578	80	5	31	890	74	304
Truck.....	33	2	11	645	73	254	31	5	14	241	32	84
Truck-trailer....	14	1	1	284	16	87	11	---	24	54	2	9
Bus.....	---	---	---	5	---	1	1	---	1	1	---	---
School bus.....	---	---	---	4	---	4	---	---	---	---	---	---
Motorcycle.....	---	---	---	5	2	1	---	---	---	4	---	2
Total.....	110	7	34	2,189	252	925	123	10	70	1,190	108	399

TABLE 13. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TYPE OF PERSON, 1996

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	---	1	---	1	162	546	48	116	---	---	210	674	1,668
Truck.....	---	15	---	---	---	2	67	210	34	32	---	---	101	259	701
Truck-trailer....	1	36	---	---	---	21	10	49	5	6	---	---	16	112	335
Bus.....	---	---	---	---	---	---	---	1	---	---	---	---	---	1	5
School bus.....	---	---	---	---	---	---	---	2	---	---	---	---	---	2	3
Motorcycle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Pedestrian.....	---	---	---	1	---	---	14	6	43	22	---	---	57	29	89
Other.....	---	6	---	---	---	---	6	18	5	2	---	---	11	26	75
Total.....	1	67	---	2	---	24	259	832	135	178	---	---	395	1,103	2,877
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	3	---	---	---	---	28	198	6	60	---	---	34	261	611
Truck.....	---	4	---	---	---	---	8	85	3	15	---	---	11	104	249
Truck-trailer....	---	2	---	---	---	---	3	4	---	3	---	---	3	9	28
Bus.....	---	---	---	---	---	---	---	---	---	1	---	---	---	1	2
School bus.....	---	1	---	---	---	---	---	---	---	1	---	---	---	2	1
Motorcycle.....	---	---	---	---	---	---	2	2	---	1	---	---	2	3	8
Pedestrian.....	---	---	---	---	---	---	2	2	1	---	---	---	3	2	6
Other.....	---	---	---	---	---	---	1	1	---	---	---	---	1	1	6
Total.....	---	10	---	---	---	---	44	292	10	81	---	---	54	383	911
GRAND TOTAL															
Automobile.....	---	13	---	1	---	1	190	744	54	176	---	---	244	935	2,279
Truck.....	---	19	---	---	---	2	75	295	37	47	---	---	112	363	950
Truck-trailer....	1	38	---	---	---	21	13	53	5	9	---	---	19	121	363
Bus.....	---	---	---	---	---	---	---	1	---	1	---	---	---	2	7
School bus.....	---	1	---	---	---	---	---	2	---	1	---	---	---	4	4
Motorcycle.....	---	---	---	---	---	---	2	2	---	1	---	---	2	3	9
Pedestrian.....	---	---	---	1	---	---	16	8	44	22	---	---	60	31	95
Other.....	---	6	---	---	---	---	7	19	5	2	---	---	12	27	81
Total.....	1	77	---	2	---	24	303	1,124	145	259	---	---	449	1,486	3,788

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 PUBLIC HIGHWAY-RAIL CROSSINGS, BY VEHICLE SPEED, CIRCUMSTANCE, AND VISIBILITY, 1996

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.....	28	---	4	539	20	169	39	1	28	390	14	42	996	35	243
1-9.....	27	3	5	401	44	175	15	---	6	105	17	32	548	64	218
10-19.....	19	1	5	363	74	162	22	2	15	127	32	56	531	109	238
20-29.....	5	1	3	192	35	104	8	2	2	51	4	33	256	42	142
30-39.....	4	---	5	100	29	65	9	4	2	48	4	25	161	37	97
40-49.....	3	1	1	43	11	26	1	---	---	19	3	8	66	15	35
50-59.....	1	---	1	18	3	10	---	---	---	9	3	5	28	6	16
60 and over.....	---	---	---	6	2	3	---	---	---	3	2	2	9	4	5
Unknown.....	2	---	1	75	10	31	3	---	4	38	5	18	118	15	54
Total.....	89	6	25	1,737	228	745	97	9	57	790	84	221	2,713	327	1,048
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	4	---	---	108	1	20	9	---	4	52	1	12	173	2	36
10-19.....	9	---	7	99	4	29	4	---	2	85	---	31	197	4	69
20-29.....	2	---	1	72	4	31	9	1	5	74	3	27	157	8	64
30-39.....	2	1	---	58	4	34	2	---	2	69	3	50	131	8	86
40-49.....	1	---	---	35	2	22	---	---	---	27	2	21	63	4	43
50-59.....	---	---	---	27	5	23	1	---	---	31	8	10	59	13	33
60 and over.....	---	---	---	13	3	5	1	---	---	9	3	3	23	6	8
Unknown.....	3	---	1	40	1	16	---	---	---	53	4	24	96	5	41
Total.....	21	1	9	452	24	180	26	1	13	400	24	178	899	50	380
GRAND TOTAL															
Standing.....	28	---	4	539	20	169	39	1	28	390	14	42	996	35	243
1-9.....	31	3	5	509	45	195	24	---	10	157	18	44	721	66	254
10-19.....	28	1	12	462	78	191	26	2	17	212	32	87	728	113	307
20-29.....	7	1	4	264	39	135	17	3	7	125	7	60	413	50	206
30-39.....	6	1	5	158	33	99	11	4	4	117	7	75	292	45	183
40-49.....	4	1	1	78	13	48	1	---	---	46	5	29	129	19	78
50-59.....	1	---	1	45	8	33	1	---	---	40	11	15	87	19	49
60 and over.....	---	---	---	19	5	8	1	---	---	12	5	5	32	10	13
Unknown.....	5	---	2	115	11	47	3	---	4	91	9	42	214	20	95
Total.....	110	7	34	2,189	252	925	123	10	70	1,190	108	399	3,612	377	1,428

TABLE 15. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY POSITION AND TYPE OF VEHICLE, 1996

Vehicle	-----Position On Crossing-----								
	--Stalled On--			--Stopped On--			--Moving Over--		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Automobile.....	224	7	16	463	20	144	1,592	217	775
Truck.....	61	2	8	152	5	32	737	105	323
Truck-trailer....	26	---	24	66	1	19	271	18	78
Bus.....	---	---	---	2	---	---	5	---	2
School bus.....	1	---	---	---	---	---	3	---	4
Motorcycle.....	1	---	---	---	---	---	8	2	3
Total.....	313	9	48	683	26	195	2,616	342	1,185

TABLE 16. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY CONSIST SPEED, CIRCUMSTANCE, AND VISIBILITY, 1996

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.....	20	---	2	254	---	45	14	---	---	144	1	30	432	1	77
10-19.....	12	---	1	219	2	62	15	---	7	130	3	47	376	5	117
20-29.....	10	---	4	280	7	121	12	---	7	146	6	55	448	13	187
30-39.....	17	---	10	323	33	155	16	1	9	114	6	27	470	40	201
40-49.....	14	3	3	401	86	231	19	1	6	140	33	41	574	123	281
50-59.....	10	3	2	165	61	77	15	5	26	68	20	13	258	89	118
60-69.....	3	---	1	52	23	29	1	---	---	29	8	6	85	31	36
70-79.....	3	---	2	42	16	25	5	2	2	19	7	2	69	25	31
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	89	6	25	1,737	228	745	97	9	57	790	84	221	2,713	327	1,048
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	2	---	1	10	---	4	---	---	---	58	4	28	70	4	33
1-9.....	3	---	1	113	2	28	7	---	5	115	5	42	238	7	76
10-19.....	2	---	---	79	1	29	3	---	---	81	3	31	165	4	60
20-29.....	6	1	4	80	7	39	6	---	2	61	2	34	153	10	79
30-39.....	2	---	---	65	5	30	3	---	2	35	4	15	105	9	47
40-49.....	4	---	3	73	8	32	3	1	3	39	2	27	119	11	65
50-59.....	2	---	---	24	1	13	3	---	---	8	3	1	37	4	14
60-69.....	---	---	---	5	---	3	---	---	---	2	1	---	7	1	3
70-79.....	---	---	---	3	---	2	1	---	1	1	---	---	5	---	3
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	21	1	9	452	24	180	26	1	13	400	24	178	899	50	380
GRAND TOTAL															
Standing.....	2	---	1	10	---	4	---	---	---	58	4	28	70	4	33
1-9.....	23	---	3	367	2	73	21	---	5	259	6	72	670	8	153
10-19.....	14	---	1	298	3	91	18	---	7	211	6	78	541	9	177
20-29.....	16	1	8	360	14	160	18	---	9	207	8	89	601	23	266
30-39.....	19	---	10	388	38	185	19	1	11	149	10	42	575	49	248
40-49.....	18	3	6	474	94	263	22	2	9	179	35	68	693	134	346
50-59.....	12	3	2	189	62	90	18	5	26	76	23	14	295	93	132
60-69.....	3	---	1	57	23	32	1	---	---	31	9	6	92	32	39
70-79.....	3	---	2	45	16	27	6	2	3	20	7	2	74	25	34
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	110	7	34	2,189	252	925	123	10	70	1,190	108	399	3,612	377	1,428

TABLE 17. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY RAILROAD EQUIPMENT INVOLVED, 1996

Type	Consist Struck	Vehicle Struck	Part Of Consist Struck	Lead				Unknown	Dawn	Day	Dusk	Dark
				1	2	3	4					
Train (Units Pulling)	2,362	661	410	114	40	47	44	6	90	1,884	105	944
Train (Units Pushing)	148	78	42	8	8	9	11	---	8	111	8	99
Train (Standing)	---	63	17	16	12	2	15	1	2	6	---	55
Cars (Moving)	37	22	22	---	---	---	---	---	2	55	---	2
Cars (Standing)	---	3	2	---	---	---	1	---	---	3	---	---
Light Locomotives (Moving)	166	68	63	---	---	1	4	---	8	129	10	87
Light Locomotives (Standing)	---	4	3	---	---	---	1	---	---	1	---	3
Other	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	<b>2,713</b>	<b>899</b>	<b>559</b>	<b>138</b>	<b>60</b>	<b>59</b>	<b>76</b>	<b>7</b>	<b>110</b>	<b>2,189</b>	<b>123</b>	<b>1,190</b>

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

TABLE 18. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TRAIN SPEED AND TYPE OF TRAIN, 1996

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	49	3	22	---	---	---	15	1	10	6	---	1	70	4	33
1-9	319	5	69	10	---	2	199	2	49	142	1	33	670	8	153
10-19	405	9	136	14	---	5	49	---	14	73	---	22	541	9	177
20-29	518	19	223	17	1	9	18	1	5	48	2	29	601	23	266
30-39	524	45	223	27	1	16	2	---	1	22	3	8	575	49	248
40-49	656	124	317	15	3	7	---	---	---	22	7	22	693	134	346
50-59	264	85	95	26	7	36	---	---	---	5	1	1	295	93	132
60-69	60	21	21	30	10	16	1	1	---	1	---	2	92	32	39
70-79	11	6	2	63	19	32	---	---	---	---	---	---	74	25	34
80-89	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	<b>2,806</b>	<b>317</b>	<b>1,108</b>	<b>203</b>	<b>41</b>	<b>123</b>	<b>284</b>	<b>5</b>	<b>79</b>	<b>319</b>	<b>14</b>	<b>118</b>	<b>3,612</b>	<b>377</b>	<b>1,428</b>

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

TABLE 19. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY LENGTH OF CONSIST, 1996

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	381	18	142	135	23	100	155	2	39	70	2	26	741	45	307
10-19	313	22	112	53	16	18	61	2	13	6	---	1	433	40	144
20-29	277	33	107	2	---	1	26	1	8	2	---	1	307	34	117
30-39	258	38	101	2	1	---	18	---	11	1	---	1	279	39	113
40-49	237	38	103	---	---	---	12	---	3	2	---	---	251	38	106
50-59	224	29	92	---	---	---	---	---	---	---	---	---	224	29	92
60-69	225	31	97	---	---	---	3	---	---	---	---	---	228	31	97
70-79	182	29	60	---	---	---	2	---	3	---	---	---	184	29	63
80-89	156	18	69	---	---	---	2	---	---	---	---	---	158	18	69
90-99	152	21	60	---	---	---	---	---	---	---	---	---	152	21	60
100-109	135	12	50	---	---	---	---	---	---	---	---	---	135	12	50
110-119	148	21	67	---	---	---	1	---	---	---	---	---	149	21	67
120-129	56	2	20	---	---	---	---	---	---	---	---	---	56	2	20
130-139	19	1	10	---	---	---	---	---	---	---	---	---	19	1	10
140-149	16	2	5	---	---	---	---	---	---	---	---	---	16	2	5
150 And over	17	2	3	---	---	---	1	---	---	---	---	---	18	2	3
Locomotives only	10	---	10	11	1	4	3	---	2	238	12	89	262	13	105
<b>Total</b>	<b>2,806</b>	<b>317</b>	<b>1,108</b>	<b>203</b>	<b>41</b>	<b>123</b>	<b>284</b>	<b>5</b>	<b>79</b>	<b>319</b>	<b>14</b>	<b>118</b>	<b>3,612</b>	<b>377</b>	<b>1,428</b>

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

TABLE 20. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY LENGTH OF CONSIST AND VISIBILITY, 1996

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.....	20	2	6	356	23	150	30	1	28	118	12	39	524	38	223
10-19.....	13	1	2	217	27	88	8	---	4	92	11	11	330	39	105
20-29.....	5	1	1	157	20	67	6	1	2	65	9	21	233	31	91
30-39.....	7	---	2	127	18	59	4	1	3	69	11	23	207	30	87
40-49.....	4	---	2	131	28	52	5	1	4	53	6	18	193	35	76
50-59.....	6	2	1	107	15	51	1	---	---	61	6	12	175	23	64
60-69.....	4	---	---	120	22	53	9	---	2	40	6	16	173	28	71
70-79.....	4	---	---	82	20	34	7	---	1	49	8	14	142	28	49
80-89.....	3	---	1	75	13	32	4	---	2	36	3	6	118	16	41
90-99.....	3	---	1	85	10	38	2	2	1	36	8	9	126	20	49
100-109.....	4	---	---	62	5	32	2	---	1	43	2	8	111	7	41
110-119.....	5	---	4	67	17	33	4	---	---	36	---	10	112	17	47
120-129.....	2	---	2	22	1	6	5	1	4	12	---	---	41	2	12
130-139.....	---	---	---	9	1	6	1	---	1	4	---	---	14	1	7
140-149.....	---	---	---	7	---	1	1	2	---	4	---	---	12	2	1
150 And over.....	1	---	---	8	2	1	1	---	---	5	---	1	15	2	2
Locomotives only.	8	---	3	105	6	42	7	---	4	67	2	33	187	8	82
Total.....	89	6	25	1,737	228	745	97	9	57	790	84	221	2,713	327	1,048
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	4	---	3	133	3	52	4	---	5	76	4	24	217	7	84
10-19.....	---	---	---	57	---	21	2	---	1	44	1	17	103	1	39
20-29.....	2	---	---	34	3	9	4	---	2	34	---	15	74	3	26
30-39.....	2	1	---	32	5	11	4	---	---	34	3	15	72	9	26
40-49.....	2	---	---	26	1	16	4	---	2	26	2	12	58	3	30
50-59.....	2	---	2	24	4	13	1	---	1	22	2	12	49	6	28
60-69.....	2	---	1	26	2	9	1	---	---	26	1	16	55	3	26
70-79.....	2	---	1	17	---	5	---	---	---	23	1	8	42	1	14
80-89.....	1	---	2	17	1	9	1	---	---	21	1	17	40	2	28
90-99.....	---	---	---	9	---	3	1	---	---	16	1	8	26	1	11
100-109.....	2	---	---	10	---	2	---	---	---	12	5	7	24	5	9
110-119.....	1	---	---	15	1	9	1	---	---	20	3	11	37	4	20
120-129.....	---	---	---	9	---	7	---	---	---	6	---	1	15	---	8
130-139.....	---	---	---	3	---	---	---	---	---	2	---	3	5	---	3
140-149.....	---	---	---	1	---	2	---	---	---	3	---	2	4	---	4
150 And over.....	---	---	---	---	---	---	---	---	---	3	---	1	3	---	1
Locomotives only.	1	---	---	39	4	12	3	1	2	32	---	9	75	5	23
Total.....	21	1	9	452	24	180	26	1	13	400	24	178	899	50	380
GRAND TOTAL															
1-9.....	24	2	9	489	26	202	34	1	33	194	16	63	741	45	307
10-19.....	13	1	2	274	27	109	10	---	5	136	12	28	433	40	144
20-29.....	7	1	1	191	23	76	10	1	4	99	9	36	307	34	117
30-39.....	9	1	2	159	23	70	8	1	3	103	14	38	279	39	113
40-49.....	6	---	2	157	29	68	9	1	6	79	8	30	251	38	106
50-59.....	8	2	3	131	19	64	2	---	1	83	8	24	224	29	92
60-69.....	6	---	1	146	24	62	10	---	2	66	7	32	228	31	97
70-79.....	6	---	1	99	20	39	7	---	1	72	9	22	184	29	63
80-89.....	4	---	3	92	14	41	5	---	2	57	4	23	158	18	69
90-99.....	3	---	1	94	10	41	3	2	1	52	9	17	152	21	60
100-109.....	6	---	---	72	5	34	2	---	1	55	7	15	135	12	50
110-119.....	6	---	4	82	18	42	5	---	---	56	3	21	149	21	67
120-129.....	2	---	2	31	1	13	5	1	4	18	---	1	56	2	20
130-139.....	---	---	---	12	1	6	1	---	1	6	---	3	19	1	10
140-149.....	---	---	---	8	---	3	1	2	---	7	---	2	16	2	5
150 And over.....	1	---	---	8	2	1	1	---	---	8	---	2	18	2	3
Locomotives only.	9	---	3	144	10	54	10	1	6	99	2	42	262	13	105
Total.....	110	7	34	2,189	252	925	123	10	70	1,190	108	399	3,612	377	1,428

TABLE 21. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TYPE AND CLASS OF TRACK, 1996

Track Class	-----Main-----			-----Yard-----			-----Si di ng-----			---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.....	269	7	92	148	1	39	20	2	3	126	4	28	---	---	---	563	14	162
2.....	579	18	217	18	---	6	2	---	4	15	---	2	---	---	614	18	229	
3.....	874	68	429	7	---	1	3	---	---	3	---	1	---	---	887	68	431	
4.....	1,309	231	529	4	---	---	2	---	---	1	---	---	---	---	1,316	231	529	
5.....	173	45	59	---	---	---	---	---	---	---	---	---	---	---	173	45	59	
6.....	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	
Unknown.....	32	---	12	17	---	2	1	---	---	8	1	4	---	---	58	1	18	
<b>Total.....</b>	<b>3,237</b>	<b>369</b>	<b>1,338</b>	<b>194</b>	<b>1</b>	<b>48</b>	<b>28</b>	<b>2</b>	<b>7</b>	<b>153</b>	<b>5</b>	<b>35</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>3,612</b>	<b>377</b>	<b>1,428</b>

TABLE 22. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY WARNING DEVICE AND MOTORIST ACTION, 1996

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.....	412	76	158	2	---	---	15	---	5	363	11	79	6	1	1	798	88	243
Cantilever flshrs	---	---	---	21	1	3	213	21	105	68	2	12	1	---	1	303	24	121
Standard flashers	---	---	---	43	2	9	407	47	203	137	3	28	6	1	2	593	53	242
Hwy Sig, W W, Bells	---	---	---	5	---	---	1	32	3	15	13	---	1	2	---	1	52	3
Special Devices..	---	---	---	7	---	---	36	---	17	6	---	1	---	---	---	49	---	18
Crossbucks.....	---	---	---	65	4	22	997	149	476	330	10	110	13	---	11	1,405	163	619
Stopsigns.....	---	---	---	54	9	19	213	30	110	96	7	29	7	---	2	370	46	160
Other Signs.....	---	---	---	---	---	---	4	---	1	3	---	1	---	---	---	7	---	2
No Signs Or Signl	---	---	---	2	---	---	20	---	3	12	---	2	1	---	---	35	---	5
<b>Total.....</b>	<b>412</b>	<b>76</b>	<b>158</b>	<b>199</b>	<b>16</b>	<b>54</b>	<b>1,937</b>	<b>250</b>	<b>935</b>	<b>1,028</b>	<b>33</b>	<b>263</b>	<b>36</b>	<b>2</b>	<b>18</b>	<b>3,612</b>	<b>377</b>	<b>1,428</b>

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



TABLE 23. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE,  
AND VISIBILITY, 1996

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.....	778	6	14	23	315	28	283	4	62	4	79
Cantilever flshrs	301	---	2	7	134	8	63	2	43	1	45
Standard flashers	580	3	10	12	270	5	117	4	100	5	80
Hwy Sig, W W, Bells	52	---	---	1	22	4	9	---	6	---	10
Special Devices..	---	---	49	1	16	---	10	1	8	---	13
Crossbucks.....	---	---	1,405	36	741	39	241	9	185	13	141
Stopsigns.....	---	---	370	8	222	11	57	1	41	2	28
Other Signs.....	---	---	7	---	3	1	1	---	1	---	1
No Signs Or Signl	---	---	35	1	14	1	9	---	6	1	3
Total.....	1,711	9	1,892	89	1,737	97	790	21	452	26	400

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 PUBLIC HIGHWAY-RAIL CROSSINGS, DURING  
DUSK AND DARK HOURS BY ILLUMINATION OF CROSSING AND CIRCUMSTANCE, 1996

	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	539	47	193	200	11	81	739	58	274
Not Lighted.....	1,586	205	628	529	28	233	2,115	233	861
Not Reported.....	573	72	225	167	11	66	740	83	291
Total.....	2,713	327	1,048	899	50	380	3,612	377	1,428

TABLE 25. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY CROSSING PROTECTION, 1996

Warning Device	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	42	4	10	722	80	248	44	3	37	464	49	121	1,272	136	416
Automatic, Side Of Approach.....	---	---	---	16	2	5	---	---	---	8	---	2	24	2	7
Automatic, Opposite Side....	---	---	---	3	---	1	---	---	---	---	---	---	3	---	1
Automatic, Side Not Reported	1	---	---	---	---	---	1	---	---	---	---	---	2	---	---
Manual, Both Sides.....	1	---	---	14	---	1	---	---	---	7	---	---	22	---	1
Manual, Side Of Approach....	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
Manual, Opposite Side.....	---	---	---	1	---	2	---	---	---	1	---	---	2	---	2
Manual, Side Not Reported...	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Other, Both Sides.....	44	2	15	929	143	474	47	6	20	291	35	95	1,311	186	604
Other, Side Of Approach....	---	---	---	26	3	9	3	---	---	6	---	1	35	3	10
Other, Opposite Side.....	---	---	---	6	---	1	---	---	---	---	---	---	6	---	1
Other, Side Not Reported....	---	---	---	5	---	---	1	---	---	2	---	1	8	---	1
No Signs Or Signals.....	1	---	---	14	---	4	1	---	---	9	---	1	25	---	5
Total.....	89	6	25	1,737	228	745	97	9	57	790	84	221	2,713	327	1,048
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	10	1	1	208	15	99	10	---	4	207	13	89	435	29	193
Automatic, Side Of Approach.....	---	---	---	3	---	2	---	---	---	4	---	1	7	---	3
Automatic, Opposite Side....	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	2	1	3	2	1	3
Manual, Both Sides.....	1	---	---	6	---	3	---	---	---	11	---	6	18	---	9
Manual, Side Of Approach....	---	---	---	1	---	1	---	---	---	1	---	4	2	---	5
Manual, Opposite Side.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Manual, Side Not Reported...	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Other, Both Sides.....	10	---	8	217	9	73	15	1	9	163	9	69	405	19	159
Other, Side Of Approach....	---	---	---	6	---	1	---	---	---	7	1	4	13	1	5
Other, Opposite Side.....	---	---	---	3	---	1	---	---	---	---	---	---	3	---	1
Other, Side Not Reported....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
No Signs Or Signals.....	---	---	---	6	---	---	1	---	---	3	---	---	10	---	---
Total.....	21	1	9	452	24	180	26	1	13	400	24	178	899	50	380
GRAND TOTAL															
Automatic, Both Sides.....	52	5	11	930	95	347	54	3	41	671	62	210	1,707	165	609
Automatic, Side Of Approach.....	---	---	---	19	2	7	---	---	---	12	---	3	31	2	10
Automatic, Opposite Side....	---	---	---	3	---	1	---	---	---	1	---	1	4	---	2
Automatic, Side Not Reported	1	---	---	---	---	---	1	---	---	2	1	3	4	1	3
Manual, Both Sides.....	2	---	---	20	---	4	---	---	---	18	---	6	40	---	10
Manual, Side Of Approach....	---	---	---	1	---	1	---	---	---	3	---	4	4	---	5
Manual, Opposite Side.....	---	---	---	2	---	2	---	---	---	1	---	---	3	---	2
Manual, Side Not Reported...	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
Other, Both Sides.....	54	2	23	1,146	152	547	62	7	29	454	44	164	1,716	205	763
Other, Side Of Approach....	---	---	---	32	3	10	3	---	---	13	1	5	48	4	15
Other, Opposite Side.....	---	---	---	9	---	2	---	---	---	---	---	---	9	---	2
Other, Side Not Reported....	---	---	---	6	---	---	1	---	---	2	---	1	9	---	1
No Signs Or Signals.....	1	---	---	20	---	4	2	---	---	12	---	1	35	---	5
Total.....	110	7	34	2,189	252	925	123	10	70	1,190	108	399	3,612	377	1,428

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 PUBLIC HIGHWAY-RAIL CROSSINGS, BY VISIBILITY AND CIRCUMSTANCE, 1996

Visibility	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	89	6	25	21	1	9	110	7	34
Day.....	1,737	228	745	452	24	180	2,189	252	925
Dusk.....	97	9	57	26	1	13	123	10	70
Dark.....	790	84	221	400	24	178	1,190	108	399
Total.....	2,713	327	1,048	899	50	380	3,612	377	1,428

TABLE 27. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TEMPERATURE AND VISIBILITY, 1996

Temperature	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	4	---	---	---	2	---	1	---	6	---	1
80 To 100.....	6	494	16	50	---	95	4	22	6	589	20	72
60 To 79.....	33	583	43	263	8	152	6	117	41	735	49	380
40 To 59.....	24	347	25	261	7	91	10	120	31	438	35	381
20 To 39.....	18	239	10	173	6	77	6	102	24	316	16	275
0 To 19.....	8	70	3	43	---	35	---	38	8	105	3	81
-20 To -1.....	---	---	---	---	---	---	---	---	---	---	---	---
Under -20.....	---	---	---	---	---	---	---	---	---	---	---	---
Not Reported....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	89	1,737	97	790	21	452	26	400	110	2,189	123	1,190

TABLE 28. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY TIME OF DAY, 1996

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 .	62	3	16	36	2	11	98	5	27
1 TO 1:59 AM ..	44	6	14	47	4	24	91	10	38
2 TO 2:59 AM ..	62	6	17	37	6	18	99	12	35
3 TO 3:59 AM ..	49	4	9	22	---	12	71	4	21
4 TO 4:59 AM ..	45	1	4	16	1	8	61	2	12
5 TO 5:59 AM ..	46	6	9	15	---	5	61	6	14
6 TO 6:59 AM ..	85	8	23	34	2	9	119	10	32
7 TO 7:59 AM ..	124	21	51	36	2	14	160	23	65
8 TO 8:59 AM ..	138	17	56	35	1	15	173	18	71
9 TO 9:59 AM ..	157	17	55	29	3	8	186	20	63
10 TO 10:59 AM	138	15	46	50	4	18	188	19	64
11 TO 11:59 AM	163	14	66	39	1	20	202	15	86
NOON TO 12:59 PM	135	19	58	34	3	15	169	22	73
1 TO 1:59 PM ..	156	19	76	37	3	12	193	22	88
2 TO 2:59 PM ..	174	30	72	41	2	13	215	32	85
3 TO 3:59 PM ..	162	29	69	54	1	26	216	30	95
4 TO 4:59 PM ..	167	19	76	41	2	21	208	21	97
5 TO 5:59 PM ..	170	24	99	45	2	18	215	26	117
6 TO 6:59 PM ..	158	16	70	56	---	23	214	16	93
7 TO 7:59 PM ..	128	13	43	37	---	19	165	13	62
8 TO 8:59 PM ..	108	14	32	36	1	17	144	15	49
9 TO 9:59 PM ..	85	5	38	41	4	15	126	9	53
10 TO 10:59 PM	73	10	27	48	2	20	121	12	47
11 TO 11:59 PM	84	11	22	33	4	19	117	15	41
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	2, 713	327	1, 048	899	50	380	3, 612	377	1, 428

TABLE 29. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY MONTH AND CIRCUMSTANCE, 1996

Month	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	274	20	108	105	1	38	379	21	146
February.....	234	24	117	90	5	49	324	29	166
March.....	233	36	104	95	7	34	328	43	138
April.....	193	30	64	69	5	23	262	35	87
May.....	194	25	55	64	2	25	258	27	80
June.....	199	20	102	53	4	11	252	24	113
July.....	193	16	71	67	8	32	260	24	103
August.....	229	29	88	69	2	32	298	31	120
September.....	229	35	88	56	7	26	285	42	114
October.....	264	35	92	69	4	38	333	39	130
November.....	240	31	68	76	2	34	316	33	102
December.....	231	26	91	86	3	38	317	29	129
Total.....	2, 713	327	1, 048	899	50	380	3, 612	377	1, 428

TABLE 30. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY WEATHER, CIRCUMSTANCE AND VISIBILITY, 1996

Weather	----Struck By Consist----				----Ran Into Consist-----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	54	1,278	56	489	10	314	15	226	64	1,592	71	715
Cloudy.....	22	345	27	168	7	95	6	85	29	440	33	253
Rain.....	2	68	11	74	2	18	3	50	4	86	14	124
Fog.....	7	14	1	27	---	7	---	16	7	21	1	43
Sleet.....	---	2	1	4	---	1	---	7	---	3	1	11
Snow.....	4	30	1	28	2	17	2	16	6	47	3	44
Not Reported....	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total.....</b>	<b>89</b>	<b>1,737</b>	<b>97</b>	<b>790</b>	<b>21</b>	<b>452</b>	<b>26</b>	<b>400</b>	<b>110</b>	<b>2,189</b>	<b>123</b>	<b>1,190</b>

TABLE 31. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY OBSTRUCTION OF MOTORIST VIEW, CIRCUMSTANCE AND VISIBILITY, 1996

Type Obstruction	----Struck By Consist----				----Ran Into Consist-----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	2	41	2	12	---	7	1	5	2	48	3	17
Standing RR Equipment.	---	11	---	2	---	---	---	---	---	11	---	2
Passing Train.....	---	8	---	3	---	1	---	2	---	9	---	5
Topography.....	1	21	1	10	---	3	---	1	1	24	1	11
Vegetation.....	2	31	4	2	---	9	1	2	2	40	5	4
Highway Vehicle.....	1	2	---	1	---	1	---	1	1	3	---	2
Other.....	1	14	---	3	---	2	---	5	1	16	---	8
Not Obstructed.....	82	1,609	90	757	21	429	24	384	103	2,038	114	1,141
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total.....</b>	<b>89</b>	<b>1,737</b>	<b>97</b>	<b>790</b>	<b>21</b>	<b>452</b>	<b>26</b>	<b>400</b>	<b>110</b>	<b>2,189</b>	<b>123</b>	<b>1,190</b>

TABLE 32. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY MOTORIST ACTION AND TYPE OF VEHICLE, 1996

Type Of Vehicle	Struck By			Passed Standing Vehicle		
	Yes	Second Train No	Unknown	Yes	No	Unknown
Automobile.....	24	2,223	32	79	2,016	184
Truck.....	10	931	9	20	877	53
Truck-trailer....	7	353	3	6	341	16
Bus.....	---	6	1	1	5	1
School bus.....	---	4	---	---	4	---
Motorcycle.....	---	9	---	1	8	---
<b>Total.....</b>	<b>41</b>	<b>3,526</b>	<b>45</b>	<b>107</b>	<b>3,251</b>	<b>254</b>

( D A T A )

HIGHWAY- RAIL

CROSSING

INVENTORY

TABLE 33. TOTAL PUBLIC AND PRIVATE CROSSINGS BY STATE AND TYPE, 1996

State	Public At Grade	Public RR Under	Public RR Over	Private at Grade	Private Grade Separated	Pedestrian at Grade	Pedestrian Grade Separated	Total
Alabama	3,579	491	170	1,990	20	23	4	6,277
Alaska	225	14	6	104	1	8	4	362
Arizona	941	88	83	682	106	7	2	1,909
Arkansas	3,232	177	118	1,508	68	10	7	5,120
California	7,925	943	567	4,849	198	158	90	14,730
Colorado	1,942	204	126	1,309	15	21	6	3,623
Connecticut	370	323	252	261	37	0	31	1,274
Delaware	287	47	55	119	2	1	4	515
Dist Of Columbia	23	30	37	8	0	11	2	111
Florida	4,048	235	57	1,451	1	66	5	5,863
Georgia	6,151	570	263	2,742	10	42	11	9,789
Hawaii	6	0	0	0	0	0	0	6
Idaho	1,482	92	69	1,318	11	12	2	2,986
Illinois	10,144	920	1,902	5,620	172	294	84	19,136
Indiana	6,568	442	552	2,815	85	64	13	10,539
Iowa	5,231	469	327	4,213	45	48	11	10,344
Kansas	7,828	349	208	4,214	32	32	0	12,663
Kentucky	2,604	440	442	2,690	106	43	23	6,348
Louisiana	3,587	228	112	3,204	20	34	7	7,192
Maine	882	128	78	934	15	11	3	2,051
Maryland	685	312	202	708	24	8	16	1,955
Massachusetts	1,192	795	436	537	52	18	84	3,115
Michigan	5,756	327	403	2,698	22	108	20	9,334
Minnesota	5,151	457	341	3,116	17	52	24	9,158
Mississippi	2,867	221	109	2,041	13	15	2	5,268
Missouri	4,864	638	411	3,292	72	61	35	9,373
Montana	1,456	131	82	2,051	111	15	5	3,851
Nebraska	3,964	215	131	2,805	39	14	4	7,172
Nevada	289	64	42	265	11	3	1	675
New Hampshire	503	118	52	344	21	7	6	1,051
New Jersey	1,860	534	728	599	57	45	83	3,906
New Mexico	810	70	79	591	45	2	2	1,599
New York	3,274	1,350	1,096	3,178	191	66	232	9,387
North Carolina	4,748	489	284	3,501	17	53	20	9,112
North Dakota	4,624	79	83	2,181	16	19	4	7,006
Ohio	6,389	982	1,028	3,246	179	31	48	11,903
Oklahoma	4,439	255	193	1,661	55	13	2	6,618
Oregon	2,301	288	170	2,810	114	89	12	5,784
Pennsylvania	5,574	1,541	1,861	3,416	235	123	197	12,956
Rhode Island	128	107	38	71	7	0	5	356
South Carolina	3,044	370	124	1,330	4	13	4	4,889
South Dakota	2,137	89	46	1,361	53	5	1	3,692
Tennessee	3,351	500	456	1,890	52	22	11	6,282
Texas	12,444	861	786	6,301	137	34	16	20,579
Utah	1,009	116	48	789	2	4	3	1,971
Vermont	496	85	83	650	44	46	4	1,408
Virginia	2,110	602	445	2,864	109	45	20	6,195
Washington	2,854	367	304	3,014	104	95	20	6,758
West Virginia	1,855	256	339	2,193	106	72	19	4,840
Wisconsin	4,646	403	306	2,827	83	105	38	8,408
Wyoming	527	113	46	932	78	1	7	1,704
FINAL TOTALS	162,426	18,925	16,176	103,295	3,014	2,069	1,254	307,169

TABLE 34. TOTAL PUBLIC AND PRIVATE CROSSINGS BY RAILROAD AND TYPE, 1996

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	221	14	6	104	1	8	4	358
Alton & Southern Railroad	21	7	1	27	0	0	0	56
Amtrak (National Railroad Passenger Corpora	244	574	520	68	26	14	77	1,523
Bangor & Aroostook Railroad	165	12	23	385	0	7	0	592
Belt Railway Company Of Chicago	38	8	62	76	3	0	1	188
Bessemer & Lake Erie Railroad Company	140	35	49	96	3	2	0	325
Birmingham Southern Railroad Company	46	18	7	36	0	0	0	107
Burlington Northern Santa Fe	24,944	2,115	1,726	15,849	546	305	80	45,565
Chicago, Central & Pacific Railroad Company	890	90	79	702	49	15	12	1,837
Consolidated Rail Corporation	12,286	3,094	3,370	6,748	365	168	254	26,285
CSX Transportation	17,817	2,501	1,776	10,261	300	319	123	33,097
Dakota, Minnesota & Eastern Railroad	803	21	33	556	38	2	0	1,453
Delaware & Hudson Railway Company	311	81	93	446	30	16	9	986
Denver & Rio Grande Western Railroad Compan	784	135	74	611	4	2	3	1,613
Duluth, Missabe & Iron Range Railway Compan	140	25	28	129	4	1	0	327
Duluth, Winnipeg & Pacific Railway	81	8	3	20	0	0	0	112
Elgin, Joliet & Eastern Railway Company	189	30	28	74	2	3	0	326
Florida East Coast Railway Company	718	33	6	113	0	13	0	883
Gateway Western Railway	228	24	23	156	1	2	0	434
Grand Trunk Western Railroad Incorporated	908	90	162	297	4	13	11	1,485
Guilford Rail System	1,320	505	237	720	59	14	39	2,894
Houston Belt & Terminal Railway Company	157	23	16	43	0	4	1	244
Illinois Central Railroad Company	2,597	324	328	1,588	42	63	22	4,964
Indiana Harbor Belt Railroad Company	76	31	28	43	0	2	4	184
Kansas City Southern Railway Company	2,851	313	187	1,857	38	12	7	5,265
Long Island Rail Road	304	294	105	82	0	8	80	873
Metro North Commuter Railroad Company	62	12	16	60	2	0	3	155
Montana Rail Link	428	52	21	681	10	3	1	1,196
New Jersey Transit Rail Operations	346	199	297	97	13	22	45	1,019
Norfolk Southern Corporation	16,817	1,971	1,644	10,987	231	101	46	31,797
Northeast Illinois Regional Comuter Rail Co	62	7	69	10	0	0	0	148
Northern Indiana Commuter Transportation Di	113	13	17	25	5	7	1	181
Paducah & Louisville Railway Company	257	53	49	185	7	3	0	554
Port Authority Trans Hudson	0	0	0	2	0	0	0	2
Soo Line Railroad Company	4,251	361	363	2,758	45	70	25	7,873
Southeastern Pennsylvania Transportation Au	263	114	174	53	22	10	40	676
Southern Pacific Transportation Company	7,503	824	475	4,525	203	105	52	13,687
Southern Pacific, Chicago-St. Louis Corpora	267	19	27	78	3	20	1	415
St. Louis Southwestern Railway Company	2,009	114	77	763	29	2	0	2,994
Terminal Railroad Association Of St. Louis	141	40	26	12	1	0	0	220
Union Pacific Railroad Company	21,479	1,981	1,589	14,344	305	215	111	40,024
Union Railroad Company (Pittsburgh)	14	20	30	39	7	6	7	129
Wheeling & Lake Erie Railway Company	566	76	157	390	28	9	6	1,232
Wisconsin Central Ltd. (also Railway)	1,902	97	84	1,162	7	32	6	3,290
All Other Railroads	37,667	2,567	2,091	26,037	581	471	183	69,601
FINAL TOTALS	162,426	18,925	16,176	103,295	3,014	2,069	1,254	307,169



**TABLE 35. TOTAL OF CROSSINGS BY STATE AND LOCATION:  
URBAN OR RURAL, 1996**

State	Urban	Rural	Total
Alabama.....	1,652	1,927	3,579
Alaska.....	87	138	225
Arizona.....	508	433	941
Arkansas.....	1,228	2,004	3,232
California.....	5,750	2,175	7,925
Colorado.....	654	1,288	1,942
Connecticut.....	239	131	370
Delaware.....	86	201	287
Dist of Columbia.....	23	---	23
Florida.....	2,352	1,696	4,048
Georgia.....	2,182	3,969	6,151
Hawaii.....	---	6	6
Idaho.....	249	1,233	1,482
Illinois.....	3,873	6,271	10,144
Indiana.....	2,856	3,712	6,568
Iowa.....	1,601	3,630	5,231
Kansas.....	1,384	6,444	7,828
Kentucky.....	699	1,905	2,604
Louisiana.....	1,592	1,995	3,587
Maine.....	236	646	882
Maryland.....	516	169	685
Massachusetts.....	843	349	1,192
Michigan.....	2,337	3,419	5,756
Minnesota.....	1,383	3,768	5,151
Mississippi.....	1,056	1,811	2,867
Missouri.....	1,577	3,287	4,864
Montana.....	241	1,215	1,456
Nebraska.....	480	3,484	3,964
Nevada.....	90	199	289
New Hampshire.....	221	282	503
New Jersey.....	1,329	531	1,860
New Mexico.....	237	573	810
New York.....	1,512	1,762	3,274
North Carolina.....	1,942	2,806	4,748
North Dakota.....	252	4,372	4,624
Ohio.....	3,031	3,358	6,389
Oklahoma.....	303	4,136	4,439
Oregon.....	1,004	1,297	2,301
Pennsylvania.....	2,910	2,664	5,574
Rhode Island.....	123	5	128
South Carolina.....	1,030	2,014	3,044
South Dakota.....	261	1,876	2,137
Tennessee.....	1,517	1,834	3,351
Texas.....	6,585	5,859	12,444
Utah.....	543	466	1,009
Vermont.....	165	331	496
Virginia.....	868	1,242	2,110
Washington.....	1,354	1,500	2,854
West Virginia.....	410	1,445	1,855
Wisconsin.....	1,839	2,807	4,646
Wyoming.....	84	443	527
Puerto Rico.....	---	24	24
Unknown.....	---	---	---
Total.....	63,294	99,132	162,426

TABLE 36. TOTAL CROSSINGS BY NUMBER OF MAIN AND OTHER TRACKS, 1996

Other Tracks	Number of main tracks							Total
	0	1	2	3	4	5	>5	
0	5	98,155	9,616	299	69	5	5	108,154
1	15,463	20,896	2,488	71	15	---	---	38,933
2	3,404	6,159	927	49	13	1	1	10,554
3	920	1,778	289	28	14	---	---	3,029
4	263	560	125	12	7	3	1	971
5	117	217	63	5	1	1	1	405
>5	96	217	62	2	3	---	---	380
<b>Total</b>	<b>20,268</b>	<b>127,982</b>	<b>13,570</b>	<b>466</b>	<b>122</b>	<b>10</b>	<b>8</b>	<b>162,426</b>

TABLE 37. CROSSINGS BY NUMBER OF TRACKS AND WARNING DEVICE, 1996

Number of Tracks Warning device	Number of tracks						Total
	1	2	3	4	5	>5	
Gates.....	15,006	10,337	3,470	1,189	431	380	30,813
Flashing lights.....	20,981	5,198	1,621	504	160	150	28,614
Hwy. signals, wigwags, bells	983	364	136	42	18	14	1,557
Special warning devices.....	3,258	934	296	114	36	45	4,683
Stop signs.....	7,983	2,089	512	164	48	36	10,832
Crossbucks.....	60,444	13,869	3,529	1,006	307	221	79,376
Other signs.....	361	93	29	14	1	3	501
No signs or signals.....	4,602	1,032	273	75	34	34	6,050
<b>Total.....</b>	<b>113,618</b>	<b>33,916</b>	<b>9,866</b>	<b>3,108</b>	<b>1,035</b>	<b>883</b>	<b>162,426</b>

TABLE 38. CROSSINGS BY TRACKS AND TRAFFIC LANES, 1996

Traffic Lanes	Number of tracks						Total
	1	2	3	4	5	>5	
1	19,292	3,948	645	148	32	35	24,100
2	86,962	27,326	8,374	2,680	907	746	126,995
3	779	345	97	28	9	12	1,270
4	5,677	2,038	683	237	84	82	8,801
5	430	119	34	7	1	4	595
>5	478	140	33	8	2	4	665
<b>Total</b>	<b>113,618</b>	<b>33,916</b>	<b>9,866</b>	<b>3,108</b>	<b>1,035</b>	<b>883</b>	<b>162,426</b>

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE, 1996

Number of Tracks

State	1	2	3	4	5	>5	Total
Alabama.....	2,578	636	250	62	26	27	3,579
Alaska.....	184	34	6	1	---	---	225
Arizona.....	700	165	57	15	3	1	941
Arkansas.....	2,228	695	210	62	21	16	3,232
California.....	5,435	1,585	551	185	86	83	7,925
Colorado.....	1,417	380	99	30	9	7	1,942
Connecticut.....	299	59	10	---	2	---	370
Delaware.....	251	29	6	---	1	---	287
Dist of Columbia	21	2	---	---	---	---	23
Florida.....	2,604	1,007	283	75	39	40	4,048
Georgia.....	4,578	1,117	299	103	20	34	6,151
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,035	294	102	36	9	6	1,482
Illinois.....	6,379	2,649	736	244	82	54	10,144
Indiana.....	4,694	1,438	302	85	30	19	6,568
Iowa.....	3,468	1,145	416	133	36	33	5,231
Kansas.....	5,402	1,609	528	183	58	48	7,828
Kentucky.....	1,778	614	143	47	9	13	2,604
Louisiana.....	2,708	627	170	48	13	21	3,587
Maine.....	724	123	24	9	1	1	882
Maryland.....	518	129	19	12	4	3	685
Massachusetts....	941	187	41	15	4	4	1,192
Michigan.....	4,114	1,192	273	104	36	37	5,756
Minnesota.....	3,662	980	332	114	30	33	5,151
Mississippi.....	2,069	552	160	48	20	18	2,867
Missouri.....	2,875	1,311	468	131	41	38	4,864
Montana.....	969	319	118	25	12	13	1,456
Nebraska.....	2,592	936	290	86	36	24	3,964
Nevada.....	205	65	12	4	1	2	289
New Hampshire....	427	66	7	2	1	---	503
New Jersey.....	1,358	386	82	17	8	9	1,860
New Mexico.....	567	172	44	16	4	7	810
New York.....	2,310	731	160	47	13	13	3,274
North Carolina...	3,521	822	260	82	31	32	4,748
North Dakota....	3,698	678	194	40	13	1	4,624
Ohio.....	3,910	1,812	449	140	47	31	6,389
Oklahoma.....	2,940	994	314	124	41	26	4,439
Oregon.....	1,655	441	161	31	12	1	2,301
Pennsylvania....	3,675	1,337	351	135	41	35	5,574
Rhode Island....	86	36	6	---	---	---	128
South Carolina...	2,446	483	81	17	9	8	3,044
South Dakota....	1,685	288	116	35	6	7	2,137
Tennessee.....	2,272	754	213	69	22	21	3,351
Texas.....	8,954	2,385	698	258	81	68	12,444
Utah.....	683	213	71	17	18	7	1,009
Vermont.....	403	71	16	4	---	2	496
Virginia.....	1,392	507	156	38	11	6	2,110
Washington.....	1,862	605	260	85	22	20	2,854
West Virginia....	1,344	381	102	16	5	7	1,855
Wisconsin.....	3,629	755	180	59	17	6	4,646
Wyoming.....	348	115	40	19	4	1	527
Puerto Rico.....	19	5	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	113,618	33,916	9,866	3,108	1,035	883	162,426

TABLE 40. TOTAL CROSSINGS BY TYPE OF HIGHWAY SYSTEM AND STATE, 1996

State	Highway System				Total
	01	02	03	08	
Alabama.....	---	161	649	2,769	3,579
Alaska.....	6	10	34	175	225
Arizona.....	9	71	252	609	941
Arkansas.....	1	133	1,126	1,972	3,232
California.....	---	912	1,627	5,386	7,925
Colorado.....	---	75	418	1,449	1,942
Connecticut.....	---	25	133	212	370
Delaware.....	---	31	119	137	287
Dist of Columbia.....	---	3	1	19	23
Florida.....	1	272	857	2,918	4,048
Georgia.....	---	371	949	4,830	6,150
Hawaii.....	---	---	---	6	6
Idaho.....	---	43	245	1,194	1,482
Illinois.....	1	612	2,159	7,372	10,144
Indiana.....	---	234	1,568	4,766	6,568
Iowa.....	3	284	1,179	3,765	5,231
Kansas.....	---	304	1,460	6,064	7,828
Kentucky.....	2	74	472	2,056	2,604
Louisiana.....	5	138	661	2,783	3,587
Maine.....	---	72	120	690	882
Maryland.....	---	15	33	637	685
Massachusetts.....	---	116	437	639	1,192
Michigan.....	9	231	1,549	3,967	5,756
Minnesota.....	1	180	940	4,030	5,151
Mississippi.....	---	129	688	2,050	2,867
Missouri.....	3	93	813	3,955	4,864
Montana.....	---	58	164	1,234	1,456
Nebraska.....	---	197	691	3,076	3,964
Nevada.....	---	17	26	246	289
New Hampshire.....	---	7	191	305	503
New Jersey.....	---	77	349	1,434	1,860
New Mexico.....	---	21	116	673	810
New York.....	---	198	588	2,488	3,274
North Carolina.....	---	109	551	4,088	4,748
North Dakota.....	3	178	561	3,882	4,624
Ohio.....	---	256	1,546	4,587	6,389
Oklahoma.....	---	136	655	3,648	4,439
Oregon.....	---	133	532	1,636	2,301
Pennsylvania.....	128	551	1,813	3,082	5,574
Rhode Island.....	---	6	58	64	128
South Carolina.....	1	186	754	2,103	3,044
South Dakota.....	---	98	342	1,697	2,137
Tennessee.....	---	103	584	2,664	3,351
Texas.....	81	95	182	12,086	12,444
Utah.....	1	15	138	854	1,008
Vermont.....	---	36	91	369	496
Virginia.....	---	88	651	1,371	2,110
Washington.....	---	93	558	2,203	2,854
West Virginia.....	---	112	367	1,376	1,855
Wisconsin.....	---	290	1,119	3,237	4,646
Wyoming.....	---	27	75	425	527
Puerto Rico.....	---	6	2	16	24
Unknown.....	---	---	---	---	---
Total.....	255	7,682	31,193	123,294	162,424

HIGHWAY SYSTEM CODES

CODE SYSTEM

01 Interstate  
03 Other Fed-Aid Non NHS

CODE SYSTEM

02 Other NHS  
08 Non Fed-Aid

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE, 1996

State	On-State	Off-State	Total
Alabama.....	243	3,336	3,579
Alaska.....	56	169	225
Arizona.....	52	889	941
Arkansas.....	539	2,693	3,232
California.....	324	7,601	7,925
Colorado.....	204	1,738	1,942
Connecticut.....	83	287	370
Delaware.....	253	34	287
Dist of Columbia	10	13	23
Florida.....	451	3,597	4,048
Georgia.....	716	5,435	6,151
Hawaii.....	---	6	6
Idaho.....	101	1,381	1,482
Illinois.....	1,276	8,868	10,144
Indiana.....	602	5,966	6,568
Iowa.....	289	4,942	5,231
Kansas.....	416	7,412	7,828
Kentucky.....	762	1,842	2,604
Louisiana.....	828	2,759	3,587
Maine.....	171	711	882
Maryland.....	114	571	685
Massachusetts....	45	1,147	1,192
Michigan.....	334	5,422	5,756
Minnesota.....	277	4,874	5,151
Mississippi.....	371	2,496	2,867
Missouri.....	705	4,159	4,864
Montana.....	217	1,239	1,456
Nebraska.....	303	3,661	3,964
Nevada.....	43	246	289
New Hampshire....	112	391	503
New Jersey.....	175	1,685	1,860
New Mexico.....	180	630	810
New York.....	346	2,928	3,274
North Carolina...	3,047	1,701	4,748
North Dakota....	219	4,405	4,624
Ohio.....	851	5,538	6,389
Oklahoma.....	345	4,094	4,439
Oregon.....	142	2,159	2,301
Pennsylvania....	1,785	3,789	5,574
Rhode Island....	46	82	128
South Carolina...	2,196	848	3,044
South Dakota....	146	1,991	2,137
Tennessee.....	296	3,055	3,351
Texas.....	2,021	10,423	12,444
Utah.....	108	901	1,009
Vermont.....	111	385	496
Virginia.....	1,412	698	2,110
Washington.....	157	2,697	2,854
West Virginia....	1,124	731	1,855
Wisconsin.....	357	4,289	4,646
Wyoming.....	72	455	527
Puerto Rico.....	19	5	24
Unknown.....	---	---	---
Total.....	25,052	137,374	162,426

TABLE 42. CROSSINGS BY FUNCTIONAL CLASSIFICATION OF ROAD, 1996

Rural	Crossings	Urban	Crossings
Interstate.....	37	Interstate.....	145
Other principal arterial	1, 188	Other freeway/expressway	364
Minor arterial.....	3, 713	Other principal arterial	5, 725
Major collector.....	11, 091	Minor arterial.....	10, 336
Minor collector.....	9, 282	Collector.....	10, 665
Local.....	73, 819	Local.....	36, 059
Total.....	99, 130	Total.....	63, 294

TABLE 43. TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND STATE, 1996

State	Number of Lanes						Total
	1	2	3	4	5	>5	
Alabama.....	679	2, 691	33	160	6	10	3, 579
Alaska.....	12	193	1	17	2	---	225
Arizona.....	11	759	15	107	25	24	941
Arkansas.....	702	2, 445	15	64	5	1	3, 232
California.....	405	5, 448	194	1, 524	148	206	7, 925
Colorado.....	168	1, 598	21	137	9	9	1, 942
Connecticut.....	5	330	16	17	2	---	370
Delaware.....	15	252	4	14	---	2	287
Dist of Columbia	---	16	2	2	1	2	23
Florida.....	160	3, 328	83	369	34	74	4, 048
Georgia.....	1, 168	4, 722	27	213	12	9	6, 151
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	251	1, 177	7	43	1	3	1, 482
Illinois.....	2, 025	7, 382	57	642	16	22	10, 144
Indiana.....	853	5, 346	57	280	18	14	6, 568
Iowa.....	608	4, 402	36	179	5	1	5, 231
Kansas.....	1, 852	5, 666	17	288	3	2	7, 828
Kentucky.....	809	1, 745	6	43	---	1	2, 604
Louisiana.....	532	2, 817	20	192	14	12	3, 587
Maine.....	44	820	2	15	1	---	882
Maryland.....	69	557	8	44	3	4	685
Massachusetts....	43	1, 084	8	56	1	---	1, 192
Michigan.....	347	4, 798	74	453	51	33	5, 756
Minnesota.....	855	4, 031	14	247	3	1	5, 151
Mississippi.....	361	2, 403	9	88	2	4	2, 867
Missouri.....	1, 205	3, 521	11	119	5	3	4, 864
Montana.....	143	1, 287	3	20	2	1	1, 456
Nebraska.....	851	3, 056	4	52	1	---	3, 964
Nevada.....	67	180	1	39	1	1	289
New Hampshire....	32	449	2	17	2	1	503
New Jersey.....	88	1, 621	15	129	1	6	1, 860
New Mexico.....	261	502	1	39	3	4	810
New York.....	304	2, 836	19	110	2	3	3, 274
North Carolina...	263	4, 246	35	184	11	9	4, 748
North Dakota....	1, 041	3, 558	1	23	1	---	4, 624
Ohio.....	650	5, 422	46	255	9	7	6, 389
Oklahoma.....	883	3, 296	6	249	2	3	4, 439
Oregon.....	265	1, 883	46	81	24	2	2, 301
Pennsylvania....	849	4, 403	118	176	2	26	5, 574
Rhode Island....	2	102	---	24	---	---	128
South Carolina...	318	2, 498	36	158	23	11	3, 044
South Dakota....	641	1, 450	---	39	4	3	2, 137
Tennessee.....	439	2, 693	31	151	31	6	3, 351
Texas.....	2, 109	9, 021	67	1, 079	64	104	12, 444
Utah.....	183	749	1	71	1	4	1, 009
Vermont.....	108	376	5	7	---	---	496
Virginia.....	25	1, 955	24	87	10	9	2, 110
Washington.....	251	2, 275	55	233	32	8	2, 854
West Virginia....	871	965	7	10	1	1	1, 855
Wisconsin.....	169	4, 224	8	225	1	19	4, 646
Wyoming.....	107	388	2	30	---	---	527
Puerto Rico.....	1	23	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---
Total.....	24, 100	126, 995	1, 270	8, 801	595	665	162, 426

TABLE 44. CROSSINGS BY NUMBER OF TRAFFIC LANES AND WARNING DEVICE, 1996

Warning device	1	2	3	4	5	>5	Total
Gates.....	865	25,199	492	3,628	306	323	30,813
Flashing lights.....	795	24,101	355	2,946	208	209	28,614
Hwy. signals, wigwags, bells	121	1,158	63	167	17	31	1,557
Special warning devices.....	311	3,850	108	362	26	26	4,683
Stop signs.....	1,756	8,920	29	119	2	6	10,832
Crossbucks.....	18,653	59,144	175	1,315	29	60	79,376
Other signs.....	123	365	2	11	---	---	501
No signs or signals.....	1,476	4,258	46	253	7	10	6,050
Total.....	24,100	126,995	1,270	8,801	595	665	162,426

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE, 1996

State	Warning Device Category								Total
	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Stop Signs	Cross-Bucks	Other Signs	No Signs or Signals	
Alabama.....	352	638	9	32	773	1,595	15	165	3,579
Alaska.....	46	35	---	7	26	102	---	9	225
Arizona.....	365	72	4	53	93	328	---	26	941
Arkansas.....	316	457	24	70	182	2,049	---	134	3,232
California.....	3,177	995	291	115	332	2,828	14	173	7,925
Colorado.....	376	249	36	56	254	904	3	64	1,942
Connecticut.....	99	140	5	24	50	33	---	19	370
Delaware.....	47	154	---	20	3	51	---	12	287
Dist of Columbia	---	4	2	12	2	1	---	2	23
Florida.....	2,112	635	13	96	156	964	7	65	4,048
Georgia.....	1,576	335	21	162	1,070	2,733	6	248	6,151
Hawaii.....	---	---	---	---	1	5	---	---	6
Idaho.....	113	190	6	6	561	575	---	31	1,482
Illinois.....	2,177	2,629	123	211	76	4,554	2	372	10,144
Indiana.....	1,208	1,636	96	177	826	2,492	7	126	6,568
Iowa.....	637	1,014	29	46	410	3,018	1	76	5,231
Kansas.....	921	696	59	198	233	5,581	2	138	7,828
Kentucky.....	388	803	13	55	50	1,154	---	141	2,604
Louisiana.....	484	691	32	40	238	1,864	14	224	3,587
Maine.....	71	388	---	80	18	325	---	---	882
Maryland.....	102	203	21	30	35	257	6	31	685
Massachusetts.....	197	462	30	212	5	232	3	51	1,192
Michigan.....	831	1,451	39	125	870	2,359	4	77	5,756
Minnesota.....	606	609	9	19	687	3,118	2	101	5,151
Mississippi.....	172	492	11	52	735	1,178	10	217	2,867
Missouri.....	491	995	69	94	136	2,842	1	236	4,864
Montana.....	179	165	5	11	99	971	---	26	1,456
Nebraska.....	562	305	12	14	269	2,688	---	114	3,964
Nevada.....	121	21	1	4	5	129	---	8	289
New Hampshire.....	31	146	11	108	50	133	7	17	503
New Jersey.....	411	654	17	236	19	399	2	122	1,860
New Mexico.....	198	94	5	9	12	466	5	21	810
New York.....	1,396	641	71	244	17	810	21	74	3,274
North Carolina.....	1,161	709	20	207	56	2,273	8	314	4,748
North Dakota.....	337	123	1	1	78	3,914	---	170	4,624
Ohio.....	1,939	1,230	33	76	167	2,865	5	74	6,389
Oklahoma.....	445	710	24	112	131	2,948	7	62	4,439
Oregon.....	560	136	43	90	435	872	44	121	2,301
Pennsylvania.....	749	1,286	108	650	142	1,905	275	459	5,574
Rhode Island.....	15	33	19	23	7	9	---	22	128
South Carolina.....	638	522	---	158	443	1,256	---	27	3,044
South Dakota.....	18	173	2	---	28	1,840	---	76	2,137
Tennessee.....	317	639	19	198	176	1,613	2	387	3,351
Texas.....	2,671	1,869	65	101	279	6,905	15	539	12,444
Utah.....	171	166	5	87	58	441	5	76	1,009
Vermont.....	27	196	3	44	25	199	---	2	496
Virginia.....	728	500	19	106	7	680	4	66	2,110
Washington.....	476	408	27	50	101	1,526	2	264	2,854
West Virginia.....	218	455	4	21	36	934	2	185	1,855
Wisconsin.....	466	1,335	96	122	338	2,223	---	66	4,646
Wyoming.....	111	124	4	1	32	235	---	20	527
Puerto Rico.....	4	1	1	18	---	---	---	---	24
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	30,813	28,614	1,557	4,683	10,832	79,376	501	6,050	162,426

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD, 1996

Railroad	Gates	Flashing Lights	Hwy. Sig.		Stop Signs	Cross- Bucks	Other Signs	No Signs Or Signal s		Total
			Wigwags Bells	Special				Signal s	Signal s	
ARR	Alaska Railroad Corporation	46	35	0	7	26	99	0	8	221
ALS	Alton & Southern Railroad	6	7	0	1	0	6	0	1	21
ATK	Amtrak (National Railroad Passenger Corpora	201	9	0	5	6	12	4	7	244
BAR	Bangor & Aroostook Railroad	4	89	0	8	11	53	0	0	165
BRC	Belt Railway Company Of Chicago	10	8	0	1	0	18	0	1	38
BLE	Bessemer & Lake Erie Railroad Company	37	29	0	2	0	70	0	2	140
BS	Birmingham Southern Railroad Company	3	22	0	0	5	15	0	1	46
BNSF	Burlington Northern Santa Fe	4,719	3,269	151	498	1,118	14,709	20	460	24,944
CC	Chicago, Central & Pacific Railroad Company	69	266	10	30	40	451	0	24	890
CR	Consolidated Rail Corporation	2,973	3,210	166	1,017	425	3,548	257	690	12,286
CSX	CSX Transportation	4,802	3,784	77	508	1,438	6,472	22	714	17,817
DME	Dakota, Minnesota & Eastern Railroad	14	106	3	0	48	602	0	30	803
DH	Delaware & Hudson Railway Company	143	83	3	1	3	71	5	2	311
DRGW	Denver & Rio Grande Western Railroad Compan	154	140	4	16	85	358	3	24	784
DMLR	Duluth, Missabe & Iron Range Railway Compan	10	20	0	2	32	74	2	0	140
DWP	Duluth, Winipeg & Pacific Railway	12	10	0	1	15	43	0	0	81
EJE	Elgin, Joliet & Eastern Railway Company	80	63	2	9	4	31	0	0	189
FEC	Florida East Coast Railway Company	603	30	0	27	3	46	0	9	718
GWR	Gateway Western Railway	8	47	20	0	7	142	0	4	228
GTW	Grand Trunk Western Railroad Incorporated	374	211	4	37	193	87	0	2	908
GRS	Guilford Rail System	238	390	18	220	45	357	4	48	1,320
HBT	Houston Belt & Terminal Railway Company	58	28	1	0	2	53	0	15	157
IC	Illinois Central Railroad Company	406	579	16	60	363	1,000	4	169	2,597
IHB	Indiana Harbor Belt Railroad Company	25	22	0	16	0	10	0	3	76
KCS	Kansas City Southern Railway Company	248	499	4	3	217	1,718	4	158	2,851
LI	Long Island Rail Road	298	0	0	0	0	6	0	0	304
MNCW	Metro North Commuter Railroad Company	19	35	1	1	0	3	0	3	62
MRL	Montana Rail Link	60	62	1	0	46	253	0	6	428
NJTR	New Jersey Transit Rail Operations	218	80	1	10	1	29	0	7	346
NS	Norfolk Southern Corporation	3,857	2,936	76	485	1,535	7,162	11	755	16,817
NIRC	Northeast Illinois Regional Comuter Rail Co	53	5	1	1	1	0	0	1	62
NICD	Northern Indiana Commuter Transportation Di	41	37	7	0	27	1	0	0	113
PAL	Paducah & Louisville Railway Company	20	103	3	0	10	118	0	3	257
S00	Soo Line Railroad Company	515	576	25	48	359	2,530	1	197	4,251
SEPA	Southeastern Pennsylvania Transportation Au	50	77	21	19	17	32	2	45	263
SP	Southern Pacific Transportation Company	2,715	862	214	34	358	2,951	10	359	7,503
SSWN	Southern Pacific, Chicago-St. Louis Corpora	108	86	2	11	0	57	0	3	267
SSW	St. Louis Southwestern Railway Company	304	252	8	10	121	1,206	0	108	2,009
TRRA	Terminal Railroad Association Of St. Louis	45	14	0	56	3	20	0	3	141
UP	Union Pacific Railroad Company	3,900	3,445	199	246	1,215	11,573	25	876	21,479
URR	Union Railroad Company (Pittsburgh)	3	1	10	0	0	0	0	0	14
WE	Wheeling & Lake Erie Railway Company	90	148	3	2	23	290	0	10	566
WC	Wisconsin Central Ltd. (also Railway)	153	500	13	18	159	1,043	0	16	1,902
	All Other Railroads	3,121	6,439	493	1,273	2,871	22,057	127	1,286	37,667
	FINAL TOTALS	30,813	28,614	1,557	4,683	10,832	79,376	501	6,050	162,426



TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE, 1996

State	Stop Lines	RR X-ing Symbol	Both	None.....		Total
				Paved	Unpaved	
Alabama.....	45	502	424	1,960	648	3,579
Alaska.....	8	9	55	65	88	225
Arizona.....	25	27	413	246	230	941
Arkansas.....	58	109	333	1,603	1,129	3,232
California.....	967	199	4,745	1,718	296	7,925
Colorado.....	20	22	383	829	688	1,942
Connecticut.....	12	13	254	90	1	370
Delaware.....	43	29	90	122	3	287
Dist of Columbia.	---	---	9	14	---	23
Florida.....	265	374	1,827	1,140	442	4,048
Georgia.....	64	112	2,789	1,639	1,546	6,150
Hawaii.....	2	---	---	4	---	6
Idaho.....	9	5	267	656	545	1,482
Illinois.....	78	171	1,258	4,284	4,353	10,144
Indiana.....	77	261	1,364	4,007	859	6,568
Iowa.....	53	153	539	1,982	2,504	5,231
Kansas.....	7	24	904	2,030	4,863	7,828
Kentucky.....	49	325	733	889	608	2,604
Louisiana.....	52	190	619	1,887	839	3,587
Maine.....	3	3	569	228	79	882
Maryland.....	10	25	253	355	42	685
Massachusetts....	55	45	125	933	34	1,192
Michigan.....	70	277	1,357	2,629	1,423	5,756
Minnesota.....	126	177	493	1,808	2,547	5,151
Mississippi.....	28	54	499	1,481	805	2,867
Missouri.....	65	110	561	2,066	2,062	4,864
Montana.....	5	32	158	352	909	1,456
Nebraska.....	36	314	189	941	2,484	3,964
Nevada.....	11	11	129	54	84	289
New Hampshire....	10	28	59	354	52	503
New Jersey.....	38	229	261	1,244	88	1,860
New Mexico.....	5	29	47	338	391	810
New York.....	126	216	453	2,202	277	3,274
North Carolina...	46	32	3,534	546	590	4,748
North Dakota.....	17	29	137	595	3,846	4,624
Ohio.....	213	636	3,562	1,638	340	6,389
Oklahoma.....	31	92	423	1,976	1,917	4,439
Oregon.....	348	884	151	489	429	2,301
Pennsylvania.....	67	353	162	4,386	606	5,574
Rhode Island.....	---	---	80	48	---	128
South Carolina...	91	109	1,199	1,250	395	3,044
South Dakota.....	30	12	132	540	1,423	2,137
Tennessee.....	20	115	914	1,777	525	3,351
Texas.....	11	18	6,312	3,003	3,100	12,444
Utah.....	22	33	195	534	224	1,008
Vermont.....	36	10	88	214	148	496
Virginia.....	93	150	942	700	225	2,110
Washington.....	122	68	546	1,554	564	2,854
West Virginia....	18	11	84	1,149	593	1,855
Wisconsin.....	68	28	771	3,298	481	4,646
Wyoming.....	7	21	53	157	289	527
Puerto Rico.....	3	7	---	12	2	24
Unknown.....	---	---	---	---	---	---
Total.....	3,665	6,683	41,444	64,016	46,616	162,424

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, 1996

State	Yes	No	Total
Alabama.....	1,722	1,857	3,579
Alaska.....	150	75	225
Arizona.....	582	359	941
Arkansas.....	911	2,321	3,232
California.....	6,387	1,538	7,925
Colorado.....	1,123	819	1,942
Connecticut.....	326	44	370
Delaware.....	242	45	287
Dist of Columbia.....	6	17	23
Florida.....	2,533	1,515	4,048
Georgia.....	3,176	2,975	6,151
Hawaii.....	1	5	6
Idaho.....	882	600	1,482
Illinois.....	5,259	4,885	10,144
Indiana.....	5,654	914	6,568
Iowa.....	3,586	1,645	5,231
Kansas.....	4,271	3,557	7,828
Kentucky.....	1,515	1,089	2,604
Louisiana.....	2,393	1,194	3,587
Maine.....	870	12	882
Maryland.....	445	240	685
Massachusetts.....	882	310	1,192
Michigan.....	4,707	1,049	5,756
Minnesota.....	3,403	1,748	5,151
Mississippi.....	845	2,022	2,867
Missouri.....	1,448	3,416	4,864
Montana.....	997	459	1,456
Nebraska.....	2,924	1,040	3,964
Nevada.....	225	64	289
New Hampshire.....	297	206	503
New Jersey.....	962	898	1,860
New Mexico.....	179	631	810
New York.....	2,593	681	3,274
North Carolina.....	3,692	1,056	4,748
North Dakota.....	1,703	2,921	4,624
Ohio.....	5,166	1,223	6,389
Oklahoma.....	1,720	2,719	4,439
Oregon.....	1,005	1,296	2,301
Pennsylvania.....	2,069	3,505	5,574
Rhode Island.....	81	47	128
South Carolina.....	2,270	774	3,044
South Dakota.....	1,407	730	2,137
Tennessee.....	2,079	1,272	3,351
Texas.....	9,882	2,562	12,444
Utah.....	591	418	1,009
Vermont.....	409	87	496
Virginia.....	1,629	481	2,110
Washington.....	2,061	793	2,854
West Virginia.....	454	1,401	1,855
Wisconsin.....	3,244	1,402	4,646
Wyoming.....	291	236	527
Puerto Rico.....	17	7	24
Unknown.....	---	---	---
Total.....	101,266	61,160	162,426

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, 1996

State	Active Warning	X-buck meet standards		Total
		Yes	No	
Alabama.....	999	1,933	647	3,579
Alaska.....	81	106	38	225
Arizona.....	441	392	108	941
Arkansas.....	797	1,733	702	3,232
California.....	4,463	1,590	1,872	7,925
Colorado.....	661	1,035	246	1,942
Connecticut.....	244	88	38	370
Delaware.....	201	60	26	287
Dist of Columbia.....	6	12	5	23
Florida.....	2,760	935	353	4,048
Georgia.....	1,932	3,553	666	6,151
Hawaii.....	---	4	2	6
Idaho.....	309	991	182	1,482
Illinois.....	4,929	4,104	1,111	10,144
Indiana.....	2,940	3,054	574	6,568
Iowa.....	1,680	2,728	823	5,231
Kansas.....	1,676	2,866	3,286	7,828
Kentucky.....	1,204	1,100	300	2,604
Louisiana.....	1,207	1,915	465	3,587
Maine.....	459	410	13	882
Maryland.....	326	190	169	685
Massachusetts.....	689	296	207	1,192
Michigan.....	2,321	3,101	334	5,756
Minnesota.....	1,224	3,628	299	5,151
Mississippi.....	675	1,449	743	2,867
Missouri.....	1,555	1,772	1,537	4,864
Montana.....	349	824	283	1,456
Nebraska.....	879	2,703	382	3,964
Nevada.....	143	93	53	289
New Hampshire.....	188	210	105	503
New Jersey.....	1,082	323	455	1,860
New Mexico.....	297	289	224	810
New York.....	2,108	824	342	3,274
North Carolina.....	1,890	1,627	1,231	4,748
North Dakota.....	461	2,850	1,313	4,624
Ohio.....	3,202	2,364	823	6,389
Oklahoma.....	1,179	2,208	1,052	4,439
Oregon.....	739	1,075	487	2,301
Pennsylvania.....	2,143	1,240	2,191	5,574
Rhode Island.....	67	2	59	128
South Carolina.....	1,160	1,774	110	3,044
South Dakota.....	193	1,762	182	2,137
Tennessee.....	975	1,149	1,227	3,351
Texas.....	4,605	3,850	3,989	12,444
Utah.....	342	469	198	1,009
Vermont.....	226	254	16	496
Virginia.....	1,247	596	267	2,110
Washington.....	911	1,125	818	2,854
West Virginia.....	677	696	482	1,855
Wisconsin.....	1,897	2,407	342	4,646
Wyoming.....	239	182	106	527
Puerto Rico.....	6	6	12	24
Unknown.....	---	---	---	---
Total.....	60,984	69,947	31,495	162,426

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, 1996

Trains	Crossings
<1	24,521
1-5	68,962
6-10	26,925
11-15	11,722
16-20	10,701
21-25	6,519
26-30	3,958
31-35	2,449
36-40	1,544
41-45	751
46-50	854
51-55	855
56-60	950
61-65	347
66-70	213
71-75	275
76-80	283
81-85	50
86-90	23
91-95	168
96-100	56
>100	300
Total	162,426

TABLE 51. TOTAL CROSSINGS BY NUMBER OF THRU TRAINS AND SWITCHING TRAINS PER DAY, 1996

Switching Trains	Through trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	24,521	24,115	10,857	10,966	5,087	4,867	2,959	4,307	87,679
1-2	16,829	9,059	5,831	6,367	2,394	2,774	971	3,040	47,265
2-3	5,387	1,527	2,077	2,628	1,514	892	326	1,603	15,954
6-10	2,404	698	724	1,308	686	798	365	800	7,783
11-15	393	107	110	229	105	74	74	674	1,766
16-20	417	99	85	126	139	72	89	91	1,118
21-25	98	25	22	37	34	17	23	41	297
>25	177	53	37	68	62	44	31	92	564
Total	50,226	35,683	19,743	21,729	10,021	9,538	4,838	10,648	162,426

TABLE 52. TOTAL CROSSINGS BY NUMBER OF DAY AND NIGHT TRAINS PER DAY, 1996

Day Trains	Night trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	24,521	6,322	880	162	6	8	4	5	31,908
1-2	25,663	25,363	2,676	345	21	10	1	3	54,082
2-3	4,357	8,971	15,092	1,732	134	35	36	2	30,359
6-10	1,390	1,903	5,733	14,121	1,635	91	38	15	24,926
11-15	198	225	630	3,324	5,541	548	25	20	10,511
16-20	98	37	181	795	1,225	2,059	181	36	4,612
21-25	17	29	10	228	496	299	736	169	1,984
>25	69	12	56	142	272	291	794	2,408	4,044
Total	56,313	42,862	25,258	20,849	9,330	3,341	1,815	2,658	162,426

TABLE 53. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE, 1996

Warning device	Number of Trains Per Day								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
Gates.....	1,075	2,638	3,357	5,524	3,661	4,225	3,239	7,094	30,813
Flashing lights.....	3,275	6,918	5,269	6,176	2,467	2,059	963	1,487	28,614
Hwy. signals, wigwags, bells	214	393	283	274	127	94	38	134	1,557
Special warning devices.....	1,812	1,538	555	387	119	108	37	127	4,683
Stop signs.....	925	2,778	2,118	2,154	717	845	385	910	10,832
Crossbucks.....	14,930	26,319	13,822	11,745	4,411	3,223	1,791	3,135	79,376
Other signs.....	150	167	81	56	12	16	1	18	501
No signs or signals.....	2,140	1,963	763	609	208	131	65	171	6,050
Total.....	24,521	42,714	26,248	26,925	11,722	10,701	6,519	13,076	162,426

TABLE 54. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC, 1996

Trains	Average annual daily traffic							Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	>10,000		
<1	10,430	2,922	2,766	5,420	1,780	1,203	24,521	
1-2	20,768	4,994	4,577	8,239	2,435	1,701	42,714	
2-3	11,725	3,186	2,903	5,412	1,680	1,342	26,248	
6-10	11,744	3,290	3,134	5,728	1,713	1,316	26,925	
11-15	5,092	1,307	1,297	2,666	754	606	11,722	
16-20	4,390	1,283	1,276	2,412	804	536	10,701	
21-25	2,586	735	748	1,565	487	398	6,519	
>25	5,318	1,377	1,375	2,965	1,122	919	13,076	
Total	72,053	19,094	18,076	34,407	10,775	8,021	162,426	

TABLE 55. CROSSINGS BY MAXIMUM TIMETABLE SPEED, 1996

Timetable Speed	Crossings
1-5	5,189
6-10	29,917
11-15	8,277
16-20	12,642
21-25	21,115
26-30	15,582
31-35	9,885
36-40	16,911
41-45	3,325
46-50	13,532
51-55	3,046
56-60	10,638
61-65	1,147
66-70	4,488
71-75	639
76-80	5,568
81-85	1
86-90	466
91-95	1
96-100	8
>100	49
Total	162,426

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION, 1996

Speed Variation	Crossings
<1	13,474
1-5	41,150
6-10	35,733
11-15	17,079
16-20	16,468
21-25	9,902
26-30	8,809
31-35	4,661
36-40	4,443
41-45	2,365
46-50	3,292
51-55	784
56-60	1,939
61-65	656
66-70	346
71-75	580
76-80	682
81-85	9
86-90	2
91-95	---
96-100	---
>100	52
Total	162,426

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC, 1996

AADT	Crossings
1-100	50,443
101-200	15,039
201-300	11,402
301-400	7,228
401-500	7,035
501-600	4,551
601-700	3,474
701-800	3,889
801-900	2,597
901-1,000	3,565
1,001-2,000	15,724
2,001-3,000	8,637
3,001-4,000	5,413
4,001-5,000	4,633
5,001-6,000	3,002
6,001-7,000	2,291
7,001-8,000	2,189
8,001-9,000	1,591
9,001-10,000	1,702
10,001-20,000	6,072
>20,000	1,949
Total	162,426

TABLE 58. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY, 1996

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.....	4,430	3,301	4,079	10,914	4,347	3,742	30,813
Flashing lights.....	3,956	3,355	4,341	10,574	3,634	2,754	28,614
Hwy. signals, wigwags, bells	404	176	194	423	186	174	1,557
Special warning devices.....	961	587	624	1,540	551	420	4,683
Stop signs.....	6,410	1,736	1,215	1,269	143	59	10,832
Crossbucks.....	52,586	9,084	6,885	8,481	1,606	734	79,376
Other signs.....	205	88	81	97	22	8	501
No signs or signals.....	3,101	767	657	1,109	286	130	6,050
Total.....	72,053	19,094	18,076	34,407	10,775	8,021	162,426

TABLE 59. TOTAL CROSSINGS BY TRUCK TRAFFIC AS A PERCENTAGE OF ANNUAL AVERAGE DAILY TRAFFIC, 1996

%	Crossings
<1	5,832
1-5	74,592
6-10	48,943
11-15	15,286
16-20	8,198
21-25	2,084
26-30	4,550
31-35	490
36-40	959
41-45	102
46-50	898
51-55	19
56-60	160
61-65	9
66-70	49
71-75	105
76-80	70
81-85	10
86-90	47
91-95	6
96-99	17
Total	162,426

TABLE 60. PUBLIC CROSSINGS BY CROSSING SURFACE, 1996

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	124	160	2,997	7	1	51	1	1	235	2
Alaska	11	92	52	6	0	59	0	0	1	4
Ari zona	175	185	381	4	1	132	0	0	61	2
Arkansas	920	210	1,379	198	8	9	2	2	499	5
Cal ifornia	795	1,226	5,386	167	30	145	0	0	128	48
Colorado	834	219	503	84	1	169	4	6	120	2
Connecticut	109	0	115	2	0	142	2	0	0	0
Del aware	3	0	216	19	1	47	0	0	1	0
Dist Of Columbia	6	4	10	0	1	2	0	0	0	0
Florida	1,196	50	2,063	304	33	241	9	1	111	40
Georgi a	121	122	5,371	15	18	16	1	1	482	3
Hawai i	0	0	6	0	0	0	0	0	0	0
Idaho	276	619	398	95	0	31	0	0	56	7
Ill inois	1,831	1,505	4,729	72	39	871	7	7	1,064	19
Indiana	804	98	5,022	28	13	389	9	0	200	5
Iowa	118	1,201	2,138	13	10	340	1	2	1,306	102
Kansas	2,295	2,236	1,076	166	38	126	7	1	1,867	16
Kentucky	297	306	1,440	1	6	87	1	3	463	0
Loui siana	673	475	1,431	200	8	437	1	4	357	1
Main e	53	215	598	0	0	9	0	0	7	0
Maryl and	196	70	332	1	5	63	0	0	15	3
Massachusetts	64	29	992	8	0	84	0	0	15	0
Mi chi gan	1,384	419	3,016	11	11	438	90	1	368	18
Mi nnesota	261	2,545	1,721	19	10	298	1	1	283	12
Mi ssi ssi ppi	153	294	1,527	45	3	181	2	1	658	3
Mi sso uri	1,506	750	1,598	23	3	80	2	1	883	18
Montana	25	1,107	208	29	2	72	0	3	7	3
Nebraska	830	727	636	165	40	54	2	1	1,495	14
Nevada	19	59	65	66	0	44	1	0	20	15
New Hampshi re	12	57	419	1	0	7	0	0	6	1
New Jersey	153	8	1,428	13	16	84	0	57	66	35
New Mexi co	444	184	49	1	2	34	0	0	96	0
New York	416	156	2,283	8	15	287	0	2	91	16
North Carol ina	22	47	4,340	5	12	32	1	0	283	6
North Dakota	126	3,546	476	19	2	39	0	2	410	4
Ohi o	1,069	72	4,774	16	12	291	1	2	117	35
Okl ahoma	1,745	597	922	182	15	53	0	5	895	25
Oregon	472	118	1,314	25	23	60	0	0	41	248
Pennsylvani a	944	77	3,776	60	240	101	1	16	355	4
Rhode Isl and	1	1	79	0	10	36	0	1	0	0
South Carol ina	18	1	2,923	21	2	10	0	1	64	4
South Dakota	13	1,424	444	1	1	118	0	0	86	50
Tennessee	105	236	2,677	5	4	107	3	0	208	6
Texas	4,673	1,221	3,993	535	106	306	5	14	1,555	36
Utah	219	230	382	51	5	29	3	2	83	4
Vermont	34	43	331	0	1	11	0	0	75	1
Vir gi ni a	226	54	1,660	3	2	19	4	8	118	16
Washi ngton	120	1,134	1,297	84	12	174	0	0	30	3
West Vir gi ni a	789	10	713	2	3	19	0	1	315	3
Wi sconsi n	53	345	3,625	26	14	358	0	1	223	1
Wyomi ng	40	197	137	2	1	29	0	0	115	6
FINAL TOTALS	26,773	24,681	83,470	2,808	780	6,821	161	148	15,936	846



TABLE 61. TOTAL CROSSINGS BY MAXIMUM TIME TABLE SPEED,  
WARNING DEVICE CATEGORY AND NUMBER OF TRACKS, 1996

SINGLE TRACK WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	1364	1844	2662	2546	2165	2000	1188	1166	66	4	1	0	15006
FLASHING LIGHTS.....	4520	3028	5358	3611	2300	1512	299	342	14	0	0	0	20984
HWY. SIGNALS, WIGWAGS, BELLS	371	171	194	122	51	53	11	8	1	0	1	0	983
SPECIAL WARNING DEVICES.....	2266	528	252	80	58	27	12	21	12	2	0	0	3258
STOP SIGNS.....	1200	827	1860	1648	1025	822	250	348	3	0	0	0	7983
CROSSBUCKS.....	12713	6969	16529	11528	6015	4520	885	1149	137	0	1	0	60446
OTHER SIGNS.....	176	93	59	15	12	0	3	3	0	0	0	0	361
NO SIGNS OR SIGNALS.....	2421	901	701	295	118	101	35	29	1	0	0	0	4602
TOTAL.....	25031	14361	27615	19845	11744	9035	2683	3066	234	6	3	0	113623
MULTIPLE TRACKS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	998	1530	2376	2401	2277	2259	1863	1976	123	2	2	0	15807
FLASHING LIGHTS.....	1727	1135	1722	1276	798	630	168	168	6	0	0	0	7630
HWY. SIGNALS, WIGWAGS, BELLS	162	111	120	71	33	30	27	16	4	0	0	0	574
SPECIAL WARNING DEVICES.....	931	232	141	46	26	27	6	12	3	1	0	0	1425
STOP SIGNS.....	500	361	500	455	334	294	183	219	3	0	0	0	2849
CROSSBUCKS.....	4948	2842	4056	2623	1584	1368	688	727	94	0	0	0	18930
OTHER SIGNS.....	53	32	22	16	15	1	1	0	0	0	0	0	140
NO SIGNS OR SIGNALS.....	800	315	145	63	46	40	16	23	0	0	0	0	1448
TOTAL.....	10119	6558	9082	6951	5113	4649	2952	3141	233	3	2	0	48803
ALL CROSSINGS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	2362	3374	5038	4947	4442	4259	3051	3142	189	6	3	0	30813
FLASHING LIGHTS.....	6247	4163	7080	4887	3098	2142	467	510	20	0	0	0	28614
HWY. SIGNALS, WIGWAGS, BELLS	533	282	314	193	84	83	38	24	5	0	1	0	1557
SPECIAL WARNING DEVICES.....	3197	760	393	126	84	54	18	33	15	3	0	0	4683
STOP SIGNS.....	1700	1188	2360	2103	1359	1116	433	567	6	0	0	0	10832
CROSSBUCKS.....	17661	9811	20585	14151	7599	5888	1573	1876	231	0	1	0	79376
OTHER SIGNS.....	229	125	81	31	27	1	4	3	0	0	0	0	501
NO SIGNS OR SIGNALS.....	3221	1216	846	358	164	141	51	52	1	0	0	0	6050
TOTAL.....	35150	20919	36697	26796	16857	13684	5635	6207	467	9	5	0	162426

( 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, 1996

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	8	1	2	---	---	---	5	---	---	1	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	3	---	2	---	---	---	1	---	---	1	---	---
Arkansas.....	11	---	3	---	---	---	2	---	---	1	---	---
California.....	19	3	7	4	1	2	5	---	---	1	---	---
Colorado.....	7	3	1	---	---	---	---	---	---	1	---	1
Connecticut.....	---	---	---	2	---	---	---	---	---	1	---	---
Delaware.....	---	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	7	2	2	1	---	1	---	---	---	1	---	---
Georgia.....	13	1	6	---	---	---	4	---	1	1	---	---
Idaho.....	2	---	1	---	---	---	---	---	---	4	---	---
Illinois.....	8	2	3	2	---	---	8	---	2	4	---	---
Indiana.....	9	---	4	---	---	---	2	---	1	1	---	---
Iowa.....	5	1	2	---	---	---	3	---	1	---	---	---
Kansas.....	9	---	1	---	---	---	1	---	---	1	---	---
Kentucky.....	7	---	4	---	---	---	1	---	---	---	---	---
Louisiana.....	13	1	4	---	---	---	1	---	---	2	1	---
Maine.....	1	---	1	---	---	---	1	---	---	---	---	---
Maryland.....	---	---	---	---	---	---	1	---	---	---	---	---
Massachusetts....	1	---	---	---	---	---	---	---	---	2	---	---
Michigan.....	5	---	---	---	---	---	1	---	---	---	---	---
Minnesota.....	11	1	1	3	---	1	1	---	---	6	---	1
Mississippi.....	3	---	1	2	---	---	3	---	4	2	---	---
Missouri.....	17	2	4	1	---	---	---	---	---	1	---	---
Montana.....	8	1	3	---	---	---	2	---	---	---	---	---
Nebraska.....	7	1	1	---	---	---	---	---	---	1	---	---
Nevada.....	1	---	1	---	---	---	---	---	---	---	---	---
New Hampshire....	1	1	---	---	---	---	---	---	---	---	---	---
New Jersey.....	1	---	6	---	---	---	1	---	---	2	---	1
New Mexico.....	3	---	---	---	---	---	---	---	---	---	---	---
New York.....	3	---	1	1	---	---	1	---	---	---	---	---
North Carolina...	8	---	6	1	---	2	---	---	---	1	---	---
North Dakota.....	2	---	1	1	---	1	---	---	---	---	---	---
Ohio.....	9	1	---	---	---	---	2	---	---	---	---	---
Oklahoma.....	4	---	3	---	---	---	---	---	---	---	---	---
Oregon.....	6	---	---	---	---	---	1	---	---	8	---	---
Pennsylvania....	3	---	1	1	---	---	1	---	---	3	---	1
Rhode Island....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	3	---	---	1	1	---	---	---	---	---	---	---
South Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	4	1	---	---	---	---	4	---	---	2	---	---
Texas.....	33	11	10	2	---	---	5	---	2	1	---	1
Utah.....	3	---	1	---	---	---	1	---	---	---	---	---
Vermont.....	1	---	---	1	---	2	1	---	---	---	---	---
Virginia.....	13	---	3	---	---	---	2	---	---	4	---	1
Washington.....	8	---	1	1	---	---	4	---	1	4	---	---
West Virginia....	4	---	1	---	---	---	---	---	---	1	---	---
Wisconsin.....	3	---	---	---	---	---	2	---	1	1	---	---
Wyoming.....	4	2	1	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	291	35	89	24	2	9	67	---	13	60	1	6

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

TABLE 63. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS,  
BY STATE AND WARNING DEVICE, 1996

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	1	---	1	3	4	---	5	14
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	1	3	---	1	5
Arkansas.....	---	---	---	1	6	3	1	3	14
California.....	1	---	2	2	6	11	1	6	29
Colorado.....	---	---	---	1	3	3	---	1	8
Connecticut.....	---	---	---	---	1	2	---	---	3
Delaware.....	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	---	---	---	1	7	1	---	---	9
Georgia.....	---	1	---	3	8	2	1	3	18
Idaho.....	---	---	---	1	1	3	---	1	6
Illinois.....	---	4	---	2	5	3	1	7	22
Indiana.....	---	1	---	1	5	2	---	3	12
Iowa.....	---	1	---	---	3	2	---	2	8
Kansas.....	---	---	---	---	6	1	---	4	11
Kentucky.....	1	---	---	---	6	---	---	1	8
Louisiana.....	---	1	---	---	8	3	---	4	16
Maine.....	---	---	---	---	1	1	---	---	2
Maryland.....	---	---	---	---	---	---	---	1	1
Massachusetts.....	---	---	---	---	2	1	---	---	3
Michigan.....	---	---	---	---	2	1	1	2	6
Minnesota.....	---	2	---	---	2	10	1	6	21
Mississippi.....	---	---	1	2	6	1	---	---	10
Missouri.....	1	2	---	---	9	4	---	3	19
Montana.....	---	---	---	---	3	5	---	2	10
Nebraska.....	---	---	---	1	1	3	---	3	8
Nevada.....	---	---	---	---	1	---	---	---	1
New Hampshire.....	---	---	---	---	---	---	---	1	1
New Jersey.....	---	---	---	---	1	---	---	3	4
New Mexico.....	---	---	---	---	2	---	---	1	3
New York.....	---	---	---	---	1	1	---	3	5
North Carolina...	---	1	---	2	5	---	---	2	10
North Dakota.....	---	---	---	---	3	---	---	---	3
Ohio.....	---	---	1	1	4	1	---	4	11
Oklahoma.....	---	1	---	---	1	2	---	---	4
Oregon.....	---	---	---	1	2	10	---	2	15
Pennsylvania.....	---	1	---	---	1	1	---	5	8
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	---	---	---	1	2	1	---	---	4
South Dakota.....	---	---	---	---	---	---	---	---	---
Tennessee.....	---	---	---	1	3	2	---	4	10
Texas.....	2	---	---	1	14	20	1	3	41
Utah.....	---	---	---	---	---	3	---	1	4
Vermont.....	---	---	---	---	---	2	---	1	3
Virginia.....	---	---	---	1	7	3	---	8	19
Washington.....	---	1	---	1	4	9	---	2	17
West Virginia....	---	---	---	---	4	---	---	1	5
Wisconsin.....	---	---	---	---	---	4	1	1	6
Wyoming.....	---	---	---	---	---	4	---	1	5
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	5	17	4	25	150	132	8	101	442

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

TABLE 64. ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,  
BY HIGHWAY USER, 1996

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	184	39.23	25	64.10	60	48.39	22	39
Truck.....	147	31.34	9	23.08	36	29.03	8	28
Truck-trailer....	108	23.03	3	7.69	21	16.94	2	18
Bus.....	1	.21	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	2	.43	1	2.56	---	---	1	---
Pedestrian.....	---	---	---	---	---	---	---	---
Other.....	27	5.76	1	2.56	7	5.65	1	6
<b>Total.....</b>	<b>469</b>	<b>100.00</b>	<b>39</b>	<b>100.00</b>	<b>124</b>	<b>100.00</b>	<b>34</b>	<b>91</b>

TABLE 65. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,  
BY WARNING DEVICE CATEGORY AND MOTORIST ACTION, 1996

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.....	2	---	---	---	---	---	---	---	---	3	---	---	---	---	---	5	---	---
Cantilever flshrs	---	---	---	---	---	---	1	---	1	1	---	---	1	---	1	3	---	2
Standard flashers	---	---	---	1	---	---	7	---	2	6	---	---	---	---	---	14	---	2
Hwy Sig, W W, Bells	---	---	---	---	---	---	2	---	4	2	---	---	---	---	---	4	---	4
Special Devices..	---	---	---	1	---	1	18	---	4	6	---	1	---	---	---	25	---	6
Crossbucks.....	---	---	---	9	---	6	88	14	28	50	1	6	3	---	3	150	15	43
Stopsigns.....	---	---	---	15	1	4	75	10	33	39	5	1	3	---	---	132	16	38
Other Signs.....	---	---	---	1	---	---	6	---	---	1	---	---	---	---	---	8	---	---
No Signs Or Signl	---	---	---	13	---	---	54	6	18	33	1	4	1	---	---	101	7	22
<b>Total.....</b>	<b>2</b>	<b>---</b>	<b>---</b>	<b>40</b>	<b>1</b>	<b>11</b>	<b>251</b>	<b>30</b>	<b>90</b>	<b>141</b>	<b>7</b>	<b>12</b>	<b>8</b>	<b>---</b>	<b>4</b>	<b>442</b>	<b>38</b>	<b>117</b>

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

TABLE 66. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,  
BY SPEED OF VEHICLE, CIRCUMSTANCE AND VISIBILITY, 1996

Speed Of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj	A/I	Kl d	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	3	---	---	82	2	7	8	---	2	47	4	3	140	6	12
1-9.....	7	2	2	113	12	43	7	---	3	19	---	2	146	14	50
10-19.....	2	---	---	52	6	16	---	---	---	11	1	6	65	7	22
20-29.....	---	---	---	7	1	9	1	---	---	2	---	---	10	1	9
30-39.....	---	---	---	2	1	1	1	1	---	2	3	---	5	5	1
40-49.....	---	---	---	2	---	2	---	---	---	---	---	---	2	---	2
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60 and over.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Unknown.....	1	---	---	11	1	2	---	---	---	7	---	3	19	1	5
Total.....	13	2	2	269	23	80	17	1	5	89	8	14	388	34	101
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	2	---	---	17	1	7	---	---	---	3	---	---	22	1	7
10-19.....	1	---	---	8	1	---	1	---	---	2	---	---	12	1	---
20-29.....	---	---	---	5	---	1	---	---	---	7	1	4	12	1	5
30-39.....	---	---	---	2	1	1	---	---	---	1	---	2	3	1	3
40-49.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	1	---	---	---	---	---	3	---	1	4	---	1
Total.....	3	---	---	34	3	9	1	---	---	16	1	7	54	4	16
GRAND TOTAL															
Standing.....	3	---	---	82	2	7	8	---	2	47	4	3	140	6	12
1-9.....	9	2	2	130	13	50	7	---	3	22	---	2	168	15	57
10-19.....	3	---	---	60	7	16	1	---	---	13	1	6	77	8	22
20-29.....	---	---	---	12	1	10	1	---	---	9	1	4	22	2	14
30-39.....	---	---	---	4	2	2	1	1	---	3	3	2	8	6	4
40-49.....	---	---	---	3	---	2	---	---	---	---	---	---	3	---	2
50-59.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60 and over.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Unknown.....	1	---	---	12	1	2	---	---	---	10	---	4	23	1	6
Total.....	16	2	2	303	26	89	18	1	5	105	9	21	442	38	117

TABLE 67. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS,  
BY RAILROAD AND WARNING DEVICE, 1996

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags 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.)	---	---	---	---	7	5	---	4	16
Bangor And Aroostook Railroad	---	---	---	---	1	1	---	---	2
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	2	2
Burlington Northern Santa Fe	1	5	---	4	35	38	1	15	99
Chicago, Central & Pacific Railroad Co.	---	1	---	---	1	---	---	---	2
Consolidated Rail Corp.	---	1	---	2	5	1	---	14	23
CSX Transp.	---	---	---	1	26	2	---	6	35
Dakota, Minnesota & Eastern Railroad	---	---	---	---	---	1	---	---	1
Delaware And Hudson Railroad Co.	---	---	---	---	1	1	---	---	2
Denver And Rio Grande Western Railroad Co.	---	---	---	---	2	3	---	---	5
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	---	1	---	---	1
Duluth, Winnipeg & Pacific Railway	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	1	1	---	---	2
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---
Gateway Western Railway	---	---	---	---	1	---	---	1	2
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---
Guilford Railroad System	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	---	---	---	---	4	2	---	4	10
Indiana Harbor Belt Railroad Co.	---	1	---	---	---	---	---	1	2
Kansas City Southern Railway Co.	---	---	1	1	7	1	---	1	11
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Massachusetts Bay Transit Authority	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	---	---	---	---	---	2	---	---	2
Montana Rail Link	---	---	---	---	3	4	---	2	9
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
Norfolk Southern Corp.	---	4	---	8	24	11	1	16	64
Northeast Illinois Regional Commuter Rail	---	2	---	---	---	---	---	---	2
Northern Indiana Commuter Trans.	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Co.	---	---	---	---	---	---	---	---	---
Peninsular Commuter	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	---	---	---	---	1	---	---	---	1
Soo Line Railroad Co.	---	1	---	1	2	---	---	3	7
Southeastern Pennsylvania Transp.	---	---	---	---	---	---	---	---	---
Southern California Regional Rail	---	---	---	---	---	---	---	---	---
Southern Pacific Transp. Co.	3	---	2	2	6	19	2	4	38
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	1	---	1
St. Louis Southwestern Railway Co.	---	---	---	---	1	4	---	1	6
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Co.	---	1	---	1	15	19	1	19	56
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	2	2
Wheeling & Lake Erie Railway Co.	---	---	1	---	---	---	---	---	1
Wisconsin Central Ltd.	---	---	---	---	---	3	2	---	5
All Other Railroads.....	1	1	---	5	7	13	---	6	33
Total.....	5	17	4	25	150	132	8	101	442

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

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

TABLE 68. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY RAILROAD, 1996

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	---	---	---	1	---	---	1	---	---
Alton & Southern Railroad	---	---	---	---	---	---	---	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	16	2	6	2	---	---	18	2	6
Bangor And Aroostook Railroad	2	---	1	---	---	---	2	---	1
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	2	---	---	---	---	---	2	---	---
Burlington Northern Santa Fe	99	8	18	5	---	---	104	8	18
Chicago, Central & Pacific Railroad Co.	2	---	2	---	---	---	2	---	2
Consolidated Rail Corp.	23	---	10	1	---	---	24	---	10
CSX Transp.	35	4	7	---	---	---	35	4	7
Dakota, Minnesota & Eastern Railroad	1	---	---	---	---	---	1	---	---
Delaware And Hudson Railroad Co.	2	---	1	---	---	---	2	---	1
Denver And Rio Grande Western Railroad Co.	5	1	3	---	---	---	5	1	3
Duluth, Missabe & Iron Range Railway Co.	1	---	---	---	---	---	1	---	---
Duluth, Winnipeg & Pacific Railway	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	2	---	---	---	---	---	2	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---
Gateway Western Railway	2	2	---	---	---	---	2	2	---
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---
Guilford Railroad System	---	---	---	---	---	---	---	---	---
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	10	1	1	---	---	---	10	1	1
Indiana Harbor Belt Railroad Co.	2	---	3	---	---	---	2	---	3
Kansas City Southern Railway Co.	11	---	5	2	---	---	13	---	5
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Massachusetts Bay Transit Authority	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	2	---	---	---	---	---	2	---	---
Montana Rail Link	9	1	2	1	---	---	10	1	2
New Jersey Transit Rail Operations	---	---	---	---	---	---	---	---	---
Norfolk Southern Corp.	64	2	22	4	---	3	68	2	25
Northeast Illinois Regional Commuter Rail	2	---	---	---	---	---	2	---	---
Northern Indiana Commuter Trans.	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Co.	---	---	---	---	---	---	---	---	---
Peninsular Commuter	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	1	---	---	---	---	---	1	---	---
Soo Line Railroad Co.	7	1	3	1	---	---	8	1	3
Southeastern Pennsylvania Transp.	---	---	---	---	---	---	---	---	---
Southern California Regional Rail	---	---	---	---	---	---	---	---	---
Southern Pacific Transp. Co.	38	7	13	---	---	---	38	7	13
Southern Pacific, Chicago-St. Louis Corp.	1	---	---	---	---	---	1	---	---
St. Louis Southwestern Railway Co.	6	4	2	2	---	1	8	4	3
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Co.	56	4	13	5	1	2	61	5	15
Union Railroad Company (Pittsburgh)	2	---	---	---	---	---	2	---	---
Wheeling & Lake Erie Railway Co.	1	---	---	---	---	---	1	---	---
Wisconsin Central Ltd.	5	---	---	---	---	---	5	---	---
All Other Railroads.....	33	1	5	3	---	1	36	1	6
Total.....	442	38	117	27	1	7	469	39	124

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



TABLE 69. (MV) ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE  
HIGHWAY-RAIL CROSSINGS, BY SPEED OF CONSIST, 1996

Speed Of Consist	----Freight----			---Passenger---			-Yard Swit ching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Standing.....	2	1	1	---	---	---	---	---	---	3	---	---	5	1	1
1-9.....	48	---	16	2	---	---	55	---	5	23	---	2	128	---	23
10-19.....	27	---	1	2	---	2	8	---	3	15	---	1	52	---	7
20-29.....	38	---	5	4	---	1	2	---	4	9	---	1	53	---	11
30-39.....	57	8	22	---	---	---	2	---	1	2	---	---	61	8	23
40-49.....	73	16	29	1	---	---	---	---	---	6	1	1	80	17	30
50-59.....	34	6	11	---	---	---	---	---	---	2	---	1	36	6	12
60-69.....	11	4	4	5	---	2	---	---	---	---	---	---	16	4	6
70-79.....	1	---	---	10	2	4	---	---	---	---	---	---	11	2	4
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	291	35	89	24	2	9	67	---	13	60	1	6	442	38	117

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, 1996

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.....	47	4	11	17	1	7	36	---	3	7	---	---	107	5	21
10-19.....	22	2	9	7	1	2	16	---	9	1	---	---	46	3	20
20-29.....	25	3	9	---	---	---	8	---	---	---	---	---	33	3	9
30-39.....	29	10	8	---	---	---	1	---	---	---	---	---	30	10	8
40-49.....	16	2	4	---	---	---	1	---	---	---	---	---	17	2	4
50-59.....	32	5	7	---	---	---	2	---	1	---	---	---	34	5	8
60-69.....	22	---	7	---	---	---	---	---	---	---	---	---	22	---	7
70-79.....	18	1	6	---	---	---	---	---	---	---	---	---	18	1	6
80-89.....	17	3	6	---	---	---	---	---	---	---	---	---	17	3	6
90-99.....	13	---	7	---	---	---	---	---	---	---	---	---	13	---	7
100-109.....	19	2	4	---	---	---	1	---	---	---	---	---	20	2	4
110-119.....	18	2	6	---	---	---	---	---	---	---	---	---	18	2	6
120-129.....	4	---	2	---	---	---	---	---	---	---	---	---	4	---	2
130-139.....	3	1	1	---	---	---	---	---	---	---	---	---	3	1	1
140-149.....	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---
150 And over.....	4	---	---	---	---	---	---	---	---	---	---	---	4	---	---
Locomotives only.	2	---	2	---	---	---	1	---	---	52	1	6	55	1	8
Total.....	291	35	89	24	2	9	67	---	13	60	1	6	442	38	117

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, 1996

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.....	5	---	---	2	2	---	1	---	---	---	---
Cantilever flshrs	1	1	1	---	---	---	2	---	---	---	1
Standard flashers	14	---	---	---	8	---	3	---	2	---	1
Hwy Sig, W W, Bells	4	---	---	---	1	1	1	---	1	---	---
Special Devices..	---	---	25	---	12	---	7	---	2	---	4
Crossbucks.....	---	---	150	1	99	5	27	1	11	---	6
Stopsigns.....	---	---	132	6	83	8	26	1	7	---	1
Other Signs.....	---	---	8	---	4	---	3	---	---	---	1
No Signs Or Signl	---	---	101	4	60	3	19	1	11	1	2
Total.....	24	1	417	13	269	17	89	3	34	1	16

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, 1996

State	Farm	Residential	Recreational	Industrial	Unknown	Total
Alabama	1,283	230	14	463	0	1,990
Alaska	4	14	5	81	0	104
Arizona	392	24	13	253	0	682
Arkansas	1,002	220	17	269	0	1,508
California	2,130	341	123	2,246	9	4,849
Colorado	781	249	19	258	2	1,309
Connecticut	49	30	32	149	1	261
Delaware	62	34	4	19	0	119
Dist Of Columbia	0	0	0	8	0	8
Florida	400	188	29	444	390	1,451
Georgia	1,519	641	31	551	0	2,742
Idaho	829	61	11	417	0	1,318
Illinois	3,705	492	77	1,346	0	5,620
Indiana	1,861	326	30	594	4	2,815
Iowa	3,149	328	48	687	1	4,213
Kansas	3,588	201	8	417	0	4,214
Kentucky	1,530	745	18	397	0	2,690
Louisiana	1,728	505	21	950	0	3,204
Maine	410	118	77	329	0	934
Maryland	404	78	16	210	0	708
Massachusetts	169	67	39	262	0	537
Michigan	1,325	393	125	855	0	2,698
Minnesota	2,244	238	50	584	0	3,116
Mississippi	1,377	405	5	254	0	2,041
Missouri	2,333	337	27	594	1	3,292
Montana	1,620	107	23	301	0	2,051
Nebraska	2,474	83	12	236	0	2,805
Nevada	28	3	6	36	192	265
New Hampshire	152	87	23	82	0	344
New Jersey	199	63	12	324	1	599
New Mexico	445	32	4	110	0	591
New York	2,153	338	99	588	0	3,178
North Carolina	1,721	878	31	870	1	3,501
North Dakota	1,956	26	10	189	0	2,181
Ohio	2,137	283	38	788	0	3,246
Oklahoma	1,252	153	10	246	0	1,661
Oregon	1,347	335	41	1,087	0	2,810
Pennsylvania	1,453	519	158	1,286	0	3,416
Rhode Island	7	18	9	37	0	71
South Carolina	699	298	17	316	0	1,330
South Dakota	1,143	81	3	134	0	1,361
Tennessee	1,094	390	22	384	0	1,890
Texas	4,211	507	36	1,544	3	6,301
Utah	524	46	10	209	0	789
Vermont	450	62	29	109	0	650
Virginia	631	186	14	302	1,731	2,864
Washington	1,446	401	55	1,112	0	3,014
West Virginia	885	641	46	620	1	2,193
Wisconsin	1,860	219	58	690	0	2,827
Wyoming	779	16	0	137	0	932
Puerto Rico	2	0	0	0	0	2
FINAL TOTALS	62,942	12,037	1,605	24,374	2,337	103,295

TABLE 73. PRIVATE CROSSINGS AT-GRADE BY STATE AND TYPE WARNING DEVICE, 1996

State	Signs	Signal s	No Signs or Signal s	Unknown	Total
Alabama	674	22	1, 293	1	1, 990
Alaska	68	0	36	0	104
Arizona	413	5	264	0	682
Arkansas	254	8	1, 246	0	1, 508
California	3, 562	106	1, 181	0	4, 849
Colorado	740	18	551	0	1, 309
Connecticut	211	42	8	0	261
Delaware	10	1	108	0	119
Dist Of Columbia	0	0	8	0	8
Florida	937	53	461	0	1, 451
Georgia	1, 391	12	1, 338	1	2, 742
Idaho	274	10	1, 034	0	1, 318
Illinois	569	104	4, 947	0	5, 620
Indiana	263	38	2, 514	0	2, 815
Iowa	675	15	3, 523	0	4, 213
Kansas	272	5	3, 937	0	4, 214
Kentucky	632	33	2, 025	0	2, 690
Louisiana	413	34	2, 757	0	3, 204
Maine	291	16	627	0	934
Maryland	140	10	558	0	708
Massachusetts	174	13	350	0	537
Michigan	314	34	2, 350	0	2, 698
Minnesota	1, 101	18	1, 997	0	3, 116
Mississippi	193	5	1, 843	0	2, 041
Missouri	249	26	3, 017	0	3, 292
Montana	512	9	1, 530	0	2, 051
Nebraska	220	6	2, 579	0	2, 805
Nevada	107	7	150	1	265
New Hampshire	49	4	291	0	344
New Jersey	157	15	427	0	599
New Mexico	230	2	359	0	591
New York	325	33	2, 820	0	3, 178
North Carolina	1, 331	29	2, 141	0	3, 501
North Dakota	368	2	1, 811	0	2, 181
Ohio	287	39	2, 920	0	3, 246
Oklahoma	307	10	1, 343	1	1, 661
Oregon	933	23	1, 853	1	2, 810
Pennsylvania	759	37	2, 620	0	3, 416
Rhode Island	41	1	29	0	71
South Carolina	976	11	343	0	1, 330
South Dakota	235	2	1, 123	1	1, 361
Tennessee	338	12	1, 540	0	1, 890
Texas	1, 638	85	4, 578	0	6, 301
Utah	173	5	611	0	789
Vermont	72	6	572	0	650
Virginia	466	43	2, 355	0	2, 864
Washington	584	17	2, 413	0	3, 014
West Virginia	321	17	1, 855	0	2, 193
Wisconsin	400	20	2, 407	0	2, 827
Wyoming	309	5	618	0	932
Puerto Rico	1	1	0	0	2
FINAL TOTALS	24, 959	1, 069	77, 261	6	103, 295

TABLE 74. PRIVATE CROSSINGS AT-GRADE BY TYPE DEVELOPMENT AND WARNING DEVICE, 1996

State	Signs	Signal s	No Signs or Signal s	Unknown	Total
Farm . . . . .	11, 630	112	51, 199	1	62, 942
Residential .	4, 042	81	7, 914	0	12, 037
Recreational	673	31	901	0	1, 605
Industrial . .	8, 128	823	15, 418	5	24, 374
Unknown . . . .	486	22	1, 829	0	2, 337
FINAL TOTALS	24, 959	1, 069	77, 261	6	103, 295

TABLE 75. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND TYPE DEVELOPMENT, 1996

Railroad	Farm	Residential	Recreational	Industrial	Unknown	Total
Alaska Railroad Corporation	4	14	5	81	0	104
Alton & Southern Railroad	8	5	0	14	0	27
Amtrak (National Railroad Passenger Corpora	35	13	3	16	1	68
Bangor & Aroostook Railroad	184	35	48	118	0	385
Belt Railway Company Of Chicago	0	0	0	76	0	76
Bessemer & Lake Erie Railroad Company	38	12	2	44	0	96
Birmingham Southern Railroad Company	0	0	0	36	0	36
Burlington Northern Santa Fe	11,212	1,172	146	3,316	3	15,849
Chicago, Central & Pacific Railroad Company	525	24	3	150	0	702
Consolidated Rail Corporation	3,694	864	214	1,975	1	6,748
CSX Transportation	4,930	1,821	154	2,562	794	10,261
Dakota, Minnesota & Eastern Railroad	480	8	1	67	0	556
Delaware & Hudson Railway Company	305	49	37	55	0	446
Denver & Rio Grande Western Railroad Compan	259	165	12	174	1	611
Duluth, Missabe & Iron Range Railway Compan	24	17	1	87	0	129
Duluth, Winnipeg & Pacific Railway	4	4	7	5	0	20
Elgin, Joliet & Eastern Railway Company	39	1	0	34	0	74
Florida East Coast Railway Company	5	3	1	18	86	113
Gateway Western Railway	135	1	1	19	0	156
Grand Trunk Western Railroad Incorporated	207	19	4	67	0	297
Guilford Rail System	266	90	25	339	0	720
Houston Belt & Terminal Railway Company	0	1	0	42	0	43
Illinois Central Railroad Company	1,040	210	8	330	0	1,588
Indiana Harbor Belt Railroad Company	0	2	0	41	0	43
Kansas City Southern Railway Company	1,232	265	9	351	0	1,857
Long Island Rail Road	67	4	3	8	0	82
Metro North Commuter Railroad Company	12	8	7	33	0	60
Montana Rail Link	466	62	15	138	0	681
New Jersey Transit Rail Operations	43	16	5	33	0	97
Norfolk Southern Corporation	5,867	2,068	73	1,867	1,112	10,987
Northeast Illinois Regional Comuter Rail Co	3	3	1	3	0	10
Northern Indiana Commuter Transportation Di	8	2	0	15	0	25
Paducah & Louisville Railway Company	118	30	1	36	0	185
Port Authority Trans Hudson	1	0	0	1	0	2
Soo Line Railroad Company	1,986	253	47	472	0	2,758
Southeastern Pennsylvania Transportation Au	22	12	2	17	0	53
Southern Pacific Transportation Company	2,019	328	104	1,988	86	4,525
Southern Pacific, Chicago-St. Louis Corpora	55	5	0	18	0	78
St. Louis Southwestern Railway Company	601	74	4	84	0	763
Terminal Railroad Association Of St. Louis	3	0	0	9	0	12
Union Pacific Railroad Company	10,188	1,050	108	2,896	102	14,344
Union Railroad Company (Pittsburgh)	0	0	0	39	0	39
Wheeling & Lake Erie Railway Company	216	36	5	133	0	390
Wisconsin Central Ltd. (also Railway)	715	100	24	323	0	1,162
All Unknown Railroads	15,926	3,191	525	6,244	151	26,037
FINAL TOTALS	62,942	12,037	1,605	24,374	2,337	103,295

TABLE 76. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND WARNING DEVICE, 1996

Railroad	Signs	Signal s	No Signs or Signal s	Unknown	Total
Alaska Railroad Corporation	68	0	36	0	104
Alton & Southern Railroad	4	0	23	0	27
Amtrak (National Railroad Passenger Corpora	31	8	29	0	68
Bangor & Aroostook Railroad	86	5	294	0	385
Belt Railway Company Of Chicago	25	2	49	0	76
Bessemer & Lake Erie Railroad Company	11	0	85	0	96
Birmingham Southern Railroad Company	11	3	22	0	36
Burlington Northern Santa Fe	3,929	165	11,754	1	15,849
Chicago, Central & Pacific Railroad Company	268	2	432	0	702
Consolidated Rail Corporation	901	73	5,774	0	6,748
CSX Transportation	4,103	189	5,968	1	10,261
Dakota, Minnesota & Eastern Railroad	54	0	501	1	556
Delaware & Hudson Railway Company	33	9	404	0	446
Denver & Rio Grande Western Railroad Compan	509	7	95	0	611
Duluth, Missabe & Iron Range Railway Compan	115	2	12	0	129
Duluth, Winnipeg & Pacific Railway	15	0	5	0	20
Elgin, Joliet & Eastern Railway Company	16	3	55	0	74
Florida East Coast Railway Company	54	5	54	0	113
Gateway Western Railway	5	0	151	0	156
Grand Trunk Western Railroad Incorporated	32	13	252	0	297
Guilford Rail System	200	22	498	0	720
Houston Belt & Terminal Railway Company	5	0	38	0	43
Illinois Central Railroad Company	213	23	1,352	0	1,588
Indiana Harbor Belt Railroad Company	19	1	23	0	43
Kansas City Southern Railway Company	226	8	1,623	0	1,857
Long Island Rail Road	3	5	74	0	82
Metro North Commuter Railroad Company	42	13	5	0	60
Montana Rail Link	150	4	527	0	681
New Jersey Transit Rail Operations	36	4	57	0	97
Norfolk Southern Corporation	1,926	79	8,981	1	10,987
Northeast Illinois Regional Comuter Rail Co	5	0	5	0	10
Northern Indiana Commuter Transportation Di	8	7	10	0	25
Paducah & Louisville Railway Company	44	3	138	0	185
Port Authority Trans Hudson	2	0	0	0	2
Soo Line Railroad Company	256	19	2,483	0	2,758
Southeastern Pennsylvania Transportation Au	1	1	51	0	53
Southern Pacific Transportation Company	1,987	99	2,439	0	4,525
Southern Pacific, Chicago-St. Louis Corpora	5	1	72	0	78
St. Louis Southwestern Railway Company	187	6	570	0	763
Terminal Railroad Association Of St. Louis	4	0	8	0	12
Union Pacific Railroad Company	2,531	105	11,707	1	14,344
Union Railroad Company (Pittsburgh)	19	0	20	0	39
Wheeling & Lake Erie Railway Company	67	2	321	0	390
Wisconsin Central Ltd. (also Railway)	190	3	969	0	1,162
All Unknown Railroads	6,563	178	19,295	1	26,037
FINAL TOTALS	24,959	1,069	77,261	6	103,295

**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 crossings.
- (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 crossties.
3. Asphalt. A surface over the entire crossing area or the area between plants or other material which forms flange way 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. Performed sections of steel or other metal which can

be individually installed and removed for maintenance and replacement.

8. Other metal. A crossing area completed with covered rails or other permanent metal materials in limited sectional units.
9. Unconsolidated. Ballast or other unconsolidated material placed above the tops of crossties with or without planks on one or both sides of running rail.

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

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

Employee Not On Duty. A railroad employee who is on railroad property for a purpose connected with his 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 a 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 included 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 Functional Classification Code.

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

- |          |    |                                    |
|----------|----|------------------------------------|
| Hi ghest | 8) | Gates <sup>3</sup>                 |
|          | 7) | Fl ashing lights                   |
|          | 6) | Hi ghway signals, wigwags or bells |
|          | 5) | Speci al warning devi ces          |
|          | 3) | Stop si gns                        |
|          | 4) | Crossbucks                         |
|          | 2) | Other si gns                       |
| Lowest   | 1) | No si gns or si gnals              |

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When 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.