

*Thomas B. Wall*



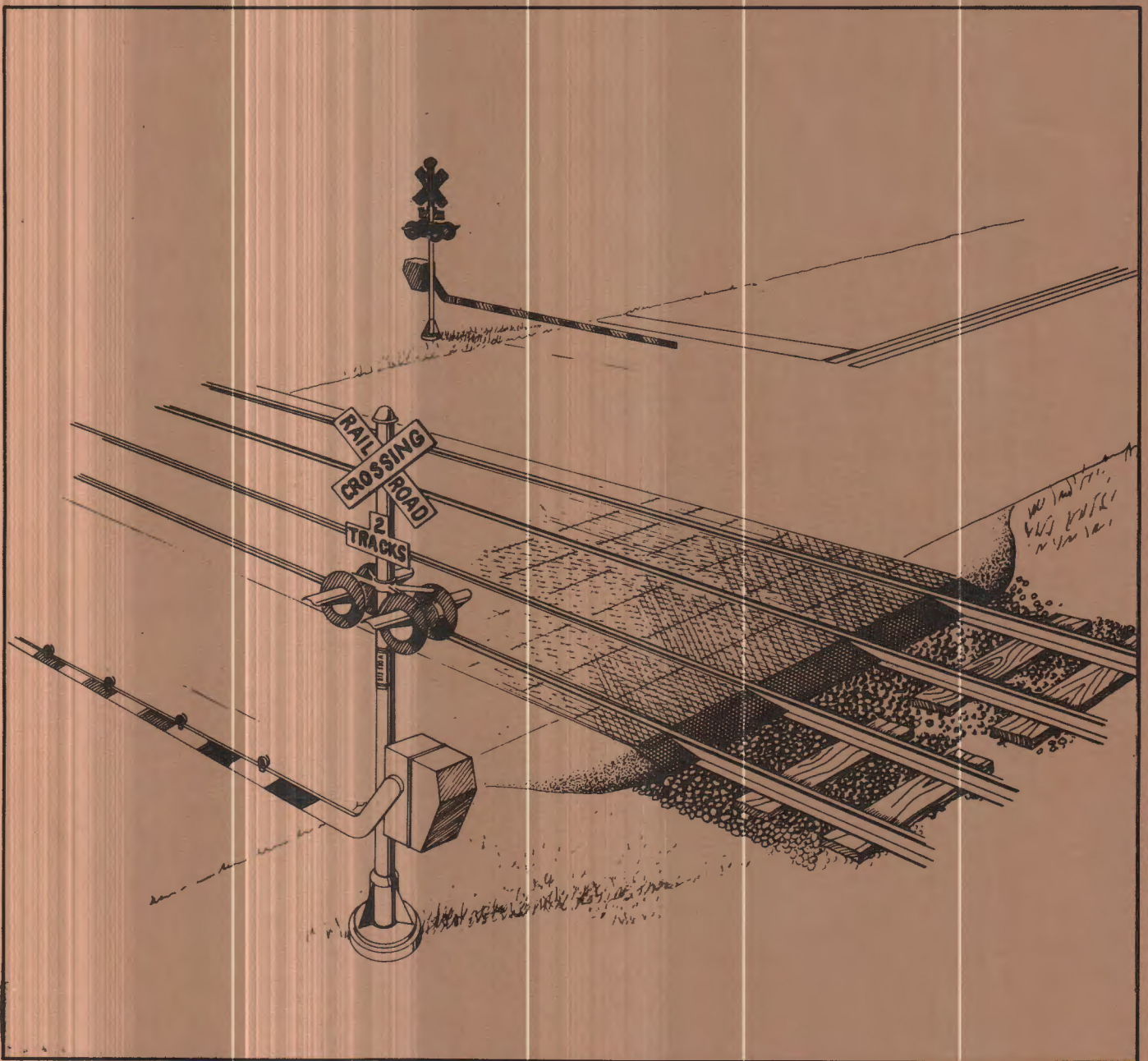
U.S. Department  
of Transportation  
**Federal Railroad  
Administration**  
Office of Safety

# Rail-Highway Crossing Accident/Incident and Inventory Bulletin

## No. 8

## Calendar Year 1985

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## LIST OF ABBREVIATIONS

ACC /INC	-	accident/incident
A/I	-	accident/incident
CONT	-	contractor employee
ENOD	-	employee not on duty
EOD	-	employee on duty
FA	-	Federal aid
HWY	-	highway
INJ	-	injury or casualty
K	-	thousands
KLD	-	killed
MUTCD	-	Manual on Uniform Traffic Control Devices
LOCO(S)	-	locomotive
NONT	-	non-trespasser
PSGR	-	passenger
SIG	-	signal
TRES	-	trespasser
VEH REG	-	vehicles registered

## INTRODUCTION

This eighth annual report, issued by the Federal Railroad Administration (FRA) Office of Safety, combines rail-highway crossing accident/incident statistics with the National Rail-Highway Crossing Inventory. Accident/Incident data comprising accident/incident reports filed by all railroads were gathered from the FRA's Railroad Accident/Incident Reporting System (RAIRS). The National Rail-Highway Crossing Inventory contains sight-survey data about all U.S. rail-highway crossings.

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

Because of major revisions in reporting requirements, it is not possible to compare data collected after January 1, 1975, with information from prior years. These changes have resulted in an increase in the number of reported rail-highway accidents/incidents; casualty reports have also been increased but to a lesser extent. (Appendix A discusses current reporting requirements.)

\* \* \* \* \*

Section 1 presents historical data on rail-highway crossing accidents/incidents for 1980 through 1985.

Section 2 contains 1985 accident/incident statistics obtained from the rail-highway crossing accident/incident file and the railroad casualty file.

Section 3 combines information from the rail-highway crossing accident/incident file with data in the National Rail-Highway Crossing Inventory and highlights relationships between certain grade-crossing characteristics and accident frequencies.

Section 4 gives the physical and operational statistics for all public, at-grade rail-highway crossings, described in the National Inventory, May 23, 1986.

The tables and figures in Sections 1, 2, 3, 4, and Appendix C furnish data on public rail-highway crossings. Appendix D and tables 33 and 34 present data on private crossings. Tables 1, 3, 7a, 9, 13, D-3, and figures 1 and 3 pertain to crossing accidents/incidents involving all types of highway users (bicycles, pedestrians, etc.). All the other tables show only those accidents/incidents in which motor vehicles are involved. Table S, a summary of all accidents and incidents at every public and private crossing, follows.

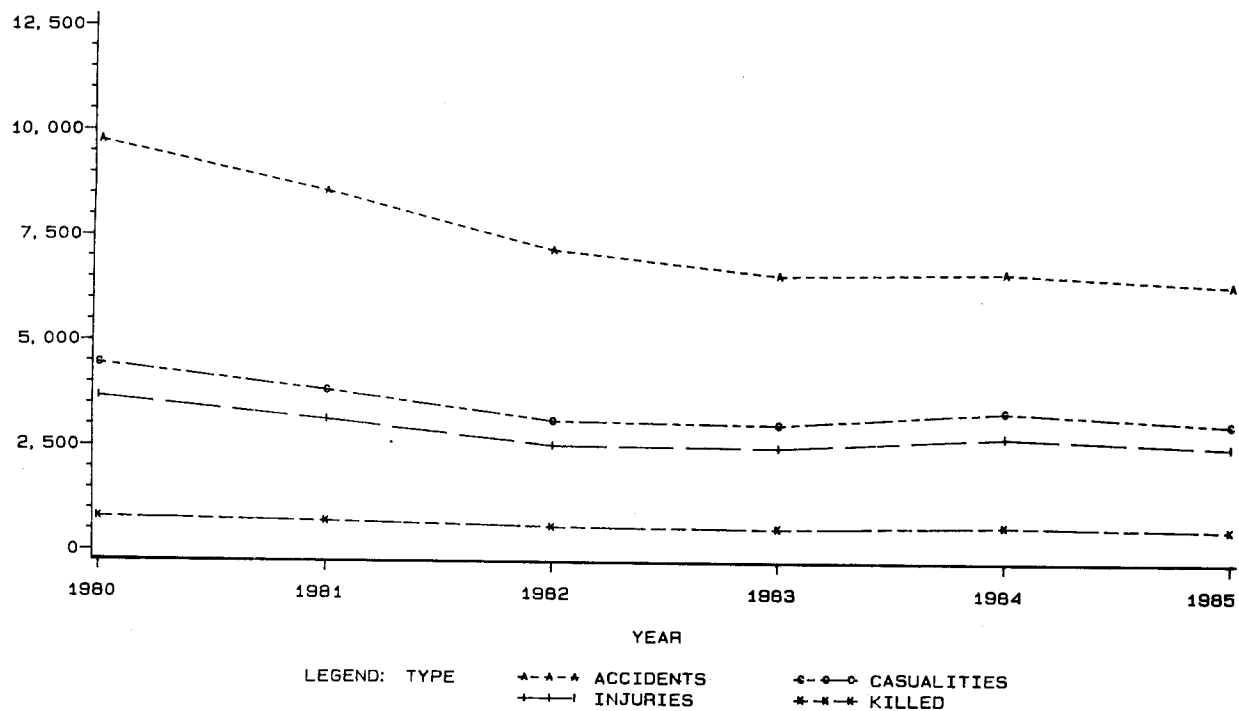
**TABLE — S**  
**SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1985**

Type of Crossing	.....Total.....			.....Motor Vehicles.....			.....Non-Motor Vehicles.....		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	6,353	570	2,508	6,093	480	2,395	260	57	113
Private	566	45	179	526	41	166	40	4	13
<b>Total</b>	<b>6,919</b>	<b>582</b>	<b>2,687</b>	<b>6,619</b>	<b>521</b>	<b>2,561</b>	<b>300</b>	<b>61</b>	<b>126</b>

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

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

YEAR	NUMBER OF ACCIDENTS	KILLED	TOTAL INJURED	CASUALTIES	CASUALTIES PER ACCIDENT
1980	9,763	788	3,662	4,450	0.46
1981	8,546	697	3,121	3,818	0.45
1982	7,158	580	2,508	3,088	0.43
1983	6,562	542	2,467	3,009	0.46
1984	6,633	610	2,723	3,333	0.50
1985	6,353	537	2,508	3,045	0.48

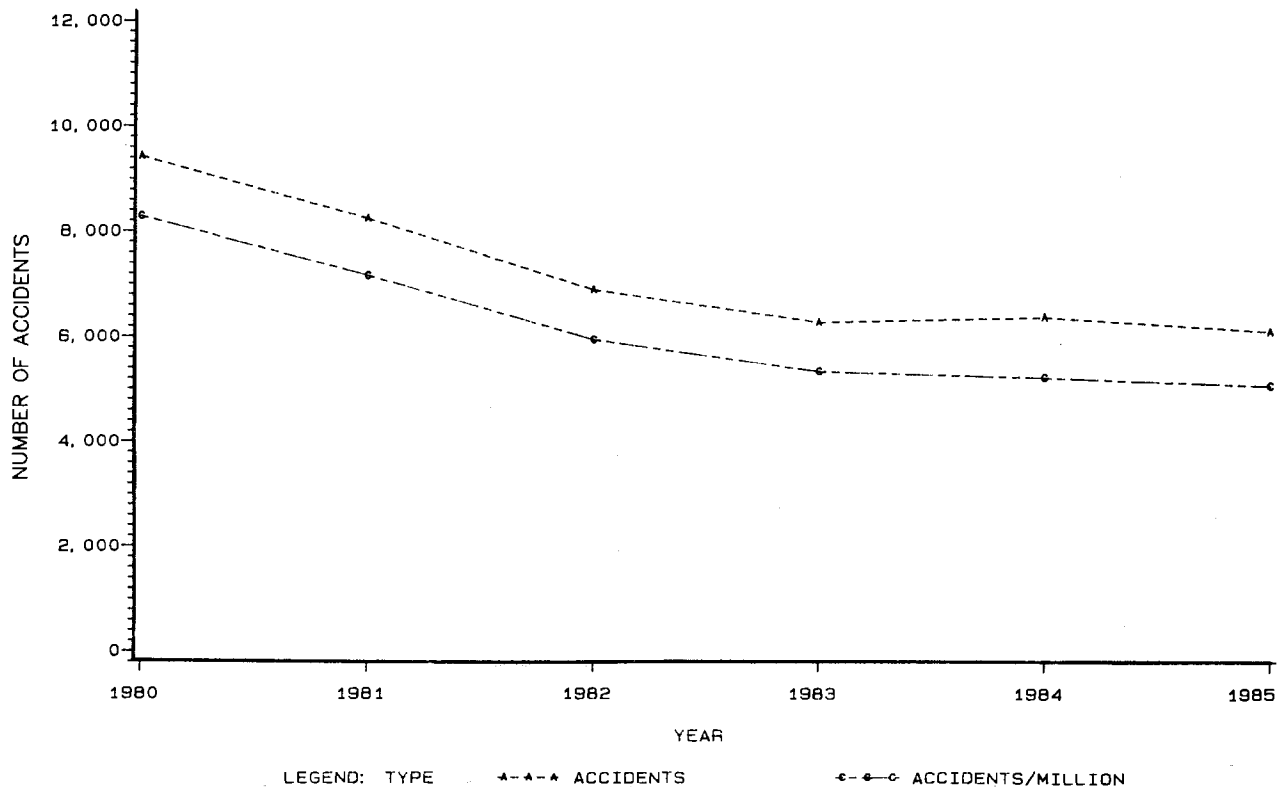


**FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS**

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

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000) 1	ACCIDENTS PER MILLION VEHICLES
1980	9,422	161,614	58.30
1981	8,232	163,530	50.34
1982	6,882	164,660	41.80
1983	6,272	168,822	37.15
1984	6,370	173,583	36.70
1985	6,093	171,324	35.56

<sup>1</sup>Figures supplied by the Federal Highway Administration



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



## 2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1985

### STATE AND RAILROAD DATA

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

State	No. Of Acc/Inc	---Killed---		---Injured---		Total -Casualties--	
		No.	%	No.	%	No.	%
Alabama.....	179	6	1.12	70	2.79	76	2.50
Alaska.....	23	---	---	12	.48	12	.39
Arizona.....	44	4	.74	18	.72	22	.72
Arkansas.....	155	19	3.54	78	3.11	97	3.19
California.....	316	28	5.21	121	4.82	149	4.89
Colorado.....	71	4	.74	23	.92	27	.89
Connecticut.....	19	4	.74	3	.12	7	.23
Delaware.....	11	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	205	17	3.17	83	3.31	100	3.28
Georgia.....	241	14	2.61	87	3.47	101	3.32
Idaho.....	51	2	.37	19	.76	21	.69
Illinois.....	388	44	8.19	154	6.14	198	6.50
Indiana.....	409	50	9.31	132	5.26	182	5.98
Iowa.....	156	11	2.05	52	2.07	63	2.07
Kansas.....	163	16	2.98	70	2.79	86	2.82
Kentucky.....	125	5	.93	47	1.87	52	1.71
Louisiana.....	251	17	3.17	152	6.06	169	5.55
Maine.....	20	---	---	5	.20	5	.16
Maryland.....	37	3	.56	15	.60	18	.59
Massachusetts....	34	2	.37	6	.24	8	.26
Michigan.....	301	38	7.08	122	4.86	160	5.25
Minnesota.....	148	15	2.79	49	1.95	64	2.10
Mississippi.....	145	5	.93	86	3.43	91	2.99
Missouri.....	169	12	2.23	76	3.03	88	2.89
Montana.....	19	2	.37	22	.88	24	.79
Nebraska.....	91	18	3.35	43	1.71	61	2.00
Nevada.....	7	1	.19	8	.32	9	.30
New Hampshire.....	10	---	---	---	---	---	---
New Jersey.....	47	3	.56	5	.20	8	.26
New Mexico.....	12	2	.37	4	.16	6	.20
New York.....	83	12	2.23	27	1.08	39	1.28
North Carolina...	164	11	2.05	75	2.99	86	2.82
North Dakota.....	30	2	.37	10	.40	12	.39
Ohio.....	433	56	10.43	185	7.38	241	7.91
Oklahoma.....	124	16	2.98	48	1.91	64	2.10
Oregon.....	61	3	.56	13	.52	16	.53
Pennsylvania.....	113	5	.93	43	1.71	48	1.58
Rhode Island.....	4	---	---	1	.04	1	.03
South Carolina...	136	14	2.61	54	2.15	68	2.23
South Dakota.....	31	2	.37	1	.04	3	.10
Tennessee.....	127	5	.93	43	1.71	48	1.58
Texas.....	664	50	9.31	259	10.33	309	10.15
Utah.....	47	---	---	15	.60	15	.49
Vermont.....	3	---	---	---	---	---	---
Virginia.....	105	3	.56	36	1.44	39	1.28
Washington.....	102	1	.19	24	.96	25	.82
West Virginia....	49	4	.74	47	1.87	51	1.67
Wisconsin.....	219	9	1.68	64	2.55	73	2.40
Wyoming.....	11	2	.37	1	.04	3	.10
Unknown.....	---	---	---	---	---	---	---
Total.....	6,353	537	100.00	2,508	100.00	3,045	100.00

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

State	No. Of Acc/Inc	-----Casualties-----			Vehicles Registered	--Per 10,000 Registration--		
		Kld	Inj	Total		Acc/Inc	Kld	Inj
Alabama.....	177	5	69	74	3,271,692	.54	.02	.21
Alaska.....	22	---	12	12	377,533	.58	---	.32
Arizona.....	44	4	18	22	2,193,390	.20	.02	.08
Arkansas.....	149	19	76	95	1,531,223	.97	.12	.50
California.....	295	19	108	127	18,669,989	.16	.01	.06
Colorado.....	70	4	23	27	2,869,264	.24	.01	.08
Connecticut.....	17	3	3	6	2,441,516	.07	.01	.01
Delaware.....	11	---	---	---	470,817	.23	---	---
Dist. of Columbia	---	---	---	---	236,535	---	---	---
Florida.....	200	17	80	97	9,635,054	.21	.02	.08
Georgia.....	236	14	83	97	4,574,387	.52	.03	.18
Idaho.....	48	1	18	19	990,886	.48	.01	.18
Illinois.....	364	36	143	179	7,820,882	.47	.05	.18
Indiana.....	389	46	123	169	4,087,511	.95	.11	.30
Iowa.....	146	10	49	59	2,693,551	.54	.04	.18
Kansas.....	151	15	60	75	2,222,587	.68	.07	.27
Kentucky.....	118	4	45	49	2,642,698	.45	.02	.17
Louisiana.....	243	17	145	162	3,018,327	.81	.06	.48
Maine.....	19	---	4	4	847,510	.22	---	.05
Maryland.....	37	3	15	18	3,265,484	.11	.01	.05
Massachusetts....	33	2	5	7	3,888,836	.08	.01	.01
Michigan.....	290	35	120	155	6,596,168	.44	.05	.18
Minnesota.....	142	13	46	59	3,135,632	.45	.04	.15
Mississippi.....	141	4	84	88	1,470,025	.96	.03	.57
Missouri.....	159	10	72	82	3,610,344	.44	.03	.20
Montana.....	19	2	22	24	714,974	.27	.03	.31
Nebraska.....	84	17	43	60	1,303,184	.64	.13	.33
Nevada.....	7	1	8	9	765,892	.09	.01	.10
New Hampshire.....	10	---	---	---	927,014	.11	---	---
New Jersey.....	47	3	5	8	5,022,130	.09	.01	.01
New Mexico.....	10	2	3	5	1,269,889	.08	.02	.02
New York.....	75	9	24	33	8,853,714	.08	.01	.03
North Carolina...	158	10	73	83	4,436,540	.36	.02	.16
North Dakota.....	29	2	10	12	722,808	.40	.03	.14
Ohio.....	415	50	176	226	8,165,388	.51	.06	.22
Oklahoma.....	118	16	45	61	2,889,058	.41	.06	.16
Oregon.....	59	2	13	15	2,266,099	.26	.01	.06
Pennsylvania.....	110	4	43	47	7,308,136	.15	.01	.06
Rhode Island.....	4	---	1	1	648,248	.06	---	.02
South Carolina...	130	11	51	62	2,165,610	.60	.05	.24
South Dakota.....	29	2	1	3	682,177	.43	.03	.01
Tennessee.....	124	5	41	46	3,669,690	.34	.01	.11
Texas.....	651	47	254	301	12,484,086	.52	.04	.20
Utah.....	46	---	15	15	1,150,593	.40	---	.13
Vermont.....	3	---	---	---	399,189	.08	---	---
Virginia.....	97	1	32	33	4,128,303	.23	---	.08
Washington.....	96	1	23	24	3,568,893	.27	---	.06
West Virginia....	49	4	47	51	1,412,025	.35	.03	.33
Wisconsin.....	211	8	63	71	3,291,650	.64	.02	.19
Wyoming.....	11	2	1	3	516,577	.21	.04	.02
Unknown.....	---	---	---	---	---	---	---	---
Total.....	6,093	480	2,395	2,875	171,323,708	.36	.03	.14

Note: Vehicle registration figures are for 1984 and were supplied by the Federal Highway Administration.  
Registration figures for Hawaii are omitted because it does not have any reporting railroads.

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

State	TYPE OF MOTOR VEHICLE																	
	---Automobile---			-----Truck-----			-Truck Trailer-			-----Bus-----			---School Bus---			---Motorcycle---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	119	3	47	35	1	13	21	1	9	1	---	---	1	---	---	---	---	---
Alaska.....	14	---	9	8	---	3	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	35	3	12	8	1	4	1	---	2	---	---	---	---	---	---	---	---	---
Arkansas.....	97	16	46	32	2	14	19	1	10	1	---	6	---	---	---	---	---	---
California.....	204	12	76	63	6	24	22	---	6	2	---	---	---	---	---	4	1	2
Colorado.....	36	2	11	24	2	9	9	---	3	---	---	---	---	---	---	1	---	---
Connecticut.....	14	3	3	2	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	6	---	---	3	---	---	2	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	139	13	55	40	4	14	18	---	10	1	---	---	---	---	---	2	---	1
Georgia.....	155	11	48	51	2	25	28	1	9	2	---	1	---	---	---	---	---	---
Idaho.....	30	1	12	16	---	6	2	---	---	---	---	---	---	---	---	---	---	---
Illinois.....	273	32	108	64	2	24	23	---	8	---	---	---	---	---	---	4	2	3
Indiana.....	296	37	96	72	8	20	16	---	6	1	---	---	1	---	---	3	1	1
Iowa.....	97	7	35	36	3	9	12	---	3	---	---	---	---	---	---	1	---	2
Kansas.....	85	8	34	51	6	24	13	---	2	---	---	---	---	---	---	2	1	---
Kentucky.....	80	2	31	31	---	11	6	1	3	---	---	---	---	---	---	1	1	---
Louisiana.....	164	14	100	56	3	34	21	---	11	2	---	---	---	---	---	---	---	---
Maine.....	13	---	3	4	---	---	2	---	1	---	---	---	---	---	---	---	---	---
Maryland.....	24	3	11	9	---	2	4	---	2	---	---	---	---	---	---	---	---	---
Massachusetts....	25	1	5	7	1	---	1	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	211	30	87	67	4	30	11	1	2	---	---	---	---	---	---	1	---	1
Minnesota.....	97	6	32	30	5	6	15	2	8	---	---	---	---	---	---	---	---	---
Mississippi.....	99	2	55	34	2	26	8	---	3	---	---	---	---	---	---	---	---	---
Missouri.....	102	6	44	46	4	23	10	---	4	1	---	1	---	---	---	---	---	---
Montana.....	10	---	2	6	2	4	1	---	1	1	---	1	---	1	---	14	---	---
Nebraska.....	47	9	19	25	5	19	9	1	5	---	---	---	---	---	---	3	2	---
Nevada.....	3	---	4	2	---	2	2	1	2	---	---	---	---	---	---	---	---	---
New Hampshire.....	7	---	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	37	2	2	7	---	3	3	1	---	---	---	---	---	---	---	---	---	---
New Mexico.....	5	---	2	4	2	---	1	---	1	---	---	---	---	---	---	---	---	---
New York.....	54	7	18	14	---	4	4	---	2	---	---	---	---	---	---	3	2	---
North Carolina...	106	8	50	31	1	17	20	---	6	---	---	---	---	---	---	1	1	---
North Dakota.....	22	---	8	7	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	310	36	136	79	13	27	22	---	11	1	---	---	---	---	---	3	1	2
Oklahoma.....	60	9	19	44	6	22	12	1	3	---	---	---	---	---	---	2	---	1
Oregon.....	37	2	6	17	---	7	4	---	---	---	---	---	---	---	---	1	---	---
Pennsylvania.....	82	4	35	16	---	5	9	---	2	---	---	---	---	---	---	3	---	1
Rhode Island.....	3	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	95	9	41	20	1	7	14	1	2	1	---	1	---	---	---	---	---	---
South Dakota.....	19	1	1	7	---	---	2	---	---	---	---	---	---	---	---	1	1	---
Tennessee.....	83	2	31	29	3	9	10	---	1	1	---	---	---	---	---	1	---	---
Texas.....	403	33	131	181	12	81	60	1	37	1	---	---	---	---	---	6	1	5
Utah.....	28	---	13	14	---	2	4	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	73	1	27	18	---	4	5	---	---	---	---	---	---	---	---	1	---	1
Washington.....	56	1	15	24	---	2	16	---	6	---	---	---	---	---	---	---	---	---
West Virginia....	34	---	5	9	---	4	5	---	7	1	4	31	---	---	---	---	---	---
Wisconsin.....	162	5	40	42	2	23	5	1	---	---	---	---	---	---	---	2	---	---
Wyoming.....	5	1	1	4	1	---	2	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,159	342	1,567	1,393	106	565	475	14	188	17	4	41	3	---	14	46	14	20

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

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	123	5	52	4	---	1	35	---	12	15	---	4
Alaska.....	9	---	3	5	---	4	8	---	5	---	---	---
Arizona.....	30	2	13	---	---	---	10	1	4	4	1	1
Arkansas.....	127	18	65	---	---	---	11	---	2	11	1	9
California.....	188	10	73	29	6	4	42	3	14	36	---	17
Colorado.....	56	4	17	---	---	---	3	---	3	11	---	3
Connecticut.....	5	2	1	10	---	2	---	---	---	2	---	---
Delaware.....	10	---	---	---	---	---	---	---	---	1	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	145	13	57	6	3	6	29	---	5	20	1	12
Georgia.....	176	13	63	3	---	2	24	---	7	33	1	11
Idaho.....	40	1	14	4	---	3	1	---	1	3	---	---
Illinois.....	217	29	93	66	4	19	41	2	16	40	1	15
Indiana.....	304	35	106	18	6	2	23	---	1	44	5	14
Iowa.....	99	7	41	1	---	---	28	---	4	18	3	4
Kansas.....	118	12	46	1	---	1	12	---	6	20	3	7
Kentucky.....	91	4	39	---	---	---	13	---	2	14	---	4
Louisiana.....	176	10	109	9	6	6	30	1	18	28	---	12
Maine.....	14	---	4	---	---	---	3	---	---	2	---	---
Maryland.....	20	2	10	---	---	---	5	---	1	12	1	4
Massachusetts....	13	---	1	11	2	4	6	---	---	3	---	---
Michigan.....	201	30	93	15	4	13	52	1	9	22	---	5
Minnesota.....	111	13	41	2	---	---	14	---	---	15	---	5
Mississippi.....	105	4	65	9	---	4	15	---	8	12	---	7
Missouri.....	120	7	54	4	2	---	13	---	8	22	1	10
Montana.....	15	2	20	1	---	1	---	---	---	3	---	1
Nebraska.....	67	16	37	1	---	1	5	---	---	11	1	5
Nevada.....	5	---	4	1	1	2	1	---	2	---	---	---
New Hampshire.....	6	---	---	2	---	---	1	---	---	1	---	---
New Jersey.....	19	---	1	11	3	1	8	---	2	9	---	1
New Mexico.....	9	2	2	---	---	---	1	---	1	---	---	---
New York.....	49	8	20	15	1	4	3	---	---	8	---	---
North Carolina...	127	8	65	9	---	1	11	1	2	11	1	5
North Dakota.....	19	1	8	3	1	2	1	---	---	6	---	---
Ohio.....	347	44	156	5	1	---	25	3	8	38	2	12
Oklahoma.....	96	16	39	---	---	---	14	---	5	8	---	1
Oregon.....	40	2	8	---	---	---	7	---	2	12	---	3
Pennsylvania.....	79	2	37	5	---	1	10	---	1	16	2	4
Rhode Island.....	2	---	1	---	---	---	1	---	---	1	---	---
South Carolina...	99	9	39	7	1	1	10	1	5	14	---	6
South Dakota.....	22	2	1	---	---	---	5	---	---	2	---	---
Tennessee.....	89	4	30	---	---	---	17	---	6	18	1	5
Texas.....	458	41	202	4	1	2	113	3	38	76	2	12
Utah.....	31	---	10	4	---	1	5	---	1	6	---	3
Vermont.....	2	---	---	---	---	---	---	---	---	1	---	---
Virginia.....	61	1	20	3	---	---	21	---	9	12	---	3
Washington.....	48	1	18	2	---	---	23	---	3	23	---	2
West Virginia....	40	4	44	1	---	---	1	---	---	7	---	3
Wisconsin.....	140	8	52	1	---	---	41	---	3	29	---	8
Wyoming.....	11	2	1	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,379	394	1,875	272	43	88	742	16	214	700	27	218

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

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

**WARNING DEVICE CATEGORY**

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama Great Southern Railroad.....	3	8	4	---	10	---	---	1	26
Amtrak (National Railroad Passenger Corp.)	43	29	5	---	69	---	---	1	147
Atchison, Topeka and Santa Fe Railway Co..	83	125	6	2	120	1	1	1	339
Bangor And Aroostook Railroad Company.....	---	6	---	---	---	---	---	---	6
Bessemer & Lake Erie Railroad Company.....	1	---	---	---	1	---	---	---	2
Boston and Maine Corporation.....	10	5	1	4	4	2	---	---	26
Burlington Northern.....	76	156	42	6	316	6	---	8	610
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	2	---	---	4	---	---	---	6
Central of Georgia Railroad Company.....	2	13	9	2	22	---	---	2	50
Central Vermont Railway Incorporated.....	1	1	---	---	1	---	---	---	3
Chessie System Railroads.....	59	134	7	7	192	2	1	4	406
Chicago and Northwestern Transportation Co	46	87	8	5	113	3	1	4	267
Chicago And Illinois Midland Railway Co...	1	---	---	---	2	---	---	---	3
Chicago South Shore And South Bend RR.....	7	6	1	---	2	---	---	---	16
Chicago, Milwaukee, St. Paul & Pacific RR.	16	41	7	6	40	3	---	1	114
Cincinnati, New Orleans & Texas Pacific RR	4	4	1	---	7	---	---	1	17
Consolidated Rail Corporation.....	108	191	19	12	187	4	2	3	526
Delaware and Hudson Railroad Company.....	3	2	---	---	6	---	---	---	11
Denver and Rio Grande Western Railroad Co.	1	15	---	---	16	---	1	---	33
Duluth Winnipeg And Pacific Railway Co....	1	1	---	---	1	---	---	---	3
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	2	---	---	1	3
Elgin, Joliet and Eastern Railway Company.	5	5	---	---	2	---	1	---	13
Florida East Coast Railway Company.....	38	1	---	---	---	---	---	---	39
Georgia Southern And Florida Railway.....	2	4	3	---	11	---	---	---	20
Grand Trunk Western Railroad Company.....	22	45	4	1	22	3	2	4	103
Green Bay And Western Railroad.....	---	6	1	2	16	---	---	---	25
Illinois Central Gulf Railroad.....	17	116	13	2	114	---	---	3	265
Kansas City Southern Railway Company.....	2	30	2	4	19	---	---	---	57
Louisiana & Arkansas Railway Company.....	1	25	1	---	15	---	---	---	42
Maine Central Railroad Company.....	---	7	---	---	4	---	---	---	11
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	53	192	11	6	219	---	1	7	489
Missouri-Kansas-Texas Railroad Company....	13	28	3	2	40	---	---	---	86
Monogahela Railway.....	---	1	---	---	---	---	---	---	1
Norfolk and Western Railway Company.....	53	139	4	10	161	1	---	3	371
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---	---	---
Oklahoma, Kansas And Texas Railroad Co....	2	2	---	1	5	---	---	---	10
Pittsburgh & Lake Erie Railroad.....	---	---	1	---	---	---	---	---	1
Richmond, Frederickburg And Potomac.....	---	---	---	---	1	---	---	---	1
Seaboard System Railroad.....	90	191	52	20	337	5	3	12	710
Soo Line Railroad.....	15	40	2	1	33	---	---	---	91
Southern Pacific Transportation Company...	101	72	40	10	133	14	---	9	379
Southern Railway Company.....	20	79	15	16	151	---	---	8	289
Spokane International Railroad.....	---	---	---	---	1	---	---	---	1
St. Louis Southwestern Railway Company....	11	21	3	3	36	1	---	1	76
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	8	---	---	4	---	---	---	12
Union Pacific Railroad.....	44	49	5	2	120	4	2	4	230
All Other Railroads.....	48	98	16	9	109	2	2	11	295
Total.....	1,002	1,985	286	133	2,668	51	17	89	6,231

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

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

**TABLE 7A. ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD**

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	26	1	14	1	1	1	27	2	15
Amtrak (National Railroad Passenger Corp.)	147	2	6	6	---	---	153	2	6
Atchison, Topeka and Santa Fe Railway Co..	339	33	136	15	2	11	354	35	147
Bangor And Aroostook Railroad Company.....	6	---	1	---	---	---	6	---	1
Bessemer & Lake Erie Railroad Company.....	2	---	2	---	---	---	2	---	2
Boston and Maine Corporation.....	26	1	1	1	---	1	27	1	2
Burlington Northern.....	610	64	221	24	4	3	634	68	224
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	6	---	2	---	---	---	6	---	2
Central of Georgia Railroad Company.....	50	1	25	3	---	3	53	1	28
Central Vermont Railway Incorporated.....	3	---	---	---	---	---	3	---	---
Chessie System Railroads.....	406	27	222	10	2	3	416	29	225
Chicago and Northwestern Transportation Co	267	15	61	17	3	5	284	18	66
Chicago And Illinois Midland Railway Co...	3	---	1	---	---	---	3	---	1
Chicago South Shore And South Bend RR.....	16	2	4	---	---	---	16	2	4
Chicago, Milwaukee, St. Paul & Pacific RR.	114	9	31	1	---	1	115	9	32
Cincinnati, New Orleans & Texas Pacific RR	17	2	7	1	---	---	18	2	7
Consolidated Rail Corporation.....	526	64	111	18	5	4	544	69	115
Delaware and Hudson Railroad Company.....	11	---	5	3	1	2	14	1	7
Denver and Rio Grande Western Railroad Co.	33	---	18	1	---	---	34	---	18
Duluth Winnipeg And Pacific Railway Co....	3	3	---	---	---	---	3	3	---
Duluth, Missabe and Iron Range Railway Co.	3	---	1	---	---	---	3	---	1
Elgin, Joliet and Eastern Railway Company.	13	---	4	---	---	---	13	---	4
Florida East Coast Railway Company.....	39	4	22	1	---	1	40	4	23
Georgia Southern And Florida Railway.....	20	2	8	1	---	1	21	2	9
Grand Trunk Western Railroad Company.....	103	19	50	7	2	3	110	21	53
Green Bay And Western Railroad.....	25	1	6	1	---	---	26	1	6
Illinois Central Gulf Railroad.....	265	5	154	10	---	7	275	5	161
Kansas City Southern Railway Company.....	57	4	21	---	---	---	57	4	21
Louisiana & Arkansas Railway Company.....	42	2	23	1	---	1	43	2	24
Maine Central Railroad Company.....	11	---	3	1	---	1	12	---	4
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	489	41	303	28	4	15	517	45	318
Missouri-Kansas-Texas Railroad Company....	86	3	25	2	---	---	88	3	25
Monogahela Railway.....	1	---	---	---	---	---	1	---	---
Norfolk and Western Railway Company.....	371	34	197	24	9	15	395	43	212
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---	---	---
Oklahoma, Kansas And Texas Railroad Co....	10	1	2	---	---	---	10	1	2
Pittsburgh & Lake Erie Railroad.....	1	---	1	---	---	---	1	---	1
Richmond, Fredericksburg And Potomac.....	1	---	---	---	---	---	1	---	---
Seaboard System Railroad.....	710	51	223	14	1	8	724	52	231
Soo Line Railroad.....	91	5	32	6	1	2	97	6	34
Southern Pacific Transportation Company...	379	29	132	19	9	14	398	38	146
Southern Railway Company.....	289	18	125	11	4	2	300	22	127
Spokane International Railroad.....	1	---	1	---	---	---	1	---	1
St. Louis Southwestern Railway Company....	76	13	7	3	---	1	79	13	8
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	12	---	16	1	---	---	13	---	16
Union Pacific Railroad.....	230	14	74	13	4	2	243	18	76
All Other Railroads.....	295	10	97	21	5	6	316	15	103
Total.....	6,231	480	2,395	265	57	113	6,496	537	2,508

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

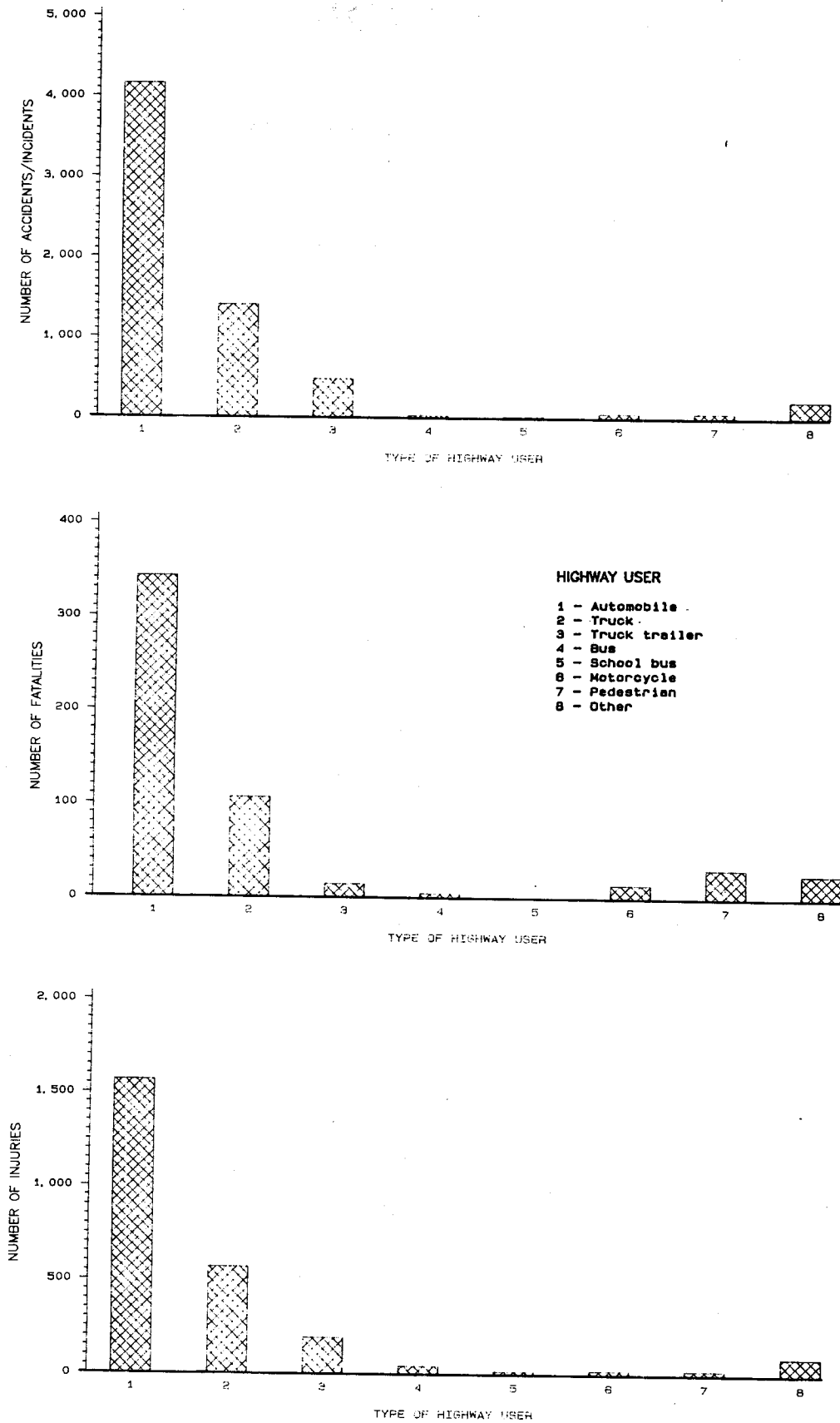
**TABLE 8. ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE AND WARNING DEVICE CATEGORY**

**WARNING DEVICE CATEGORY**

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	7	49	21	4	91	2	---	3	177
Alaska.....	1	12	---	---	9	---	---	---	22
Arizona.....	12	17	5	1	8	1	---	---	44
Arkansas.....	17	38	6	1	85	---	---	2	149
California.....	118	65	27	3	63	11	1	7	295
Colorado.....	7	28	2	---	32	---	1	---	70
Connecticut.....	3	13	---	---	1	---	---	---	17
Delaware.....	---	7	---	---	4	---	---	---	11
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	74	61	6	3	54	---	2	---	200
Georgia.....	27	47	26	12	118	3	---	3	236
Idaho.....	1	13	1	---	32	1	---	---	48
Illinois.....	115	134	8	5	95	1	2	4	364
Indiana.....	78	147	16	2	140	2	2	2	389
Iowa.....	19	45	3	1	76	2	---	---	146
Kansas.....	24	24	4	1	98	---	---	---	151
Kentucky.....	19	41	5	1	43	1	---	8	118
Louisiana.....	16	100	13	5	99	2	---	8	243
Maine.....	---	14	---	---	5	---	---	---	19
Maryland.....	6	6	2	4	18	---	---	1	37
Massachusetts....	10	16	1	4	2	---	---	---	33
Michigan.....	46	121	7	1	106	4	1	4	290
Minnesota.....	9	42	7	4	75	4	---	1	142
Mississippi.....	4	41	11	3	81	---	---	1	141
Missouri.....	11	64	7	2	74	---	---	1	159
Montana.....	1	2	4	---	12	---	---	---	19
Nebraska.....	17	18	2	---	46	1	---	---	84
Nevada.....	2	1	---	---	3	1	---	---	7
New Hampshire.....	2	4	---	1	1	2	---	---	10
New Jersey.....	14	16	1	8	5	---	---	3	47
New Mexico.....	2	1	---	1	6	---	---	---	10
New York.....	25	19	8	2	19	---	---	2	75
North Carolina...	15	34	2	4	97	---	---	6	158
North Dakota.....	4	3	4	1	17	---	---	---	29
Ohio.....	63	119	6	6	215	2	3	1	415
Oklahoma.....	9	39	4	2	63	---	---	1	118
Oregon.....	9	6	2	1	29	4	---	8	59
Pennsylvania.....	15	36	3	5	47	1	1	2	110
Rhode Island.....	---	1	1	1	1	---	---	---	4
South Carolina...	7	29	9	10	74	1	---	---	130
South Dakota.....	---	5	1	1	19	1	1	1	29
Tennessee.....	10	43	14	3	52	---	---	2	124
Texas.....	88	253	16	18	265	4	1	6	651
Utah.....	3	20	---	1	22	---	---	---	46
Vermont.....	1	---	---	---	2	---	---	---	3
Virginia.....	15	39	4	5	32	---	1	1	97
Washington.....	11	14	8	---	57	---	1	5	96
West Virginia....	7	22	2	---	17	---	---	1	49
Wisconsin.....	14	90	11	6	87	---	---	3	211
Wyoming.....	3	---	1	---	6	---	---	1	11
Unknown.....	---	---	---	---	---	---	---	---	---
<b>Total.....</b>	<b>961</b>	<b>1,959</b>	<b>281</b>	<b>133</b>	<b>2,603</b>	<b>51</b>	<b>17</b>	<b>88</b>	<b>6,093</b>

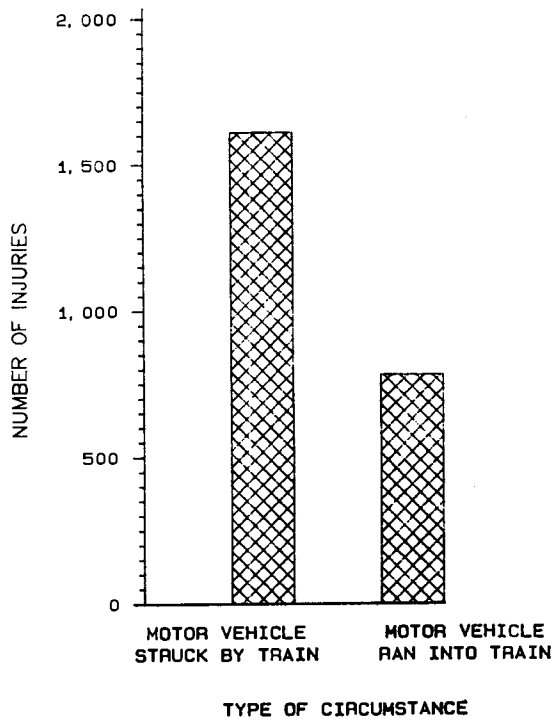
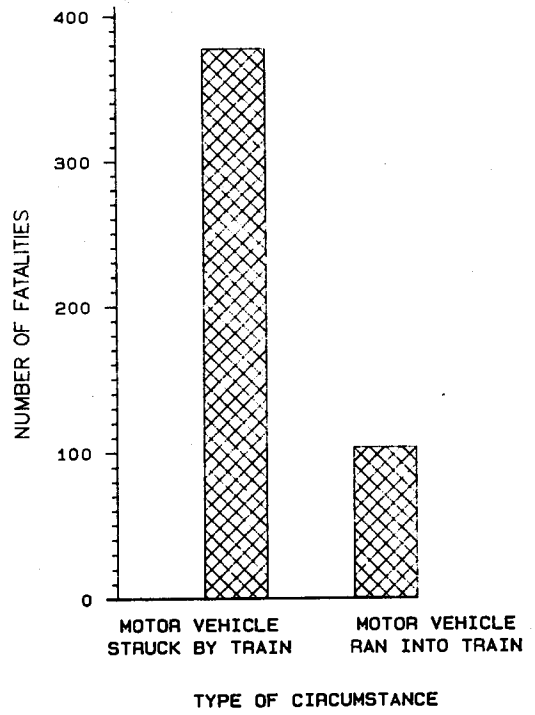
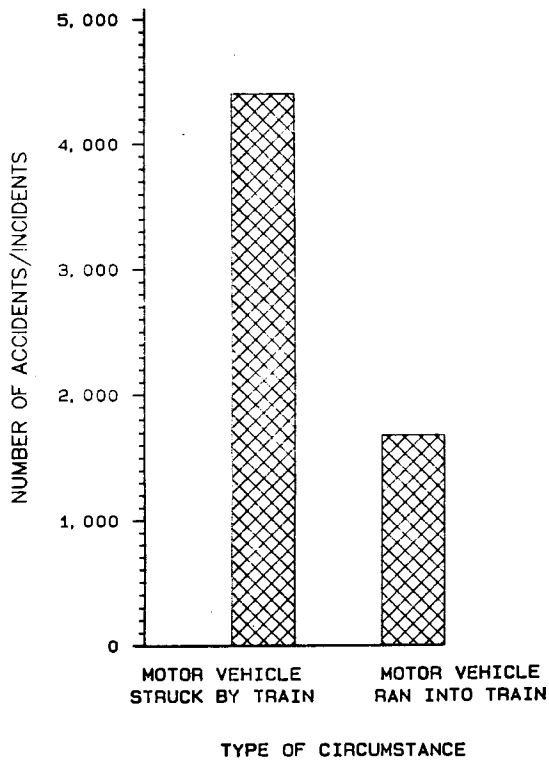
Note: "Special" are crossings protected by watchmen or members of train crew

# HIGHWAY USER AND VEHICLE DATA



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





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

**TABLE 9. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER**

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	4,159	65.47	342	63.69	1,567	62.48	268	1,125
Truck.....	1,393	21.93	106	19.74	565	22.53	93	409
Truck-trailer....	475	7.48	14	2.61	188	7.50	13	122
Bus.....	17	.27	4	.74	41	1.63	1	5
School bus.....	3	.05	---	---	14	.56	---	1
Motorcycle.....	46	.72	14	2.61	20	.80	14	16
Pedestrian.....	52	.82	31	5.77	21	.84	29	20
Other.....	208	3.27	26	4.84	92	3.67	23	61
<b>Total.....</b>	<b>6,353</b>	<b>100.00</b>	<b>537</b>	<b>100.00</b>	<b>2,508</b>	<b>100.00</b>	<b>441</b>	<b>1,759</b>

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

Circumstance	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Struck by consist	4,410	72.38	377	78.54	1,612	67.31	297	1,131
Ran into consist.	1,683	27.62	103	21.46	783	32.69	92	547
<b>Total.....</b>	<b>6,093</b>	<b>100.00</b>	<b>480</b>	<b>100.00</b>	<b>2,395</b>	<b>100.00</b>	<b>389</b>	<b>1,678</b>

**TABLE 11. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE OF VEHICLE, NUMBER OF OCCUPANTS, CASUALTY RATES, DAMAGE RATES, AND ACCIDENT RATES**

Type Vehicle	# of A/I	# of Occupants	Occupants Per A/I	....Occupants....		.....Vehicle.....	
				Killed Per A/I	Injured Per A/I	Damage	Per A/I
Automobile...	4,159	5,237	1.26	.08	.37	7,272,052	1,749
Truck.....	1,393	1,679	1.21	.07	.37	3,772,984	2,709
Truck-trailer	475	478	1.01	.03	.23	4,291,042	9,034
Bus.....	17	93	5.47	.24	2.41	139,375	8,199
School bus...	3	16	5.33	.00	4.67	30,500	10,167
Motorcycle...	46	47	1.02	.30	.43	52,450	1,140
Total.....	6,093	7,550	1.24	.08	.37	15,558,403	2,553

**TABLE 12. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TYPE OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY**

**VISIBILITY**

Type Of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER												
Automobile.....	68	6	15	1,574	156	609	112	16	25	1,231	106	393
Truck.....	31	4	14	628	53	262	36	4	19	307	24	108
Truck-trailer....	9	---	6	304	4	104	16	---	3	66	3	28
Bus.....	1	---	---	6	---	2	---	---	---	4	---	6
School bus.....	---	---	---	3	---	14	---	---	---	---	---	---
Motorcycle.....	---	---	---	8	1	2	1	---	---	5	---	2
Total.....	109	10	35	2,523	214	993	165	20	47	1,613	133	537
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	22	2	5	522	12	211	32	---	7	598	44	302
Truck.....	11	---	3	214	11	99	9	2	1	157	8	59
Truck-trailer....	2	---	4	63	5	36	2	---	---	13	2	7
Bus.....	---	---	---	6	4	33	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	16	5	5	---	---	---	16	8	11
Total.....	35	2	12	821	37	384	43	2	8	784	62	379
GRAND TOTAL												
Automobile.....	90	8	20	2,096	168	820	144	16	32	1,829	150	695
Truck.....	42	4	17	842	64	361	45	6	20	464	32	167
Truck-trailer....	11	---	10	367	9	140	18	---	3	79	5	35
Bus.....	1	---	---	12	4	35	---	---	---	4	---	6
School bus.....	---	---	---	3	---	14	---	---	---	---	---	---
Motorcycle.....	---	---	---	24	6	7	1	---	---	21	8	13
Total.....	144	12	47	3,344	251	1,377	208	22	55	2,397	195	916

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

**TYPE OF PERSON**

Type Of Vehicle	---EOD---		---ENOD---		---PSGR---		---NONT---		---TRES---		---CONT---		-----Total-----		
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	A/I
<b>RAIL CONSIST STRUCK HIGHWAY USER</b>															
Automobile.....	---	12	---	---	---	---	248	914	36	116	---	---	284	1,042	2,985
Truck.....	---	26	---	---	---	---	80	358	5	19	---	---	85	403	1,002
Truck-trailer....	1	53	---	---	---	2	5	83	1	3	---	---	7	141	395
Bus.....	---	---	---	---	---	---	---	8	---	---	---	---	---	8	11
School bus.....	---	---	---	---	---	---	---	14	---	---	---	---	---	14	3
Motorcycle.....	---	---	---	---	---	---	1	3	---	1	---	---	1	4	14
Pedestrian.....	---	1	---	---	---	---	8	6	21	12	---	---	29	19	47
Other.....	---	2	---	---	---	---	13	44	6	16	---	---	19	62	158
Total.....	1	94	---	---	---	2	355	1,430	69	167	---	---	425	1,693	4,615
<b>HIGHWAY USER STRUCK RAIL CONSIST</b>															
Automobile.....	---	5	---	---	---	1	49	460	9	59	---	---	58	525	1,174
Truck.....	1	14	---	---	---	---	20	142	---	6	---	---	21	162	391
Truck-trailer....	---	7	---	---	---	---	7	40	---	---	---	---	7	47	80
Bus.....	---	---	---	---	---	---	4	33	---	---	---	---	4	33	6
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	12	11	1	5	---	---	13	16	32
Pedestrian.....	---	---	---	---	---	---	1	1	1	1	---	---	2	2	5
Other.....	---	---	---	---	---	---	4	29	3	1	---	---	7	30	50
Total.....	1	26	---	---	---	1	97	716	14	72	---	---	112	815	1,738
<b>GRAND TOTAL</b>															
Automobile.....	---	17	---	---	---	1	297	1,374	45	175	---	---	342	1,567	4,159
Truck.....	1	40	---	---	---	---	100	500	5	25	---	---	106	565	1,393
Truck-trailer....	1	60	---	---	---	2	12	123	1	3	---	---	14	188	475
Bus.....	---	---	---	---	---	---	4	41	---	---	---	---	4	41	17
School bus.....	---	---	---	---	---	---	---	14	---	---	---	---	---	14	3
Motorcycle.....	---	---	---	---	---	---	13	14	1	6	---	---	14	20	46
Pedestrian.....	---	1	---	---	---	---	9	7	22	13	---	---	31	21	52
Other.....	---	2	---	---	---	---	17	73	9	17	---	---	26	92	208
Total.....	2	120	---	---	---	3	452	2,146	83	239	---	---	537	2,508	6,353

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

**TABLE 14. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF VEHICLE, CIRCUMSTANCE, AND VISIBILITY**

**VISIBILITY**

Speed Of Vehicle	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	44	4	7	838	33	207	52	3	8	637	17	91	1,571	57	313
1-9.....	25	1	6	518	44	187	32	4	10	250	15	75	825	64	278
10-19.....	19	1	8	450	35	234	27	1	8	238	12	116	734	49	366
20-29.....	11	3	9	300	23	150	20	3	9	174	24	89	505	53	257
30-39.....	3	---	1	153	29	93	12	3	5	115	28	90	283	60	189
40-49.....	---	---	---	80	22	31	3	2	1	41	13	21	124	37	53
50-59.....	1	---	1	25	5	11	---	---	---	18	2	6	44	7	18
60 and over.....	---	---	---	7	3	3	1	---	---	5	1	2	13	4	5
Unknown.....	6	1	3	152	20	77	18	4	6	135	21	47	311	46	133
Total.....	109	10	35	2,523	214	993	165	20	47	1,613	133	537	4,410	377	1,612
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	8	---	---	222	1	56	11	---	---	168	3	46	409	4	102
10-19.....	5	---	5	193	2	60	9	---	3	196	7	90	403	9	158
20-29.....	8	---	2	137	4	61	9	---	2	131	13	61	285	17	126
30-39.....	3	---	2	103	6	73	5	---	2	79	5	54	190	11	131
40-49.....	2	1	1	53	11	65	2	---	---	50	5	42	107	17	108
50-59.....	4	---	2	24	3	17	1	---	---	30	12	21	59	15	40
60 and over.....	---	---	---	10	4	11	1	2	---	15	12	9	26	18	20
Unknown.....	5	1	---	79	6	41	5	---	1	115	5	56	204	12	98
Total.....	35	2	12	821	37	384	43	2	8	784	62	379	1,683	103	783
GRAND TOTAL															
Standing.....	44	4	7	838	33	207	52	3	8	637	17	91	1,571	57	313
1-9.....	33	1	6	740	45	243	43	4	10	418	18	121	1,234	68	380
10-19.....	24	1	13	643	37	294	36	1	11	434	19	206	1,137	58	524
20-29.....	19	3	11	437	27	211	29	3	11	305	37	150	790	70	383
30-39.....	6	---	3	256	35	166	17	3	7	194	33	144	473	71	320
40-49.....	2	1	1	133	33	96	5	2	1	91	18	63	231	54	161
50-59.....	5	---	3	49	8	28	1	---	---	48	14	27	103	22	58
60 and over.....	---	---	---	17	7	14	2	2	---	20	13	11	39	22	25
Unknown.....	11	2	3	231	26	118	23	4	7	250	26	103	515	58	231
Total.....	144	12	47	3,344	251	1,377	208	22	55	2,397	195	916	6,093	480	2,395

**TABLE 15. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY POSITION AND TYPE OF VEHICLE**

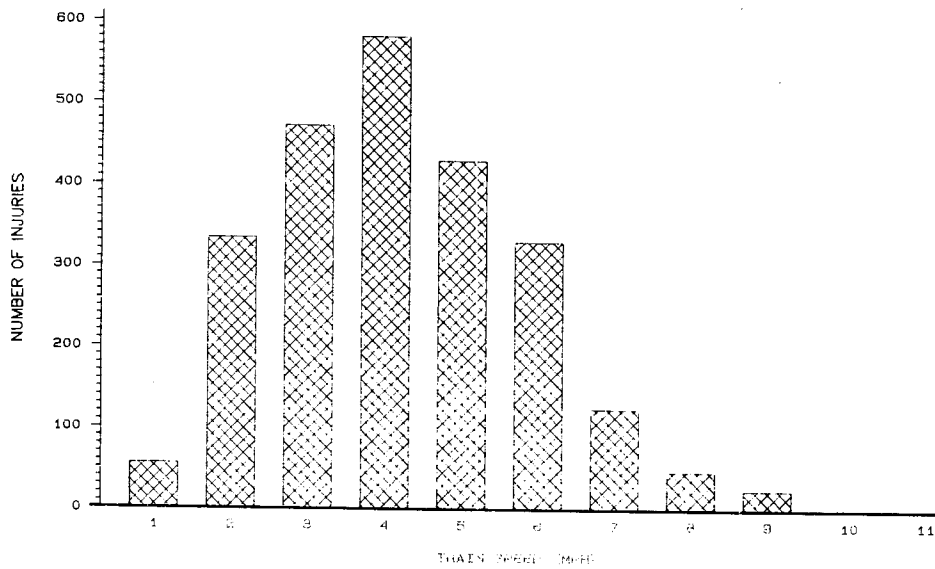
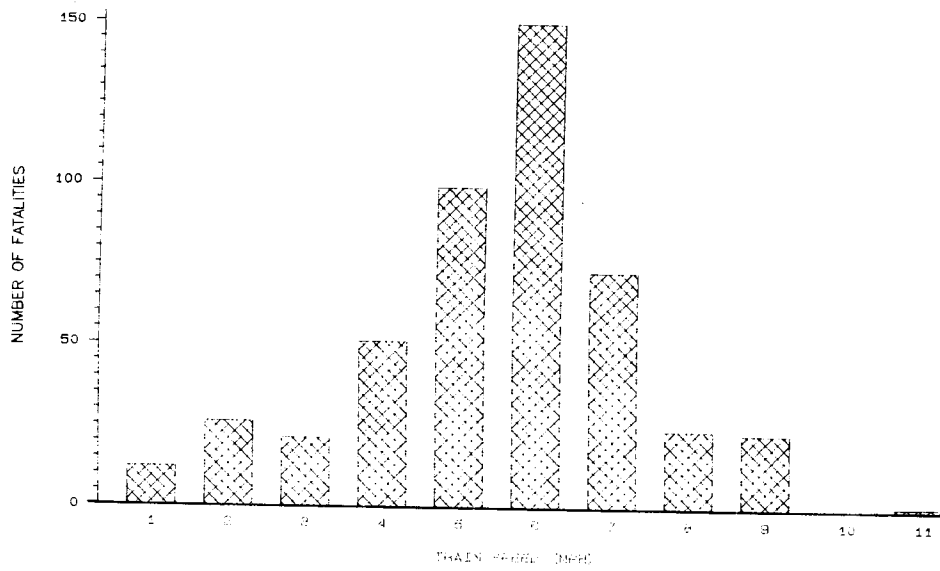
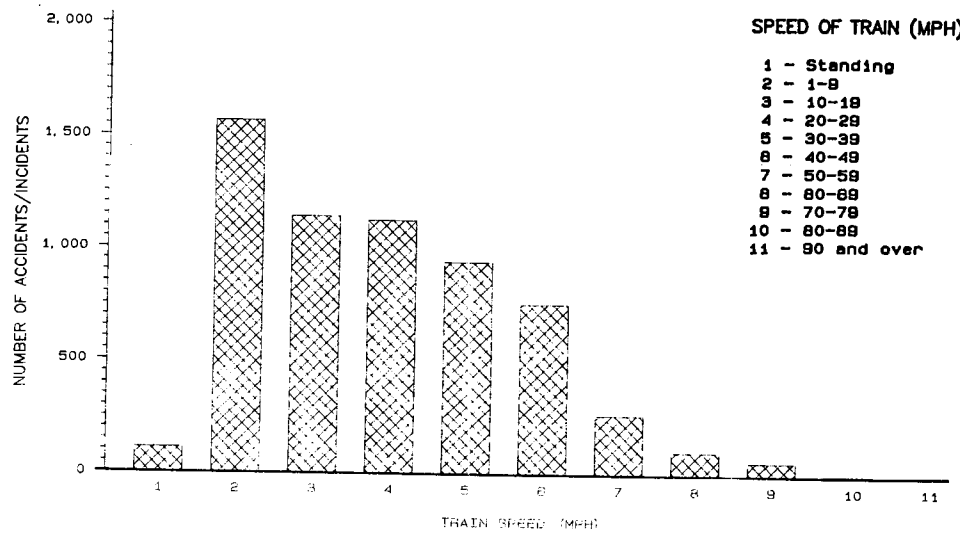
Vehicle	-----Position On Crossing-----								
	--Stalled On--			--Stopped On--			--Moving Over--		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Automobile.....	540	10	74	626	37	155	2,993	295	1,338
Truck.....	132	5	20	176	4	46	1,085	97	499
Truck-trailer....	32	---	9	56	1	8	387	13	171
Bus.....	1	---	---	1	---	---	15	4	41
School bus.....	---	---	---	---	---	---	3	---	14
Motorcycle.....	3	---	---	6	---	2	37	14	18
Total.....	708	15	103	865	42	211	4,520	423	2,081

**TRAIN AND TRACK DATA**

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

Speed Of Consist	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	24	---	3	537	2	61	39	---	2	402	---	69	1,002	2	135
10-19.....	18	---	4	496	3	185	27	---	3	255	2	107	796	5	299
20-29.....	25	1	10	503	22	251	33	1	15	298	16	147	859	40	423
30-39.....	13	1	4	402	40	205	30	7	14	304	31	114	749	79	337
40-49.....	19	5	13	374	80	169	20	7	7	212	47	64	625	139	253
50-59.....	8	3	1	125	42	79	8	1	5	88	23	20	229	69	105
60-69.....	---	---	---	55	15	31	6	1	1	29	7	8	90	23	40
70-79.....	1	---	---	24	9	11	2	3	---	19	7	8	46	19	19
80-89.....	---	---	---	2	---	---	---	---	---	1	---	---	3	---	---
90 and over.....	---	---	---	1	1	---	---	---	---	1	---	---	2	1	---
Unknown.....	1	---	---	4	---	1	---	---	---	4	---	---	9	---	1
Total.....	109	10	35	2,523	214	993	165	20	47	1,613	133	537	4,410	377	1,612
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	2	---	1	19	---	3	2	---	---	85	12	44	108	12	48
1-9.....	14	---	2	233	2	61	18	2	3	299	20	133	564	24	199
10-19.....	10	---	2	172	9	87	6	---	1	161	7	83	349	16	173
20-29.....	1	1	1	154	5	91	6	---	2	107	5	65	268	11	159
30-39.....	3	1	---	119	8	60	3	---	2	68	11	30	193	20	92
40-49.....	4	---	2	81	8	60	6	---	---	39	3	15	130	11	77
50-59.....	1	---	4	17	---	9	1	---	---	13	4	6	32	4	19
60-69.....	---	---	---	8	1	5	1	---	---	1	---	1	10	1	6
70-79.....	---	---	---	11	4	4	---	---	---	---	---	---	11	4	4
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	7	---	4	---	---	---	11	---	2	18	---	6
Total.....	35	2	12	821	37	384	43	2	8	784	62	379	1,683	103	783
GRAND TOTAL															
Standing.....	2	---	1	19	---	3	2	---	---	85	12	44	108	12	48
1-9.....	38	---	5	770	4	122	57	2	5	701	20	202	1,566	26	334
10-19.....	28	---	6	668	12	272	33	---	4	416	9	190	1,145	21	472
20-29.....	26	2	11	657	27	342	39	1	17	405	21	212	1,127	51	582
30-39.....	16	2	4	521	48	265	33	7	16	372	42	144	942	99	429
40-49.....	23	5	15	455	88	229	26	7	7	251	50	79	755	150	330
50-59.....	9	3	5	142	42	88	9	1	5	101	27	26	261	73	124
60-69.....	---	---	---	63	16	36	7	1	1	30	7	9	100	24	46
70-79.....	1	---	---	35	13	15	2	3	---	19	7	8	57	23	23
80-89.....	---	---	---	2	---	---	---	---	---	1	---	---	3	---	---
90 and over.....	---	---	---	1	1	---	---	---	---	1	---	---	2	1	---
Unknown.....	1	---	---	11	---	5	---	---	---	15	---	2	27	---	7
Total.....	144	12	47	3,344	251	1,377	208	22	55	2,397	195	916	6,093	480	2,395





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

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

**CIRCUMSTANCE**

Type Consist	Consist Struck Vehicle	Vehicle Struck Consist	Lead Unit	-----Part Of Consist Struck-----					-----Visibility-----			
				-----Quarter-----					Dawn	Day	Dusk	Dark
				1	2	3	4	Unknown				
Train (Units Pulling).	3,696	1,293	822	197	85	71	93	25	117	2,773	172	1,927
Train (Units Pushing).	281	119	60	17	10	9	21	2	12	170	15	203
Train (Standing).....	---	95	19	19	21	15	21	---	1	13	---	81
Cars (Moving).....	104	53	49	---	---	---	3	1	---	144	2	11
Cars (Standing).....	---	6	5	---	---	---	1	---	1	4	1	---
Light Locos (Moving)..	328	110	99	---	---	---	7	4	13	237	17	171
Light Locos (Standing)	---	7	7	---	---	---	---	---	---	2	1	4
Other.....	---	---	---	---	---	---	---	---	---	1	---	---
Total.....	4,410	1,683	1,061	233	116	95	146	32	144	3,344	208	2,397

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

**TABLE 18. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRAIN SPEED AND TYPE OF TRAIN**

Speed Of Consist	----Freight----			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Standing.....	69	8	34	---	---	---	25	4	9	14	---	5	108	12	48
1-9.....	681	10	143	17	---	1	514	11	122	354	5	68	1,566	26	334
10-19.....	812	21	349	19	---	1	153	---	60	161	---	62	1,145	21	472
20-29.....	958	43	499	51	6	19	34	---	15	84	2	49	1,127	51	582
30-39.....	856	89	397	45	2	14	6	1	4	35	7	14	942	99	429
40-49.....	690	138	307	25	6	6	5	---	3	35	6	14	755	150	330
50-59.....	234	64	115	17	2	4	---	---	---	10	7	5	261	73	124
60-69.....	56	16	23	42	8	23	---	---	---	2	---	---	100	24	46
70-79.....	9	5	3	48	18	20	---	---	---	---	---	---	57	23	23
80-89.....	---	---	---	3	---	---	---	---	---	---	---	---	3	---	---
90 and over.....	---	---	---	2	1	---	---	---	---	---	---	---	2	1	---
Unknown.....	14	---	5	3	---	---	5	---	1	5	---	1	27	---	7
Total.....	4,379	394	1,875	272	43	88	742	16	214	700	27	218	6,093	480	2,395

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

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

Number Of Cars	---Freight---			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1-9.....	709	45	290	189	35	70	425	7	131	212	4	71	1,535	91	562
10-19.....	481	32	177	66	5	15	157	4	31	22	---	8	726	41	231
20-29.....	306	24	146	3	1	2	60	1	18	9	---	2	378	26	168
30-39.....	286	27	155	---	---	---	28	---	6	6	1	2	320	28	163
40-49.....	295	47	158	---	---	---	17	1	13	1	---	---	313	48	171
50-59.....	308	27	114	---	---	---	12	2	1	1	---	---	321	29	115
60-69.....	308	38	113	---	---	---	7	---	2	1	---	---	316	38	115
70-79.....	316	35	126	---	---	---	5	---	---	3	---	1	324	35	127
80-89.....	245	25	93	---	---	---	2	---	2	2	1	1	249	26	96
90-99.....	309	29	119	---	---	---	2	---	1	---	---	---	311	29	120
100-109.....	219	14	125	---	---	---	3	---	3	---	---	---	222	14	128
110-119.....	290	27	116	---	---	---	2	1	---	2	1	---	294	29	116
120-129.....	110	7	55	---	---	---	---	---	---	1	---	1	111	7	56
130-139.....	55	3	35	---	---	---	2	---	2	---	---	---	57	3	37
140-149.....	52	10	23	---	---	---	---	---	---	1	---	---	53	10	23
150 And over.....	50	1	16	---	---	---	---	---	---	---	---	---	50	1	16
Locomotives only.	40	3	14	14	2	1	20	---	4	439	20	132	513	25	151
Total.....	4,379	394	1,875	272	43	88	742	16	214	700	27	218	6,093	480	2,395

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

**TABLE 20. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION**

**VISIBILITY**

Number Of Cars	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
<b>RAIL CONSIST STRUCK HIGHWAY USER</b>															
1-9.....	14	---	3	740	49	279	35	6	4	284	12	88	1,073	67	374
10-19.....	14	---	3	322	17	108	19	1	3	155	9	42	510	27	156
20-29.....	10	---	---	147	11	75	15	2	3	97	5	35	269	18	113
30-39.....	8	1	1	113	9	65	10	4	7	100	9	45	231	23	118
40-49.....	12	3	3	115	18	54	7	1	1	101	18	39	235	40	97
50-59.....	8	---	1	129	16	52	13	---	4	99	6	28	249	22	85
60-69.....	6	---	---	114	16	44	5	---	3	107	19	32	232	35	79
70-79.....	6	1	3	135	13	64	8	1	1	98	14	26	247	29	94
80-89.....	4	---	1	93	5	35	12	3	5	71	12	23	180	20	64
90-99.....	5	3	3	112	14	38	9	1	2	101	8	21	227	26	64
100-109.....	2	1	3	81	5	39	2	---	2	75	7	33	160	13	77
110-119.....	4	---	5	110	15	43	10	1	5	93	3	35	217	19	88
120-129.....	2	---	3	53	4	32	2	---	1	31	1	4	88	5	40
130-139.....	1	---	---	16	1	11	---	---	---	25	1	21	42	2	32
140-149.....	---	---	---	19	7	5	1	---	---	18	2	11	38	9	16
150 And over.....	3	---	3	15	---	3	1	---	1	19	1	6	38	1	13
Locomotives only.	10	1	3	209	14	46	16	---	5	139	6	48	374	21	102
Total.....	109	10	35	2,523	214	993	165	20	47	1,613	133	537	4,410	377	1,612
<b>HIGHWAY USER STRUCK RAIL CONSIST</b>															
1-9.....	7	---	1	283	12	113	12	---	2	160	12	72	462	24	188
10-19.....	5	1	3	110	5	37	6	2	1	95	6	34	216	14	75
20-29.....	2	---	---	46	2	26	4	---	1	57	6	28	109	8	55
30-39.....	3	---	---	36	1	20	3	---	---	47	4	25	89	5	45
40-49.....	2	---	4	38	4	46	1	---	---	37	4	24	78	8	74
50-59.....	1	---	---	27	1	11	---	---	---	44	6	19	72	7	30
60-69.....	2	---	1	39	1	15	3	---	1	40	2	19	84	3	36
70-79.....	1	1	---	28	1	12	4	---	---	44	4	21	77	6	33
80-89.....	1	---	1	30	3	13	1	---	---	37	3	18	69	6	32
90-99.....	3	---	2	32	---	21	---	---	---	49	3	33	84	3	56
100-109.....	1	---	---	23	1	28	1	---	---	37	---	23	62	1	51
110-119.....	3	---	---	33	3	17	---	---	---	41	7	11	77	10	28
120-129.....	---	---	---	10	1	8	1	---	1	12	1	7	23	2	16
130-139.....	---	---	---	6	---	2	---	---	---	9	1	3	15	1	5
140-149.....	---	---	---	5	---	1	1	---	---	9	1	6	15	1	7
150 And over.....	1	---	---	3	---	---	---	---	---	8	---	3	12	---	3
Locomotives only.	3	---	---	72	2	14	6	---	2	58	2	33	139	4	49
Total.....	35	2	12	821	37	384	43	2	8	784	62	379	1,683	103	783
<b>GRAND TOTAL</b>															
1-9.....	21	---	4	1,023	61	392	47	6	6	444	24	160	1,535	91	562
10-19.....	19	1	6	432	22	145	25	3	4	250	15	76	726	41	231
20-29.....	12	---	---	193	13	101	19	2	4	154	11	63	378	26	168
30-39.....	11	1	1	149	10	85	13	4	7	147	13	70	320	28	163
40-49.....	14	3	7	153	22	100	8	1	1	138	22	63	313	48	171
50-59.....	9	---	1	156	17	63	13	---	4	143	12	47	321	29	115
60-69.....	8	---	1	153	17	59	8	---	4	147	21	51	316	38	115
70-79.....	7	2	3	163	14	76	12	1	1	142	18	47	324	35	127
80-89.....	5	---	2	123	8	48	13	3	5	108	15	41	249	26	96
90-99.....	8	3	5	144	14	59	9	1	2	150	11	54	311	29	120
100-109.....	3	1	3	104	6	67	3	---	2	112	7	56	222	14	128
110-119.....	7	---	5	143	18	60	10	1	5	134	10	46	294	29	116
120-129.....	2	---	3	63	5	40	3	---	2	43	2	11	111	7	56
130-139.....	1	---	---	22	1	13	---	---	---	34	2	24	57	3	37
140-149.....	---	---	---	24	7	6	2	---	---	27	3	17	53	10	23
150 And over.....	4	---	3	18	---	3	1	---	1	27	1	9	50	1	16
Locomotives only.	13	1	3	281	16	60	22	---	7	197	8	81	513	25	151
Total.....	144	12	47	3,344	251	1,377	208	22	55	2,397	195	916	6,093	480	2,395

**TABLE 21. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY TRACK TYPE AND TRACK CLASS**

**TRACK TYPE**

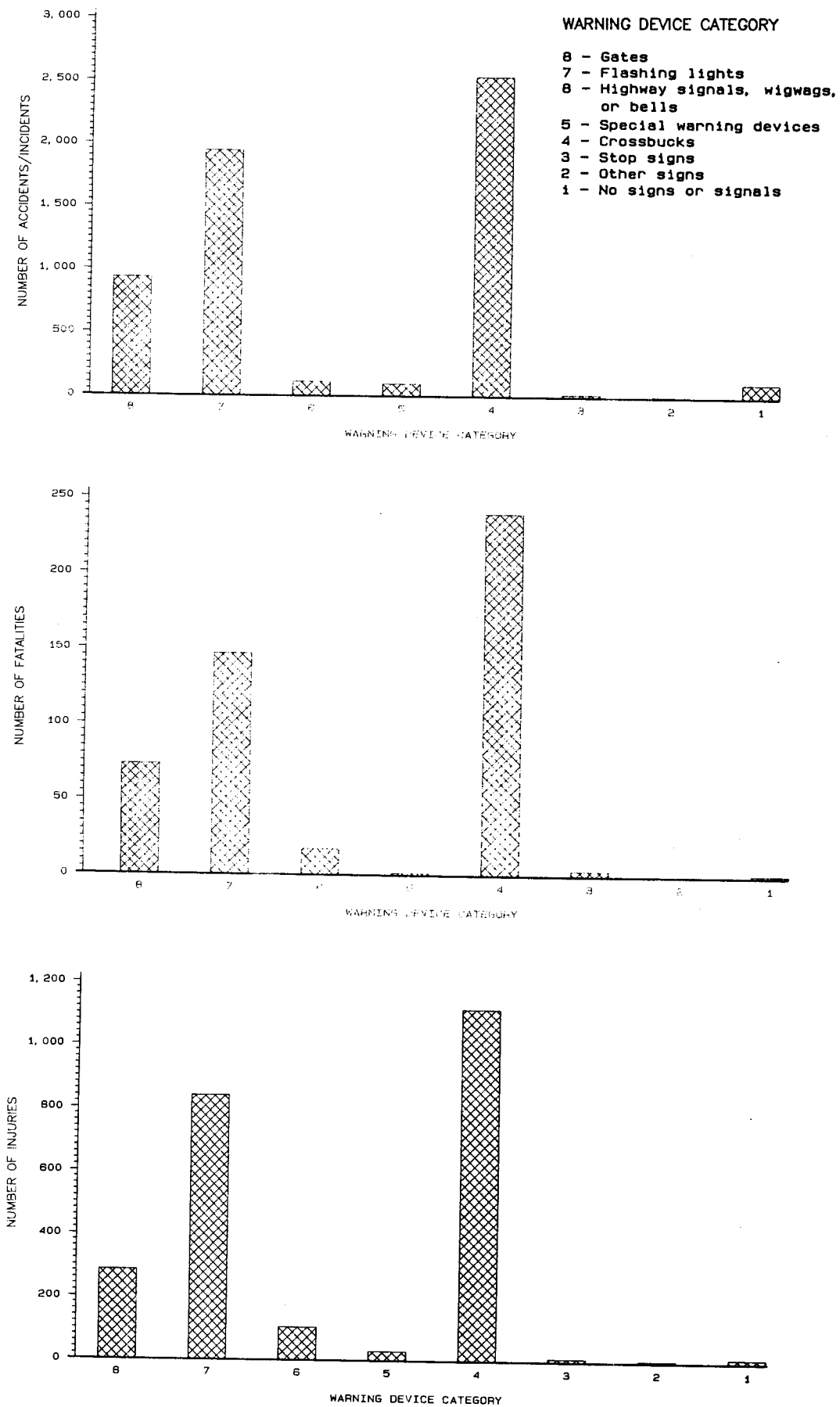
Track Class	-----Main-----			-----Yard-----			-----Siding-----			-----Industry-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1.....	765	19	246	311	4	54	59	---	3	192	5	48	---	---	---	1,327	28	351
2.....	1,139	42	478	79	---	23	20	1	5	30	3	11	---	---	---	1,268	46	517
3.....	1,800	170	840	29	1	4	5	---	1	14	---	3	---	---	---	1,848	171	848
4.....	1,377	208	592	7	---	2	6	---	---	18	1	4	---	---	---	1,408	209	598
5.....	106	20	33	---	---	---	---	---	---	1	---	---	---	---	---	107	20	33
6.....	2	---	2	---	---	---	---	---	---	---	---	---	---	---	---	2	---	2
Unknown.....	66	4	21	35	---	12	6	---	6	26	2	7	---	---	---	133	6	46
Total....	5,255	463	2,212	461	5	95	96	1	15	281	11	73	---	---	---	6,093	480	2,395

**WARNING DEVICE DATA**

**TABLE 22. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY AND MOTORIST ACTION**

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	416	48	176	32	---	13	153	16	55	343	7	37	17	2	3	961	73	284
Cantilever flshrs	---	---	---	27	1	8	298	18	166	86	1	31	3	---	1	414	20	206
Standard flashers	---	---	---	102	4	26	1,049	107	512	378	13	91	16	2	4	1,545	126	633
Hwy Sig,W W,Bells	---	---	---	20	---	9	178	13	80	76	4	11	7	---	3	281	17	103
Special Devices..	---	---	---	13	---	3	94	1	22	25	---	4	1	---	---	133	1	29
Crossbucks.....	---	---	---	121	12	43	1,718	137	843	689	35	181	75	5	48	2,603	239	1,115
Stopsigns.....	---	---	---	3	---	---	23	3	6	22	---	3	3	---	---	51	3	9
Other Signs.....	---	---	---	1	---	---	7	---	4	9	---	---	---	---	---	17	---	4
No Signs Or Signl	---	---	---	4	---	---	38	1	9	41	---	2	5	---	1	88	1	12
Total.....	416	48	176	323	17	102	3,558	346	1,697	1,669	60	360	127	9	60	6,093	480	2,395

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



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

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

Warning Device	-Device Working--			-----Highway User-----							
	Yes	No	N/A	----Struck By Consist----				----Ran Into Consist----			
				Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	908	28	25	34	325	32	381	10	60	4	115
Cantilever flshrs	400	9	5	5	159	12	81	2	88	2	65
Standard flashers	1,505	18	22	14	628	33	400	4	227	9	230
Hwy Sig,W W,Bells	231	2	48	4	129	5	53	2	43	4	41
Special Devices..	---	---	133	2	35	2	36	2	11	1	44
Crossbucks.....	---	---	2,603	43	1,174	78	605	15	383	23	282
Stopsigns.....	---	---	51	4	20	2	19	---	4	---	2
Other Signs.....	---	---	17	1	6	---	8	---	2	---	---
No Signs Or Signl	---	---	88	2	47	1	30	---	3	---	5
Total.....	3,044	57	2,992	109	2,523	165	1,613	35	821	43	784

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

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

	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Lighted.....	1,044	76	341	445	20	206	1,489	96	547
Not Lighted.....	2,300	214	845	840	61	402	3,140	275	1,247
Not Reported.....	1,028	87	418	388	21	172	1,416	108	590
Total.....	4,410	377	1,612	1,683	103	783	6,093	480	2,395



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

Warning Device	VISIBILITY														
	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
<b>RAIL CONSIST STRUCK HIGHWAY USER</b>															
Automatic, Both Sides.....	52	8	10	1,180	81	421	79	10	15	882	75	294	2,193	174	740
Automatic, Side Of Approach.	4	---	2	53	2	29	2	---	---	29	3	4	88	5	35
Automatic, Opposite Side....	1	---	1	6	---	---	---	---	---	2	2	---	9	2	1
Automatic, Side Not Reported	---	---	---	2	---	---	1	---	---	2	---	---	5	---	---
Manual, Both Sides.....	2	---	---	27	---	4	1	---	---	29	---	5	59	---	9
Manual, Side Of Approach....	---	---	---	4	---	---	1	---	---	3	---	---	8	---	---
Manual, Opposite Side.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
Manual, Side Not Reported...	---	---	---	3	---	1	---	---	---	3	---	1	6	---	2
Other, Both Sides.....	44	1	20	1,103	120	498	77	10	32	594	53	220	1,818	184	770
Other, Side Of Approach....	1	---	2	66	8	14	2	---	---	30	---	9	99	8	25
Other, Opposite Side.....	2	1	---	26	1	17	1	---	---	3	---	1	32	2	18
Other, Side Not Reported....	1	---	---	5	1	4	---	---	---	5	---	1	11	1	5
No Signs Or Signals.....	2	---	---	47	1	5	1	---	---	30	---	2	80	1	7
Total.....	109	10	35	2,523	214	993	165	20	47	1,613	133	537	4,410	377	1,612
<b>HIGHWAY USER STRUCK RAIL CONSIST</b>															
Automatic, Both Sides.....	17	1	8	401	14	224	17	---	4	427	38	203	862	53	439
Automatic, Side Of Approach.	1	---	---	13	---	1	2	---	---	21	1	7	37	1	8
Automatic, Opposite Side....	---	---	---	4	1	1	---	---	---	1	---	---	5	1	1
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	2	---	2	2	---	2
Manual, Both Sides.....	---	---	---	6	---	---	1	---	---	35	---	16	42	---	16
Manual, Side Of Approach....	1	---	---	5	---	1	---	---	---	5	1	---	11	1	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	2	---	1	2	---	1
Manual, Side Not Reported...	1	---	---	---	---	---	---	---	---	2	---	---	3	---	---
Other, Both Sides.....	14	---	4	365	22	152	20	2	3	267	22	134	666	46	293
Other, Side Of Approach....	---	---	---	16	---	3	1	---	---	12	---	9	29	---	12
Other, Opposite Side.....	---	---	---	5	---	---	1	---	---	4	---	2	10	---	2
Other, Side Not Reported....	1	1	---	3	---	2	1	---	1	1	---	---	6	1	3
No Signs Or Signals.....	---	---	---	3	---	---	---	---	---	5	---	5	8	---	5
Total.....	35	2	12	821	37	384	43	2	8	784	62	379	1,683	103	783
<b>GRAND TOTAL</b>															
Automatic, Both Sides.....	69	9	18	1,581	95	645	96	10	19	1,309	113	497	3,055	227	1,179
Automatic, Side Of Approach.	5	---	2	66	2	30	4	---	---	50	4	11	125	6	43
Automatic, Opposite Side....	1	---	1	10	1	1	---	---	---	3	2	---	14	3	2
Automatic, Side Not Reported	---	---	---	2	---	---	1	---	---	4	---	2	7	---	2
Manual, Both Sides.....	2	---	---	33	---	4	2	---	---	64	---	21	101	---	25
Manual, Side Of Approach....	1	---	---	9	---	1	1	---	---	8	1	---	19	1	1
Manual, Opposite Side.....	---	---	---	1	---	---	---	---	---	3	---	1	4	---	1
Manual, Side Not Reported...	1	---	---	3	---	1	---	---	---	5	---	1	9	---	2
Other, Both Sides.....	58	1	24	1,468	142	650	97	12	35	861	75	354	2,484	230	1,063
Other, Side Of Approach....	1	---	2	82	8	17	3	---	---	42	---	18	128	8	37
Other, Opposite Side.....	2	1	---	31	1	17	2	---	---	7	---	3	42	2	20
Other, Side Not Reported....	2	1	---	8	1	6	1	---	1	6	---	1	17	2	8
No Signs Or Signals.....	2	---	---	50	1	5	1	---	---	35	---	7	88	1	12
Total.....	144	12	47	3,344	251	1,377	208	22	55	2,397	195	916	6,093	480	2,395

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

TIME, DAY AND WEATHER DATA

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

Visibility	CIRCUMSTANCE						-----Total-----		
	Struck By Consist			Ran Into Consist			A/I	Kld	Inj
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	109	10	35	35	2	12	144	12	47
Day.....	2,523	214	993	821	37	384	3,344	251	1,377
Dusk.....	165	20	47	43	2	8	208	22	55
Dark.....	1,613	133	537	784	62	379	2,397	195	916
Total.....	4,410	377	1,612	1,683	103	783	6,093	480	2,395

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

Temperature	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	8	---	---	---	3	---	---	---	11	---	---
80 To 100.....	1	632	23	86	---	190	4	41	1	822	27	127
60 To 79.....	38	823	55	503	11	264	17	251	49	1,087	72	754
40 To 59.....	32	501	41	489	10	141	10	244	42	642	51	733
20 To 39.....	29	415	31	374	10	148	7	160	39	563	38	534
0 To 19.....	5	130	14	150	4	67	5	80	9	197	19	230
-20 To -1.....	4	13	1	10	---	8	---	8	4	21	1	18
Under -20.....	---	1	---	1	---	---	---	---	---	1	---	1
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	109	2,523	165	1,613	35	821	43	784	144	3,344	208	2,397

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

TIME	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	154	15	48	81	5	55	235	20	103
1 TO 1:59 AM...	118	6	41	80	10	47	198	16	88
2 TO 2:59 AM...	95	3	35	74	11	34	169	14	69
3 TO 3:59 AM...	83	3	22	50	8	27	133	11	49
4 TO 4:59 AM...	64	10	24	43	3	23	107	13	47
5 TO 5:59 AM...	76	6	19	42	2	21	118	8	40
6 TO 6:59 AM...	120	12	32	46	3	19	166	15	51
7 TO 7:59 AM...	186	17	66	44	2	22	230	19	88
8 TO 8:59 AM...	182	17	84	62	2	25	244	19	109
9 TO 9:59 AM...	208	20	82	74	2	23	282	22	105
10 TO 10:59 AM.	213	8	89	85	2	47	298	10	136
11 TO 11:59 AM.	247	24	86	71	2	29	318	26	115
NOON TO 12:59 PM.	204	21	78	70	7	58	274	28	136
1 TO 1:59 PM...	265	24	106	72	2	38	337	26	144
2 TO 2:59 PM...	237	18	83	84	5	38	321	23	121
3 TO 3:59 PM...	288	21	137	72	3	43	360	24	180
4 TO 4:59 PM...	253	19	86	72	3	17	325	22	103
5 TO 5:59 PM...	251	30	87	65	5	21	316	35	108
6 TO 6:59 PM...	230	18	86	88	4	25	318	22	111
7 TO 7:59 PM...	201	27	73	71	6	27	272	33	100
8 TO 8:59 PM...	186	13	71	79	2	37	265	15	108
9 TO 9:59 PM...	180	14	53	91	2	34	271	16	87
10 TO 10:59 PM.	195	16	68	85	9	28	280	25	96
11 TO 11:59 PM.	174	15	56	82	3	45	256	18	101
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	4,410	377	1,612	1,683	103	783	6,093	480	2,395

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

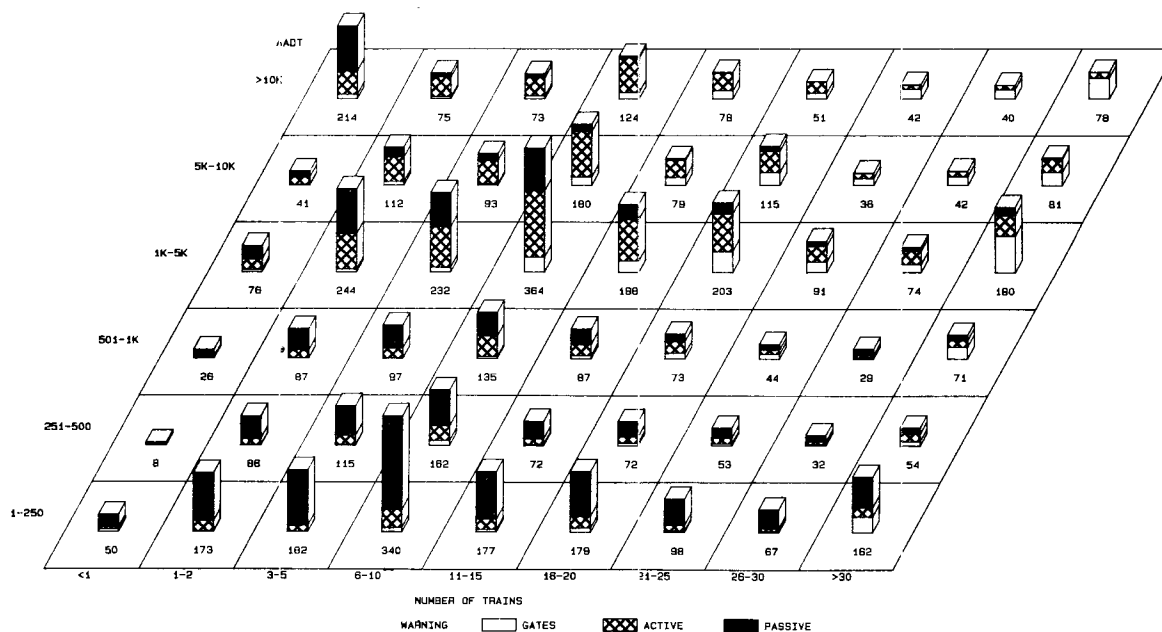
Month	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	526	45	175	212	5	81	738	50	256
February.....	429	29	164	157	4	60	586	33	224
March.....	348	26	142	135	11	70	483	37	212
April.....	320	29	113	109	4	54	429	33	167
May.....	288	26	77	122	14	79	410	40	156
June.....	337	26	116	109	6	44	446	32	160
July.....	300	16	128	123	12	62	423	28	190
August.....	351	22	117	125	9	72	476	31	189
September.....	309	22	107	118	9	51	427	31	158
October.....	384	41	173	156	17	98	540	58	271
November.....	350	46	101	152	7	55	502	53	156
December.....	468	49	199	165	5	57	633	54	256
Total.....	4,410	377	1,612	1,683	103	783	6,093	480	2,395

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

**CIRCUMSTANCE**

Weather	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	58	1,733	93	879	17	501	23	471	75	2,234	116	1,350
Cloudy.....	29	530	34	418	9	180	14	169	38	710	48	587
Rain.....	9	142	24	196	4	93	6	81	13	235	30	277
Fog.....	7	22	---	39	1	7	---	19	8	29	---	58
Sleet.....	---	7	1	11	---	1	---	5	---	8	1	16
Snow.....	6	89	13	69	4	38	---	39	10	127	13	108
Not Reported.....	---	---	---	1	---	1	---	---	---	1	---	1
<b>Total.....</b>	<b>109</b>	<b>2,523</b>	<b>165</b>	<b>1,613</b>	<b>35</b>	<b>821</b>	<b>43</b>	<b>784</b>	<b>144</b>	<b>3,344</b>	<b>208</b>	<b>2,397</b>

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



**MOTORIST ACTION DATA**

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

**CIRCUMSTANCE**

Type Obstruction	----Struck By Consist----				----Ran Into Consist-----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	6	98	3	50	1	29	1	19	7	127	4	69
Standing RR Equipment.	1	21	---	9	---	5	---	5	1	26	---	14
Passing Train.....	---	7	4	8	---	6	---	2	---	13	4	10
Topography.....	---	32	---	11	---	7	---	6	---	39	---	17
Vegetation.....	3	55	4	12	---	20	1	7	3	75	5	19
Highway Vehicle.....	---	10	---	2	---	2	---	---	---	12	---	2
Other.....	2	23	3	6	---	9	---	6	2	32	3	12
Not Obstructed.....	97	2,275	151	1,515	34	742	41	739	131	3,017	192	2,254
Unknown.....	---	2	---	---	---	1	---	---	---	3	---	---
<b>Total.....</b>	<b>109</b>	<b>2,523</b>	<b>165</b>	<b>1,613</b>	<b>35</b>	<b>821</b>	<b>43</b>	<b>784</b>	<b>144</b>	<b>3,344</b>	<b>208</b>	<b>2,397</b>

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

**MOTORIST ACTION**

Type Of Vehicle	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	125	3,979	55	157	3,671	331
Truck.....	45	1,324	24	39	1,250	104
Truck-trailer....	12	453	10	9	438	28
Bus.....	---	17	---	---	15	2
School bus.....	---	3	---	---	3	---
Motorcycle.....	---	45	1	2	37	7
<b>Total.....</b>	<b>182</b>	<b>5,821</b>	<b>90</b>	<b>207</b>	<b>5,414</b>	<b>472</b>

### 3. RAIL-HIGHWAY CROSSING ACCIDENT RATES

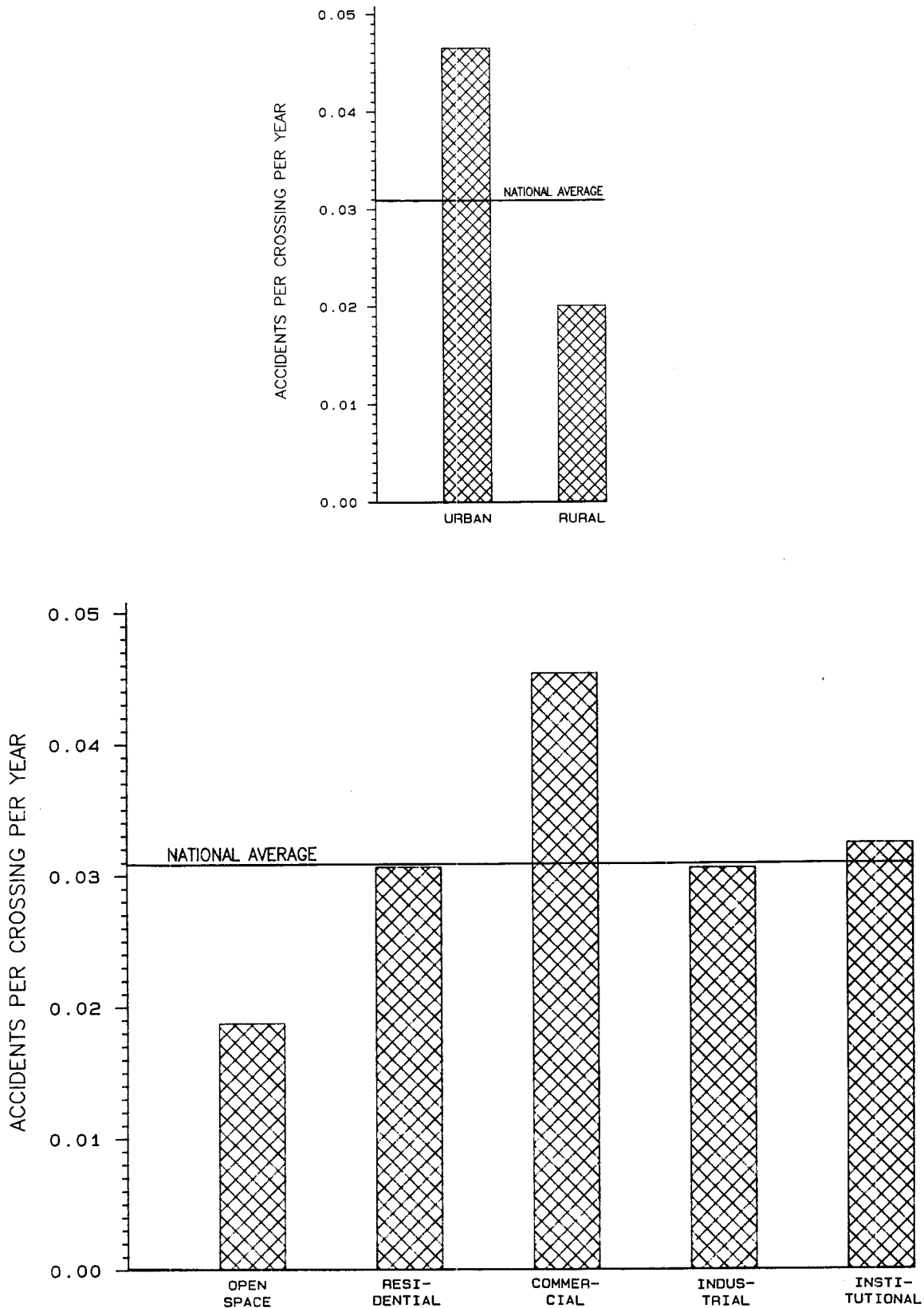
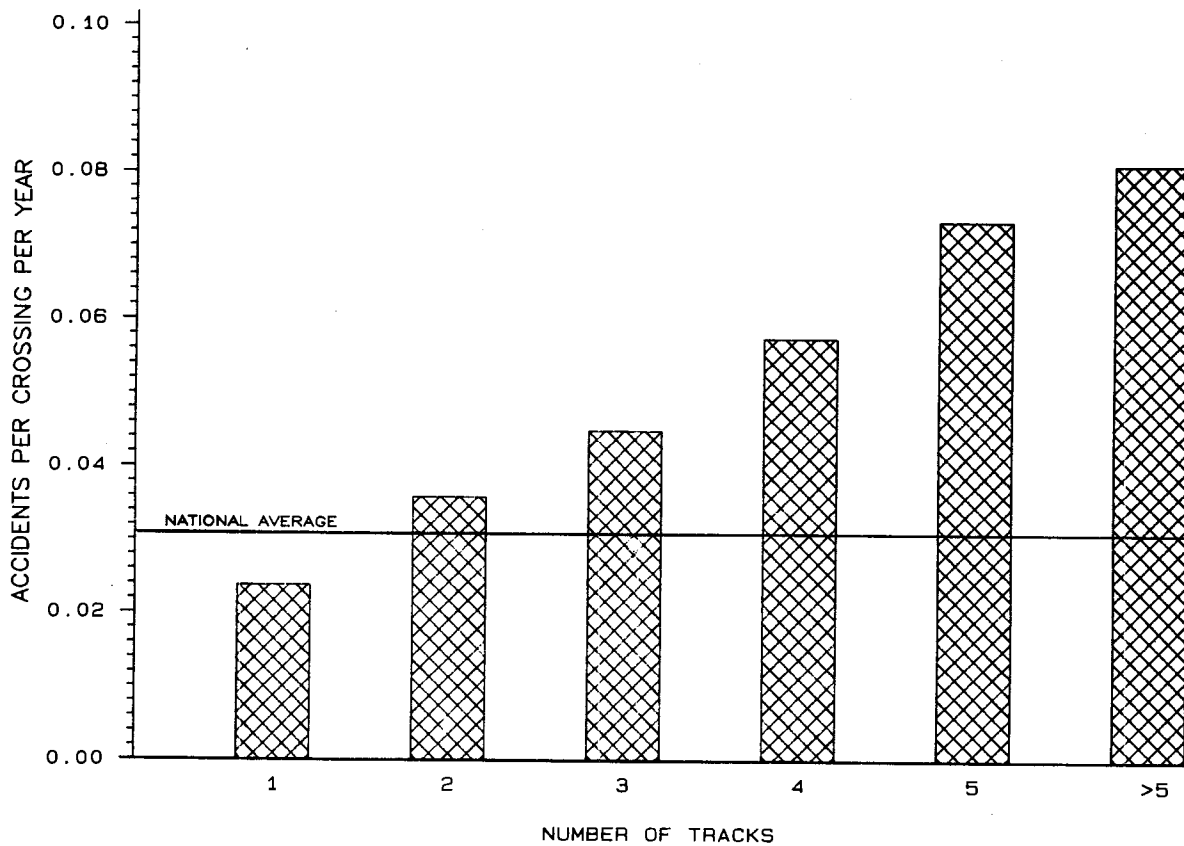
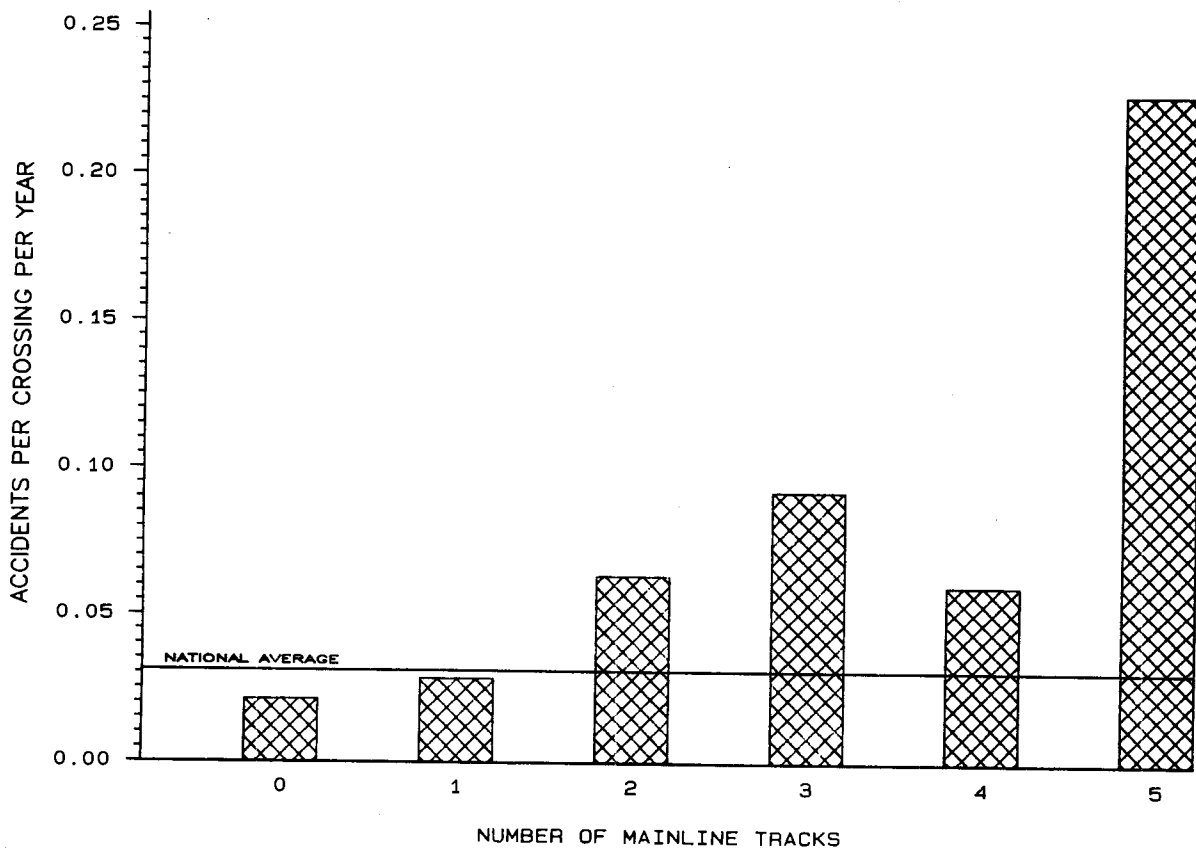


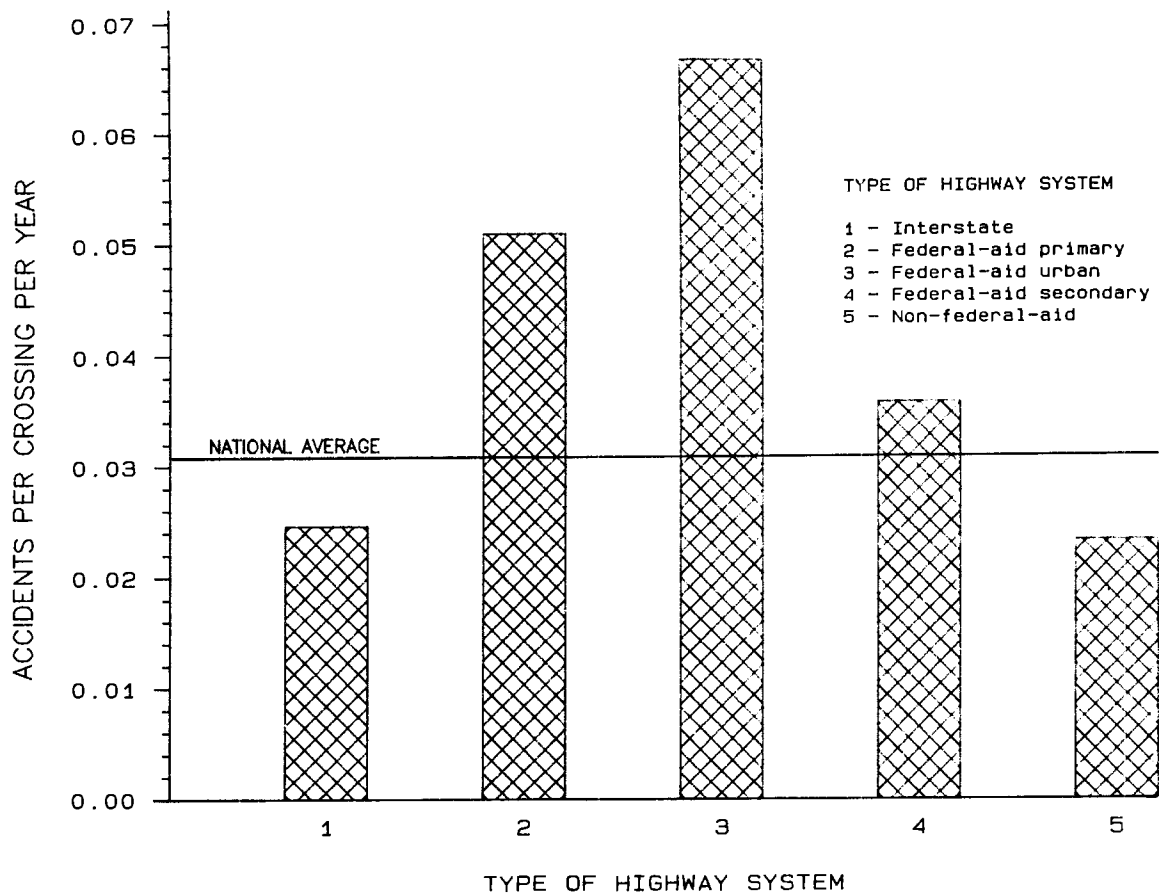
FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT



**FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS**

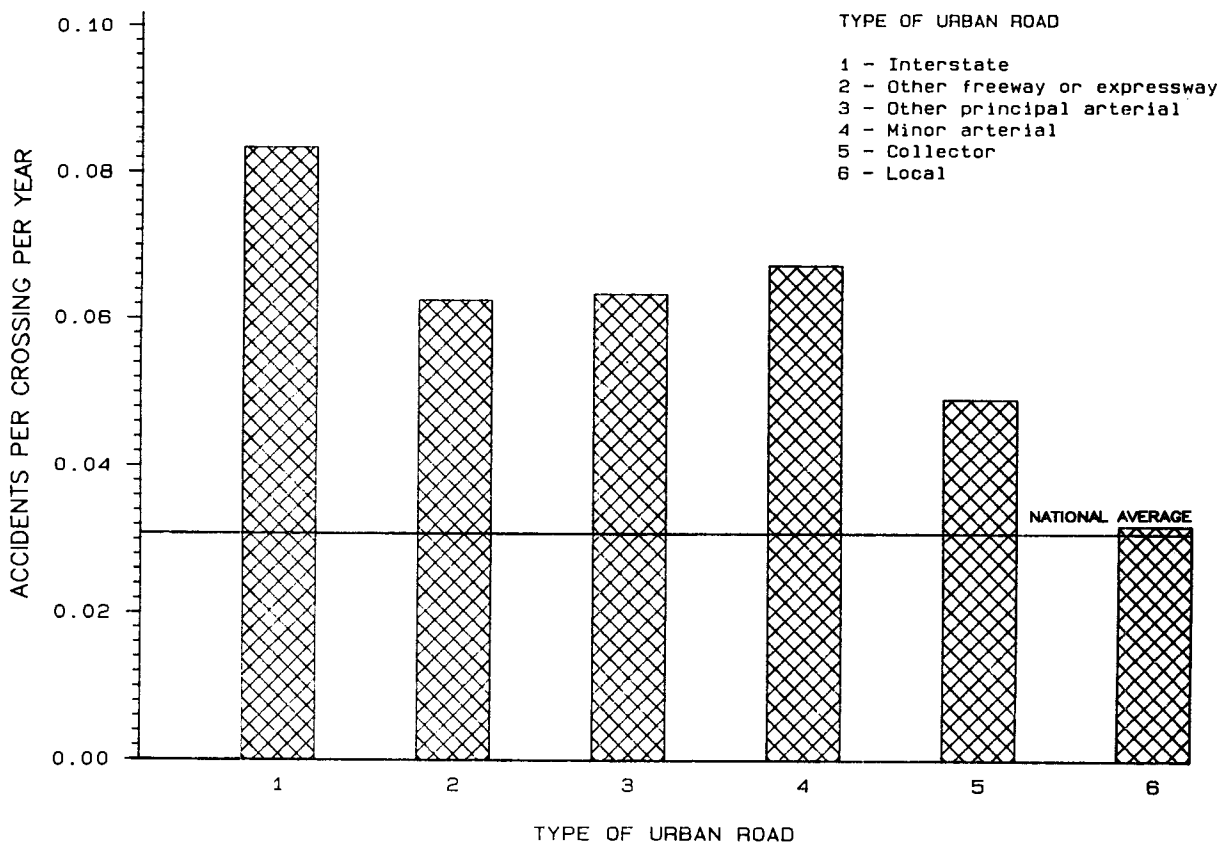


**FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS**

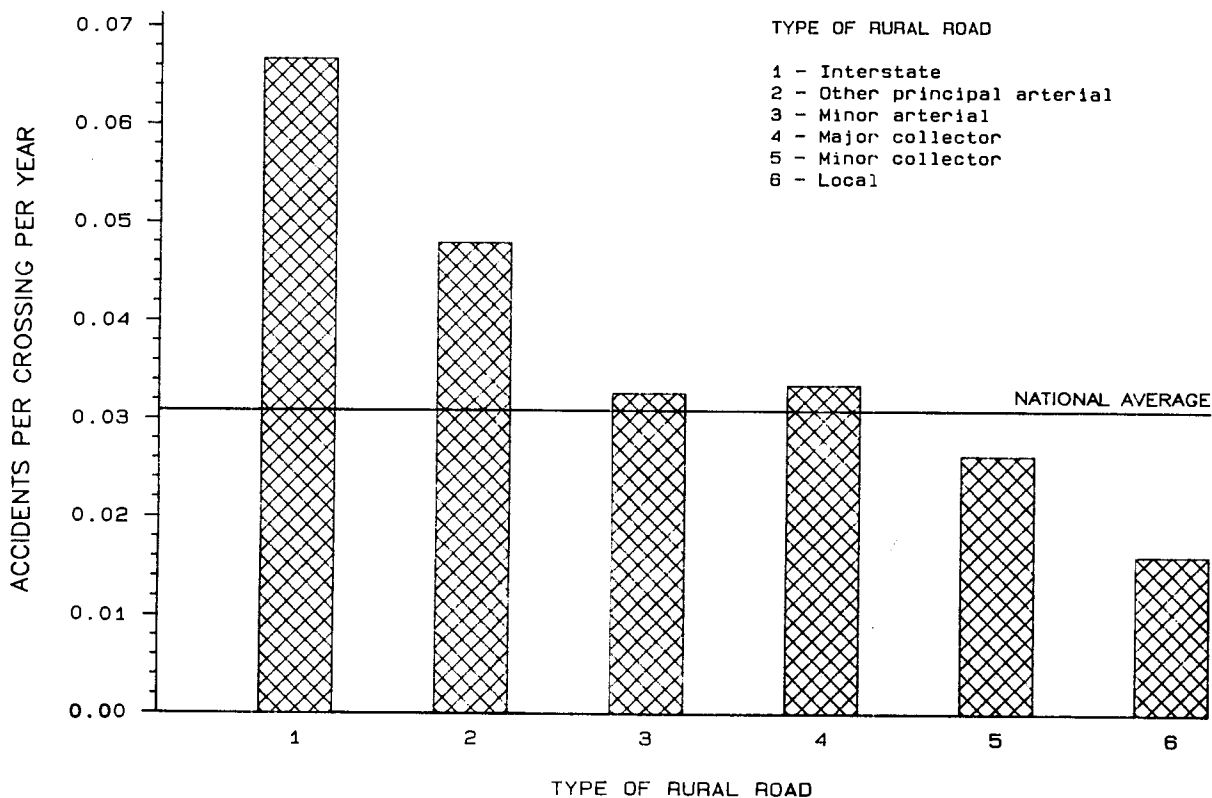


**FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM**

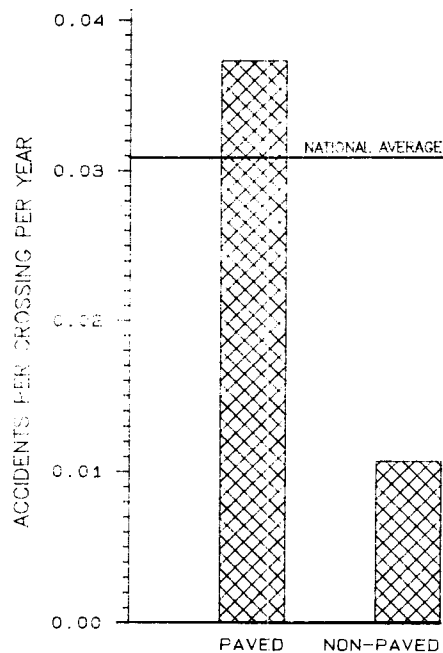




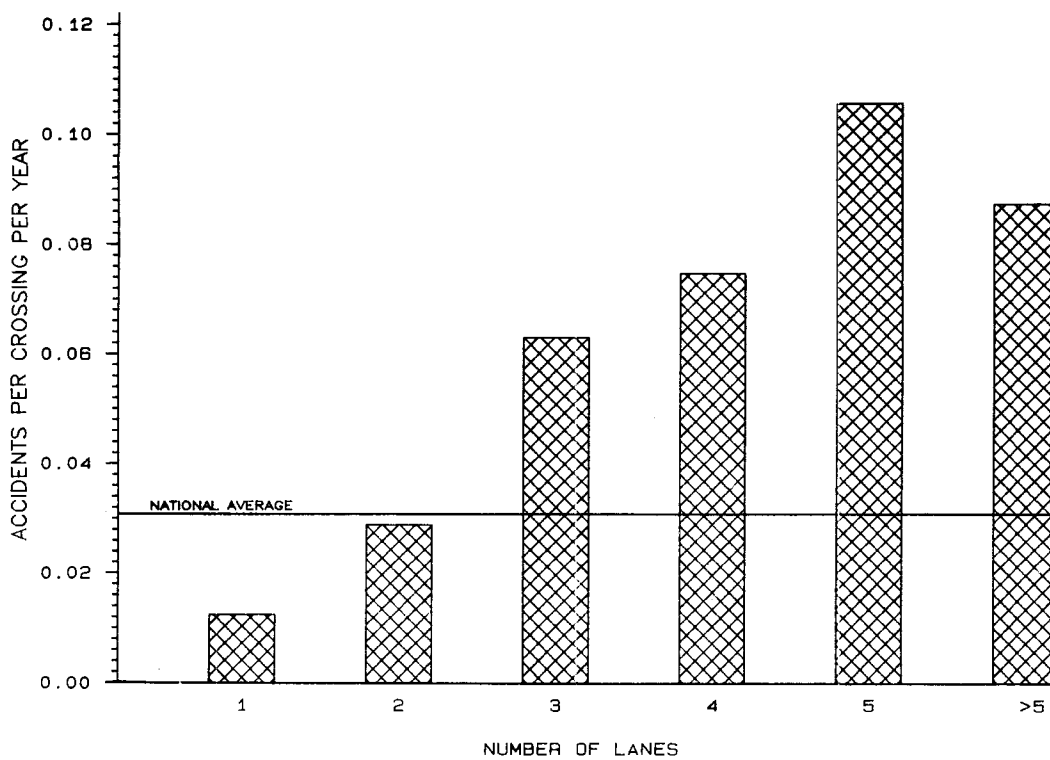
**FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD**



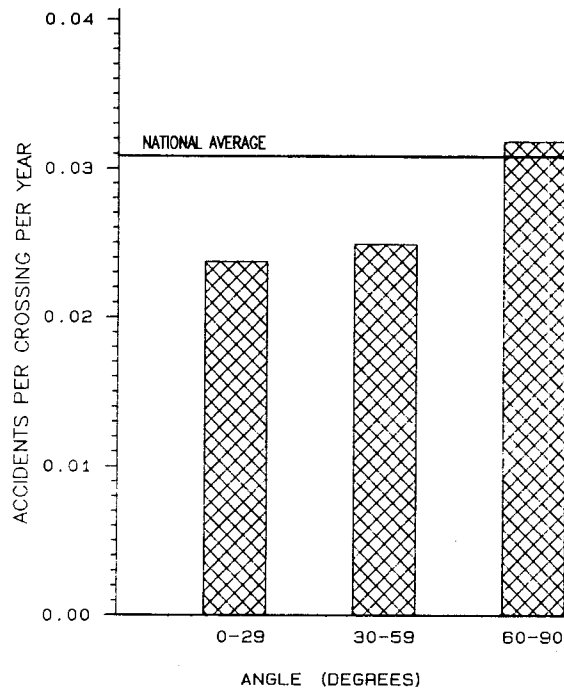
**FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD**



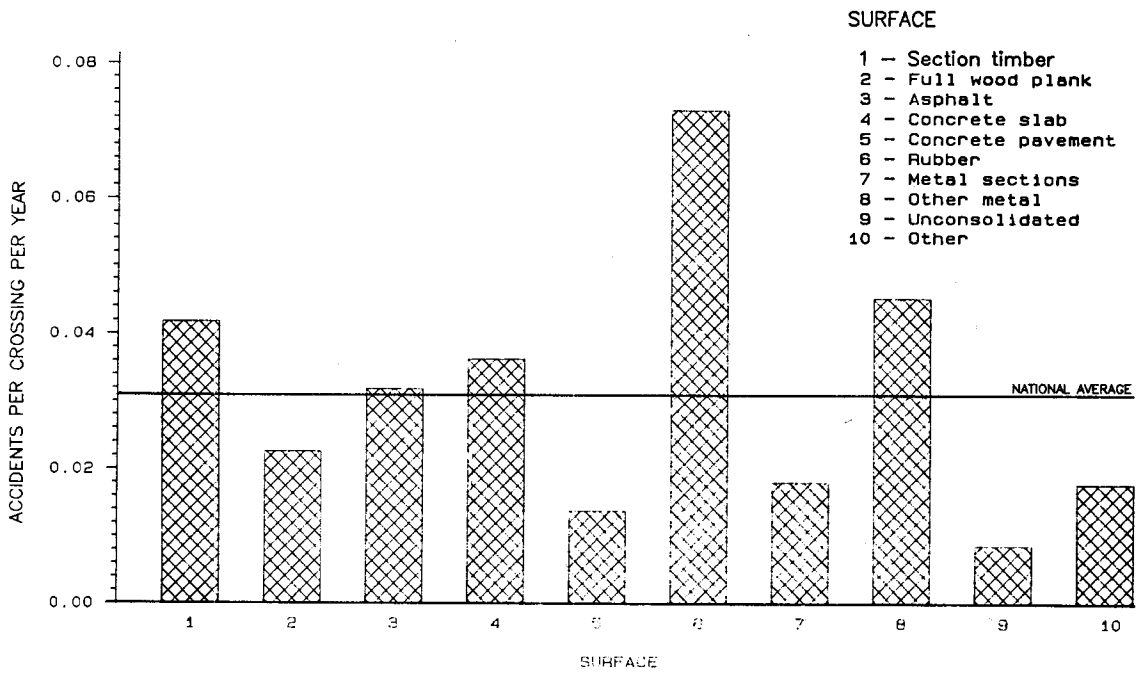
**FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE**



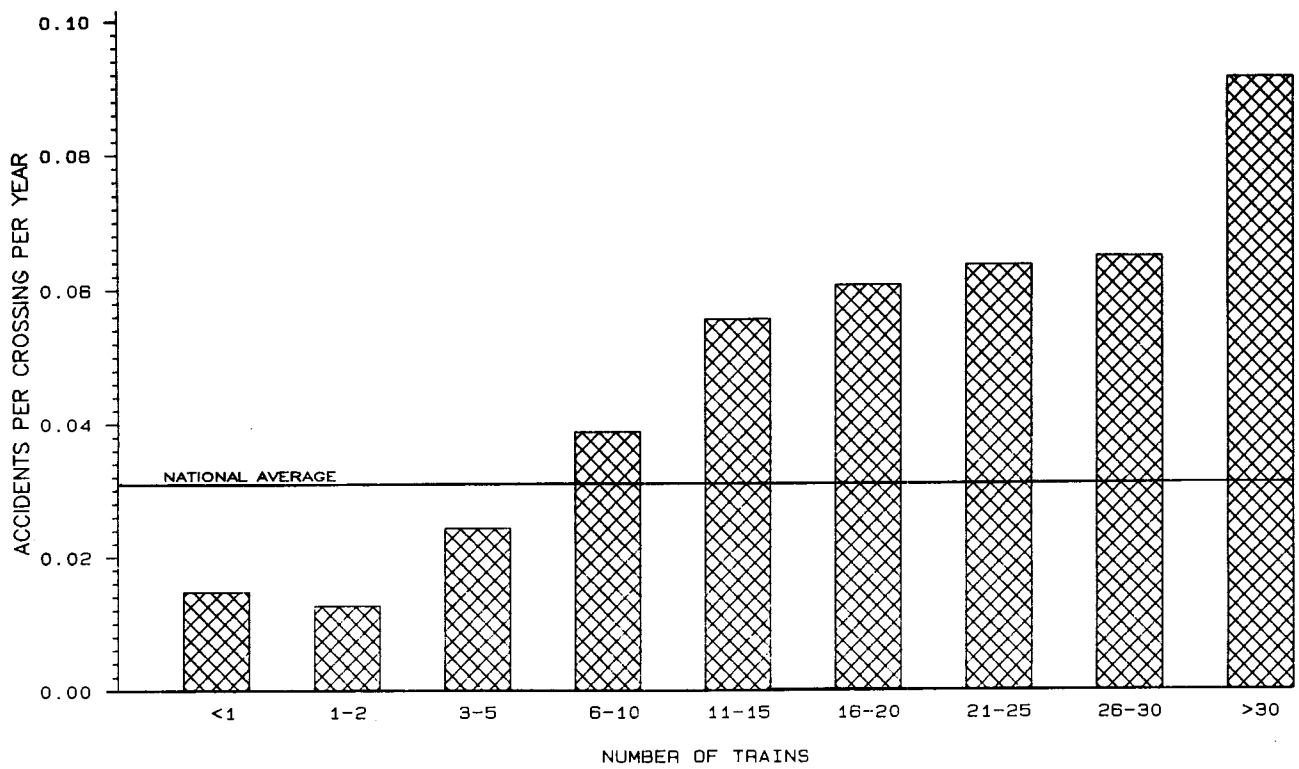
**FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES**



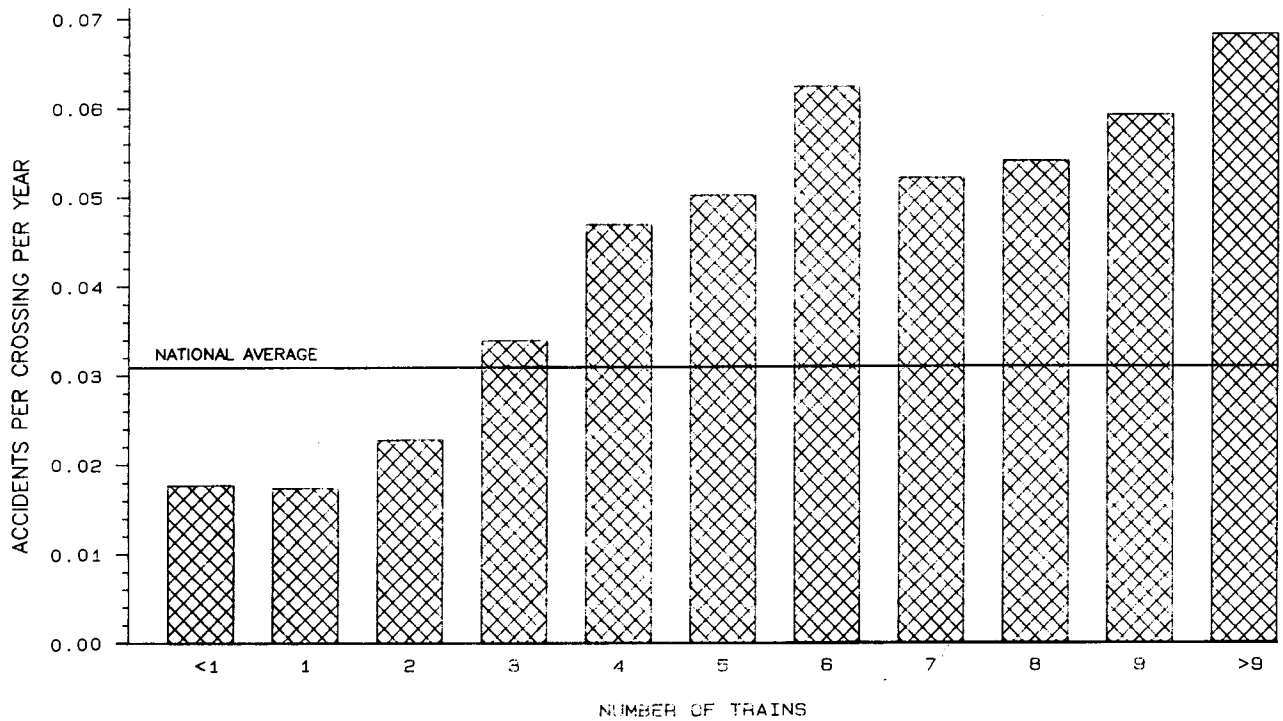
**FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE**



**FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE**



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



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

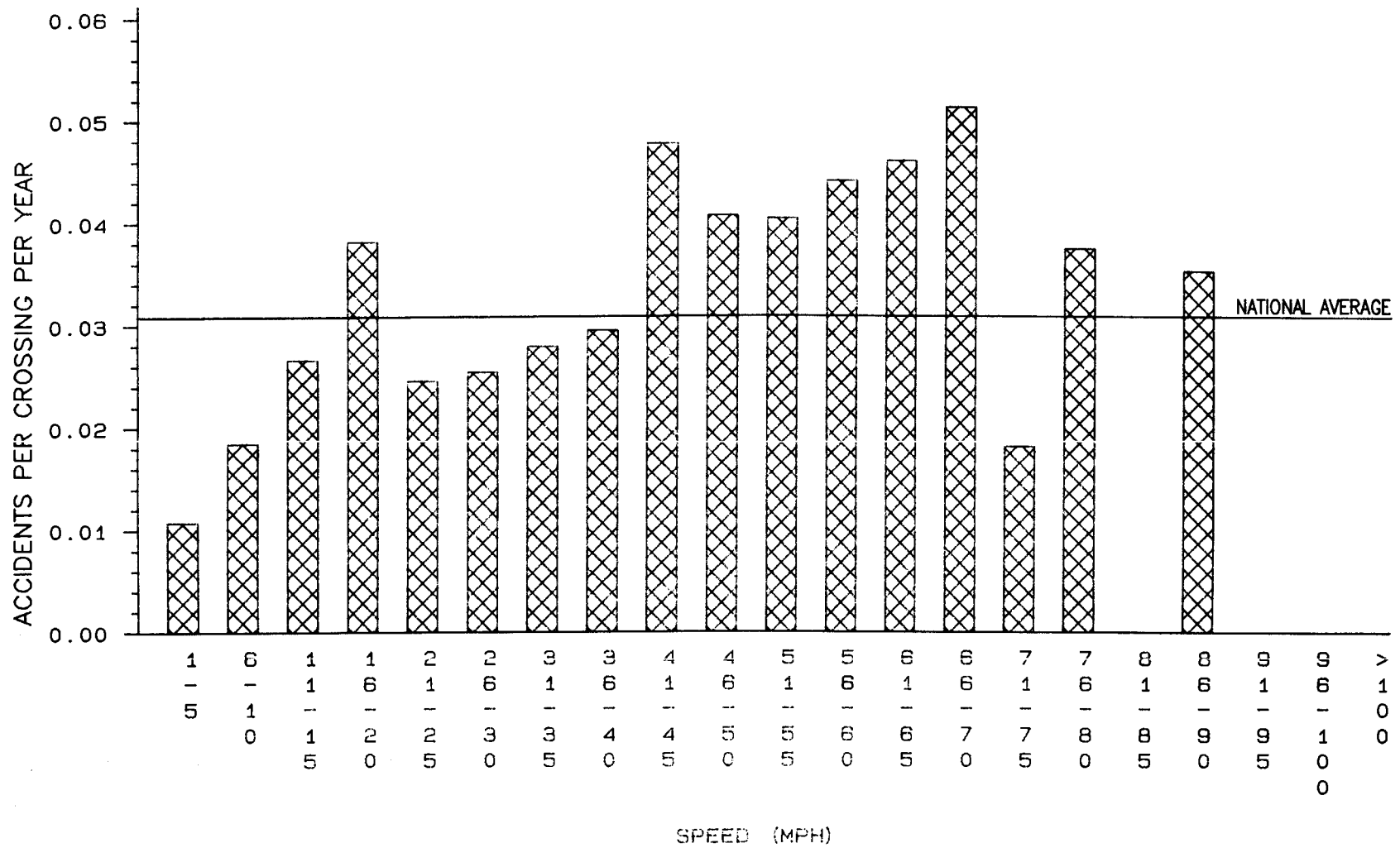


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

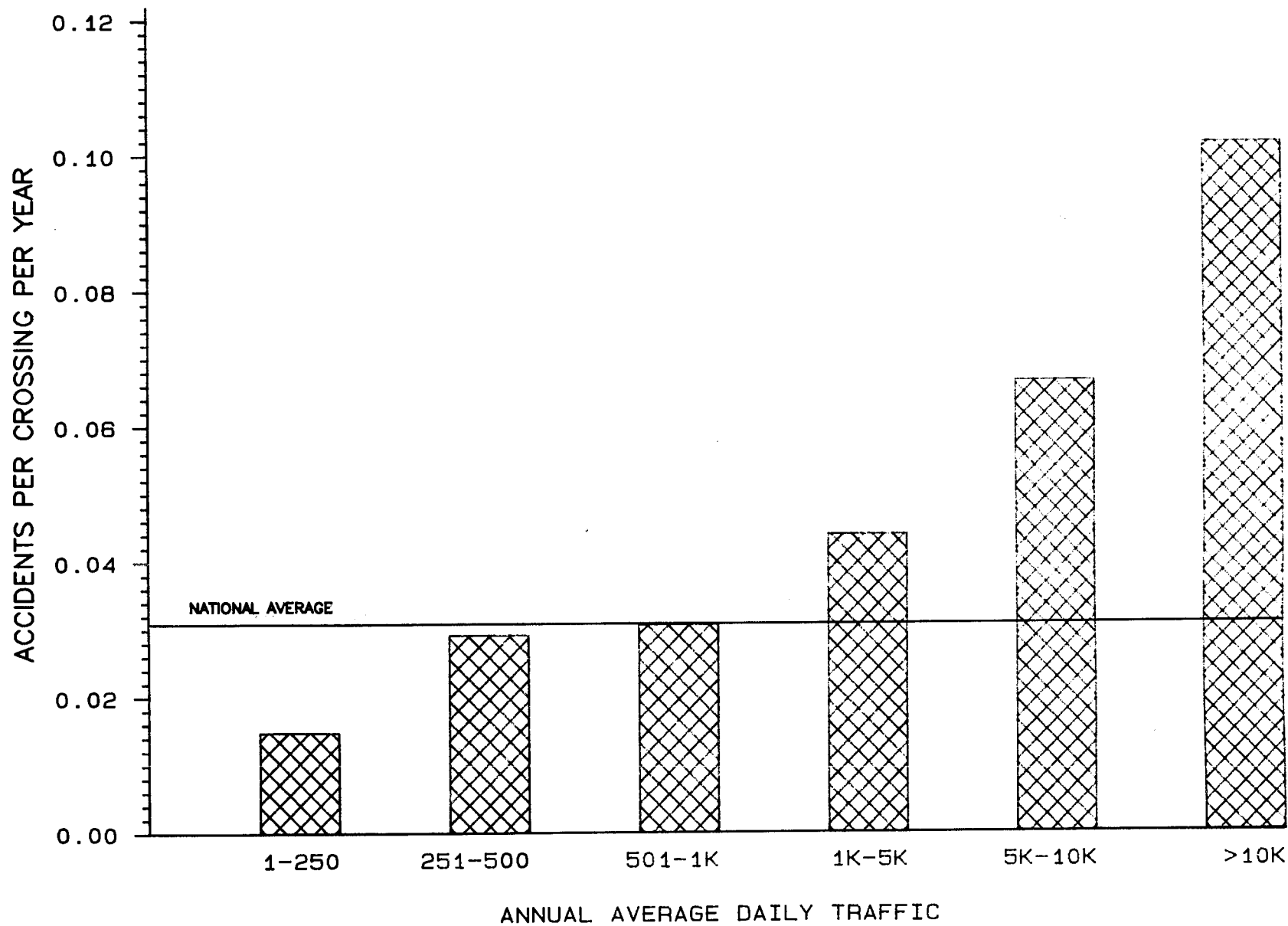
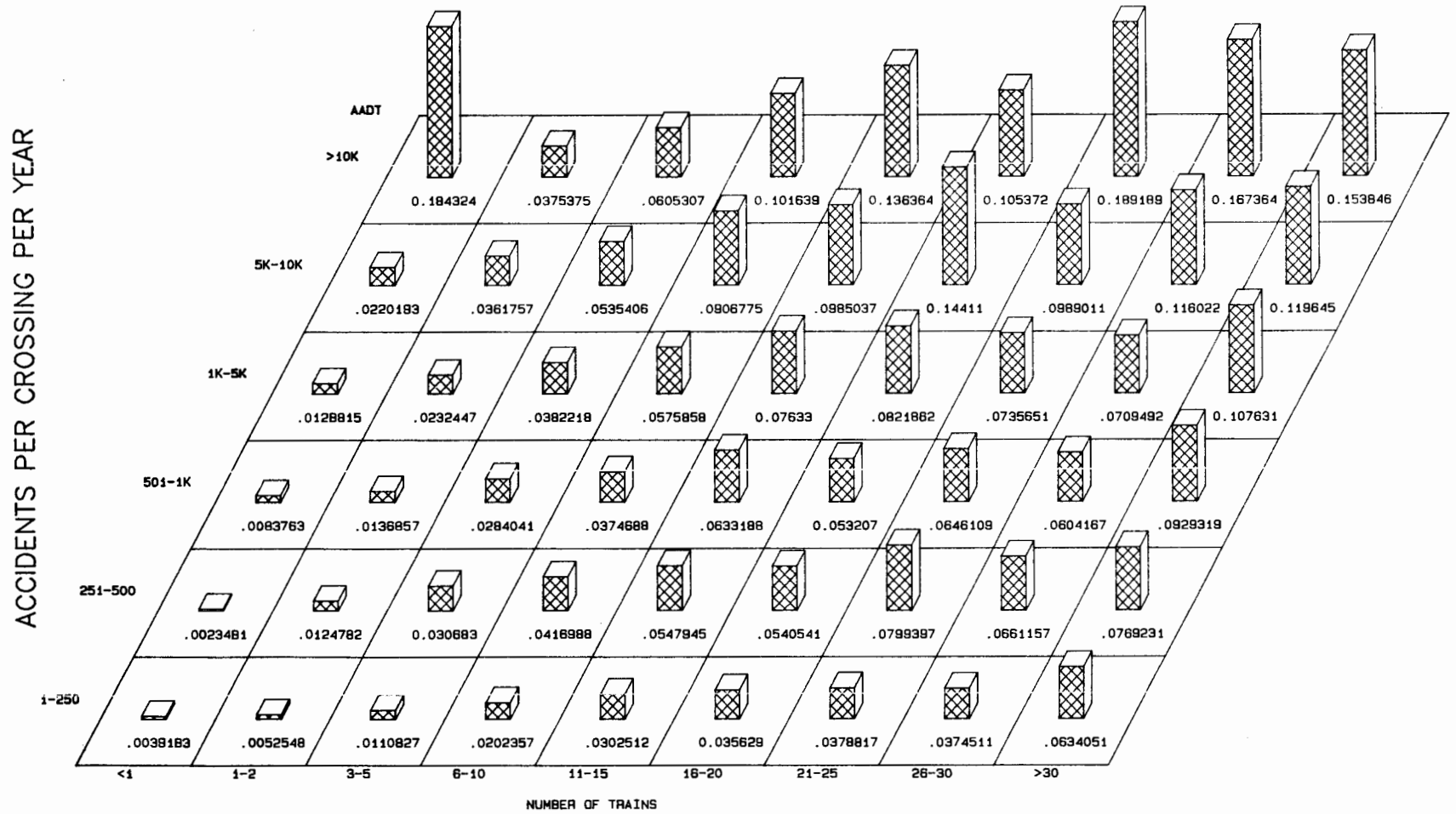


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC



NATIONAL AVERAGE .03087

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

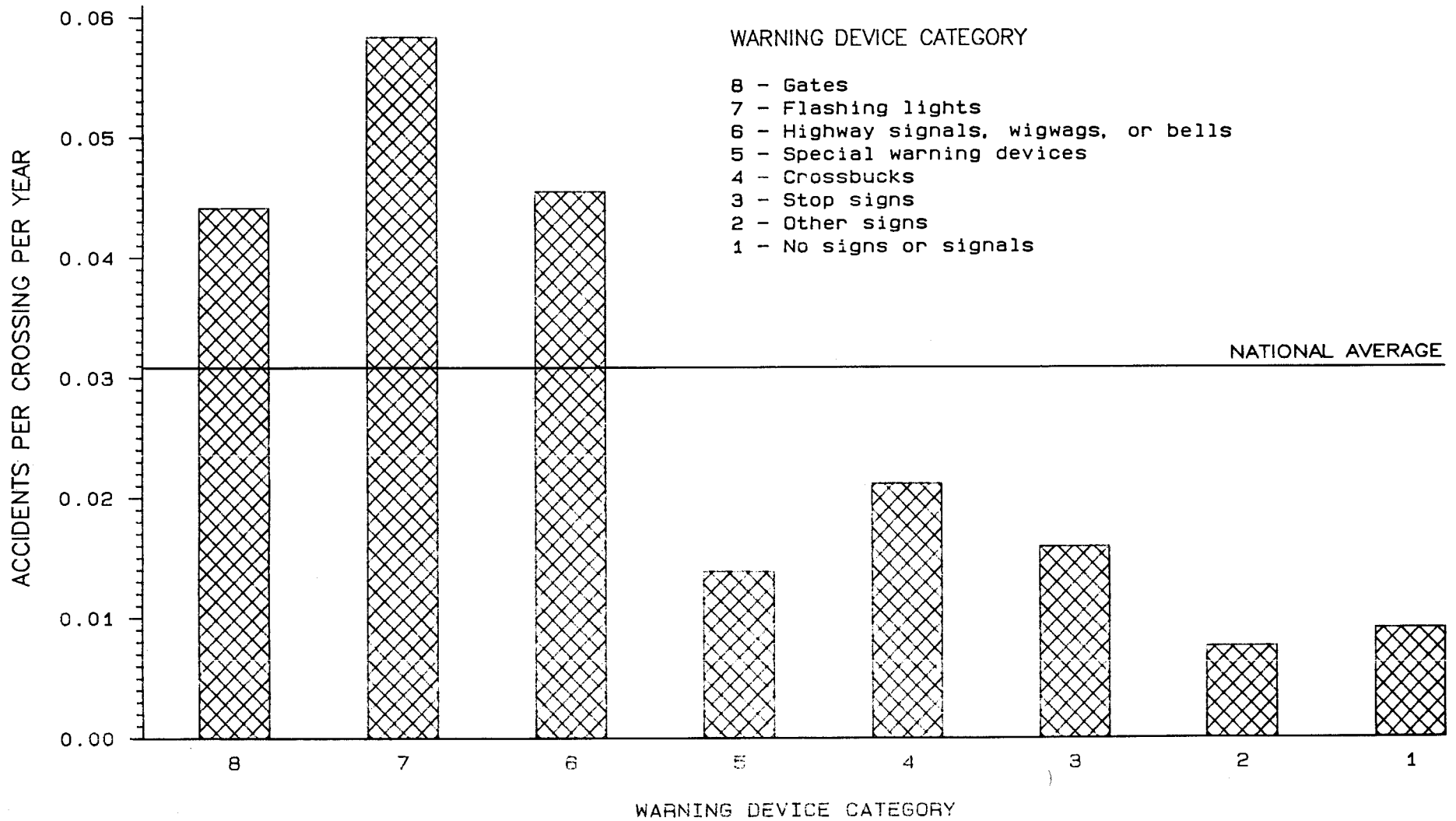


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY



#### 4. CURRENT YEAR RAIL-HIGHWAY CROSSING INVENTORY

##### PHYSICAL CHARACTERISTICS

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

State	Public At Grade	RR Under	RR Over	Private	Pedestrian	Total
Alabama.....	4,759	501	192	2,476	34	7,962
Alaska.....	199	11	1	112	7	330
Arizona.....	1,002	84	80	874	7	2,047
Arkansas.....	3,538	174	124	1,653	15	5,504
California.....	8,915	935	567	5,579	255	16,251
Colorado.....	2,342	199	111	1,686	13	4,351
Connecticut.....	504	332	256	474	54	1,620
Delaware.....	260	44	56	175	4	539
Dist of Columbia...	56	30	38	15	13	152
Florida.....	4,498	193	78	1,670	47	6,486
Georgia.....	6,836	576	258	3,090	39	10,799
Hawaii.....	6	---	---	---	---	6
Idaho.....	1,860	95	62	1,665	10	3,692
Illinois.....	12,220	984	1,974	7,221	418	22,817
Indiana.....	8,927	496	634	3,671	123	13,851
Iowa.....	6,380	500	364	4,580	62	11,886
Kansas.....	9,160	348	216	4,662	36	14,422
Kentucky.....	3,610	470	483	3,783	114	8,460
Louisiana.....	4,663	217	129	3,921	46	8,976
Maine.....	1,000	125	79	1,088	13	2,305
Maryland.....	940	330	212	816	26	2,324
Massachusetts.....	1,200	796	436	588	102	3,122
Michigan.....	7,799	361	414	3,441	109	12,124
Minnesota.....	6,558	515	406	4,125	82	11,686
Mississippi.....	3,249	242	116	2,769	20	6,396
Missouri.....	5,870	712	443	4,441	100	11,566
Montana.....	1,779	137	84	2,435	21	4,456
Nebraska.....	4,759	223	146	3,441	23	8,592
Nevada.....	348	50	37	284	2	721
New Hampshire.....	657	159	66	522	23	1,427
New Jersey.....	2,111	545	738	730	125	4,249
New Mexico.....	820	63	79	590	4	1,561
New York.....	3,960	1,382	1,127	3,563	301	10,333
North Carolina.....	5,490	525	301	4,299	76	10,691
North Dakota.....	5,263	83	90	2,579	36	8,051
Ohio.....	8,938	1,206	1,177	5,205	106	16,632
Oklahoma.....	4,965	269	204	1,933	20	7,391
Oregon.....	2,798	290	177	3,332	106	6,703
Pennsylvania.....	6,472	1,658	1,989	4,101	339	14,559
Rhode Island.....	132	101	43	81	4	361
South Carolina.....	4,332	403	131	1,789	17	6,672
South Dakota.....	2,636	102	58	1,657	7	4,460
Tennessee.....	4,136	516	500	2,408	37	7,597
Texas.....	14,074	816	801	7,267	52	23,010
Utah.....	1,325	126	53	972	7	2,483
Vermont.....	600	78	84	789	51	1,602
Virginia.....	2,626	642	480	3,748	69	7,565
Washington.....	3,854	394	341	4,020	117	8,726
West Virginia.....	2,430	291	379	2,939	110	6,149
Wisconsin.....	5,884	457	353	3,678	166	10,538
Wyoming.....	588	102	54	997	8	1,749
Puerto Rico.....	55	---	---	2	---	57
Total.....	197,383	19,893	17,221	127,936	3,576	366,009

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

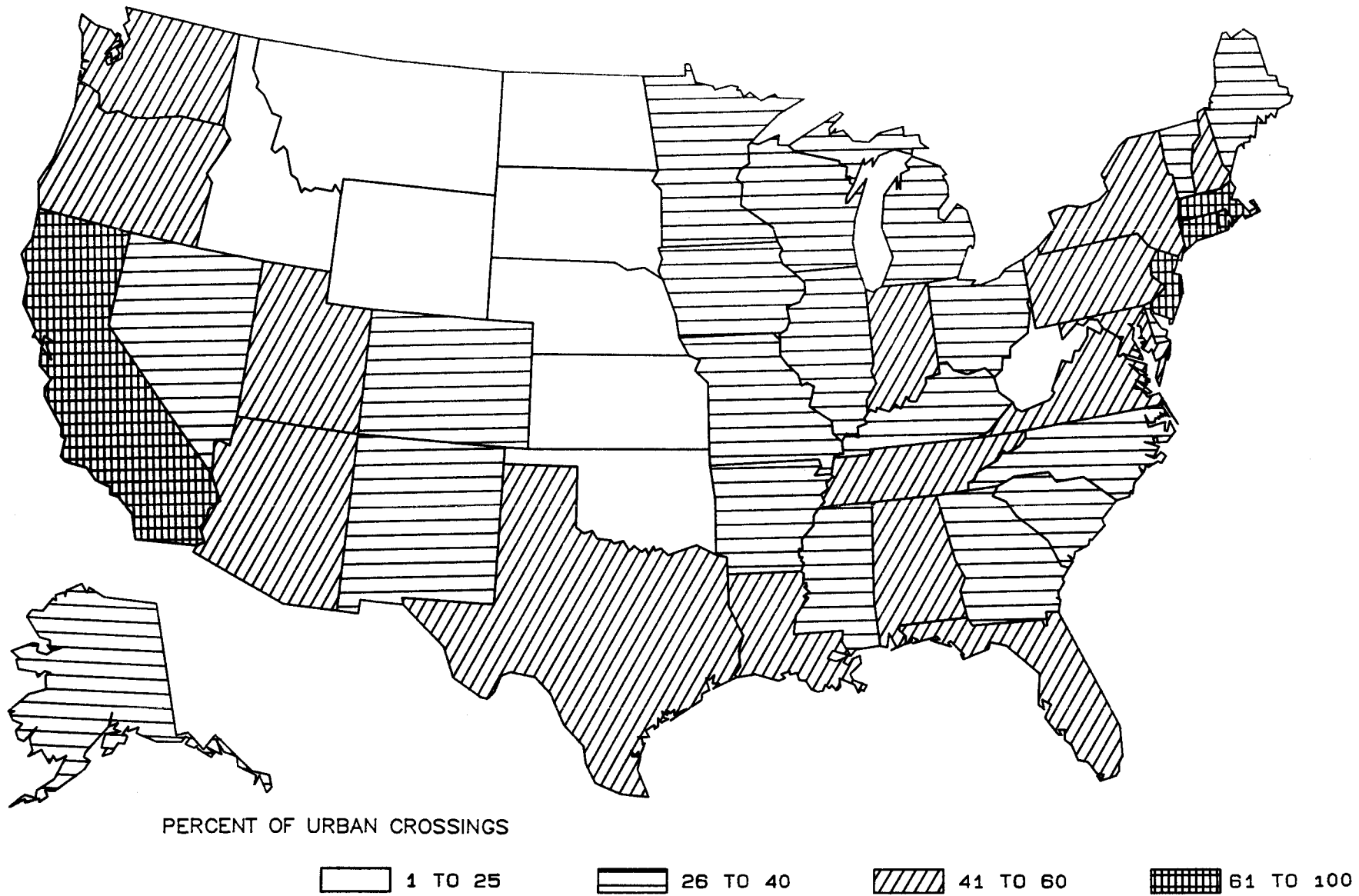
Railroad	Public			Private	Pedestrian	Total
	At Grade	RR Under	RR Over			
Amtrak (National RR Passenger Corp)...	204	531	491	130	74	1,430
Atchison, Topeka And Santa Fe Rwy Co..	11,599	694	646	6,906	93	19,938
Baltimore And Ohio Railroad Co.....	5,224	871	737	3,730	135	10,697
Bangor And Aroostook Railroad Co.....	185	11	22	478	3	699
Bessemer And Lake Erie Railroad Co....	143	35	49	99	2	328
Boston And Maine Corporation.....	1,135	483	238	593	56	2,505
Burlington Northern Incorporated.....	24,856	1,632	1,327	17,719	355	45,889
Canadian Pacific Lines In Maine.....	97	11	18	164	40	330
Central Vermont Railway Inc.....	217	55	48	272	10	602
Chesapeake And Ohio Railway Company...	4,467	375	457	4,175	147	9,621
Chicago And Illinois Midland Rwy Co...	112	4	4	65	---	185
Chicago And North Western.....	9,179	678	822	5,904	195	16,778
Chicago South Shore And South Bend RR.	127	13	18	28	3	189
Chicago, Milw, St. Paul And Pacific...	2,787	302	293	2,224	100	5,706
Consolidated Rail Corporation.....	17,481	3,455	3,620	9,118	451	34,125
Delaware And Hudson Railway.....	523	99	106	728	28	1,484
Denver And Rio Grande Western RR Co...	1,151	136	71	825	7	2,190
Duluth, Missabe And Iron Range Rwy Co.	205	26	34	144	8	417
Duluth, Winnipeg And Pacific Rwy Co...	93	13	14	29	---	149
Elgin, Joliet And Eastern Railway Co..	208	30	29	102	---	369
Florida East Coast Railway Co.....	726	26	6	102	8	868
Grand Trunk Western Railroad Co.....	1,647	114	153	721	28	2,663
Green Bay And Western Railroad.....	317	10	3	251	---	581
Illinois Central Gulf Railroad Co.....	8,156	768	709	6,363	191	16,187
Kansas City Southern Railway Co.....	1,001	97	78	477	6	1,659
Louisiana And Arkansas Rwy Company...	722	60	33	563	5	1,383
Maine Central Railroad Company.....	563	71	38	439	7	1,118
Michigan Interstate Railroad.....	97	11	6	73	2	189
Missouri Pacific Railroad Co.....	12,260	702	519	7,751	116	21,348
Missouri-Kansas-Texas Railroad Co....	2,081	170	141	1,174	7	3,573
Monogahela Railway.....	97	23	50	135	1	306
Norfolk And Western Railway Co.....	7,883	777	1,057	6,083	115	15,915
Northwestern Pacific Railroad.....	183	38	6	309	7	543
Oklahoma, Kansas Texas Railroad.....	303	18	8	119	1	449
Pittsburg And Lake Erie Railroad Co...	112	46	27	107	18	310
Richmond, Frederickburg And Potomac...	100	42	24	56	23	245
Seaboard System Railroad.....	19,472	1,729	1,006	10,335	313	32,855
Soo Line Railroad Company.....	4,966	193	192	2,713	47	8,111
Southern Pacific Transportation Co....	11,311	995	651	7,894	257	21,108
Southern Railway Company.....	13,073	1,348	770	8,037	72	23,300
St. Louis Southwestern Railway Co....	2,353	128	92	987	2	3,562
Texas And Northern Railway Company...	3	---	---	12	---	15
Texas, Mexican Railway Company.....	231	9	2	196	---	438
Union Pacific Railroad Co.....	8,077	695	343	6,222	79	15,416
* The Estates.....	253	22	16	113	3	407
All Other Railroads.....	21,403	2,347	2,247	13,271	561	39,829
Total.....	197,383	19,893	17,221	127,936	3,576	366,009

NOTE: The "Estates" are crossings on predecessor lines that were not merged into Conrail.

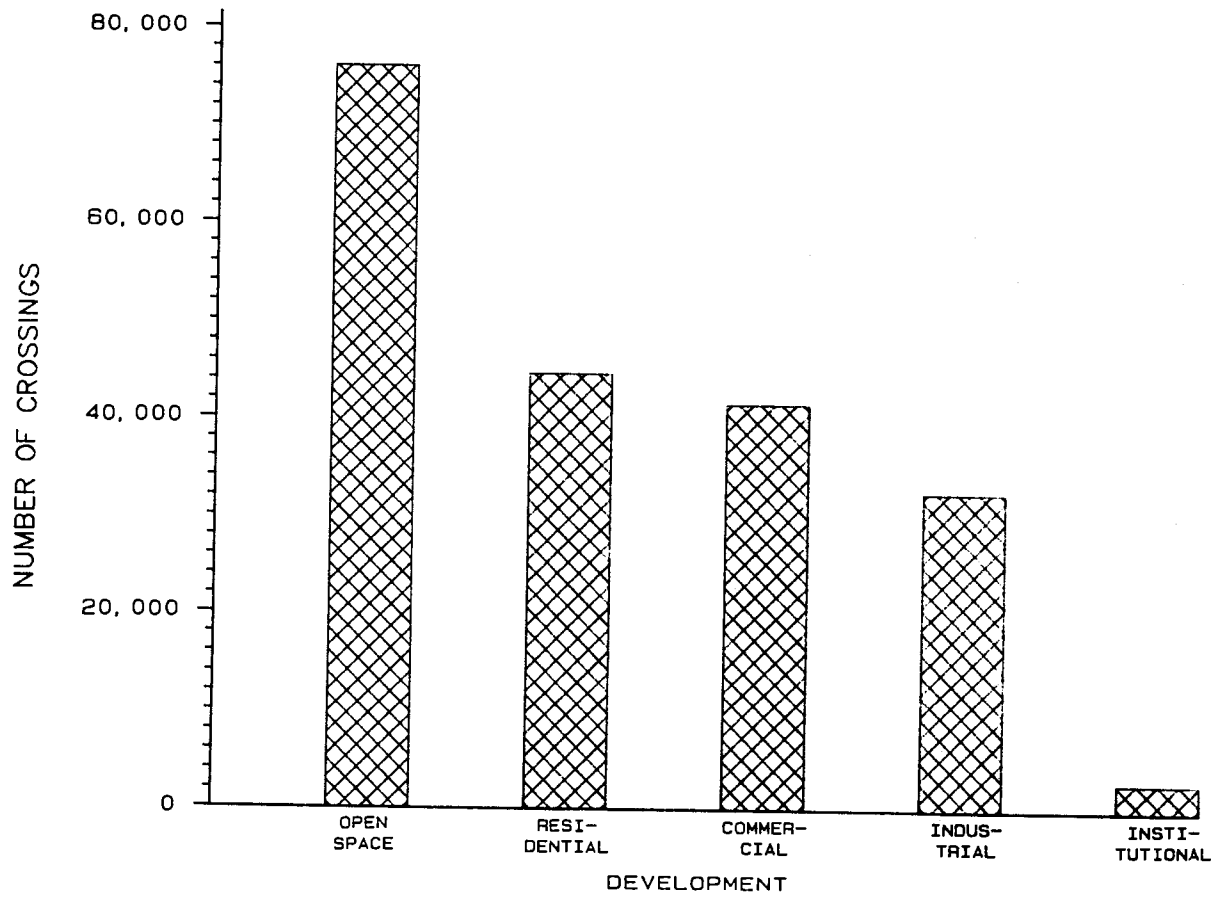
**TABLE 35. TOTAL CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL**

State	Urban	Rural	Total
Alabama.....	2,072	2,687	4,759
Alaska.....	71	128	199
Arizona.....	520	482	1,002
Arkansas.....	1,388	2,150	3,538
California.....	6,466	2,449	8,915
Colorado.....	835	1,507	2,342
Connecticut.....	395	109	504
Delaware.....	82	178	260
Dist of Columbia.....	56	---	56
Florida.....	2,688	1,810	4,498
Georgia.....	2,469	4,367	6,836
Hawaii.....	---	6	6
Idaho.....	321	1,539	1,860
Illinois.....	4,369	7,851	12,220
Indiana.....	3,774	5,153	8,927
Iowa.....	1,889	4,491	6,380
Kansas.....	1,690	7,470	9,160
Kentucky.....	1,019	2,591	3,610
Louisiana.....	2,036	2,627	4,663
Maine.....	265	735	1,000
Maryland.....	470	470	940
Massachusetts....	849	351	1,200
Michigan.....	3,106	4,693	7,799
Minnesota.....	1,740	4,818	6,558
Mississippi.....	1,131	2,118	3,249
Missouri.....	1,895	3,975	5,870
Montana.....	354	1,425	1,779
Nebraska.....	711	4,048	4,759
Nevada.....	93	255	348
New Hampshire....	287	370	657
New Jersey.....	1,495	616	2,111
New Mexico.....	242	578	820
New York.....	1,856	2,104	3,960
North Carolina...	2,122	3,368	5,490
North Dakota.....	324	4,939	5,263
Ohio.....	3,531	5,407	8,938
Oklahoma.....	323	4,642	4,965
Oregon.....	1,226	1,572	2,798
Pennsylvania.....	3,284	3,188	6,472
Rhode Island.....	123	9	132
South Carolina...	1,660	2,672	4,332
South Dakota.....	343	2,293	2,636
Tennessee.....	1,697	2,439	4,136
Texas.....	7,482	6,592	14,074
Utah.....	686	639	1,325
Vermont.....	202	398	600
Virginia.....	1,199	1,427	2,626
Washington.....	1,906	1,948	3,854
West Virginia....	507	1,923	2,430
Wisconsin.....	2,362	3,522	5,884
Wyoming.....	44	544	588
Puerto Rico.....	8	47	55
Unknown.....	---	---	---
Total.....	75,663	121,720	197,383

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



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

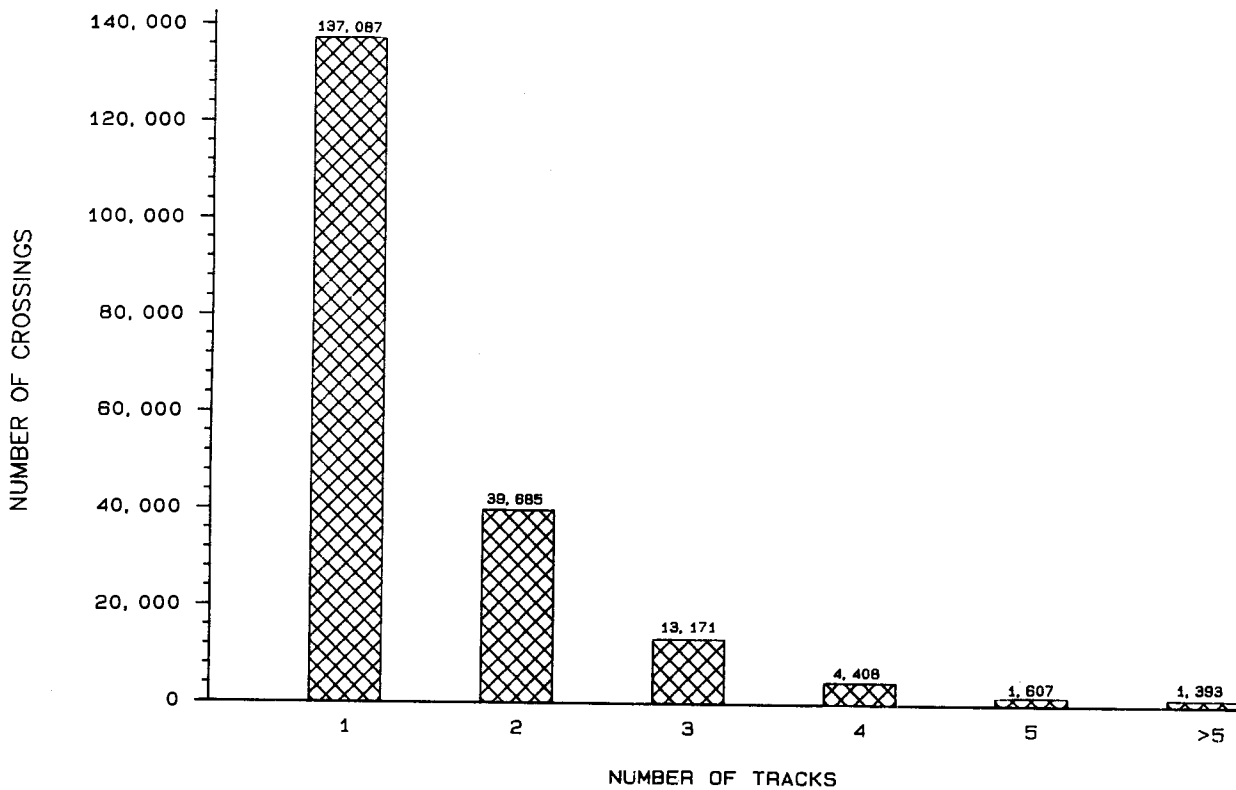


**FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT**

**TRACK DATA**

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

Other Tracks	Number of main tracks							Total
	0	1	2	3	4	5	>5	
0	32	115,317	10,011	328	89	5	5	125,787
1	21,770	24,669	3,167	112	21	---	---	49,739
2	5,005	8,174	1,351	142	22	2	---	14,696
3	1,502	2,447	423	68	29	3	---	4,472
4	409	848	196	14	14	7	1	1,489
5	168	324	105	8	4	3	4	616
>5	159	315	96	2	4	2	6	584
Total	29,045	152,094	15,349	674	183	22	16	197,383



**FIGURE 27. CROSSINGS BY NUMBER OF TRACKS**

**TABLE 37. TOTAL CROSSINGS BY NUMBER OF TRACKS AND WARNING DEVICE CATEGORY**

Warning device	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Gates.....	7,946	7,647	3,296	1,256	509	475	21,129
Flashing lights.....	22,060	6,988	2,642	942	353	288	33,273
Hwy. signals, wigwags, bells	1,457	578	240	81	41	21	2,418
Special warning devices.....	4,885	1,276	445	172	64	78	6,920
Crossbucks.....	90,519	20,867	5,911	1,737	565	474	120,073
Stop signs.....	814	217	62	21	8	8	1,130
Other signs.....	574	146	34	19	10	7	790
No signs or signals.....	8,832	1,966	541	180	57	74	11,650
Total.....	137,087	39,685	13,171	4,408	1,607	1,425	197,383

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

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	25,531	5,054	966	242	61	71	31,925
2	103,703	31,841	11,136	3,773	1,385	1,207	153,045
3	733	302	113	42	17	15	1,222
4	6,273	2,257	875	322	133	121	9,981
5	354	108	34	16	5	3	520
>5	493	123	47	13	6	8	690
Total	137,087	39,685	13,171	4,408	1,607	1,425	197,383

**TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE**

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,475	816	312	86	35	35	4,759
Alaska.....	158	32	6	1	1	1	199
Arizona.....	717	185	68	20	7	5	1,002
Arkansas.....	2,439	740	240	69	30	20	3,538
California.....	6,200	1,679	627	211	102	96	8,915
Colorado.....	1,637	462	148	42	26	27	2,342
Connecticut.....	378	90	24	8	4	---	504
Delaware.....	212	33	10	3	2	---	260
Dist of Columbia.	36	14	6	---	---	---	56
Florida.....	2,406	1,070	567	186	137	132	4,498
Georgia.....	5,052	1,201	362	142	38	41	6,836
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,303	341	121	51	22	22	1,860
Illinois.....	7,376	3,265	1,010	354	113	102	12,220
Indiana.....	5,848	2,175	572	211	73	48	8,927
Iowa.....	4,328	1,289	505	159	52	47	6,380
Kansas.....	6,697	1,471	636	219	73	64	9,160
Kentucky.....	2,435	840	224	73	17	21	3,610
Louisiana.....	3,359	875	271	90	32	36	4,663
Maine.....	771	171	40	13	3	2	1,000
Maryland.....	666	200	44	20	3	7	940
Massachusetts....	943	191	42	15	5	4	1,200
Michigan.....	5,532	1,576	426	159	53	53	7,799
Minnesota.....	4,630	1,229	459	139	47	54	6,558
Mississippi.....	2,165	698	227	98	31	30	3,249
Missouri.....	3,889	1,222	501	148	55	55	5,870
Montana.....	1,279	328	116	30	12	14	1,779
Nebraska.....	3,262	956	357	104	41	39	4,759
Nevada.....	224	86	23	7	3	5	348
New Hampshire....	554	86	11	3	2	1	657
New Jersey.....	1,489	454	126	22	12	8	2,111
New Mexico.....	577	163	50	19	4	7	820
New York.....	2,769	877	214	64	17	19	3,960
North Carolina...	4,001	993	313	117	35	31	5,490
North Dakota....	4,274	695	231	42	17	4	5,263
Ohio.....	5,015	2,609	809	333	105	67	8,938
Oklahoma.....	3,676	744	338	118	44	45	4,965
Oregon.....	2,027	502	198	50	14	7	2,798
Pennsylvania....	4,323	1,497	409	156	45	42	6,472
Rhode Island.....	81	41	8	2	---	---	132
South Carolina...	3,262	756	222	52	26	14	4,332
South Dakota....	2,110	344	121	41	12	8	2,636
Tennessee.....	2,836	880	273	84	29	34	4,136
Texas.....	10,440	2,438	747	266	98	85	14,074
Utah.....	939	250	88	19	20	9	1,325
Vermont.....	484	85	21	4	1	5	600
Virginia.....	1,727	609	193	65	22	10	2,626
Washington.....	2,675	712	298	115	29	25	3,854
West Virginia....	1,737	493	156	28	6	10	2,430
Wisconsin.....	4,219	1,099	357	131	46	32	5,884
Wyoming.....	396	121	44	19	6	2	588
Puerto Rico.....	53	2	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	137,087	39,685	13,171	4,408	1,607	1,425	197,383



**HIGHWAY SYSTEM DATA**

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

State	01	02	03	04	08	Total
Alabama.....	---	449	29	438	3,843	4,759
Alaska.....	---	22	15	29	133	199
Arizona.....	12	35	189	73	693	1,002
Arkansas.....	1	136	278	177	2,946	3,538
California.....	---	1,135	825	714	6,241	8,915
Colorado.....	---	101	424	109	1,708	2,342
Connecticut.....	---	30	185	19	270	504
Delaware.....	---	35	11	115	99	260
Dist of Columbia.....	---	4	1	3	48	56
Florida.....	---	308	793	210	3,184	4,495
Georgia.....	3	414	166	816	5,437	6,836
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	51	104	143	1,562	1,860
Illinois.....	---	725	1,495	937	9,063	12,220
Indiana.....	---	356	393	1,647	6,531	8,927
Iowa.....	5	368	785	581	4,641	6,380
Kansas.....	1	373	480	1,184	7,122	9,160
Kentucky.....	2	113	321	321	2,853	3,610
Louisiana.....	1	169	36	444	4,013	4,663
Maine.....	---	94	21	94	791	1,000
Maryland.....	---	57	227	74	582	940
Massachusetts....	---	117	316	121	646	1,200
Michigan.....	4	372	858	1,193	5,372	7,799
Minnesota.....	1	248	118	1,045	5,146	6,558
Mississippi.....	1	142	238	473	2,395	3,249
Missouri.....	3	116	280	720	4,751	5,870
Montana.....	1	73	76	146	1,483	1,779
Nebraska.....	---	239	303	529	3,688	4,759
Nevada.....	---	18	11	28	291	348
New Hampshire....	---	73	125	39	418	655
New Jersey.....	---	69	212	179	1,651	2,111
New Mexico.....	---	23	60	56	681	820
New York.....	---	239	11	692	3,018	3,960
North Carolina...	---	125	216	419	4,730	5,490
North Dakota.....	1	180	97	652	4,333	5,263
Ohio.....	---	405	131	1,799	6,601	8,936
Oklahoma.....	---	161	325	405	4,074	4,965
Oregon.....	---	158	309	292	2,039	2,798
Pennsylvania.....	---	438	443	532	5,059	6,472
Rhode Island.....	---	7	27	22	76	132
South Carolina...	1	271	104	1,346	2,610	4,332
South Dakota.....	---	120	121	312	2,083	2,636
Tennessee.....	---	178	11	377	3,570	4,136
Texas.....	84	380	1,495	870	11,245	14,074
Utah.....	1	24	6	160	1,134	1,325
Vermont.....	---	58	7	72	463	600
Virginia.....	---	106	345	433	1,742	2,626
Washington.....	---	80	213	574	2,987	3,854
West Virginia....	---	146	48	421	1,815	2,430
Wisconsin.....	---	381	872	431	4,200	5,884
Wyoming.....	---	30	14	59	485	588
Puerto Rico.....	---	14	---	3	38	55
Unknown.....	---	---	---	---	---	---
Total.....	122	9,966	14,170	22,528	150,590	197,376

**HIGHWAY SYSTEM CODES**

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

See Appendix A for explanation of revision in codes.

**TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE**

**HIGHWAY SYSTEM GROUP**

State	On-State	Off-State	Total
Alabama.....	331	4,428	4,759
Alaska.....	89	110	199
Arizona.....	64	938	1,002
Arkansas.....	577	2,961	3,538
California.....	382	8,533	8,915
Colorado.....	274	2,068	2,342
Connecticut.....	89	415	504
Delaware.....	249	11	260
Dist of Columbia.	55	1	56
Florida.....	528	3,970	4,498
Georgia.....	785	6,051	6,836
Hawaii.....	---	6	6
Idaho.....	128	1,732	1,860
Illinois.....	1,477	10,743	12,220
Indiana.....	828	8,099	8,927
Iowa.....	375	6,005	6,380
Kansas.....	508	8,652	9,160
Kentucky.....	1,016	2,594	3,610
Louisiana.....	985	3,678	4,663
Maine.....	200	800	1,000
Maryland.....	153	787	940
Massachusetts....	44	1,156	1,200
Michigan.....	489	7,310	7,799
Minnesota.....	374	6,184	6,558
Mississippi.....	300	2,949	3,249
Missouri.....	822	5,048	5,870
Montana.....	280	1,499	1,779
Nebraska.....	371	4,388	4,759
Nevada.....	62	286	348
New Hampshire....	191	466	657
New Jersey.....	201	1,910	2,111
New Mexico.....	177	643	820
New York.....	416	3,544	3,960
North Carolina...	3,559	1,931	5,490
North Dakota.....	257	5,006	5,263
Ohio.....	1,198	7,740	8,938
Oklahoma.....	376	4,589	4,965
Oregon.....	202	2,596	2,798
Pennsylvania.....	2,214	4,258	6,472
Rhode Island.....	29	103	132
South Carolina...	2,869	1,463	4,332
South Dakota.....	180	2,456	2,636
Tennessee.....	273	3,863	4,136
Texas.....	2,676	11,398	14,074
Utah.....	142	1,183	1,325
Vermont.....	144	456	600
Virginia.....	1,659	967	2,626
Washington.....	218	3,636	3,854
West Virginia....	1,477	953	2,430
Wisconsin.....	492	5,392	5,884
Wyoming.....	94	494	588
Puerto Rico.....	38	17	55
Unknown.....	---	---	---
Total.....	30,917	166,466	197,383

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

Rural	Crossings	Urban	Crossings
Interstate.....	15	Interstate.....	144
Other principal arterial	1,463	Other freeway/expressway	528
Minor arterial.....	4,446	Other principal arterial	7,413
Major collector.....	13,276	Minor arterial.....	12,636
Minor collector.....	12,540	Collector.....	11,661
Local.....	89,977	Local.....	43,281
Total.....	121,717	Total.....	75,663

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

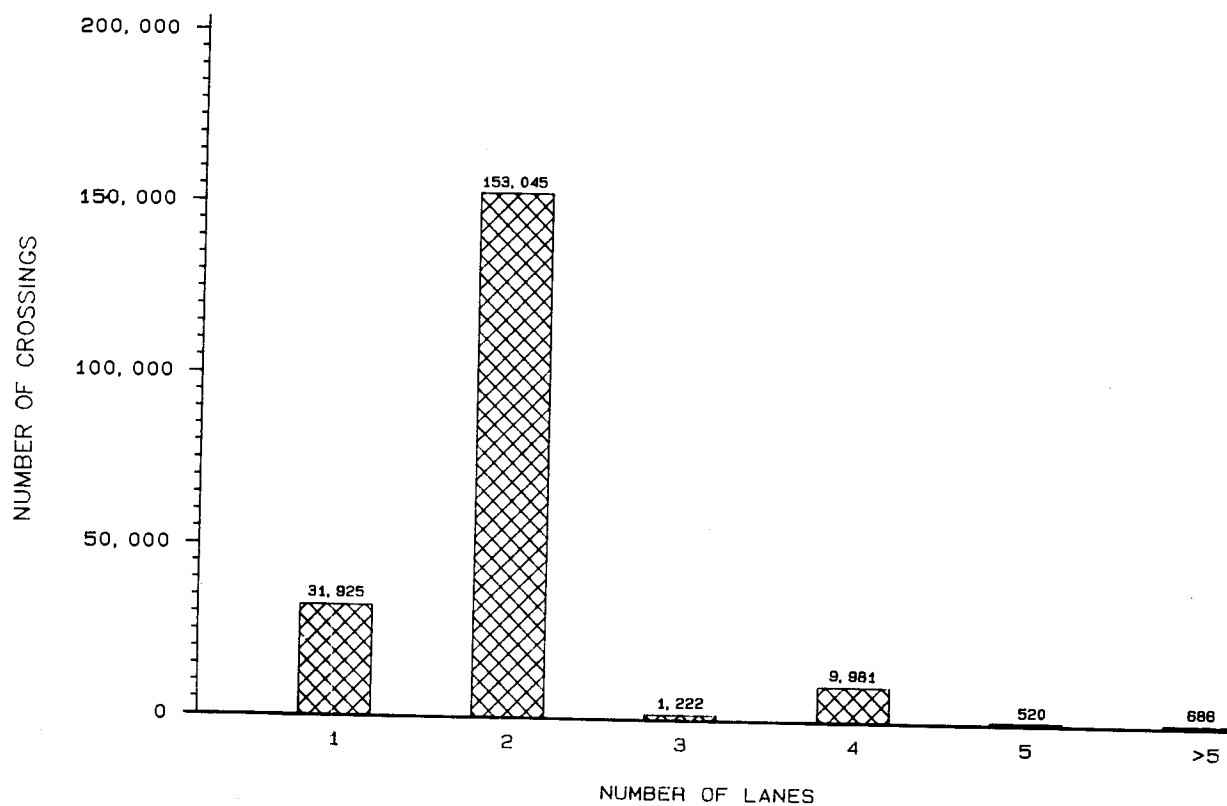
**NUMBER OF LANES (BOTH DIRECTIONS)**

State	1	2	3	4	5	>5	Total
Alabama.....	973	3,515	25	226	9	11	4,759
Alaska.....	17	167	1	12	2	---	199
Arizona.....	20	849	12	90	19	12	1,002
Arkansas.....	786	2,675	15	61	---	1	3,538
California.....	472	6,264	176	1,615	163	225	8,915
Colorado.....	160	2,009	17	142	8	6	2,342
Connecticut.....	29	443	7	22	3	---	504
Delaware.....	2	235	4	18	---	1	260
Dist of Columbia.	2	48	1	3	---	2	56
Florida.....	120	3,829	73	353	55	68	4,498
Georgia.....	1,388	5,202	28	210	1	7	6,836
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	506	1,276	9	65	2	2	1,860
Illinois.....	2,572	8,877	52	687	12	20	12,220
Indiana.....	1,692	6,769	46	402	7	11	8,927
Iowa.....	774	5,331	43	221	7	4	6,380
Kansas.....	2,277	6,576	8	297	---	2	9,160
Kentucky.....	1,143	2,396	8	62	1	---	3,610
Louisiana.....	669	3,750	13	207	8	16	4,663
Maine.....	61	922	4	13	---	---	1,000
Maryland.....	115	745	8	64	3	5	940
Massachusetts....	44	1,090	8	57	1	---	1,200
Michigan.....	583	6,465	70	600	36	45	7,799
Minnesota.....	1,137	5,127	17	273	3	1	6,558
Mississippi.....	421	2,702	8	111	2	5	3,249
Missouri.....	1,480	4,233	12	136	4	5	5,870
Montana.....	247	1,504	3	24	1	---	1,779
Nebraska.....	1,097	3,564	6	88	1	3	4,759
Nevada.....	119	200	1	27	---	1	348
New Hampshire....	39	586	4	25	2	1	657
New Jersey.....	115	1,835	11	142	2	6	2,111
New Mexico.....	269	507	1	37	3	3	820
New York.....	372	3,421	23	136	3	5	3,960
North Carolina...	341	4,889	37	201	13	9	5,490
North Dakota.....	1,218	4,008	1	36	---	---	5,263
Ohio.....	1,249	7,288	60	316	13	12	8,938
Oklahoma.....	877	3,799	7	275	5	2	4,965
Oregon.....	330	2,322	45	94	4	3	2,798
Pennsylvania.....	1,015	5,107	120	200	2	28	6,472
Rhode Island.....	5	106	---	21	---	---	132
South Carolina...	714	3,399	15	185	7	12	4,332
South Dakota.....	836	1,736	3	54	4	3	2,636
Tennessee.....	757	3,135	20	202	16	6	4,136
Texas.....	2,465	10,220	76	1,158	53	102	14,074
Utah.....	233	992	---	88	1	11	1,325
Vermont.....	136	452	4	8	---	---	600
Virginia.....	38	2,439	25	104	10	10	2,626
Washington.....	339	3,073	72	325	31	14	3,854
West Virginia....	1,228	1,181	9	11	---	1	2,430
Wisconsin.....	296	5,320	13	246	---	9	5,884
Wyoming.....	145	408	1	31	3	---	588
Puerto Rico.....	2	53	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	31,925	153,045	1,222	9,981	520	690	197,383

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

**NUMBER OF LANES (BOTH DIRECTIONS)**

Warning device	1	2	3	4	5	>5	Total
Gates.....	358	17,067	317	2,877	230	280	21,129
Flashing lights.....	712	28,082	377	3,680	190	232	33,273
Hwy. signals, wigwags, bells	183	1,894	33	238	26	44	2,418
Special warning devices.....	477	5,679	125	595	14	30	6,920
Crossbucks.....	26,873	90,753	283	2,038	46	80	120,073
Stop signs.....	197	883	7	41	---	2	1,130
Other signs.....	186	578	4	20	---	2	790
No signs or signals.....	2,939	8,109	76	492	14	20	11,650
Total.....	31,925	153,045	1,222	9,981	520	690	197,383



**FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES**

**WARNING DEVICE DATA**

**TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE**

State	WARNING DEVICE CATEGORY							No Signs or Signals	Total
	Gates	Flashing Lights	Hwy.Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs		
Alabama.....	188	621	22	56	3,336	72	10	454	4,759
Alaska.....	4	52	---	14	122	1	---	6	199
Arizona.....	253	94	13	87	529	3	---	23	1,002
Arkansas.....	229	460	18	86	2,579	9	---	157	3,538
California.....	2,980	1,169	412	201	3,854	87	19	193	8,915
Colorado.....	195	337	41	68	1,555	26	1	119	2,342
Connecticut.....	51	170	8	93	65	9	2	106	504
Delaware.....	30	98	2	41	82	1	---	6	260
Dist of Columbia.	---	3	---	7	15	11	---	20	56
Florida.....	1,865	761	15	102	1,656	8	4	87	4,498
Georgia.....	840	525	22	173	4,799	10	11	456	6,836
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	70	206	9	21	1,294	74	5	181	1,860
Illinois.....	1,878	2,827	193	296	6,512	4	5	505	12,220
Indiana.....	844	2,156	144	261	4,921	73	11	517	8,927
Iowa.....	501	1,058	79	82	4,439	5	2	214	6,380
Kansas.....	456	762	85	253	7,374	2	2	226	9,160
Kentucky.....	266	747	34	110	2,021	5	---	427	3,610
Louisiana.....	252	771	12	70	3,124	28	22	384	4,663
Maine.....	65	376	1	134	409	---	4	11	1,000
Maryland.....	81	201	28	63	379	26	16	146	940
Massachusetts....	188	454	38	229	235	2	3	51	1,200
Michigan.....	672	1,832	67	242	4,769	14	13	190	7,799
Minnesota.....	336	852	16	52	5,041	49	3	209	6,558
Mississippi.....	63	373	17	60	2,113	274	11	338	3,249
Missouri.....	365	1,147	111	142	3,682	15	2	406	5,870
Montana.....	139	202	3	28	1,277	4	---	126	1,779
Nebraska.....	440	454	21	20	3,621	6	2	195	4,759
Nevada.....	76	47	1	6	182	---	7	29	348
New Hampshire....	26	154	16	165	260	9	4	23	657
New Jersey.....	382	658	27	386	535	6	3	114	2,111
New Mexico.....	151	103	7	11	526	---	5	17	820
New York.....	793	1,116	97	413	1,311	2	47	181	3,960
North Carolina...	679	783	32	243	3,222	19	20	492	5,490
North Dakota.....	265	171	2	4	4,516	3	---	302	5,263
Ohio.....	818	2,134	72	104	5,426	12	13	359	8,938
Oklahoma.....	266	726	37	142	3,634	3	8	149	4,965
Oregon.....	341	165	68	115	1,687	91	11	320	2,798
Pennsylvania.....	645	1,323	117	776	2,556	71	416	568	6,472
Rhode Island.....	9	23	19	33	22	5	2	19	132
South Carolina...	322	548	6	338	2,843	---	16	259	4,332
South Dakota.....	2	180	2	2	2,354	---	1	95	2,636
Tennessee.....	195	672	19	276	2,174	26	2	772	4,136
Texas.....	1,452	2,481	98	165	8,976	26	16	860	14,074
Utah.....	100	212	9	99	753	6	46	100	1,325
Vermont.....	28	208	3	58	281	1	6	15	600
Virginia.....	567	523	19	212	1,117	1	3	184	2,626
Washington.....	171	502	52	73	2,561	20	6	469	3,854
West Virginia....	152	427	8	49	1,459	8	5	322	2,430
Wisconsin.....	364	1,286	292	207	3,516	1	3	215	5,884
Wyoming.....	70	122	2	4	353	2	2	33	588
Puerto Rico.....	4	1	2	48	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	21,129	33,273	2,418	6,920	120,073	1,130	790	11,650	197,383

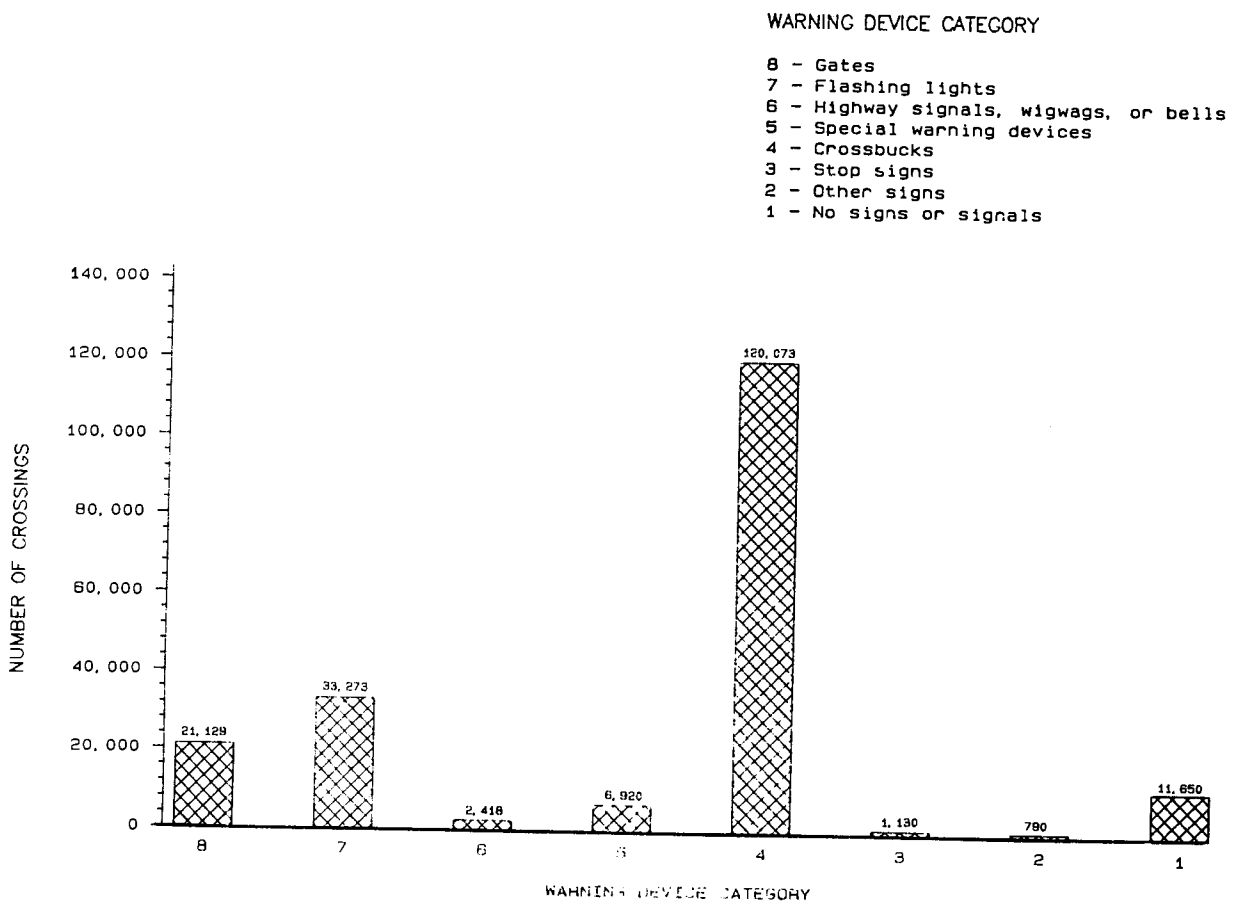
NOTE: "Special" are warning systems that are not train activated, such as, a crossing being flagged by a member of the train crew.

**TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD**

Railroad	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Amtrak (National RR Passenger Corp)...	104	27	---	23	34	2	2	12	204
Atchison, Topeka And Santa Fe Rwy Co..	1,730	1,552	196	562	7,505	6	11	37	11,599
Baltimore And Ohio Railroad Co.....	450	1,197	39	107	3,118	20	14	279	5,224
Bangor And Aroostook Railroad Co.....	5	92	---	10	75	---	---	3	185
Bessemer And Lake Erie Railroad Co....	36	25	---	3	77	---	---	2	143
Boston And Maine Corporation.....	194	256	27	244	351	4	4	55	1,135
Burlington Northern Incorporated.....	1,755	2,919	161	340	18,069	149	10	1,453	24,856
Canadian Pacific Lines In Maine.....	3	44	---	4	41	---	---	5	97
Central Vermont Railway Inc.....	20	105	1	---	79	2	2	8	217
Chesapeake And Ohio Railway Company...	391	945	14	79	2,780	6	2	250	4,467
Chicago And Illinois Midland Rwy Co...	6	44	1	3	58	---	---	---	112
Chicago And North Western.....	644	1,551	311	133	6,142	7	5	386	9,179
Chicago South Shore And South Bend RR.	30	49	9	---	18	20	---	1	127
Chicago, Milw, St. Paul And Pacific...	269	584	69	152	1,504	6	2	201	2,787
Consolidated Rail Corporation.....	1,946	4,631	325	1,457	7,187	117	361	1,457	17,481
Delaware And Hudson Railway.....	171	142	6	24	144	1	14	21	523
Denver And Rio Grande Western RR Co...	68	209	3	11	745	5	3	107	1,151
Duluth, Missabe And Iron Range Rwy Co.	9	39	---	3	152	1	1	---	205
Duluth, Winnipeg And Pacific Rwy Co...	3	17	---	4	67	2	---	---	93
Elgin, Joliet And Eastern Railway Co..	76	62	2	11	57	---	---	---	208
Florida East Coast Railway Co.....	602	31	---	2	81	---	---	10	726
Grand Trunk Western Railroad Co.....	307	441	13	99	771	2	---	14	1,647
Green Bay And Western Railroad.....	6	79	---	1	226	---	---	5	317
Illinois Central Gulf Railroad Co.....	455	1,271	160	143	5,340	219	10	558	8,156
Kansas City Southern Railway Co.....	39	171	5	1	729	---	1	55	1,001
Louisiana And Arkansas Rwy Company...	24	170	---	---	511	---	---	17	722
Maine Central Railroad Company.....	35	234	1	49	238	---	2	4	563
Michigan Interstate Railroad.....	4	30	3	---	57	---	---	3	97
Missouri Pacific Railroad Co.....	788	2,009	59	135	8,552	17	1	699	12,260
Missouri-Kansas-Texas Railroad Co....	167	412	24	14	1,345	2	1	116	2,081
Monogahela Railway.....	---	13	1	---	72	1	---	10	97
Norfolk And Western Railway Co.....	963	1,861	85	175	4,563	14	5	217	7,883
Northwestern Pacific Railroad.....	79	26	8	---	69	---	1	---	183
Oklahoma, Kansas Texas Railroad.....	15	49	---	---	229	---	---	10	303
Pittsburg And Lake Erie Railroad Co...	18	10	2	3	64	---	---	15	112
Richmond, Fredericckburg And Potomac...	29	5	2	47	16	---	---	1	100
Seaboard System Railroad.....	2,618	3,075	80	777	11,547	70	19	1,286	19,472
Soo Line Railroad Company.....	192	663	32	8	3,941	4	1	125	4,966
Southern Pacific Transportation Co....	2,880	1,322	397	41	5,972	72	21	606	11,311
Southern Railway Company.....	1,294	1,790	36	523	7,699	29	32	1,670	13,073
St. Louis Southwestern Railway Co.....	189	328	6	22	1,677	3	---	128	2,353
Texas And Northern Railway Company....	---	3	---	---	---	---	---	---	3
Texas, Mexican Railway Company.....	---	61	---	11	150	1	---	8	231
Union Pacific Railroad Co.....	956	914	95	162	5,252	109	55	534	8,077
* The Estates.....	2	34	1	8	110	3	59	36	253
All Other Railroads.....	1,557	3,781	244	1,529	12,659	236	151	1,246	21,403
Grand Total.....	21,129	33,273	2,418	6,920	120,073	1,130	790	11,650	197,383

NOTE: "The Estates" are crossings on predecessor lines that were not merged into Conrail.





**FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY**

**TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE**

**PAVEMENT MARKING**

State	Stop Lines	RR X-ing Symbol	Both	.....None.....		Total
				Paved	Unpaved	
Alabama.....	43	141	128	3,304	1,143	4,759
Alaska.....	1	4	26	79	89	199
Arizona.....	42	16	363	322	259	1,002
Arkansas.....	52	108	188	1,864	1,326	3,538
California.....	1,089	226	5,090	2,169	341	8,915
Colorado.....	16	21	139	1,263	903	2,342
Connecticut.....	18	2	97	381	6	504
Delaware.....	3	22	120	105	10	260
Dist of Columbia.	---	---	32	24	---	56
Florida.....	181	328	2,109	1,518	362	4,498
Georgia.....	113	148	611	3,847	2,117	6,836
Hawaii.....	2	---	---	4	---	6
Idaho.....	3	5	296	811	745	1,860
Illinois.....	71	140	1,325	5,084	5,600	12,220
Indiana.....	85	258	1,977	4,974	1,633	8,927
Iowa.....	54	153	578	2,452	3,143	6,380
Kansas.....	6	26	513	2,881	5,734	9,160
Kentucky.....	60	497	581	1,556	916	3,610
Louisiana.....	22	528	258	2,721	1,134	4,663
Maine.....	---	3	586	311	100	1,000
Maryland.....	20	33	160	660	67	940
Massachusetts....	53	44	120	949	34	1,200
Michigan.....	94	125	811	4,569	2,200	7,799
Minnesota.....	133	167	534	2,463	3,261	6,558
Mississippi.....	12	29	400	1,807	1,001	3,249
Missouri.....	79	126	579	2,515	2,571	5,870
Montana.....	5	26	230	390	1,128	1,779
Nebraska.....	17	247	210	1,231	3,054	4,759
Nevada.....	5	3	115	89	136	348
New Hampshire....	19	11	38	519	70	657
New Jersey.....	47	86	103	1,753	122	2,111
New Mexico.....	5	20	42	350	403	820
New York.....	129	237	263	2,994	337	3,960
North Carolina...	41	23	4,082	603	741	5,490
North Dakota.....	14	15	162	704	4,368	5,263
Ohio.....	562	676	4,327	2,608	765	8,938
Oklahoma.....	25	26	49	2,591	2,274	4,965
Oregon.....	144	319	514	1,222	599	2,798
Pennsylvania.....	65	365	161	5,138	743	6,472
Rhode Island.....	13	---	7	112	---	132
South Carolina...	101	98	1,266	2,101	766	4,332
South Dakota.....	15	5	79	734	1,803	2,636
Tennessee.....	18	29	216	2,918	955	4,136
Texas.....	2	1	6,529	3,839	3,703	14,074
Utah.....	13	21	170	783	338	1,325
Vermont.....	26	15	66	308	185	600
Virginia.....	109	91	1,167	983	276	2,626
Washington.....	152	28	540	2,346	788	3,854
West Virginia....	26	15	106	1,477	806	2,430
Wisconsin.....	85	38	364	4,575	822	5,884
Wyoming.....	10	16	59	147	356	588
Puerto Rico.....	---	14	---	36	5	55
Unknown.....	---	---	---	---	---	---
Total.....	3,900	5,575	38,486	89,184	60,238	197,383

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

**TABLE 48. TOTAL CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE**

**RAILROAD ADVANCE WARNING**

State	Yes	No	Total
Alabama.....	914	3,845	4,759
Alaska.....	88	111	199
Arizona.....	549	453	1,002
Arkansas.....	791	2,747	3,538
California.....	7,025	1,890	8,915
Colorado.....	1,070	1,272	2,342
Connecticut.....	226	278	504
Delaware.....	224	36	260
Dist of Columbia.....	31	25	56
Florida.....	2,590	1,908	4,498
Georgia.....	1,341	5,495	6,836
Hawaii.....	1	5	6
Idaho.....	1,522	338	1,860
Illinois.....	6,135	6,085	12,220
Indiana.....	5,655	3,272	8,927
Iowa.....	4,150	2,230	6,380
Kansas.....	3,811	5,349	9,160
Kentucky.....	833	2,777	3,610
Louisiana.....	2,703	1,960	4,663
Maine.....	971	29	1,000
Maryland.....	402	538	940
Massachusetts.....	885	315	1,200
Michigan.....	5,341	2,458	7,799
Minnesota.....	3,404	3,154	6,558
Mississippi.....	619	2,630	3,249
Missouri.....	1,171	4,699	5,870
Montana.....	770	1,009	1,779
Nebraska.....	2,749	2,010	4,759
Nevada.....	262	86	348
New Hampshire.....	465	192	657
New Jersey.....	748	1,363	2,111
New Mexico.....	167	653	820
New York.....	2,935	1,025	3,960
North Carolina...	4,276	1,214	5,490
North Dakota.....	957	4,306	5,263
Ohio.....	5,563	3,375	8,938
Oklahoma.....	989	3,976	4,965
Oregon.....	1,795	1,003	2,798
Pennsylvania.....	2,344	4,128	6,472
Rhode Island.....	21	111	132
South Carolina...	2,458	1,874	4,332
South Dakota.....	945	1,691	2,636
Tennessee.....	676	3,460	4,136
Texas.....	10,761	3,313	14,074
Utah.....	485	840	1,325
Vermont.....	355	245	600
Virginia.....	1,859	767	2,626
Washington.....	2,519	1,335	3,854
West Virginia.....	509	1,921	2,430
Wisconsin.....	3,462	2,422	5,884
Wyoming.....	230	358	588
Puerto Rico.....	32	23	55
Unknown.....	---	---	---
Total.....	100,784	96,599	197,383

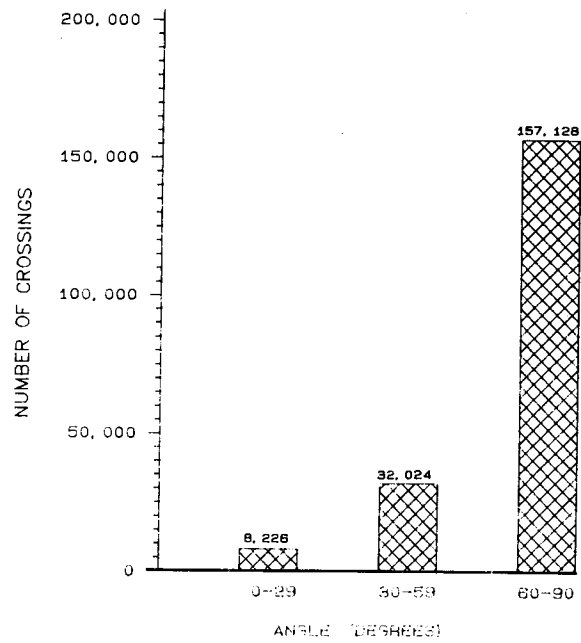
NOTE: The Manual On Uniform Traffic Control Devices does not require pavement markings at all crossings.

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

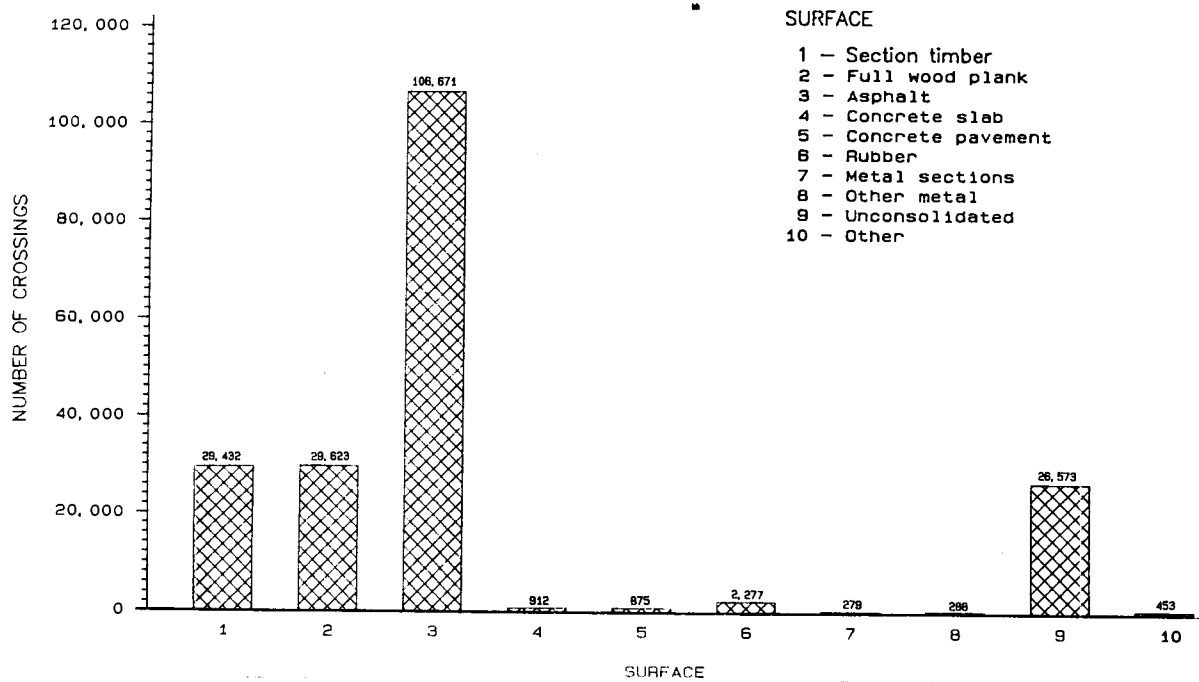
State	Active Warning	X-buck meet standards		Total
		Yes	No	
Alabama.....	831	1,620	2,308	4,759
Alaska.....	56	63	80	199
Arizona.....	360	511	131	1,002
Arkansas.....	707	1,941	890	3,538
California.....	4,561	1,952	2,402	8,915
Colorado.....	573	999	770	2,342
Connecticut.....	229	116	159	504
Delaware.....	130	94	36	260
Dist of Columbia.	3	14	39	56
Florida.....	2,641	1,327	530	4,498
Georgia.....	1,387	4,239	1,210	6,836
Hawaii.....	---	4	2	6
Idaho.....	285	891	684	1,860
Illinois.....	4,898	5,644	1,678	12,220
Indiana.....	3,144	3,333	2,450	8,927
Iowa.....	1,638	3,467	1,275	6,380
Kansas.....	1,303	3,107	4,750	9,160
Kentucky.....	1,047	1,513	1,050	3,610
Louisiana.....	1,035	2,965	663	4,663
Maine.....	442	507	51	1,000
Maryland.....	310	235	395	940
Massachusetts....	680	305	215	1,200
Michigan.....	2,571	3,746	1,482	7,799
Minnesota.....	1,204	4,795	559	6,558
Mississippi.....	453	1,624	1,172	3,249
Missouri.....	1,623	1,535	2,712	5,870
Montana.....	344	1,040	395	1,779
Nebraska.....	915	2,857	987	4,759
Nevada.....	124	101	123	348
New Hampshire....	196	41	420	657
New Jersey.....	1,067	382	662	2,111
New Mexico.....	261	305	254	820
New York.....	2,006	979	975	3,960
North Carolina...	1,494	2,110	1,886	5,490
North Dakota.....	438	2,774	2,051	5,263
Ohio.....	3,024	3,293	2,621	8,938
Oklahoma.....	1,029	1,271	2,665	4,965
Oregon.....	574	961	1,263	2,798
Pennsylvania.....	2,085	1,505	2,882	6,472
Rhode Island.....	51	2	79	132
South Carolina...	876	2,615	841	4,332
South Dakota.....	184	2,096	356	2,636
Tennessee.....	886	1,210	2,040	4,136
Texas.....	4,031	4,077	5,966	14,074
Utah.....	321	489	515	1,325
Vermont.....	239	191	170	600
Virginia.....	1,109	963	554	2,626
Washington.....	725	1,673	1,456	3,854
West Virginia....	587	941	902	2,430
Wisconsin.....	1,942	2,763	1,179	5,884
Wyoming.....	194	224	170	588
Puerto Rico.....	7	16	32	55
Unknown.....	---	---	---	---
Total.....	56,820	81,426	59,137	197,383

**NOTE:** The manual requires two reflectorized crossbucks to be placed at all crossings.

For crossings with active warning devices, a determination has not been made as to whether crossbucks which are part of the device meet the MUTCD standard.



**FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE**

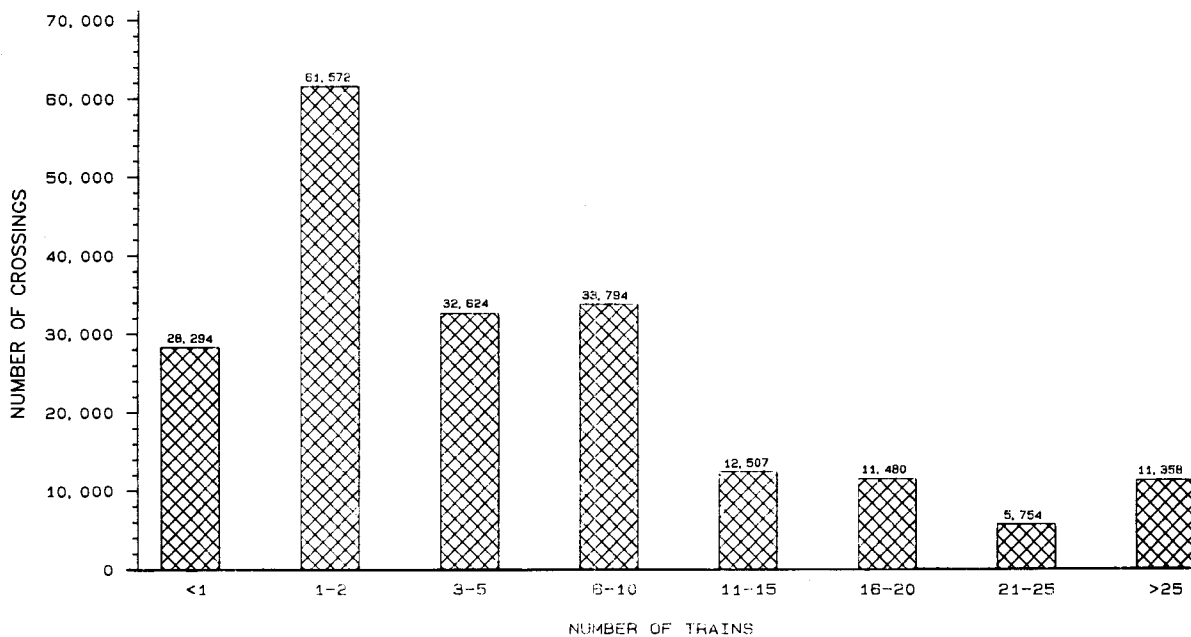


**FIGURE 31. CROSSINGS BY CROSSING SURFACE**

**OPERATIONAL CHARACTERISTICS  
TRAIN TRAFFIC DATA**

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

<u>Trains</u>	<u>Crossings</u>
<1	28,294
1-5	94,196
6-10	33,794
11-15	12,507
16-20	11,480
21-25	5,754
26-30	4,397
31-35	2,219
36-40	1,500
41-45	781
46-50	847
51-55	320
56-60	366
61-65	265
66-70	83
71-75	79
76-80	232
81-85	34
86-90	15
91-95	14
96-100	62
>100	144
Total	197,383



**FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY**

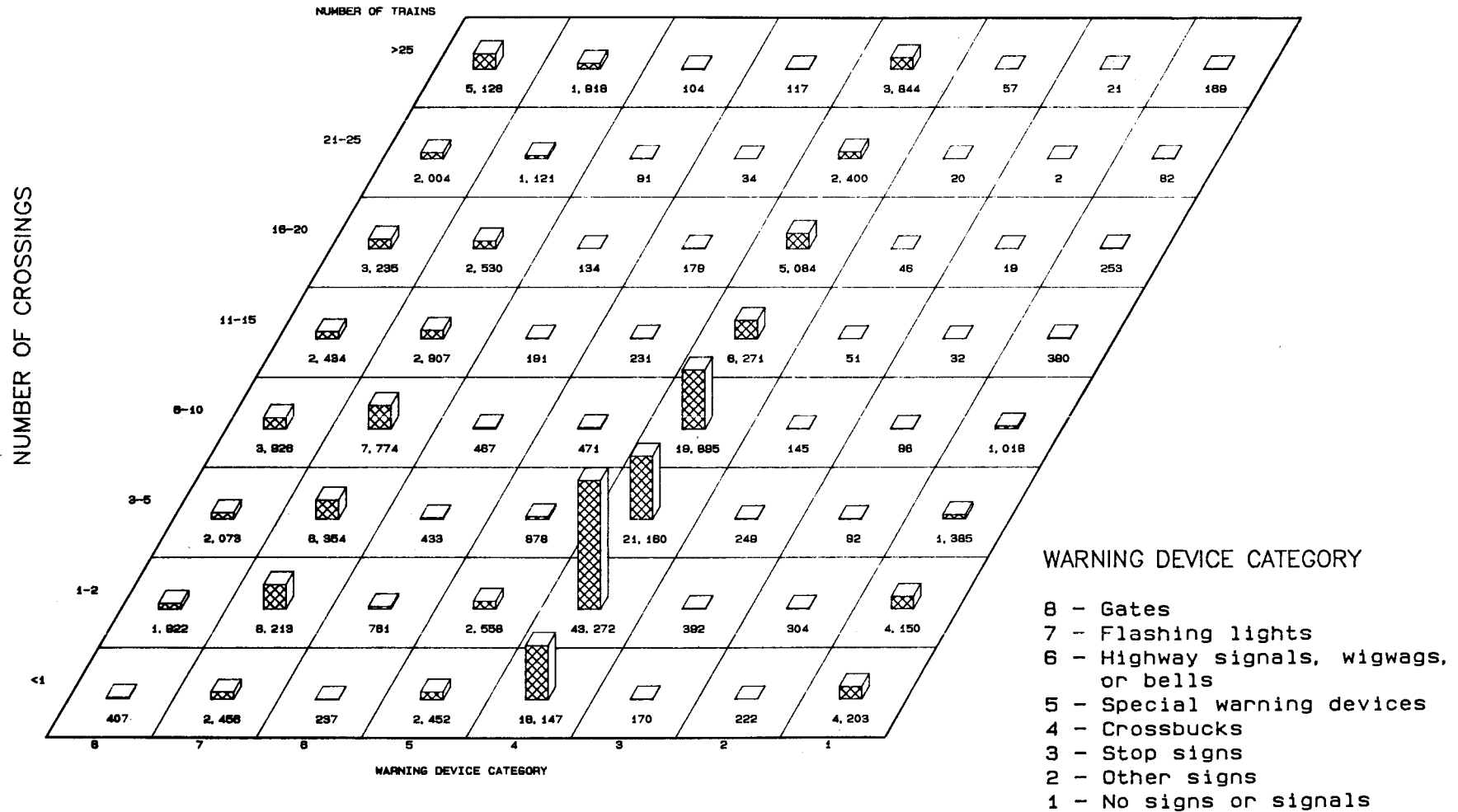


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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

Switching Trains	Through trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	28,294	35,166	15,908	15,570	5,275	5,585	2,462	4,589	112,849
1-2	25,074	9,064	6,483	6,321	2,866	1,925	1,041	1,510	54,284
2-3	6,324	1,772	2,223	2,473	1,178	606	855	806	16,237
6-10	3,541	935	901	1,298	927	904	306	620	9,432
11-15	707	176	190	279	94	91	60	126	1,723
16-20	614	112	108	210	91	99	134	119	1,487
21-25	153	34	19	63	17	14	31	47	378
>25	346	86	77	126	103	91	28	136	993
<b>Total</b>	<b>65,053</b>	<b>47,345</b>	<b>25,909</b>	<b>26,340</b>	<b>10,551</b>	<b>9,315</b>	<b>4,917</b>	<b>7,953</b>	<b>197,383</b>

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

Day Trains	Night trains								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
<1	28,294	8,097	1,319	242	16	7	2	1	37,978
1-2	38,319	31,820	3,509	527	17	4	1	2	74,199
2-3	6,150	11,812	17,781	1,503	97	171	3	3	37,520
6-10	2,630	2,798	6,675	14,541	1,648	143	224	17	28,676
11-15	361	255	716	3,284	5,178	679	16	36	10,525
16-20	329	38	80	641	1,132	1,776	168	240	4,404
21-25	52	8	39	121	317	183	521	98	1,339
>25	503	43	43	97	288	305	334	1,129	2,742
<b>Total</b>	<b>76,638</b>	<b>54,871</b>	<b>30,162</b>	<b>20,956</b>	<b>8,693</b>	<b>3,268</b>	<b>1,269</b>	<b>1,526</b>	<b>197,383</b>

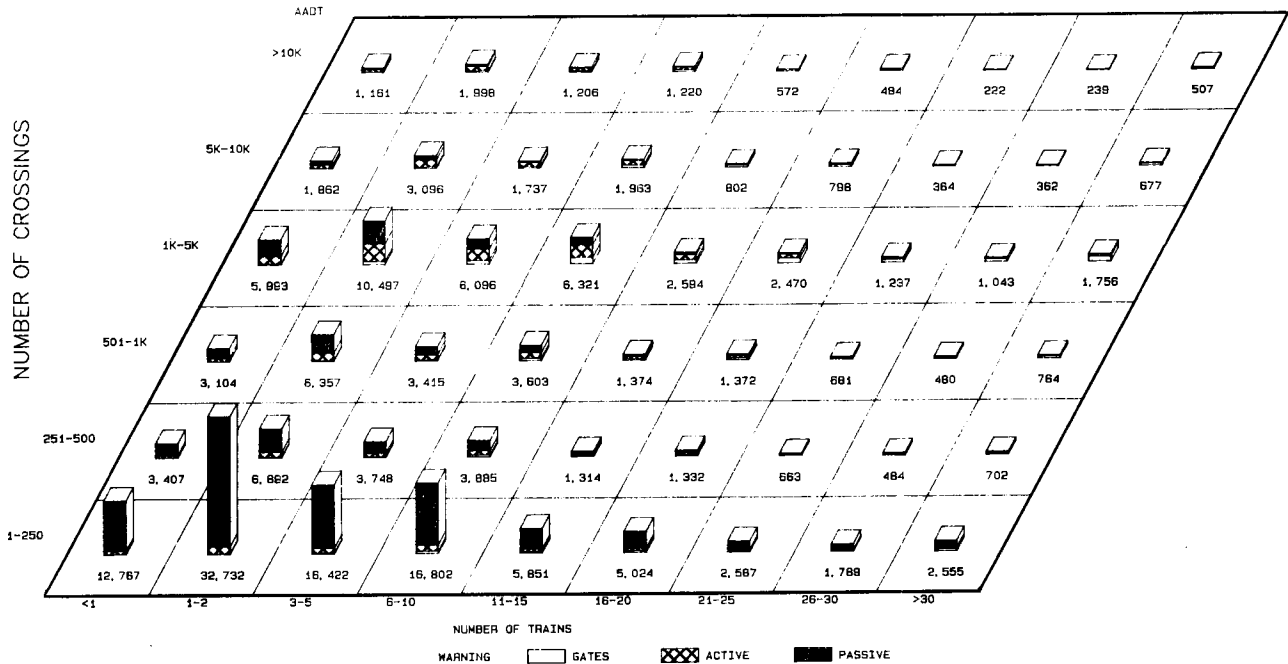


**TABLE 53. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY**

Warning device	NUMBER OF TRAINS								Total
	<1	1-2	3-5	6-10	11-15	16-20	21-25	>25	
Gates.....	407	1,922	2,073	3,926	2,434	3,235	2,004	5,128	21,129
Flashing lights.....	2,456	8,213	6,354	7,774	2,907	2,530	1,121	1,918	33,273
Hwy. signals, wigwags, bells	237	761	433	467	191	134	91	104	2,418
Special warning devices.....	2,452	2,558	878	471	231	179	34	117	6,920
Crossbucks.....	18,147	43,272	21,160	19,895	6,271	5,084	2,400	3,844	120,073
Stop signs.....	170	392	249	145	51	46	20	57	1,130
Other signs.....	222	304	92	98	32	19	2	21	790
No signs or signals.....	4,203	4,150	1,385	1,018	390	253	82	169	11,650
Total.....	28,294	61,572	32,624	33,794	12,507	11,480	5,754	11,358	197,383

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

Trains	Average annual daily traffic						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	
<1	12,767	3,407	3,104	5,993	1,862	1,161	28,294
1-2	32,732	6,892	6,357	10,497	3,096	1,998	61,572
2-3	16,422	3,748	3,415	6,096	1,737	1,206	32,624
6-10	16,802	3,885	3,603	6,321	1,963	1,220	33,794
11-15	5,851	1,314	1,374	2,594	802	572	12,507
16-20	5,024	1,332	1,372	2,470	798	484	11,480
21-25	2,587	663	681	1,237	364	222	5,754
>25	4,344	1,186	1,244	2,799	1,039	746	11,358
Total	96,529	22,427	21,150	38,007	11,661	7,609	197,383



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

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

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	9,392
6-10	30,324
11-15	14,727
16-20	14,966
21-25	22,301
26-30	23,895
31-35	14,052
36-40	20,930
41-45	4,569
46-50	17,601
51-55	2,500
56-60	9,954
61-65	1,195
66-70	3,859
71-75	716
76-80	5,289
81-85	11
86-90	822
91-95	---
96-100	3
>100	277
Total	197,383

**TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION**

<u>Speed Variation</u>	<u>Crossings</u>
<1	3,635
1-5	55,663
6-10	50,167
11-15	21,113
16-20	18,542
21-25	10,912
26-30	11,581
31-35	5,544
36-40	6,214
41-45	2,701
46-50	5,058
51-55	1,050
56-60	2,063
61-65	696
66-70	684
71-75	640
76-80	713
81-85	56
86-90	60
91-95	---
96-100	---
>100	291
Total	197,383

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

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

AADT	Crossings
1-100	67,138
101-200	18,246
201-300	17,210
301-400	7,830
401-500	8,532
501-600	5,019
601-700	3,585
701-800	5,369
801-900	2,789
901-1,000	4,388
1,001-2,000	17,141
2,001-3,000	9,904
3,001-4,000	5,821
4,001-5,000	5,141
5,001-6,000	3,144
6,001-7,000	2,362
7,001-8,000	2,544
8,001-9,000	1,725
9,001-10,000	1,886
10,001-20,000	6,041
>20,000	1,568
Total	197,383

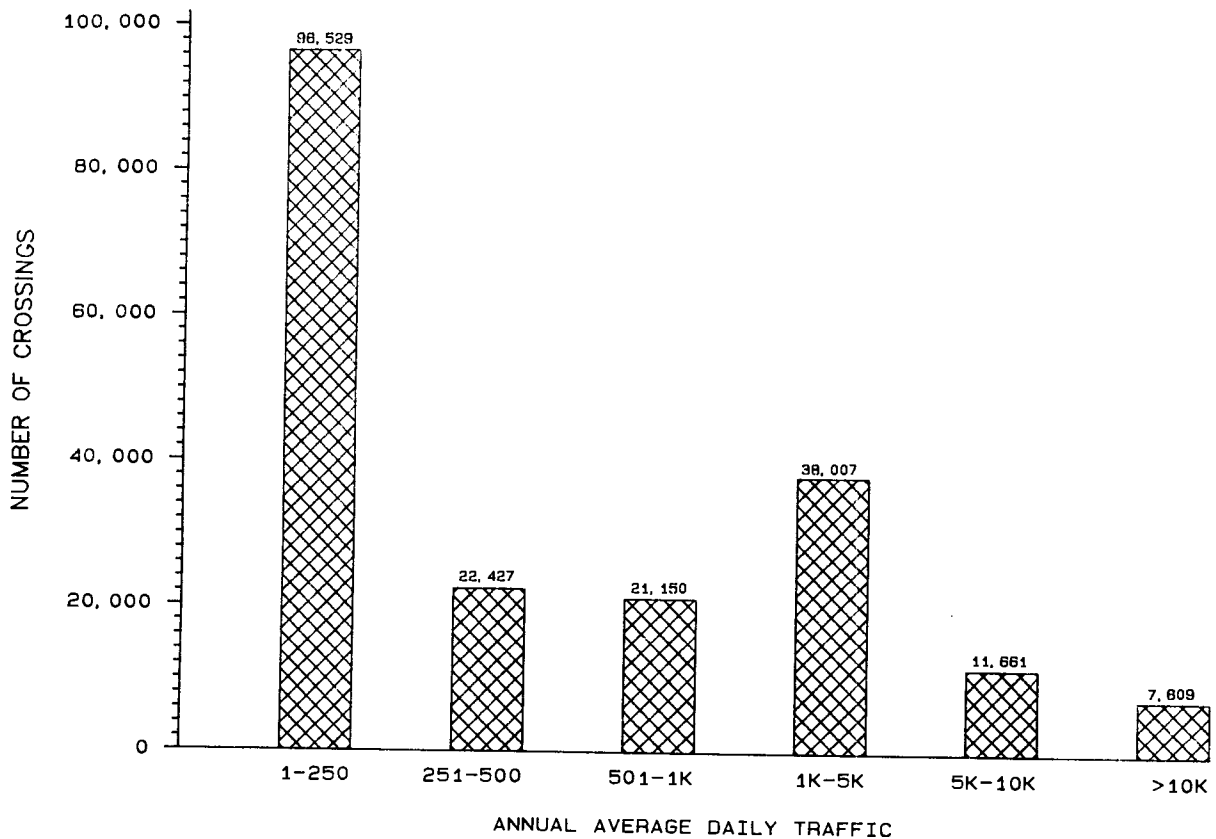
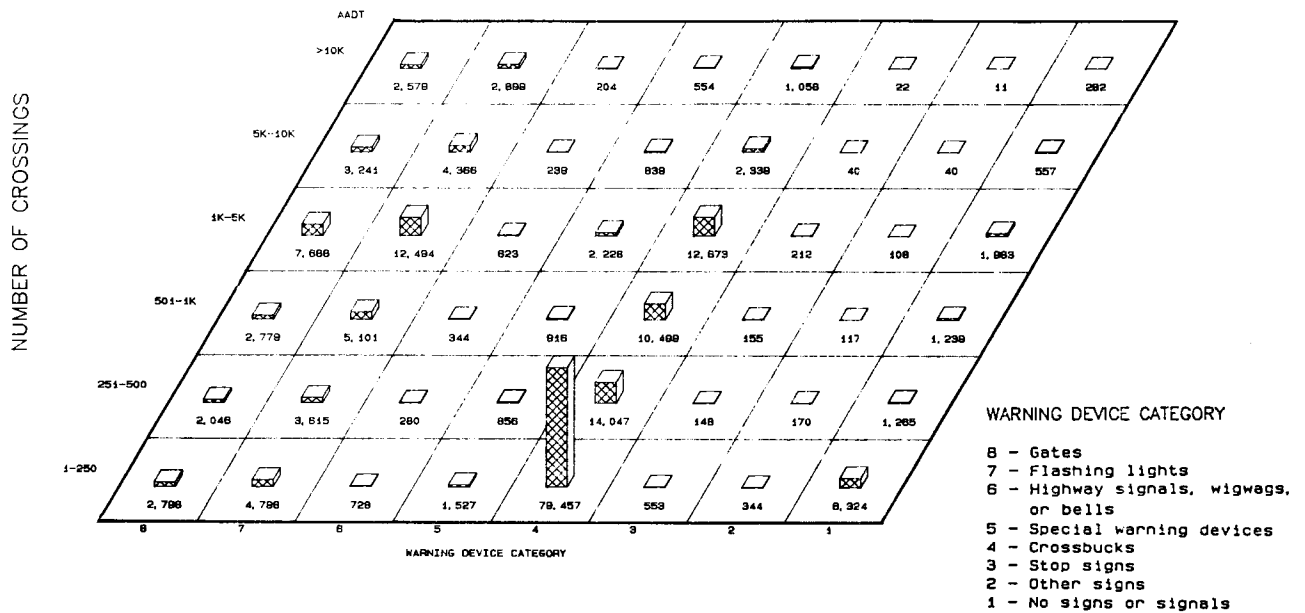


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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

Warning device	ANNUAL AVERAGE DAILY TRAFFIC						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	
Gates.....	2,798	2,046	2,779	7,686	3,241	2,579	21,129
Flashing lights.....	4,798	3,615	5,101	12,494	4,366	2,899	33,273
Hwy. signals, wigwags, bells	728	280	344	623	239	204	2,418
Special warning devices.....	1,527	856	916	2,228	839	554	6,920
Crossbucks.....	79,457	14,047	10,499	12,673	2,339	1,058	120,073
Stop signs.....	553	148	155	212	40	22	1,130
Other signs.....	344	170	117	108	40	11	790
No signs or signals.....	6,324	1,265	1,239	1,983	557	282	11,650
Total.....	96,529	22,427	21,150	38,007	11,661	7,609	197,383



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

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

%	Crossings
<1	7,822
1-5	79,386
6-10	68,959
11-15	19,758
16-20	9,640
21-25	2,330
26-30	6,201
31-35	400
36-40	1,115
41-45	154
46-50	1,097
51-55	19
56-60	167
61-65	6
66-70	61
71-75	117
76-80	74
81-85	6
86-90	60
91-95	1
96-99	10
Total	197,383

**TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE**

State	Section Timber	Full Wood Plank	Concrete Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
ALABAMA	121	379	3,666	2	2	4	2	1	582	---
ALASKA	4	122	42	20	---	8	---	---	3	---
ARIZONA	108	266	528	1	2	22	---	---	75	---
ARKANSAS	520	241	1,891	2	8	8	---	3	858	7
CALIFORNIA	934	1,390	6,382	21	10	14	---	---	161	3
COLORADO	529	517	882	3	8	31	1	52	303	16
CONNECTICUT	106	4	358	4	2	23	2	---	3	2
DELAWARE	19	8	200	1	11	15	---	---	6	---
DIST OF COLUMBIA	6	1	31	---	18	---	---	---	---	---
FLORIDA	446	57	3,441	148	4	47	2	2	276	75
GEORGIA	133	128	5,922	23	31	---	1	1	596	1
HAWAII	---	---	6	---	---	---	---	---	---	---
IDAHO	173	998	543	1	---	11	---	---	115	19
ILLINOIS	2,056	1,556	6,498	36	46	404	10	9	1,584	21
INDIANA	1,405	353	6,383	13	27	97	4	6	627	12
IOWA	101	1,327	2,843	5	15	109	1	2	1,926	51
KANSAS	2,732	1,494	1,479	7	6	11	3	1	3,418	9
KENTUCKY	435	391	2,022	4	14	39	2	3	700	---
LOUISIANA	585	705	2,053	7	12	366	1	84	831	19
MAINE	57	261	663	---	---	9	---	---	8	2
MARYLAND	183	14	640	2	15	42	5	---	30	9
MASSACHUSETTS	65	29	1,009	8	---	73	1	---	15	---
MICHIGAN	2,218	1,113	3,443	18	15	196	198	1	587	10
MINNESOTA	139	3,437	2,483	42	10	19	---	1	417	10
MISSISSIPPI	151	389	1,722	2	4	66	1	1	912	1
MISSOURI	1,522	514	2,291	11	6	27	3	4	1,486	6
MONTANA	25	1,336	340	16	2	3	---	3	23	31
NEBRASKA	1,053	660	874	6	44	31	2	2	2,070	17
NEVADA	61	63	125	14	---	12	1	---	60	12
NEW HAMPSHIRE	57	82	495	3	---	3	---	---	16	1
NEW JERSEY	80	15	1,797	22	35	29	3	16	99	15
NEW MEXICO	508	153	51	---	2	7	---	---	99	---
NEW YORK	611	207	2,813	13	14	162	---	3	131	6
NORTH CAROLINA	23	48	5,004	9	12	3	2	1	380	8
NORTH DAKOTA	62	4,048	561	57	2	17	---	---	505	11
OHIO	2,517	222	5,719	12	28	59	1	10	356	14
OKLAHOMA	1,559	401	1,372	9	15	8	1	6	1,584	10
OREGON	231	626	1,704	9	9	1	2	5	210	1
PENNSYLVANIA	1,028	77	4,531	65	248	42	2	19	458	2
RHODE ISLAND	1	1	127	---	---	2	---	---	---	1
SOUTH CAROLINA	35	16	3,827	58	11	---	3	1	380	1
SOUTH DAKOTA	9	1,724	614	1	---	40	1	1	238	8
TENNESSEE	173	326	3,102	7	2	7	2	11	505	1
TEXAS	4,820	1,162	5,287	79	110	95	4	19	2,493	5
UTAH	249	267	619	8	7	13	2	8	147	5
VERMONT	49	52	389	---	1	4	---	---	105	---
VIRGINIA	247	57	2,111	6	6	4	8	11	154	22
WASHINGTON	72	1,626	1,970	119	9	15	2	1	39	1
WEST VIRGINIA	1,004	12	950	3	5	8	---	---	448	---
WISCONSIN	160	524	4,673	14	44	61	6	---	401	1
WYOMING	50	224	147	1	1	10	---	---	148	7
PUERTO RICO	---	---	48	---	2	---	---	---	5	---
FINAL TOTALS	29,432	29,623	106,671	912	875	2,277	279	288	26,573	453

## APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

### ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1985 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more state circumstances.

- (a) An impact occurs between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian or other highway user at a rail-highway crossing.
- (b) Any collision, derailment, fire, explosion, act of GOD or other event involving the operation of railroad on-track equipment (standing or moving) which results in more than \$4,900 in damages to railroad on-track equipment, signals, track and/or track structures, and roadbed.
- (c) Any event arising from the operation of a railroad which results in:
  - (i) death of one or more persons;
  - (ii) injury to one or more persons, other than railroad employees, requiring medical treatment;
  - (iii) injury to one or more employees requiring medical treatment or resulting in restriction of work or motion for one or more days, one or more lost work days, transfer to another job, termination of employment or loss of consciousness;
  - (iv) any occupational illness of railroad employee diagnosed by a physician.

### DEFINITIONS

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

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

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

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



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

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

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

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

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

Crossing surfaces.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Other signs. Signs other than crossbucks or stop signs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Type of development.

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

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

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

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

---

<sup>1</sup>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 rail-highway crossing accident/incident:

- FRA F 6180-57 Grade Crossing Accident/Incident Report
- FRA F 6180-55 Railroad Injury and Illness Summary
- FRA F 6180-54 Rail Equipment Accident/Incident Report

For all reportable rail-highway crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than \$4,500 in damages to railroad on-track equipment, signals, track, track structures, or roadbed, Form FRA 6180-54 must also be submitted.

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
**RAILROAD INJURY AND ILLNESS SUMMARY**

*Form Approved*  
*OMB No. 04-R4009*

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

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

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

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

7. MILES RUN DURING MONTH

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

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED
TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54
		TOTAL FRA FORMS 6180-57

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

**SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES**

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

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

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



# RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD			1a. Alphabetic Code		1b. Railroad Accident/Incident No.	
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			Autotrak		2b. Railroad Accident/Incident No.	
			Autotrak			
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code		3b. Railroad Accident/Incident No.	
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER			5. DATE OF ACCIDENT/INCIDENT		6. TIME OF ACCIDENT/INCIDENT	
			month   day   year		am <input type="checkbox"/> pm <input type="checkbox"/>	
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box; single entry)						
1. Derailment    3. Rear end collision    5. Raking collision    7. Rail-Hwy crossing    9. Obstruction    11. Fire or violent rupture    12. Other (specify)						
2. Head on collision    4. Side collision    6. Broken train collision    8. RR grade crossing    10. Explosion-Detonation						
<b>HAZARDOUS MATERIALS (number of)</b>						
8. CARS CARRYING		9. CARS DAMAGED OR DERAILED		10. CARS WHICH RELEASED HAZ. MAT.		11. PEOPLE EVACUATED (est.)
<b>LOCATION</b>						
12. DIVISION		13. NEAREST STATION		14. MILEPOST (to nearest tenth)		15. STATE (two letter code)
<b>ENVIRONMENTAL CONDITIONS</b>						
16. TEMPERATURE (specify if minus) °F		17. VISIBILITY (single entry)		18. WEATHER (single entry)		CODE
		1. Dawn    3. Dusk 2. Day    4. Dark		1. Clear    2. Cloudy    3. Rain    4. Fog    5. Sleet    6. Snow		CODE
<b>OPERATIONAL DATA</b>						
19. METHOD						
(place X in appropriate box(es))						
1. <input type="checkbox"/> Manual block		4. <input type="checkbox"/> Automatic block		7. <input type="checkbox"/> Yard rules		10. <input type="checkbox"/> Auto. train control
2. <input type="checkbox"/> Interlocking		5. <input type="checkbox"/> Traffic control		8. <input type="checkbox"/> Time table		11. <input type="checkbox"/> Verbal permission
3. <input type="checkbox"/> Cab signal		6. <input type="checkbox"/> Auto. train stop		9. <input type="checkbox"/> Radio		12. <input type="checkbox"/> Train orders
20. SPEED (record, if available) Est. MPH   Recorded MPH			21. TRAIN NUMBER		22. TIME TABLE DIRECTION	
					1. North    2. South    3. East    4. West	
<b>EQUIPMENT</b>						
23. TRAILING TONS (gross tonnage, excluding power units)		24. TYPE OF EQUIPMENT CONSIST (single entry)			25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED?	
		1. Freight train    3. Mixed train    5. Single car    7. Yard/switching 2. Passenger train    4. Work train    6. Cut of cars    8. Light locos			1. Yes    2. No	
26. TRACK NUMBER OR NAME		27. FRA TRACK CLASSIFICATION		28. ANNUAL TRACK DENSITY (gross tons in millions)		29. TYPE OF TRACK
						1. Main    3. Siding 2. Yard    4. Industry
30. PRINCIPLE CAR/UNIT		30a. Initial and Number		30b. Position in Train		30c. Loaded (yes or no)
(1) First Involved (derailed, struck, striking, etc.)						
(2) Causing (mechanical failures)						
31. LOCOMOTIVE UNITS (no. of)		a. Head End		32. CARS (no. of)		Loaded    Empty
		b. Manual    c. Remote		d. Manual    e. Remote		a. Freight    b. Pass.    c. Freight    d. Pass.    e. Caboose
(1) Total in Train				(1) Total in Equipment Consist		
(2) Total Derailed				(2) Total Derailed		
<b>PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)</b>						
33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) \$			34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) \$			
<b>ACCIDENT/INCIDENT CAUSE CODE</b>						
35. PRIMARY CAUSE		36. CONTRIBUTING CAUSE		37. If no code available, explain cause.		
CODE		CODE				
<b>CASUALTIES</b>						
38. NUMBER OF PERSONS INJURED			39. ESTIMATED TOTAL DAYS DISABILITY		40. NUMBER OF FATALITIES	
<b>CREW (no. of)      HOURS ON DUTY</b>						
41. ENGINEERS		42. FIREMEN		43. CONDUCTORS		44. BRAKEMEN
45. ENGINEER		46. CONDUCTOR				
Hrs:          Mins:		Hrs:          Mins:				
47. TYPED NAME AND TITLE				48. SIGNATURE		49. DATE
50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident						



# RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <div style="text-align: center;">Amtrak Autotrain</div>		1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT		2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)		3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER	5. DATE OF ACCIDENT/INCIDENT month      day      year		6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>

<b>LOCATION</b>			
7. NEAREST RAILROAD STATION	8. COUNTY	9. STATE (two letter code)	CODE
10. CITY (if in a city)	11. HIGHWAY NAME OR NUMBER (if private crossing, so state)		

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

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

<b>TRAIN AND TRACK</b>			
23. TYPE OF TRAIN 1. Freight 2. Passenger 3. Mixed 4. Work 5. Yard/Switching 6. Light Locomotive(s)	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 2. Yard 3. Siding 4. Industry	CODE
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION	27. NUMBER OF LOCOMOTIVE UNITS	
28. NUMBER OF CARS	29. TRAIN SPEED (recorded speed, if available) MPH      Est      Recorded	30. TIME TABLE DIRECTION 1. North 2. South 3. East 4. West	CODE

<b>CROSSING WARNING</b>			
31. TYPE (place X in appropriate box(es)) 1. Gates 2. Cantilever FLS 3. Standard FLS 4. Wig Wags 5. Hwy. Traffic Signals 6. Audible 7. Crossbucks 8. Stop Signs 9. Watchman 10. Flagged by crew 11. Other (specify) 12. None	32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes      2. No		CODE
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes      2. No      3. Unknown	CODE
35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes      2. No      3. Unknown			

<b>MOTORIST ACTION</b>			
36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes      2. No      3. Unknown		CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes      2. No      3. Unknown
38. MOTORIST 1. Drove around or thru the gate      2. Stopped and then proceeded      3. Did not stop      4. Other (specify)      5. Unknown			
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure      2. Standing railroad equipment      3. Passing train      4. Topography      5. Vegetation      6. Highway vehicles      7. Other (specify)      8. Not obstructed			

<b>HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES</b>			
40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS 1. Killed      2. Injured      3. Uninjured	CODE	42. WAS DRIVER IN THE VEHICLE? 1. Yes      2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED	44. TOTAL NUMBER OF OCCUPANTS INJURED	45. TOTAL NUMBER OF OCCUPANTS (include driver)	

46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes      2. No			CODE
47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE	

U.S. DOT - AAR CROSSING INVENTORY FORM

A. INITIATING AGENCY

RAILROAD  STATE

C. REASON FOR UPDATE:

CHANGES IN EXISTING CROSSING DATA  
 NEW CROSSING  
 CLOSED CROSSING

D. EFFECTIVE DATE

M  D  Y

B. CROSSING NUMBER

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

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

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements, 1B. Check if Less Than One Movement Per Day, 2. Speed of Train at Crossing, B. Typical Speed Range Over Crossing

3. Type and Number of Tracks, main, other, If other specify

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

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

6. Type of Warning Device at Crossing

A. Signs

Crossbucks, Standard Highway Stop Sign, Other Stop Signs, Other Signs: Specify

B. Train Activated Devices

Gates, Cantilevered Flashing Lights, Mast Mounted Flashing Lights, Other Flashing Lights, Highway Traffic Signals, Wigwags, Bells

C. Specify Special Warning Device not Train Activated

D. No Signs or Signals

7. Is Commercial Power Available? 8. Does Crossing Signal Provide Speed Selection for Trains? 9. Method of Signalling for Train Operation: Is Track Equipped with Signals?

Part III Physical Data

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

Part IV Highway Department Information

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

**APPENDIX C: MISCELLANEOUS DATA**

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

1. IS RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED?  
 YES 123 NO 5,970 NOT REPORTED 0
2. WAS DRIVER IN VEHICLE?  
 YES 5,257 NO 833 NOT REPORTED 3
3. DRIVER WAS:  
 KILLED 338 INJURED 1,562 UNINJURED 4,172 NOT REPORTED 21
4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?  
 YES 400 NO 4,020 NOT REPORTED 1,219 N/A 454
5. DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:  
 NORTH 1,448 SOUTH 1,495 EAST 1,593 WEST 1,517 NOT REPORTED 40
6. TRAIN TIMETABLE DIRECTION:  
 NORTH 1,357 SOUTH 1,299 EAST 1,707 WEST 1,705 NOT REPORTED 25

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

LESS THAN ONE TRAIN PER DAY?					
YES	29,600	NO	167,771	N/R	12
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	4,968	NO	192,322	N/R	93
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	28,353	NO	168,907	N/R	123
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	184,730	NO	12,649	N/R	4
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	57,028	NO	140,213	N/R	142
IS HIGHWAY PAVED?					
YES	136,668	NO	60,714	N/R	1
IS COMMERCIAL POWER AVAILABLE?					
YES	178,590	NO	18,733	N/R	60
DOES TRACK RUN DOWN A STREET? <sup>1</sup>					
YES	6,271	NO	188,507	N/R	2,605
NEARBY INTERSECTING HIGHWAY? <sup>1</sup>					
YES	74,583	NO	120,123	N/R	2,677
RR ADVANCE WARNING SIGNS PRESENT?					
YES	100,784	NO	96,599	N/R	0
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,522	NO	194,846	N/R	15
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	30,917	NO	166,463	N/R	3
DOES CROSSING PROVIDE SPEED SELECTION?					
YES	6,480	NO	64,169	N/R	126,734

<sup>1</sup>NOT ON ORIGINAL INVENTORY FORM USED IN THE FIVE PILOT STATES.

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

**APPENDIX D. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS**

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

State	TYPE OF TRAIN											
	---Freight---			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	9	---	3	---	---	---	4	---	---	---	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	9	1	8	---	---	---	---	---	---	1	---	---
California.....	19	2	5	3	7	1	4	---	---	2	---	---
Colorado.....	6	---	1	---	---	---	---	---	---	1	---	---
Connecticut.....	---	---	---	1	---	---	---	---	---	---	---	---
Delaware.....	2	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	6	---	3	1	---	1	4	---	---	2	---	---
Georgia.....	7	1	4	---	---	---	4	---	1	4	---	1
Idaho.....	2	---	---	---	---	---	---	---	---	---	---	---
Illinois.....	17	1	1	1	---	---	11	---	2	4	---	3
Indiana.....	7	---	1	1	---	---	3	---	1	---	---	---
Iowa.....	5	---	---	---	---	---	3	---	1	---	---	---
Kansas.....	3	1	1	---	---	---	---	---	---	1	---	---
Kentucky.....	21	2	10	1	---	---	1	---	---	1	---	---
Louisiana.....	15	---	7	---	---	---	1	---	---	2	---	---
Maine.....	2	---	---	---	---	---	---	---	---	1	---	---
Maryland.....	2	---	1	---	---	---	2	---	---	1	---	---
Massachusetts....	1	---	---	---	---	---	3	---	---	1	---	1
Michigan.....	3	---	1	5	2	---	7	---	---	1	---	---
Minnesota.....	3	1	---	1	---	---	1	---	1	1	---	---
Mississippi.....	6	2	3	---	---	---	---	---	---	2	---	1
Missouri.....	15	4	5	---	---	---	6	---	1	2	---	---
Montana.....	5	2	1	---	---	---	---	---	---	1	---	---
Nebraska.....	8	---	---	---	---	---	1	---	---	2	---	---
Nevada.....	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	3	---	---	2	---	---	3	---	---	2	---	---
New Mexico.....	1	1	---	---	---	---	---	---	---	---	---	---
New York.....	10	---	3	1	3	---	1	---	1	1	1	---
North Carolina...	9	---	5	---	---	---	2	---	---	2	---	2
North Dakota.....	1	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	18	2	9	1	---	21	8	---	1	1	---	---
Oklahoma.....	5	1	1	---	---	---	---	---	---	---	---	---
Oregon.....	6	---	1	1	---	---	2	---	1	---	---	---
Pennsylvania.....	17	2	8	---	---	---	2	---	1	5	---	2
Rhode Island.....	1	---	---	1	---	---	---	---	---	---	---	---
South Carolina...	7	---	---	---	---	---	2	---	---	---	---	---
South Dakota.....	2	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	10	2	2	---	---	---	3	---	---	1	---	---
Texas.....	41	---	13	---	---	---	7	---	---	6	---	2
Utah.....	1	---	2	---	---	---	---	---	---	---	---	---
Vermont.....	1	---	---	1	---	---	---	---	---	1	1	---
Virginia.....	19	1	1	1	---	---	2	---	1	2	---	---
Washington.....	9	1	5	2	---	---	1	---	1	3	---	---
West Virginia....	15	---	7	---	---	---	1	---	---	3	---	5
Wisconsin.....	2	---	1	---	---	---	1	---	---	2	---	---
Wyoming.....	1	---	---	---	---	---	---	---	---	1	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	352	27	113	24	12	23	90	---	13	60	2	17

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

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

**WARNING DEVICE CATEGORY**

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama Great Southern Railroad.....	---	---	---	---	1	---	---	---	1
Amtrak (National Railroad Passenger Corp.)	1	---	1	---	5	5	---	3	15
Atchison, Topeka and Santa Fe Railway Co..	1	1	---	---	9	4	2	2	19
Bangor And Aroostook Railroad Company.....	---	1	---	---	---	---	---	---	1
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	---	---	---	---	---	---	---	5	5
Burlington Northern.....	1	1	5	2	16	5	1	35	66
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	---	---	---	1	---	---	---	1
Central of Georgia Railroad Company.....	---	---	---	1	3	---	---	---	4
Central Vermont Railway Incorporated.....	---	---	---	---	1	---	---	---	1
Chessie System Railroads.....	---	1	---	2	9	5	---	30	47
Chicago and Northwestern Transportation Co	---	---	---	---	1	1	---	3	5
Chicago And Illinois Midland Railway Co...	---	---	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	---	1	---	---	---	---	---	---	1
Chicago, Milwaukee, St. Paul & Pacific RR.	---	---	---	---	5	1	---	3	9
Cincinnati, New Orleans & Texas Pacific RR	---	---	---	---	---	---	---	3	3
Consolidated Rail Corporation.....	2	8	1	3	13	6	5	29	67
Delaware and Hudson Railroad Company.....	---	1	---	---	---	---	---	1	2
Denver and Rio Grande Western Railroad Co.	---	---	---	---	1	1	3	---	5
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	---	---	---	---	---	---	---	1	1
Florida East Coast Railway Company.....	---	---	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	---	---	---	---	1	---	---	2	3
Grand Trunk Western Railroad Company.....	---	---	---	---	1	---	1	2	4
Green Bay And Western Railroad.....	---	---	---	---	---	---	---	---	---
Illinois Central Gulf Railroad.....	1	---	---	---	4	---	---	13	18
Kansas City Southern Railway Company.....	---	---	---	1	3	1	1	---	6
Louisiana & Arkansas Railway Company.....	---	1	---	---	---	---	---	1	2
Maine Central Railroad Company.....	---	---	1	---	---	---	---	---	1
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	1	1	1	2	17	2	---	12	36
Missouri-Kansas-Texas Railroad Company....	---	---	---	---	2	---	---	3	5
Monogahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	---	---	---	---	12	4	---	27	43
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---	---	---
Oklahoma, Kansas And Texas Railroad Co...	---	---	---	---	1	---	---	---	1
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	---	2	2	1	18	2	---	26	51
Soo Line Railroad.....	---	1	---	---	2	---	2	---	5
Southern Pacific Transportation Company...	2	---	2	1	10	10	---	3	28
Southern Railway Company.....	---	---	---	---	8	---	---	10	18
Spokane International Railroad.....	---	---	---	---	---	---	---	1	1
St. Louis Southwestern Railway Company....	---	---	---	---	3	---	---	2	5
Texas Northern Railroad Company.....	---	---	---	---	1	---	---	---	1
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Union Pacific Railroad.....	---	1	---	---	6	4	1	9	21
All Other Railroads.....	---	1	3	1	14	3	1	11	34
Total.....	9	21	16	14	168	54	17	237	536

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

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



**TABLE D-3. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE CROSSINGS BY TYPE OF ROADWAY USER**

Type Of Vehicle	----Acc/Inc----		-----Killed-----		-----Injured-----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	240	42.40	31	68.89	69	38.55	21	47
Truck.....	173	30.57	8	17.78	52	29.05	7	36
Truck-trailer....	110	19.43	1	2.22	45	25.14	1	23
Bus.....	1	.18	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	2	.35	1	2.22	---	---	1	---
Pedestrian.....	1	.18	1	2.22	---	---	1	---
Other.....	39	6.89	3	6.67	13	7.26	3	11
Total.....	566	100.00	45	100.00	179	100.00	34	117

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

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	---	---	---	---	---	---	4	---	2	2	---	21	2	---	---	8	---	23
Cantilever flashrs	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
Standard flashers	---	---	---	---	---	---	15	---	10	5	---	1	---	---	---	20	---	11
Hwy Sig, W W, Bells	---	---	---	1	---	---	10	---	2	4	---	---	1	---	1	16	---	3
Special Devices..	---	---	---	3	---	---	6	---	1	5	---	---	---	---	14	---	---	1
Crossbucks.....	---	---	---	6	---	4	96	8	34	62	---	13	1	---	1	165	8	52
Stopsigns.....	---	---	---	3	---	---	29	5	8	13	3	4	6	7	1	51	15	16
Other Signs.....	---	---	---	---	---	---	7	---	2	8	---	2	2	---	1	17	---	5
No Signs Or Signl	---	---	---	15	1	7	108	9	30	100	5	14	11	3	4	234	18	55
Total.....	---	---	---	28	1	14	276	22	89	199	8	55	23	10	8	526	41	166

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

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

**VISIBILITY**

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
<b>RAIL CONSIST STRUCK HIGHWAY USER</b>															
1-9.....	4	---	2	100	7	18	2	---	---	20	1	5	126	8	25
10-19.....	---	---	---	43	8	13	1	---	---	14	---	25	58	8	38
20-29.....	1	---	---	18	---	6	1	---	---	11	---	---	31	---	6
30-39.....	---	---	---	17	1	8	1	---	---	4	2	5	22	3	13
40-49.....	---	---	---	11	2	3	2	---	---	10	---	4	23	2	7
50-59.....	1	---	---	15	3	9	1	---	---	14	1	6	31	4	15
60-69.....	1	---	---	15	3	9	2	---	---	9	1	---	27	4	9
70-79.....	1	1	---	15	1	10	---	---	---	11	1	2	27	3	12
80-89.....	---	---	---	16	3	6	1	1	---	9	---	3	26	4	9
90-99.....	---	---	---	5	---	---	1	---	---	8	---	---	14	---	---
100-109.....	---	---	---	10	1	3	1	---	---	3	---	---	14	1	3
110-119.....	---	---	---	11	2	2	---	---	---	8	---	3	19	2	5
120-129.....	---	---	---	3	---	---	---	---	---	2	---	---	5	---	---
130-139.....	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
140-149.....	1	---	---	2	1	2	---	---	---	---	---	---	3	1	2
150 And over.....	1	---	---	2	---	---	1	---	---	2	---	---	6	---	---
Locomotives only.	1	---	---	23	1	5	---	---	---	13	---	5	37	1	10
Total.....	11	1	2	306	33	94	14	1	---	140	6	58	471	41	154
<b>HIGHWAY USER STRUCK RAIL CONSIST</b>															
1-9.....	---	---	---	14	---	3	2	---	1	8	---	3	24	---	7
10-19.....	---	---	---	5	---	---	---	---	---	4	---	---	9	---	---
20-29.....	---	---	---	4	---	1	---	---	---	---	---	---	4	---	1
30-39.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
40-49.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
50-59.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
60-69.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
70-79.....	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
80-89.....	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90-99.....	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
100-109.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110-119.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
120-129.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
130-139.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
140-149.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
150 And over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Locomotives only.	---	---	---	3	---	---	1	---	---	4	---	3	8	---	3
Total.....	---	---	---	32	---	4	3	---	1	20	---	7	55	---	12
<b>GRAND TOTAL</b>															
1-9.....	4	---	2	114	7	21	4	---	1	28	1	8	150	8	32
10-19.....	---	---	---	48	8	13	1	---	---	18	---	25	67	8	38
20-29.....	1	---	---	22	---	7	1	---	---	11	---	---	35	---	7
30-39.....	---	---	---	18	1	8	1	---	---	4	2	5	23	3	13
40-49.....	---	---	---	12	2	3	2	---	---	10	---	4	24	2	7
50-59.....	1	---	---	15	3	9	1	---	---	15	1	6	32	4	15
60-69.....	1	---	---	16	3	9	2	---	---	9	1	---	28	4	9
70-79.....	1	1	---	15	1	10	---	---	---	13	1	2	29	3	12
80-89.....	---	---	---	17	3	6	1	1	---	9	---	3	27	4	9
90-99.....	---	---	---	5	---	---	1	---	---	9	---	1	15	---	1
100-109.....	---	---	---	10	1	3	1	---	---	3	---	---	14	1	3
110-119.....	---	---	---	13	2	2	---	---	---	8	---	3	21	2	5
120-129.....	---	---	---	3	---	---	---	---	---	2	---	---	5	---	---
130-139.....	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
140-149.....	1	---	---	2	1	2	---	---	---	---	---	---	3	1	2
150 And over.....	1	---	---	2	---	---	1	---	---	2	---	---	6	---	---
Locomotives only.	1	---	---	26	1	5	1	---	---	17	---	8	45	1	13
Total.....	11	1	2	338	33	98	17	1	1	160	6	65	526	41	166

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

**WARNING DEVICE CATEGORY**

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	---	1	---	5	---	---	7	13
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	---	---	---	---	---	---	---
Arkansas.....	---	---	---	---	5	---	---	5	10
California.....	2	1	1	1	1	15	1	6	28
Colorado.....	---	---	---	1	2	1	3	---	7
Connecticut.....	---	---	---	---	1	---	---	---	1
Delaware.....	---	---	---	---	1	---	---	1	2
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	---	---	---	2	5	1	---	5	13
Georgia.....	---	1	1	1	8	1	---	3	15
Idaho.....	---	---	---	---	2	---	---	---	2
Illinois.....	1	1	---	3	9	2	1	16	33
Indiana.....	---	2	---	---	4	1	---	4	11
Iowa.....	---	1	1	---	4	---	---	2	8
Kansas.....	---	---	---	---	3	---	---	1	4
Kentucky.....	---	1	---	---	2	---	---	21	24
Louisiana.....	---	---	1	1	6	---	---	10	18
Maine.....	---	1	1	---	---	---	1	---	3
Maryland.....	---	---	---	1	1	---	---	3	5
Massachusetts....	---	---	---	---	1	1	---	3	5
Michigan.....	---	3	---	---	1	4	1	7	16
Minnesota.....	---	---	1	---	2	---	1	2	6
Mississippi.....	---	---	---	---	3	---	---	5	8
Missouri.....	1	1	---	---	7	1	---	13	23
Montana.....	---	---	---	---	1	1	---	4	6
Nebraska.....	---	---	---	---	2	---	1	8	11
Nevada.....	---	---	---	---	---	---	---	---	---
New Hampshire.....	---	---	---	---	---	---	---	---	---
New Jersey.....	1	2	1	1	---	1	1	3	10
New Mexico.....	---	---	---	---	1	---	---	---	1
New York.....	---	1	---	---	3	2	---	7	13
North Carolina...	---	---	1	---	7	1	---	4	13
North Dakota.....	---	---	---	---	1	---	---	---	1
Ohio.....	1	3	1	1	6	3	2	11	28
Oklahoma.....	---	---	---	---	2	---	---	3	5
Oregon.....	---	---	2	---	---	5	---	2	9
Pennsylvania.....	---	1	---	1	5	---	2	15	24
Rhode Island.....	---	---	---	---	1	---	---	1	2
South Carolina...	---	1	---	---	6	---	---	2	9
South Dakota.....	---	---	---	---	1	1	---	---	2
Tennessee.....	---	---	1	---	3	---	---	10	14
Texas.....	1	1	---	1	29	4	2	16	54
Utah.....	---	---	---	---	1	---	---	---	1
Vermont.....	---	---	---	---	1	---	---	2	3
Virginia.....	---	---	---	---	5	2	---	17	24
Washington.....	1	---	3	---	5	3	---	3	15
West Virginia....	---	---	---	---	9	---	---	10	19
Wisconsin.....	---	---	---	---	3	1	---	1	5
Wyoming.....	---	---	---	---	---	---	1	1	2
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	8	21	16	14	165	51	17	234	526

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

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

Railroad	-----Motor Vehicle-----			---Other Highway Users---			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	1	---	1	---	---	---	1	---	1
Amtrak (National Railroad Passenger Corp.)	15	---	19	---	---	---	15	---	19
Atchison, Topeka and Santa Fe Railway Co..	19	4	7	1	---	---	20	4	7
Bangor And Aroostook Railroad Company.....	1	---	---	---	---	---	1	---	---
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	5	1	1	---	---	---	5	1	1
Burlington Northern.....	66	9	17	2	---	---	68	9	17
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	1	---	2	---	---	---	1	---	2
Central of Georgia Railroad Company.....	4	---	2	2	1	2	6	1	4
Central Vermont Railway Incorporated.....	1	---	---	---	---	---	1	---	---
Chessie System Railroads.....	47	2	24	3	1	1	50	3	25
Chicago and Northwestern Transportation Co	5	---	---	1	---	---	6	---	---
Chicago And Illinois Midland Railway Co...	---	---	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	1	---	---	---	---	---	1	---	---
Chicago, Milwaukee, St. Paul & Pacific RR.	9	1	2	1	---	---	10	1	2
Cincinnati, New Orleans & Texas Pacific RR	3	---	1	1	---	1	4	---	2
Consolidated Rail Corporation.....	67	7	15	4	---	---	71	7	15
Delaware and Hudson Railroad Company.....	2	---	---	---	---	---	2	---	---
Denver and Rio Grande Western Railroad Co.	5	---	1	---	---	---	5	---	1
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	1	---	---	---	---	---	1	---	---
Florida East Coast Railway Company.....	---	---	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	3	---	---	---	---	---	3	---	---
Grand Trunk Western Railroad Company.....	4	---	---	---	---	---	4	---	---
Green Bay And Western Railroad.....	---	---	---	---	---	---	---	---	---
Illinois Central Gulf Railroad.....	18	2	5	---	---	---	18	2	5
Kansas City Southern Railway Company.....	6	---	1	2	---	1	8	---	2
Louisiana & Arkansas Railway Company.....	2	---	---	1	---	---	3	---	---
Maine Central Railroad Company.....	1	---	---	---	---	---	1	---	---
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	36	1	16	---	---	---	36	1	16
Missouri-Kansas-Texas Railroad Company....	5	---	1	---	---	---	5	---	1
Monogahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	43	3	13	4	---	1	47	3	14
Northwestern Pacific Railroad.....	---	---	---	1	---	1	1	---	1
Oklahoma, Kansas And Texas Railroad Co....	1	---	1	---	---	---	1	---	1
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	51	2	14	8	2	1	59	4	15
Soo Line Railroad.....	5	---	1	---	---	---	5	---	1
Southern Pacific Transportation Company...	28	7	2	---	---	---	28	7	2
Southern Railway Company.....	18	1	6	4	---	1	22	1	7
Spokane International Railroad.....	1	---	---	---	---	---	1	---	---
St. Louis Southwestern Railway Company....	5	---	4	1	---	---	6	---	4
Texas Northern Railroad Company.....	1	---	---	---	---	---	1	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Union Pacific Railroad.....	21	---	5	---	---	---	21	---	5
All Other Railroads.....	34	1	5	4	---	4	38	1	9
Total.....	536	41	166	40	4	13	576	45	179

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.

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