

Thomas F. Wall



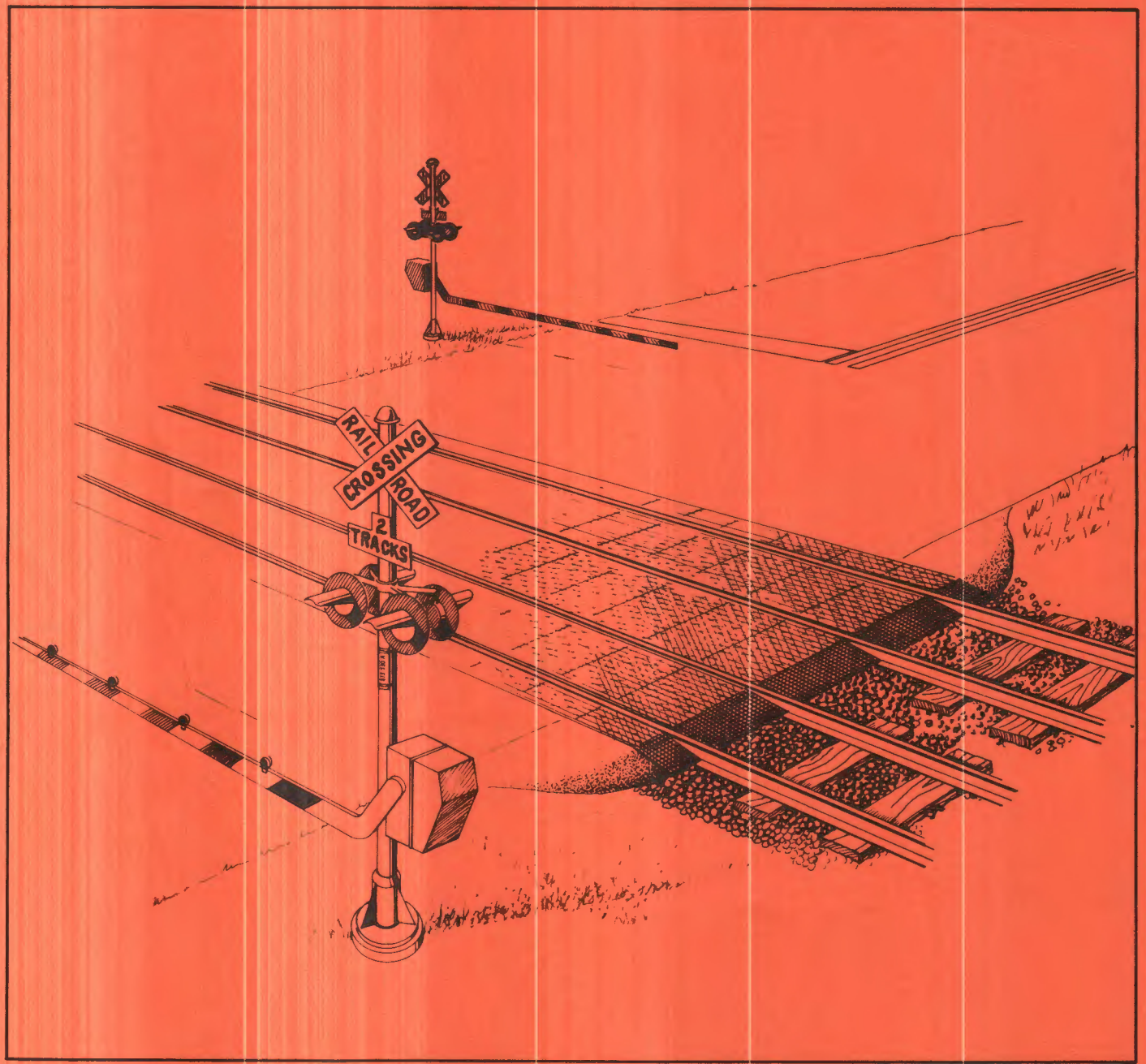
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Office of Safety

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

This year a new appendix has been added that contains information concerning trespassers who were killed or injured as a result of railroad operations. These tables and charts can be found in Appendix E. Additional summaries of accidents/incidents involving trespassers can be found in the annual Accident/Incident Bulletin published by FRA.

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

* * * * *

Section 1 presents historical data on rail-highway crossing accidents/incidents at public crossings for 1982 through 1987.

Section 2 contains 1987 accident/incident statistics on rail-highway crossing accidents/incidents that occurred at public crossing sites.

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

Section 4 gives the physical and operational statistics for all public at-grade rail-highway crossings as described in the inventory on July 18, 1988.

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

FRA performs extensive testing of the accident/incident and inventory files to identify inconsistencies in the information being reported. Occasionally an unresolved condition will exist at the time the bulletin is prepared. This may result in slight differences between total numbers on some tables.

The U.S. DOT Rail-Highway Crossing Resource Allocation Procedure, as described in the Rail-Highway Crossing Resource Allocation Procedure User's Guide, Third Edition, DOT/FRA/OS-87/10, August 1987, uses three "normalizing constants" within the accident prediction formulas. These constants need to be adjusted periodically in order to keep the formulas current with recent accident trends. Within the User's Guide, Third Edition, the commitment was made to periodically recalculate and publish these constants in the annual bulletin starting with this one, No. 10, for Calendar Year 1987.

The constants have been recalculated such that predictions, based on accident history for Calendar Years 1982 through 1986, sum to 1987's actual experience for each of the three warning device groups, passive, flashers, and gates. The new constants, for use in Formula A, section 3.2.4 of the User's Guide, Third Edition, are:

	<u>New</u>		<u>Old</u>
Passive	.8978	versus	.8644
Flashing Lights	.8013	versus	.8887
Gates	.8911	versus	.8131

Requests for resource allocation procedure listings, including accident prediction lists, will use the new constants starting October 1, 1988.

TABLE — S
SUMMARY OF RAIL—HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1987

Type of CrossingTotal.....		Motor Vehicles.....		Non-Motor Vehicles.....		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	5,859	598	2,313	5,627	533	2,239	232	65	74
Private	531	26	116	486	23	105	45	3	11
Total	6,390	624	2,429	6,113	556	2,344	277	68	85

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
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
1986	5,868	578	2,328	2,906	0.50
1987	5,859	598	2,313	2,911	0.50

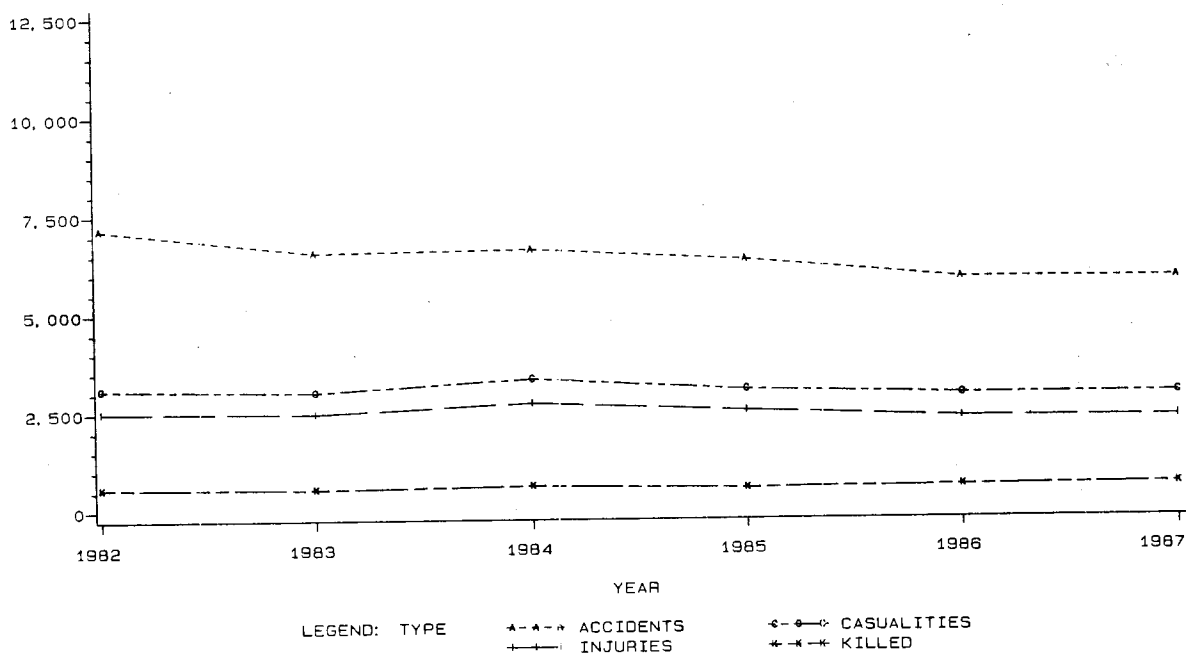


FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, LAST SIX YEARS

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
1982	6,882	164,660	41.80
1983	6,272	168,822	37.15
1984	6,370	171,324	37.18
1985	6,093	176,468	34.53
1986	5,620	180,747	31.09
1987	5,627	185,386	30.35

1Figures supplied by the Federal Highway Administration

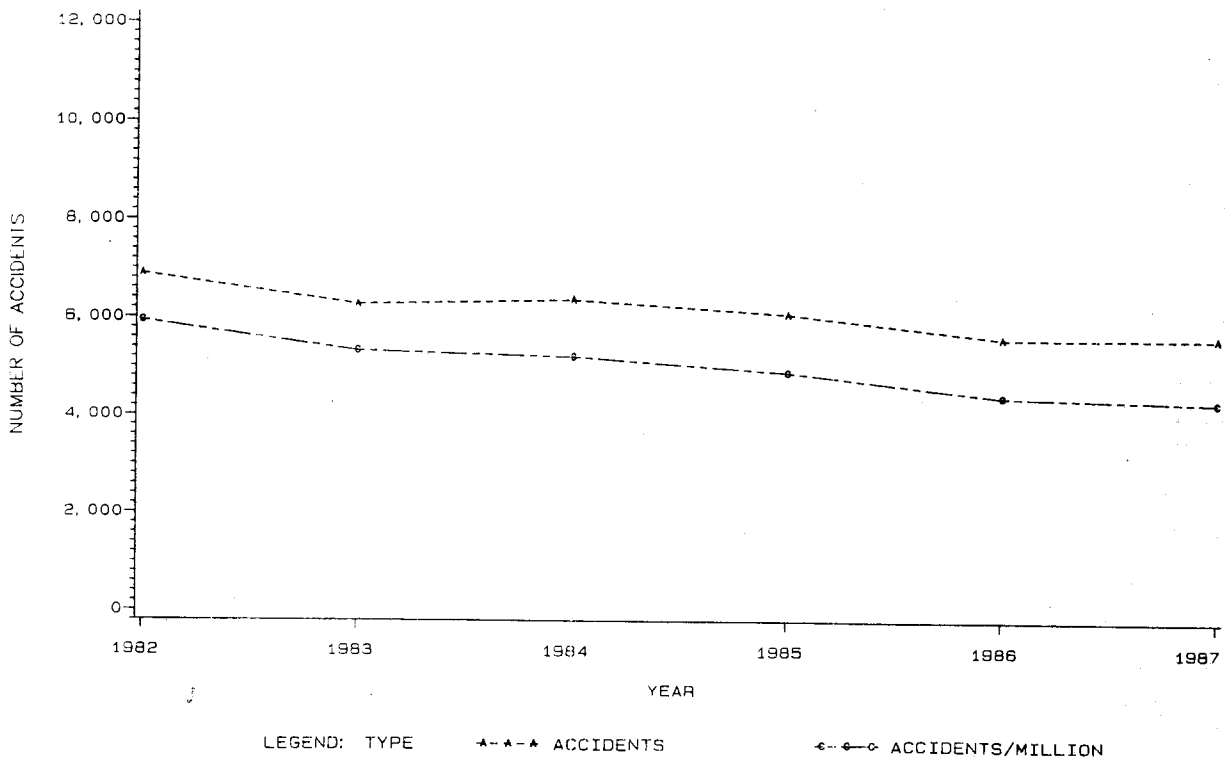


FIGURE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, LAST SIX YEARS

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS 1987

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.....	193	12	2.01	99	4.28	111	3.81
Alaska.....	6	---	---	4	.17	4	.14
Arizona.....	28	2	.33	12	.52	14	.48
Arkansas.....	158	32	5.35	45	1.95	77	2.65
California.....	238	23	3.85	68	2.94	91	3.13
Colorado.....	62	3	.50	16	.69	19	.65
Connecticut.....	20	4	.67	11	.48	15	.52
Delaware.....	15	2	.33	7	.30	9	.31
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	178	16	2.68	68	2.94	84	2.89
Georgia.....	247	15	2.51	102	4.41	117	4.02
Idaho.....	42	3	.50	12	.52	15	.52
Illinois.....	385	54	9.03	146	6.31	200	6.87
Indiana.....	380	47	7.86	156	6.74	203	6.97
Iowa.....	150	14	2.34	46	1.99	60	2.06
Kansas.....	134	26	4.35	53	2.29	79	2.71
Kentucky.....	114	10	1.67	50	2.16	60	2.06
Louisiana.....	233	13	2.17	89	3.85	102	3.50
Maine.....	21	2	.33	2	.09	4	.14
Maryland.....	29	3	.50	7	.30	10	.34
Massachusetts.....	14	1	.17	4	.17	5	.17
Michigan.....	245	20	3.34	93	4.02	113	3.88
Minnesota.....	127	5	.84	56	2.42	61	2.10
Mississippi.....	149	9	1.51	82	3.55	91	3.13
Missouri.....	172	12	2.01	66	2.85	78	2.68
Montana.....	19	5	.84	10	.43	15	.52
Nebraska.....	96	16	2.68	38	1.64	54	1.86
Nevada.....	2	---	---	1	.04	1	.03
New Hampshire.....	6	1	.17	1	.04	2	.07
New Jersey.....	56	1	.17	22	.95	23	.79
New Mexico.....	19	4	.67	7	.30	11	.38
New York.....	57	14	2.34	13	.56	27	.93
North Carolina...	220	21	3.51	94	4.06	115	3.95
North Dakota.....	25	1	.17	11	.48	12	.41
Ohio.....	375	67	11.20	135	5.84	202	6.94
Oklahoma.....	148	10	1.67	75	3.24	85	2.92
Oregon.....	36	2	.33	13	.56	15	.52
Pennsylvania.....	123	13	2.17	33	1.43	46	1.58
Rhode Island.....	1	---	---	---	---	---	---
South Carolina...	119	9	1.51	48	2.08	57	1.96
South Dakota.....	21	---	---	18	.78	18	.62
Tennessee.....	136	12	2.01	64	2.77	76	2.61
Texas.....	584	55	9.20	254	10.98	309	10.61
Utah.....	29	9	1.51	15	.65	24	.82
Vermont.....	12	1	.17	5	.22	6	.21
Virginia.....	113	5	.84	42	1.82	47	1.61
Washington.....	98	10	1.67	32	1.38	42	1.44
West Virginia....	62	1	.17	23	.99	24	.82
Wisconsin.....	155	13	2.17	64	2.77	77	2.65
Wyoming.....	7	---	---	1	.04	1	.03
Unknown.....	---	---	---	---	---	---	---
Total.....	5,859	598	100.00	2,313	100.00	2,911	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.....	189	11	95	106	3,526,000	.54	.03	.27
Alaska.....	6	---	4	4	381,000	.16	---	.10
Arizona.....	27	2	11	13	2,520,000	.11	.01	.04
Arkansas.....	154	32	45	77	1,479,000	1.04	.22	.30
California.....	228	16	68	84	21,292,000	.11	.01	.03
Colorado.....	59	3	14	17	2,876,000	.21	.01	.05
Connecticut.....	19	4	10	14	2,715,000	.07	.01	.04
Delaware.....	15	2	7	9	501,000	.30	.04	.14
Dist. of Columbia	---	---	---	---	298,000	---	---	---
Florida.....	168	13	67	80	11,170,000	.15	.01	.06
Georgia.....	240	14	98	112	5,231,000	.46	.03	.19
Idaho.....	40	3	12	15	905,000	.44	.03	.13
Illinois.....	352	38	136	174	7,623,000	.46	.05	.18
Indiana.....	364	43	153	196	4,442,000	.82	.10	.34
Iowa.....	145	13	46	59	2,850,000	.51	.05	.16
Kansas.....	125	25	50	75	2,289,000	.55	.11	.22
Kentucky.....	111	10	49	59	2,788,000	.40	.04	.18
Louisiana.....	226	11	82	93	2,879,000	.78	.04	.28
Maine.....	21	2	2	4	959,000	.22	.02	.02
Maryland.....	29	3	7	10	3,535,000	.08	.01	.02
Massachusetts....	13	---	4	4	4,041,000	.03	---	.01
Michigan.....	235	19	86	105	7,186,000	.33	.03	.12
Minnesota.....	119	4	54	58	3,239,000	.37	.01	.17
Mississippi.....	146	9	80	89	1,821,000	.80	.05	.44
Missouri.....	168	10	65	75	3,864,000	.43	.03	.17
Montana.....	18	5	9	14	719,000	.25	.07	.13
Nebraska.....	92	15	37	52	1,333,000	.69	.11	.28
Nevada.....	2	---	1	1	831,000	.02	---	.01
New Hampshire.....	6	1	1	2	1,231,000	.05	.01	.01
New Jersey.....	53	1	19	20	5,491,000	.10	---	.03
New Mexico.....	19	4	7	11	1,454,000	.13	.03	.05
New York.....	51	10	13	23	10,232,000	.05	.01	.01
North Carolina...	212	19	92	111	4,995,000	.42	.04	.18
North Dakota.....	22	---	11	11	667,000	.33	---	.16
Ohio.....	358	62	131	193	8,507,000	.42	.07	.15
Oklahoma.....	146	10	75	85	3,001,000	.49	.03	.25
Oregon.....	36	2	13	15	2,418,000	.15	.01	.05
Pennsylvania.....	119	12	33	45	7,920,000	.15	.02	.04
Rhode Island.....	1	---	---	---	677,000	.01	---	---
South Carolina...	117	8	48	56	2,401,000	.49	.03	.20
South Dakota.....	20	---	18	18	712,000	.28	---	.25
Tennessee.....	135	12	63	75	4,279,000	.32	.03	.15
Texas.....	569	49	248	297	12,661,000	.45	.04	.20
Utah.....	28	9	15	24	1,171,000	.24	.08	.13
Vermont.....	12	1	5	6	459,000	.26	.02	.11
Virginia.....	109	5	39	44	4,794,000	.23	.01	.08
Washington.....	91	10	31	41	4,050,000	.22	.02	.08
West Virginia....	59	1	23	24	1,227,000	.48	.01	.19
Wisconsin.....	146	10	61	71	3,306,000	.44	.03	.18
Wyoming.....	7	---	1	1	440,000	.16	---	.02
Unknown.....	---	---	---	---	---	---	---	---
Total.....	5,627	533	2,239	2,772	185,386,000	.30	.03	.12

Note: Preliminary vehicle registration figures for 1987 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

TYPE OF MOTOR VEHICLE

State	---Automobile---			---Truck---			---Truck Trailer---			---Bus---			---School Bus---			---Motorcycle---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	136	6	74	33	3	13	18	2	7	1	---	---	---	---	---	---	---	---
Alaska.....	3	---	2	1	---	1	1	---	1	1	---	---	---	---	---	---	---	---
Arizona.....	17	2	10	9	---	1	1	---	---	---	---	---	---	---	---	---	---	---
Arkansas.....	94	18	25	44	14	15	15	---	4	---	---	---	---	---	---	---	---	---
California.....	165	13	47	45	3	11	13	---	1	---	---	---	---	---	---	---	---	---
Colorado.....	31	2	8	18	1	4	10	---	2	---	---	---	---	---	---	---	---	---
Connecticut.....	12	3	7	6	1	2	1	---	1	---	---	---	---	---	---	---	---	---
Delaware.....	10	---	3	3	2	---	2	---	4	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	114	11	40	34	1	11	15	1	13	2	---	---	---	---	---	---	---	---
Georgia.....	157	8	71	57	4	17	30	2	10	---	---	---	---	---	---	---	---	---
Idaho.....	3	2	10	6	1	2	2	---	2	2	---	---	---	---	---	---	---	---
Illinois.....	279	32	97	57	5	26	12	1	4	---	---	---	---	---	---	---	---	---
Indiana.....	266	29	121	85	12	28	12	2	2	---	---	---	---	---	---	---	---	---
Iowa.....	102	8	34	30	2	7	9	1	3	---	---	---	---	---	---	---	---	---
Kansas.....	63	13	25	48	12	18	14	---	7	---	---	---	---	---	---	---	---	---
Kentucky.....	79	7	30	31	3	17	1	---	2	---	---	---	---	---	---	---	---	---
Louisiana.....	139	6	57	71	3	19	15	2	5	---	---	---	---	---	---	---	---	---
Maine.....	8	2	1	8	---	---	5	---	1	---	---	---	---	---	---	---	---	---
Maryland.....	21	2	5	6	1	2	2	---	---	---	---	---	---	---	---	---	---	---
Massachusetts.....	12	---	4	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	177	16	72	48	2	12	9	1	---	---	---	---	---	---	---	---	---	---
Minnesota.....	84	3	43	23	---	7	10	---	3	---	---	---	---	---	---	---	---	---
Mississippi.....	92	8	41	34	---	19	20	1	20	---	---	---	---	---	---	---	---	---
Missouri.....	106	7	41	49	3	22	13	---	2	---	---	---	---	---	---	---	---	---
Montana.....	9	---	8	7	5	1	2	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	56	11	16	24	4	17	12	---	4	---	---	---	---	---	---	---	---	---
Nevada.....	1	---	---	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	4	1	---	1	---	1	1	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	43	1	14	5	---	1	4	---	4	1	---	---	---	---	---	---	---	---
New Mexico.....	10	1	3	8	2	4	1	1	---	---	---	---	---	---	---	---	---	---
New York.....	42	10	11	7	---	2	2	---	---	---	---	---	---	---	---	---	---	---
North Carolina.....	143	13	56	45	3	20	22	3	5	---	---	---	---	---	---	---	---	---
North Dakota.....	14	---	9	7	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	273	54	104	51	6	16	31	---	9	---	---	---	---	---	---	---	---	---
Oklahoma.....	76	5	28	62	4	42	7	1	4	---	---	---	---	---	---	---	---	---
Oregon.....	16	---	10	13	1	2	5	---	---	---	---	---	---	---	---	---	---	---
Pennsylvania.....	83	7	25	20	5	8	13	---	---	---	---	---	---	---	---	---	---	---
Rhode Island.....	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	92	8	30	16	---	16	9	---	2	---	---	---	---	---	---	---	---	---
South Dakota.....	12	---	9	6	---	5	2	---	4	---	---	---	---	---	---	---	---	---
Tennessee.....	102	12	50	25	---	13	8	---	---	---	---	---	---	---	---	---	---	---
Texas.....	352	31	139	164	17	71	50	---	18	1	---	---	---	---	---	---	---	---
Utah.....	16	9	13	6	---	2	6	---	1	---	---	---	---	---	---	---	---	---
Vermont.....	7	1	3	3	---	1	2	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	79	4	29	25	1	10	5	---	3	---	---	---	---	---	---	---	---	---
Washington.....	55	3	22	23	6	6	11	---	---	---	---	---	---	---	---	---	---	---
West Virginia.....	41	---	17	16	1	6	2	---	---	---	---	---	---	---	---	---	---	---
Wisconsin.....	108	9	48	26	1	10	11	---	3	1	---	---	---	---	---	---	---	---
Wyoming.....	2	---	---	4	---	1	1	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,830	378	1,512	1,312	129	512	438	18	148	11	---	---	---	---	---	---	---	---

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

State	---Freight---			---Passenger---			-Yard Switching			---Other---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	159	8	85	2	3	---	16	---	8	12	---	2
Alaska.....	2	---	---	---	---	---	---	---	---	4	---	4
Arizona.....	12	2	7	1	---	2	7	---	1	7	---	1
Arkansas.....	129	32	39	2	---	---	13	---	6	10	---	---
California.....	147	11	52	18	5	3	41	---	7	22	---	6
Colorado.....	43	3	10	3	---	---	5	---	2	8	---	2
Connecticut.....	6	1	4	12	3	6	---	---	---	1	---	---
Delaware.....	14	2	7	---	---	---	---	---	---	1	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	137	7	51	10	6	8	2	---	---	19	---	8
Georgia.....	215	14	85	2	---	2	6	---	---	17	---	11
Idaho.....	35	3	11	1	---	---	1	---	---	3	---	1
Illinois.....	221	30	101	55	8	17	35	---	7	41	---	11
Indiana.....	312	33	144	20	10	2	9	---	---	23	---	7
Iowa.....	96	8	28	---	---	---	29	4	7	20	1	11
Kansas.....	106	24	41	1	1	2	7	---	1	11	---	6
Kentucky.....	102	10	49	---	---	---	4	---	---	5	---	---
Louisiana.....	159	10	62	4	---	---	33	1	9	30	---	11
Maine.....	16	2	2	---	---	---	3	---	---	2	---	---
Maryland.....	24	2	6	---	---	---	2	---	---	3	1	1
Massachusetts....	3	---	1	6	---	2	2	---	1	2	---	---
Michigan.....	154	17	72	11	2	1	46	---	5	24	---	8
Minnesota.....	93	4	43	1	---	1	12	---	4	13	---	6
Mississippi.....	118	6	70	7	3	---	9	---	2	12	---	8
Missouri.....	126	9	50	3	1	---	20	---	6	19	---	9
Montana.....	16	5	9	---	---	---	1	---	---	1	---	---
Nebraska.....	81	14	35	2	---	1	2	---	1	7	1	---
Nevada.....	1	---	1	1	---	---	---	---	---	---	---	---
New Hampshire.....	5	1	1	---	---	---	---	---	---	1	---	---
New Jersey.....	30	---	8	13	---	7	2	---	---	8	1	4
New Mexico.....	17	4	6	1	---	1	---	---	---	1	---	---
New York.....	30	8	12	13	2	---	5	---	1	3	---	---
North Carolina...	176	17	83	9	1	---	7	---	1	20	1	8
North Dakota.....	17	---	11	---	---	---	1	---	---	4	---	---
Ohio.....	307	58	116	6	2	---	13	---	2	32	2	13
Oklahoma.....	122	10	58	---	---	---	13	---	10	11	---	7
Oregon.....	24	2	10	2	---	---	6	---	1	4	---	2
Pennsylvania.....	96	8	25	7	2	3	2	---	---	14	2	5
Rhode Island.....	1	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	103	6	41	4	2	---	1	---	---	9	---	7
South Dakota.....	16	---	16	---	---	---	1	---	1	3	---	1
Tennessee.....	106	12	44	---	---	---	19	---	11	10	---	8
Texas.....	434	47	211	4	1	---	69	1	19	62	---	18
Utah.....	25	9	13	1	---	1	2	---	1	---	---	---
Vermont.....	6	1	4	4	---	---	1	---	1	1	---	---
Virginia.....	87	5	31	2	---	---	12	---	5	8	---	3
Washington.....	62	10	24	2	---	1	16	---	4	11	---	2
West Virginia....	50	1	22	---	---	---	4	---	1	5	---	---
Wisconsin.....	109	10	52	1	---	---	16	---	2	20	---	7
Wyoming.....	6	---	1	---	---	---	---	---	---	1	---	---
Total.....	4,356	466	1,854	231	52	60	495	6	127	545	9	198

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. Wags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Aberdeen And Rockfish Railroad Company.....	---	---	---	---	3	---	---	---	3
Alaska Railroad Corporation.....	---	1	---	---	5	---	---	---	6
Amtrak(National Railroad Passenger Corp.).....	44	25	5	---	58	2	1	---	135
Arkansas And Missouri Railroad Company.....	---	3	1	---	3	---	---	---	7
Ashley, Drew & Northern Railroad Company.....	---	---	1	---	2	---	---	---	3
Atchison, Topeka And Santa Fe Railway Co.....	74	80	10	---	119	---	---	1	284
Bangor And Aroostook Railroad.....	---	3	---	---	3	---	1	---	7
Belt Railway Company Of Chicago.....	2	1	---	---	1	---	---	---	4
Bessemer & Lake Erie Railroad Company.....	---	2	---	1	---	---	---	---	3
Boston And Maine Corporation.....	2	1	---	1	---	---	---	9	56
Burlington Northern Railroad Company.....	79	141	8	8	313	7	---	---	6
Cedar Rapids And Iowa City Railway Company.....	---	3	---	---	3	---	---	---	7
Cedar Valley Railroad.....	---	---	---	---	7	---	---	---	7
Central Michigan Railway Company.....	---	1	---	1	1	---	---	---	3
Central Vermont Railway, Inc.....	1	4	---	---	3	---	---	---	8
Chicago & Illinois Midland Railway Company.....	1	2	---	---	2	---	---	---	5
Chicago & North Western Transportation Co.....	39	53	8	3	77	1	1	1	183
Chicago Missouri & Western Railway.....	1	7	---	---	4	---	---	---	12
Chicago South Shore And South Bend RR.....	1	1	2	---	---	---	---	---	4
Chicago, Central & Pacific Railroad Co.....	4	21	---	1	10	---	---	---	36
Clarendon And Pittsford Railroad Company.....	---	1	---	---	3	---	---	---	3
Columbus And Greenville Railway Company.....	---	1	---	2	3	---	---	---	6
Consolidated Rail Corporation.....	133	176	11	10	179	2	2	3	516
CSX Transportation.....	141	250	60	20	420	6	1	7	905
Dakota, Minnesota & Eastern Railroad.....	1	9	---	---	16	---	---	---	26
Delaware And Hudson Railroad Company.....	3	---	---	---	12	---	---	---	5
Denver And Rio Grande Western Railroad Co.....	2	4	---	---	2	---	---	---	18
Des Moines Union Railway Company.....	---	3	---	---	2	---	---	---	5
Detroit And Mackinac Railway Company.....	---	1	---	---	3	---	---	---	4
Elgin, Joliet And Eastern Railway Company.....	2	3	---	---	2	---	---	---	7
Escanaba And Lake Superior Railroad Co.....	---	2	---	1	3	---	---	---	5
Florida East Coast Railway Company.....	45	21	---	2	2	2	---	2	49
Grand Trunk Western Railroad Company.....	25	27	2	2	26	---	---	---	86
Green Bay And Western Railroad Company.....	---	2	---	---	2	---	---	---	6
Gulf And Mississippi Railroad Corporation.....	---	4	1	3	14	---	---	---	22
Hillsdale County Railway Company, Incorp.....	---	4	---	---	3	---	---	---	7
Houston Belt & Terminal Railway Company.....	1	3	---	---	3	---	---	---	7
Huntsville Madison County RR Authority.....	---	1	---	---	2	---	---	---	3
Illinois Central Gulf Railroad Company.....	15	43	4	1	69	1	---	1	132
Indiana & Ohio Central Railroad, Inc.....	---	3	---	---	3	---	---	---	6
Indiana Harbor Belt Railroad Company.....	15	4	1	---	2	---	---	---	22
Indiana Hi-Rail Corporation.....	---	1	---	---	1	---	---	---	3
Indiana Rail Road Company.....	2	4	---	---	3	---	---	---	9
Iowa Interstate Railroad.....	---	2	---	---	3	---	---	---	5
Iowa Northern Railway Company.....	2	3	---	---	2	---	---	---	7
Kansas City Southern Railway Company.....	---	23	2	2	28	---	---	---	57
Lake Superior & Ishpeming Railroad Company.....	---	3	---	---	---	---	---	---	3
Long Island Rail Road.....	10	---	---	---	---	---	---	---	10
Los Angeles Junction Railway Company.....	---	4	1	---	---	---	---	---	5
Louisiana & Arkansas Railway Company.....	---	20	1	---	16	---	---	---	37
Louisiana & Delta Railroad.....	---	---	1	---	2	---	---	---	3
Maine Central Railroad Company.....	---	3	---	---	2	---	---	---	5
Metro North Commuter Railroad Company.....	2	8	1	---	1	---	---	---	12
Mid South Rail Corporation.....	---	13	---	---	27	---	---	1	41
Mid-Atlantic Railroad Company, Incorp.....	---	---	---	---	4	---	---	---	4
Missouri-Kansas-Texas Railroad Company.....	11	21	1	---	44	---	---	---	77
Monongahela Railway Company.....	---	1	---	---	1	1	---	---	3
Montana Rail Link.....	---	1	1	---	2	---	---	---	4
New Jersey Transit Rail Operations.....	10	5	---	---	---	---	---	---	15
New York, Susquehanna And Western RR.....	3	4	---	---	---	---	---	---	7
Norfolk And Western Railway Company.....	66	126	5	7	176	1	3	4	388
Northeast Illinois Regional Commuter Rail.....	18	6	1	---	6	---	---	---	25
Oklahoma Kansas & Texas Railroad Company.....	2	6	---	1	3	---	---	---	15
Paducah & Louisville Railway Company.....	---	7	1	---	6	---	---	---	11
Pittsburgh & Lake Erie Railroad Company.....	1	---	---	---	2	---	---	---	3
Port Terminal Railroad Association.....	1	1	---	---	4	1	---	---	7
Providence And Worcester Railroad Company.....	---	1	---	---	1	---	---	---	3
Richmond, Fredericksburg & Potomac RR Co.....	1	1	---	---	71	---	1	---	138
Soo Line Railroad Company.....	14	49	1	---	---	---	---	---	5
Southeastern Pennsylvania Transportation.....	1	4	---	---	---	5	---	---	3
Southern Pacific Transportation Company.....	97	66	22	17	94	---	---	---	301
Southern Railway Companies.....	55	134	1	12	265	1	1	18	487
Spokane International Railroad Company.....	---	5	---	---	5	---	---	---	5
Springfield Terminal Railway Company.....	2	8	---	2	4	---	---	---	16
St. Louis Southwestern Railway Company.....	11	19	1	---	45	1	---	---	77
Terminal RR Association Of St. Louis.....	5	1	1	---	5	---	---	---	12
Texas Mexican Railway Company.....	---	3	---	---	4	---	---	---	7
Texas, Oklahoma And Eastern Railroad Co.....	---	2	---	---	1	---	---	---	3
Union Belt Of Detroit.....	---	1	---	---	2	---	---	---	3
Union Pacific Railroad Company.....	85	191	8	3	300	3	5	8	603
Washington Central Railroad Company.....	1	---	---	1	3	---	---	---	5
Winchester And Western Railroad Company.....	---	3	---	---	---	---	---	---	3
Wisconsin And Southern Railway Company.....	---	---	1	---	5	---	---	---	6
Wisconsin Calumet Railroad.....	---	2	1	---	4	---	1	---	8
Wisconsin Central Ltd.....	---	10	---	2	7	---	---	---	19
All Other Railroads.....	3	22	9	3	44	2	---	1	84
Total.....	1,032	1,663	174	110	2,569	36	17	56	5,657

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

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

TABLE 7A. ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD

Railroad	-----Motor Vehicle-----			----Other Highway Users----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Aberdeen And Rockfish Railroad Company....	3	---	3	---	---	---	3	---	3
Alaska Railroad Corporation.....	6	---	4	---	---	---	6	---	4
Amtrak(National Railroad Passenger Corp.)..	135	33	24	7	5	1	142	38	25
Arkansas And Missouri Railroad Company....	7	---	---	---	---	---	7	---	---
Ashley, Drew & Northern Railroad Company..	3	---	1	---	---	---	3	---	1
Atchison, Topeka And Santa Fe Railway Co..	284	22	124	15	7	4	299	29	128
Bangor And Aroostook Railroad.....	7	---	1	---	---	---	7	---	1
Belt Railway Company Of Chicago.....	3	---	2	---	---	---	3	---	2
Bessemer & Lake Erie Railroad Company.....	3	---	---	---	---	---	3	---	---
Boston And Maine Corporation.....	4	1	---	1	---	1	5	1	1
Burlington Northern Railroad Company.....	565	53	221	21	5	6	586	58	227
Cedar Rapids And Iowa City Railway Company	6	---	---	---	---	---	6	---	---
Cedar Valley Railroad.....	7	1	6	---	---	---	7	1	6
Central Michigan Railway Company.....	3	---	1	---	---	---	3	---	1
Central Vermont Railway, Inc.....	8	---	1	---	---	---	8	---	1
Chicago & Illinois Midland Railway Company	5	---	4	---	---	---	5	---	4
Chicago & North Western Transportation Co..	183	15	71	8	5	1	191	20	72
Chicago Missouri & Western Railway.....	12	1	3	---	---	---	12	1	3
Chicago South Shore And South Bend RR.....	4	---	---	---	---	---	4	---	---
Chicago, Central & Pacific Railroad Co....	36	2	6	1	---	---	37	2	6
Clarendon And Pittsford Railroad Company..	3	---	---	---	---	---	3	---	---
Columbus And Greenville Railway Company...	6	---	---	---	---	---	6	---	---
Consolidated Rail Corporation.....	516	69	151	20	5	6	536	74	157
CSX Transportation.....	905	64	372	28	5	11	933	69	383
Dakota, Minnesota & Eastern Railroad.....	26	---	15	2	---	1	28	---	16
Delaware And Hudson Railroad Company.....	5	---	2	1	---	---	6	---	2
Denver And Rio Grande Western Railroad Co..	18	2	6	---	---	---	18	2	6
Des Moines Union Railway Company.....	5	1	1	---	---	---	5	1	1
Detroit And Mackinac Railway Company.....	4	---	1	1	---	1	5	---	2
Elgin, Joliet And Eastern Railway Company..	7	3	3	---	---	---	7	3	3
Escanaba And Lake Superior Railroad Co....	5	---	4	---	---	---	5	---	4
Florida East Coast Railway Company.....	49	6	17	4	2	1	55	8	18
Grand Trunk Western Railroad Company.....	86	12	33	2	---	---	88	12	35
Green Bay And Western Railroad Company....	6	---	2	---	---	---	6	---	2
Gulf And Mississippi Railroad Corporation..	22	---	11	---	---	---	22	---	11
Hillsdale County Railway Company, Incorp...	3	---	3	---	---	---	3	---	3
Houston Belt & Terminal Railway Company...	7	---	1	---	---	---	7	---	1
Huntsville Madison County RR Authority....	3	---	---	---	---	---	3	---	---
Illinois Central Gulf Railroad Company.....	132	7	92	4	---	6	136	7	98
Indiana & Ohio Central Railroad, Inc.....	3	---	2	---	---	---	3	---	2
Indiana Harbor Belt Railroad Company.....	22	2	4	1	---	---	23	2	6
Indiana Hi-Rail Corporation.....	3	---	---	---	---	---	3	---	---
Indiana Rail Road Company.....	3	1	4	---	---	---	3	1	4
Iowa Interstate Railroad.....	9	---	3	---	---	---	9	---	3
Iowa Northern Railway Company.....	5	---	2	---	---	---	5	---	2
Kansas City Southern Railway Company.....	57	1	13	---	---	---	57	1	13
Lake Superior & Ishpeming Railroad Company	3	---	---	---	---	---	3	---	---
Long Island Rail Road.....	10	1	---	4	4	---	14	5	---
Los Angeles Junction Railway Company.....	5	---	1	---	---	---	5	---	1
Louisiana & Arkansas Railway Company.....	37	2	8	1	---	3	38	2	11
Louisiana & Delta Railroad.....	3	---	1	---	---	---	4	---	1
Maine Central Railroad Company.....	5	1	---	---	---	---	5	1	---
Metro North Commuter Railroad Company.....	12	2	6	---	---	---	12	2	6
Mid South Rail Corporation.....	41	---	24	1	---	---	42	---	24
Mid-Atlantic Railroad Company, Incorp....	4	---	2	---	---	---	4	---	2
Missouri-Kansas-Texas Railroad Company....	77	5	36	---	---	---	77	5	36
Montanahela Railway Company.....	3	---	2	---	---	---	3	---	2
Montana Rail Link.....	4	---	---	---	---	---	4	---	---
New Jersey Transit Rail Operations.....	15	---	9	2	---	2	17	---	11
New York, Susquehanna And Western RR.....	7	---	4	1	---	---	8	---	4
Norfolk And Western Railway Company.....	388	36	167	26	5	9	414	41	176
Northeast Illinois Regional Commuter Rail..	25	2	11	2	3	---	27	5	11
Oklahoma Kansas & Texas Railroad Company..	15	2	6	1	---	---	16	2	8
Paducah & Louisville Railway Company.....	11	1	6	---	---	---	11	1	6
Pittsburgh & Lake Erie Railroad Company...	3	---	---	---	---	---	3	---	---
Port Terminal Railroad Association.....	7	---	3	---	---	---	7	---	3
Providence And Worcester Railroad Company..	3	1	2	---	---	---	3	1	2
Richmond, Fredericksburg & Potomac RR Co..	3	---	1	---	---	---	3	---	1
Soo Line Railroad Company.....	138	15	71	18	5	3	156	20	74
Southeastern Pennsylvania Transportation...	5	2	3	---	---	---	5	2	3
Southern Pacific Transportation Company...	301	25	105	9	4	2	310	29	107
Southern Railway Companies.....	487	34	226	14	2	6	501	36	232
Spokane International Railroad Company....	5	---	3	---	---	---	5	---	3
Springfield Terminal Railway Company.....	16	2	3	1	---	---	16	2	3
St. Louis Southwestern Railway Company....	77	16	15	3	1	---	80	17	15
Terminal RR Association Of St. Louis.....	12	---	3	1	---	---	13	---	3
Texas Mexican Railway Company.....	7	---	3	---	---	---	7	---	3
Texas, Oklahoma And Eastern Railroad Co...	3	---	1	---	---	---	3	---	1
Union Belt Of Detroit.....	3	---	---	---	---	---	3	---	---
Union Pacific Railroad Company.....	603	86	253	24	4	1	627	90	254
Washington Central Railroad Company.....	5	---	---	1	---	---	6	---	---
Winchester And Western Railroad Company...	3	---	---	---	---	---	3	---	---
Wisconsin And Southern Railway Company....	6	---	2	---	---	---	6	---	2
Wisconsin Calumet Railroad.....	8	---	1	---	---	---	8	---	1
Wisconsin Central Ltd.....	19	---	4	1	1	---	20	---	4
All Other Railroads.....	84	3	35	5	2	5	89	5	40
Total.....	5,657	533	2,239	233	65	74	5,890	598	2,313

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.....	12	55	9	5	105	2	---	1	189
Alaska.....	---	1	---	---	5	---	---	---	6
Arizona.....	5	15	2	1	4	---	---	---	27
Arkansas.....	12	48	5	3	84	1	---	1	154
California.....	110	48	12	5	48	3	---	2	228
Colorado.....	7	14	5	---	31	1	---	1	59
Connecticut.....	2	14	1	---	1	---	1	---	19
Delaware.....	4	10	---	---	1	---	---	---	15
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	85	41	9	2	30	---	---	1	168
Georgia.....	14	33	8	10	148	4	1	2	240
Idaho.....	1	9	---	---	28	1	1	---	40
Illinois.....	121	118	7	4	99	1	---	2	352
Indiana.....	88	130	6	2	136	1	1	---	364
Iowa.....	11	57	2	1	74	---	---	---	145
Kansas.....	19	25	1	---	79	---	1	---	125
Kentucky.....	19	65	11	---	31	---	---	5	111
Louisiana.....	12	72	10	7	118	1	1	5	226
Maine.....	1	11	1	2	5	---	1	---	21
Maryland.....	5	9	2	1	12	---	---	---	29
Massachusetts....	5	1	1	2	4	---	---	---	13
Michigan.....	42	96	5	5	82	3	---	2	235
Minnesota.....	11	30	1	1	75	1	---	---	119
Mississippi.....	4	43	3	6	88	1	---	1	146
Missouri.....	32	59	3	---	74	---	---	---	168
Montana.....	1	3	1	---	13	---	---	---	18
Nebraska.....	22	23	1	1	42	3	---	---	92
Nevada.....	---	---	---	---	1	---	---	1	2
New Hampshire.....	2	2	---	---	2	---	---	---	6
New Jersey.....	19	25	2	3	4	---	---	---	53
New Mexico.....	7	1	---	---	10	---	---	1	19
New York.....	21	3	4	3	19	---	---	1	51
North Carolina...	30	37	6	5	126	---	1	7	212
North Dakota.....	1	3	1	---	17	---	---	---	22
Ohio.....	61	102	7	3	182	---	2	1	358
Oklahoma.....	19	40	2	3	82	---	---	---	146
Oregon.....	4	2	2	1	24	3	---	---	36
Pennsylvania.....	22	38	2	3	48	3	1	2	119
Rhode Island.....	---	---	---	1	---	---	---	---	1
South Carolina...	10	32	3	5	66	1	---	---	117
South Dakota.....	---	4	---	---	16	---	---	---	20
Tennessee.....	17	39	1	4	69	---	---	5	135
Texas.....	90	188	21	8	255	3	1	3	569
Utah.....	3	5	2	---	16	1	---	1	28
Vermont.....	2	5	---	---	5	---	---	---	12
Virginia.....	21	37	4	2	42	---	---	3	109
Washington.....	11	15	2	2	53	1	1	6	91
West Virginia....	4	14	3	1	35	---	---	2	59
Wisconsin.....	15	53	6	8	61	---	3	---	146
Wyoming.....	1	3	---	---	3	---	---	---	7
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	1,025	1,658	174	110	2,553	35	16	56	5,627

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

HIGHWAY USER AND VEHICLE DATA

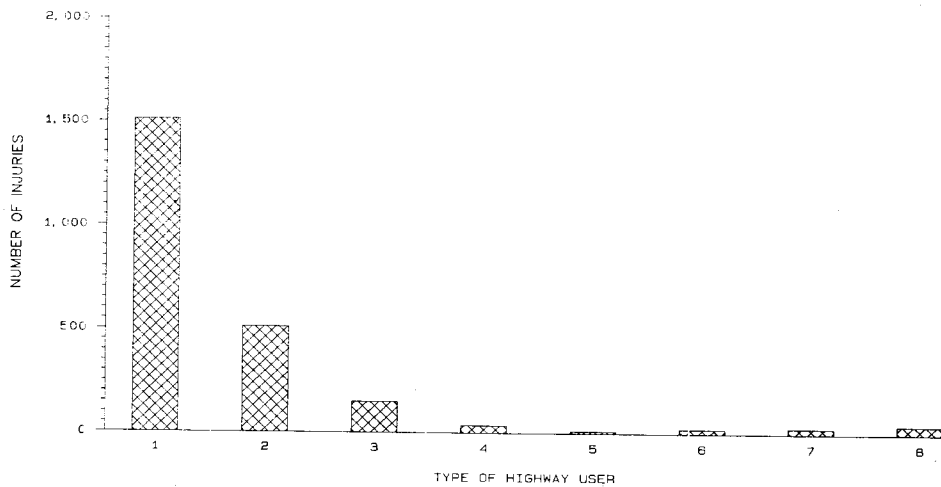
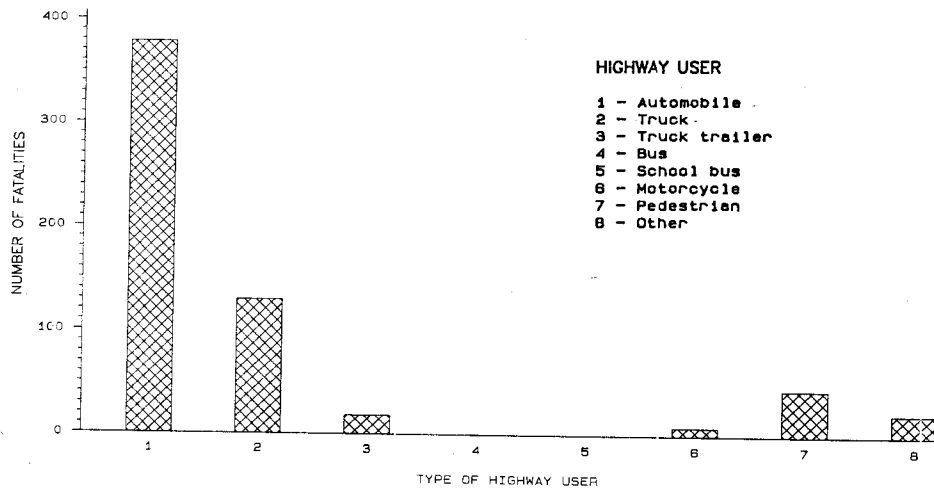
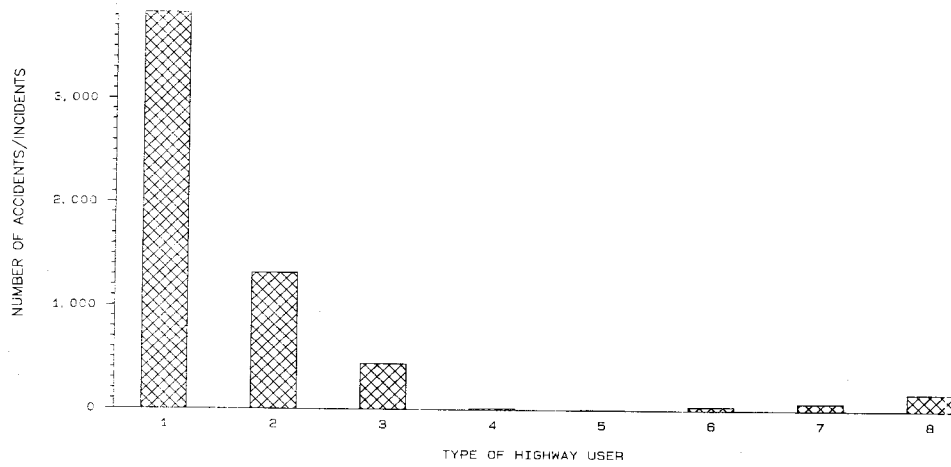


FIGURE 3. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

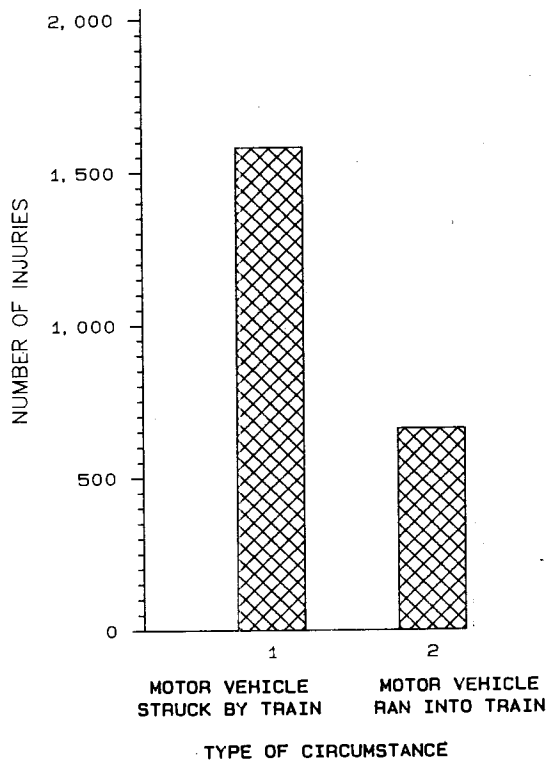
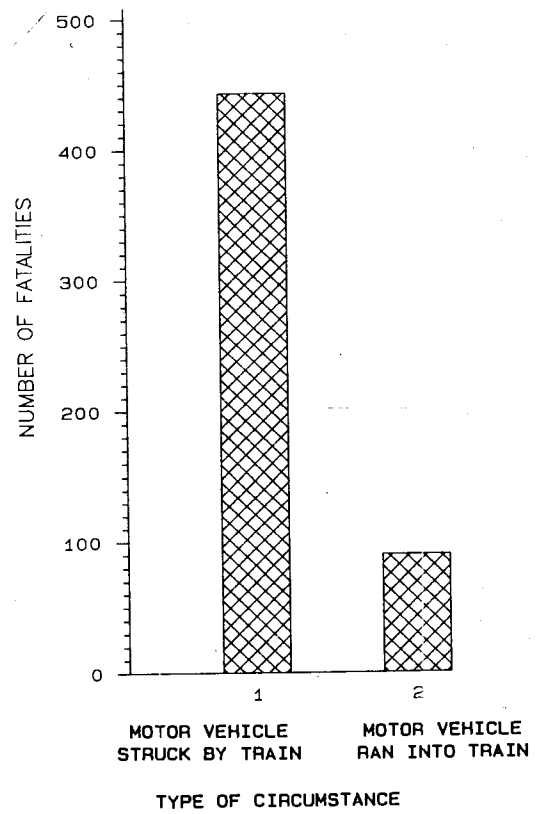
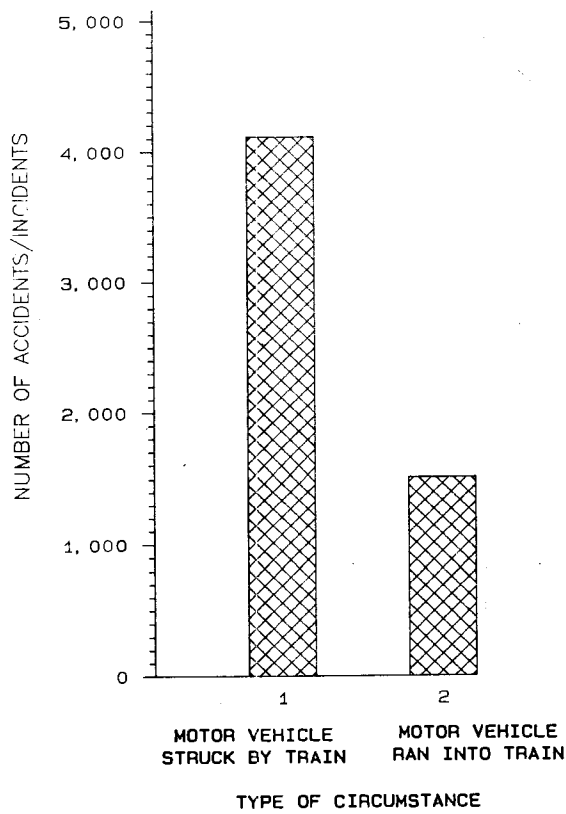


FIGURE 4. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

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

Type Of Vehicle	----Acc/Inc----		-----Killed-----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	3,830	65.37	378	63.21	1,512	65.37	296	1,058
Truck.....	1,312	22.39	129	21.57	512	22.14	102	366
Truck-trailer....	438	7.48	18	3.01	148	6.40	15	98
Bus.....	11	.19	---	---	36	1.56	---	4
School bus.....	2	.03	---	---	10	.43	---	1
Motorcycle.....	34	.58	8	1.34	21	.91	8	18
Pedestrian.....	70	1.19	44	7.36	27	1.17	42	26
Other.....	162	2.76	21	3.51	47	2.03	20	34
Total.....	5,859	100.00	598	100.00	2,313	100.00	483	1,605

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	4,113	73.09	443	83.11	1,581	70.61	343	1,061
Ran into consist.	1,514	26.91	90	16.89	658	29.39	78	484
Total.....	5,627	100.00	533	100.00	2,239	100.00	421	1,545

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

Vehicle	# of A/I	# of Occupants	Occupants Per A/I	Killed	Killed Per A/I	Injured	Injured Per A/I	Vehicle Damage	Damage Per A/I
Automobile...	3,829	4,969	1.30	376	.10	1,484	.39	6,908,606	1,804
Truck.....	1,313	1,598	1.22	129	.10	478	.36	3,933,679	2,996
Truck-trailer	438	431	.98	16	.04	83	.19	4,142,546	9,458
Bus.....	11	70	6.36	---	.00	36	3.27	73,895	6,718
School bus...	2	11	5.50	---	.00	10	5.00	2,500	1,250
Motorcycle...	34	33	.97	8	.24	20	.59	31,050	913
Total	5,627	7,112	1.26	529	.09	2,117	.38	15,092,276	2,682

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.....	74	12	31	1,378	153	544	108	20	37	1,236	134	430
Truck.....	21	5	6	589	79	230	33	5	16	270	22	112
Truck-trailer....	14	---	4	302	12	97	4	---	1	60	---	18
Bus.....	---	---	---	7	---	36	2	---	---	---	---	---
School bus.....	---	---	---	2	---	10	---	---	---	---	---	---
Motorcycle.....	---	---	---	10	1	8	---	---	---	3	---	1
Total.....	109	17	41	2,288	245	925	147	25	54	1,569	156	561
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	18	2	6	425	17	194	29	---	9	562	40	261
Truck.....	14	2	4	183	4	60	17	1	8	185	11	76
Truck-trailer....	2	---	---	36	5	20	1	---	---	19	1	8
Bus.....	---	---	---	1	---	---	---	---	---	1	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	1	---	1	8	1	5	---	---	---	12	6	6
Total.....	35	4	11	653	27	279	47	1	17	779	58	351
GRAND TOTAL												
Automobile.....	92	14	37	1,803	170	738	137	20	46	1,798	174	691
Truck.....	35	7	10	772	83	290	50	6	24	455	33	188
Truck-trailer....	16	---	4	338	17	117	5	---	1	79	1	26
Bus.....	---	---	---	8	---	36	2	---	---	1	---	---
School bus.....	---	---	---	2	---	10	---	---	---	---	---	---
Motorcycle.....	1	---	1	18	2	13	---	---	---	15	6	7
Total.....	144	21	52	2,941	272	1,204	194	26	71	2,348	214	912

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

TYPE OF PERSON

Type Of Vehicle	---EOD---		---ENOD---		---PSGR---		---NONT---		---TRES---		---CONT---		-----Total-----		
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	A/I
RAIL CONSIST STRUCK HIGHWAY USER															
Automobile.....	---	9	---	---	---	---	241	905	78	127	---	1	319	1,042	2,796
Truck.....	---	26	---	---	---	1	99	314	12	23	---	---	111	364	913
Truck-trailer....	2	53	---	---	---	3	10	62	---	2	---	---	12	120	380
Bus.....	---	---	---	---	---	---	---	36	---	---	---	---	---	36	9
School bus.....	---	---	---	---	---	---	---	10	---	---	---	---	---	10	2
Motorcycle.....	---	---	---	---	---	---	1	8	---	1	---	---	1	9	13
Pedestrian.....	---	---	---	---	---	---	16	12	27	12	---	---	43	24	65
Other.....	---	1	---	---	---	---	10	28	4	3	---	---	14	32	128
Total.....	2	89	---	---	---	4	377	1,375	121	168	---	1	500	1,637	4,306
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	7	---	---	---	---	55	423	4	40	---	---	59	470	1,034
Truck.....	---	5	---	---	---	---	16	131	2	12	---	---	18	148	399
Truck-trailer....	---	9	---	---	---	---	6	18	---	1	---	---	6	28	58
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	7	11	---	1	---	---	7	12	21
Pedestrian.....	---	---	---	---	---	---	---	3	1	---	---	---	1	3	5
Other.....	---	1	---	---	---	---	5	13	2	1	---	---	7	15	34
Total.....	---	22	---	---	---	---	89	599	9	55	---	---	98	676	1,553
GRAND TOTAL															
Automobile.....	---	16	---	---	---	---	296	1,328	82	167	---	1	378	1,512	3,830
Truck.....	---	31	---	---	---	1	115	445	14	35	---	---	129	512	1,312
Truck-trailer....	2	62	---	---	---	3	16	80	---	3	---	---	18	148	438
Bus.....	---	---	---	---	---	---	---	36	---	---	---	---	---	36	11
School bus.....	---	---	---	---	---	---	---	10	---	---	---	---	---	10	2
Motorcycle.....	---	---	---	---	---	---	8	19	---	2	---	---	8	21	34
Pedestrian.....	---	---	---	---	---	---	16	15	28	12	---	---	44	27	70
Other.....	---	2	---	---	---	---	15	41	6	4	---	---	21	47	162
Total.....	2	111	---	---	---	4	466	1,974	130	223	---	1	598	2,313	5,859

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	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	38	---	9	786	33	217	46	2	11	562	10	62	1,432	45	299
1-9.....	16	---	10	480	47	231	21	4	13	242	18	65	759	69	319
10-19.....	23	5	5	421	62	175	32	7	8	326	37	183	802	111	371
20-29.....	14	5	7	225	17	96	20	4	8	158	18	96	417	44	207
30-39.....	5	3	1	148	22	92	13	5	11	118	22	72	284	52	176
40-49.....	2	1	---	57	16	26	---	---	---	41	21	31	100	38	57
50-59.....	6	2	6	38	18	26	1	---	2	19	9	4	64	29	38
60 and over.....	---	---	---	9	9	3	---	---	---	4	4	1	13	13	9
Unknown.....	5	1	3	124	21	54	14	3	1	99	17	47	242	42	105
Total.....	109	17	41	2,288	245	925	147	25	54	1,569	156	561	4,113	443	1,581
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	9	---	2	126	---	20	8	---	---	159	2	44	302	2	66
10-19.....	5	---	4	144	1	42	10	---	3	164	4	63	323	5	112
20-29.....	8	---	1	106	1	67	6	---	4	135	3	62	255	4	134
30-39.....	3	2	---	93	6	43	5	---	3	115	13	72	216	21	118
40-49.....	2	---	1	55	4	31	5	1	2	55	6	36	117	11	70
50-59.....	2	2	---	44	6	30	2	---	2	39	11	21	87	19	53
60 and over.....	1	---	1	10	4	5	---	---	---	12	7	6	23	11	13
Unknown.....	5	---	2	75	5	40	11	---	3	100	12	47	191	17	92
Total.....	35	4	11	653	27	279	47	1	17	779	58	351	1,514	90	658
GRAND TOTAL															
Standing.....	38	---	9	786	33	217	46	2	11	562	10	62	1,432	45	299
1-9.....	25	---	12	606	47	251	29	4	13	401	20	109	1,061	71	385
10-19.....	28	5	9	565	63	217	42	7	11	490	41	246	1,125	116	483
20-29.....	22	5	8	331	18	163	26	4	12	293	21	158	672	48	341
30-39.....	8	5	1	241	28	135	18	5	14	233	35	144	500	73	294
40-49.....	4	1	1	112	20	57	5	1	2	96	27	67	217	49	127
50-59.....	8	4	6	82	24	56	3	---	4	58	20	25	151	48	91
60 and over.....	1	---	1	19	13	14	---	---	---	16	11	7	36	24	22
Unknown.....	10	1	5	199	26	94	25	3	4	199	29	94	433	59	197
Total.....	144	21	52	2,941	272	1,204	194	26	71	2,348	214	912	5,627	533	2,239

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.....	448	10	58	609	21	157	2,773	347	1,297
Truck.....	119	5	9	145	9	44	1,048	115	459
Truck-trailer....	46	---	12	58	---	13	334	18	123
Bus.....	2	---	---	2	---	5	7	---	31
School bus.....	---	---	---	---	---	---	2	---	10
Motorcycle.....	1	---	1	2	---	---	31	8	20
Total.....	616	15	80	816	30	219	4,195	488	1,940

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.....	14	---	3	455	1	56	28	---	2	326	---	67	823	1	128
10-19.....	17	---	8	419	11	161	21	---	6	294	1	113	751	12	288
20-29.....	15	---	6	458	18	227	34	2	16	320	13	151	827	33	400
30-39.....	19	1	6	382	48	199	34	10	16	263	38	114	698	97	335
40-49.....	22	5	14	341	71	189	22	10	10	224	52	83	609	138	296
50-59.....	11	2	2	144	50	63	4	1	2	84	33	25	243	86	92
60-69.....	6	6	1	62	29	17	4	2	2	40	12	8	112	49	28
70-79.....	4	3	---	21	16	11	---	---	---	16	7	---	41	26	11
80-89.....	---	---	---	1	1	2	---	---	---	1	---	---	2	1	2
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	1	---	1	5	---	---	---	---	---	1	---	---	7	---	1
Total.....	109	17	41	2,288	245	925	147	25	54	1,569	156	561	4,113	443	1,581
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	4	2	1	19	---	12	3	---	2	101	9	65	127	11	80
1-9.....	8	---	2	177	1	45	18	---	3	274	12	103	477	13	153
10-19.....	4	---	---	114	3	45	8	---	4	140	8	66	266	11	115
20-29.....	10	---	4	120	3	66	8	---	5	100	10	43	238	13	118
30-39.....	3	---	3	111	10	55	3	---	2	71	6	31	188	16	91
40-49.....	3	---	1	71	6	32	5	1	---	56	4	29	135	11	62
50-59.....	2	---	---	27	2	15	2	---	1	28	7	10	59	9	26
60-69.....	1	2	---	9	---	8	---	---	---	4	---	4	14	2	12
70-79.....	---	---	---	2	2	---	---	---	---	3	2	---	5	4	---
80-89.....	---	---	---	1	---	1	---	---	---	---	---	---	1	---	1
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	2	---	---	---	---	---	2	---	---	4	---	---
Total.....	35	4	11	653	27	279	47	1	17	779	58	351	1,514	90	658
GRAND TOTAL															
Standing.....	4	2	1	19	---	12	3	---	2	101	9	65	127	11	80
1-9.....	22	---	5	632	2	101	46	---	5	600	12	170	1,300	14	281
10-19.....	21	---	8	533	14	206	29	---	10	434	9	179	1,017	23	403
20-29.....	25	---	10	578	21	293	42	2	21	420	23	194	1,065	46	518
30-39.....	22	1	9	493	58	254	37	10	18	334	44	145	886	113	426
40-49.....	25	5	15	412	77	221	27	11	10	280	56	112	744	149	358
50-59.....	13	2	2	171	52	78	6	1	3	112	40	35	302	95	118
60-69.....	7	8	1	71	29	25	4	2	2	44	12	12	126	51	40
70-79.....	4	3	---	23	18	11	---	---	---	19	9	---	46	30	11
80-89.....	---	---	---	2	1	3	---	---	---	1	---	---	3	1	3
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	1	---	1	7	---	---	---	---	---	3	---	---	11	---	1
Total.....	144	21	52	2,941	272	1,204	194	26	71	2,348	214	912	5,627	533	2,239

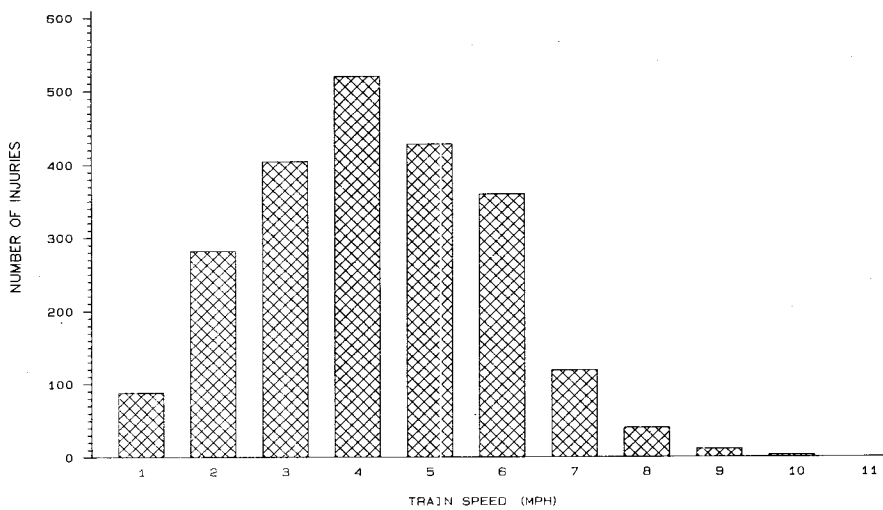
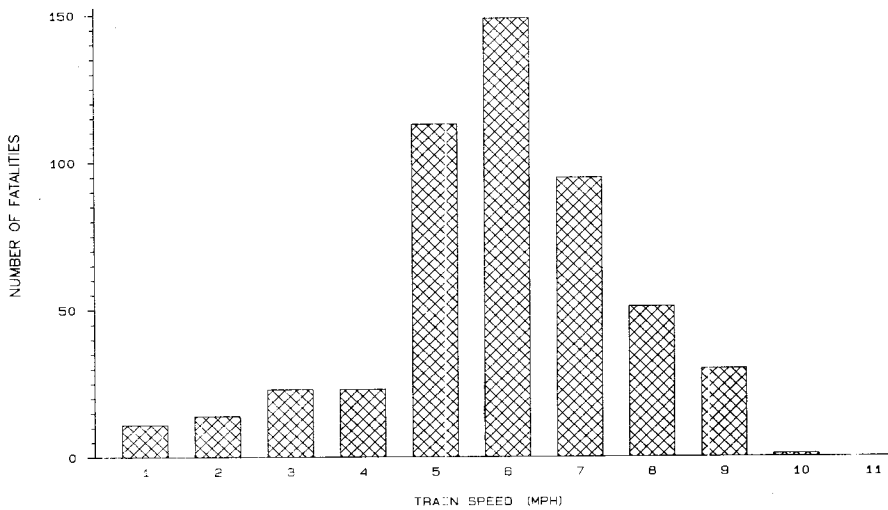
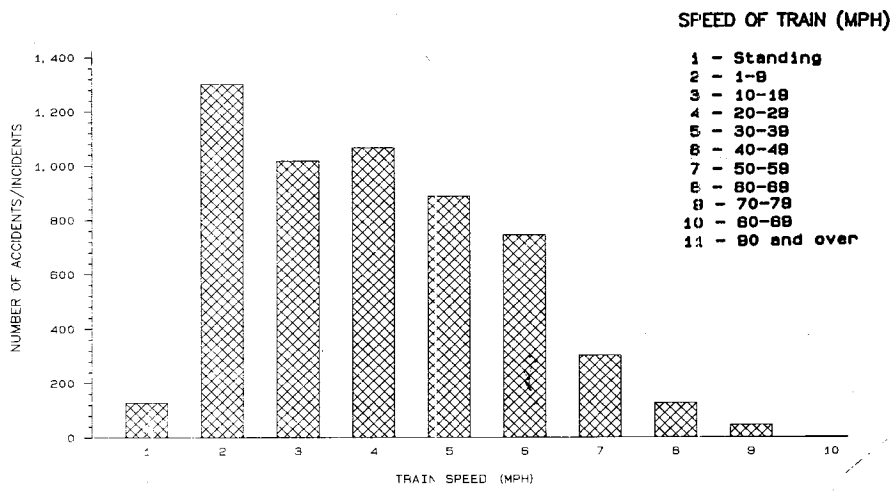


FIGURE 5. ACCIDENTS/ INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

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			
				1	2	3	4	Unknown	Dawn	Day	Dusk	Dark
Train (Units Pulling)	3,541	1,111	750	158	76	41	66	20	119	2,469	169	1,895
Train (Units Pushing)	226	148	82	11	11	13	28	3	7	161	9	197
Train (Standing)	---	116	20	31	18	24	22	1	3	12	2	99
Cars (Moving)	89	34	30	---	---	---	2	2	1	108	---	14
Cars (Standing)	---	4	4	---	---	---	---	---	1	3	---	---
Light Locos (Moving)	256	94	88	---	---	2	4	---	13	183	13	141
Light Locos (Standing)	---	7	6	---	---	---	1	---	---	4	1	2
Other	1	---	---	---	---	---	---	---	---	1	---	---
Total	4,113	1,514	980	200	105	80	123	26	144	2,941	194	2,348

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	88	10	54	1	---	---	28	1	19	10	---	7	127	11	80
1-9	693	9	153	13	---	2	339	4	70	255	1	56	1,300	14	281
10-19	761	21	313	22	---	3	99	1	28	135	1	59	1,017	23	403
20-29	941	42	455	34	2	10	20	---	9	70	2	44	1,065	46	518
30-39	804	107	394	37	5	11	5	---	1	40	1	20	886	113	426
40-49	690	146	339	32	2	13	1	---	---	21	1	6	744	149	358
50-59	272	86	111	18	6	1	1	---	---	11	3	6	302	95	118
60-69	90	37	35	36	14	5	---	---	---	---	---	---	126	51	40
70-79	13	8	---	33	22	11	---	---	---	---	---	---	46	30	11
80-89	---	---	---	3	1	3	---	---	---	---	---	---	3	1	3
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	4	---	---	2	---	1	2	---	---	3	---	---	11	---	1
Total	4,356	466	1,854	231	52	60	495	6	127	545	9	198	5,627	533	2,239

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

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

Number Of Cars	---Freight---			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini	A/I	Kld	Ini
1-9.....	663	37	289	160	26	48	290	1	68	150	---	57	1,263	64	462
10-19.....	455	30	144	61	25	12	108	3	30	19	1	8	643	59	194
20-29.....	310	36	159	---	---	---	32	---	6	3	---	4	345	36	169
30-39.....	332	47	163	2	---	---	20	1	6	6	---	3	360	48	172
40-49.....	307	27	137	2	1	---	10	---	8	4	---	1	323	28	146
50-59.....	305	38	132	---	---	---	10	1	1	2	---	---	317	39	133
60-69.....	266	43	91	---	---	---	1	---	---	---	---	---	267	43	91
70-79.....	304	35	153	---	---	---	4	---	3	2	---	1	310	35	157
80-89.....	244	34	104	---	---	---	7	---	2	2	---	---	253	34	106
90-99.....	292	30	122	---	---	---	1	---	1	---	---	---	293	30	123
100-109.....	228	37	83	---	---	---	4	---	1	---	---	---	232	37	84
110-119.....	277	34	133	1	---	---	1	---	---	---	---	---	279	34	133
120-129.....	119	12	45	---	---	---	---	---	---	---	---	---	119	12	45
130-139.....	77	12	32	---	---	---	1	---	---	---	---	---	78	12	32
140-149.....	44	7	26	---	---	---	---	---	---	---	---	---	44	7	26
150 And over.....	69	3	25	---	---	---	---	---	---	1	---	---	70	3	25
Locomotives only.	64	4	16	5	---	---	6	---	1	356	8	124	431	12	141
Total.....	4,356	466	1,854	231	52	60	495	6	127	545	9	198	5,627	533	2,239

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
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	17	---	10	615	43	247	28	4	7	231	10	64	891	57	328
10-19.....	19	10	7	281	22	68	12	1	4	140	13	45	452	46	124
20-29.....	5	1	2	159	21	76	8	3	3	99	7	49	271	32	130
30-39.....	9	2	3	128	16	57	14	6	8	97	16	38	248	40	106
40-49.....	5	---	1	120	14	51	10	---	3	96	11	42	231	25	97
50-59.....	6	---	2	111	18	59	12	2	4	112	11	39	241	31	104
60-69.....	4	2	4	77	26	23	8	---	2	106	9	34	195	37	63
70-79.....	5	---	2	135	18	70	6	---	11	88	8	33	234	26	116
80-89.....	3	1	---	89	15	42	7	1	3	89	10	30	188	27	75
90-99.....	8	---	1	113	6	60	9	3	1	115	16	37	245	25	99
100-109.....	2	---	3	80	13	28	7	2	2	87	15	31	176	30	64
110-119.....	8	1	---	115	16	65	8	2	1	85	12	35	216	31	101
120-129.....	4	---	3	43	3	9	1	---	---	41	8	21	89	11	33
130-139.....	2	---	---	27	5	12	2	1	---	21	3	9	52	9	23
140-149.....	---	---	---	14	4	7	1	---	1	12	1	3	27	5	11
150 And over.....	2	---	1	18	1	4	2	---	---	27	2	10	49	3	15
Locomotives only.	10	---	2	163	4	47	12	---	2	123	4	41	308	8	92
Total.....	109	17	41	2,288	245	925	147	25	54	1,569	156	561	4,113	443	1,581
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	3	---	1	204	4	70	15	1	5	150	2	58	372	7	134
10-19.....	5	2	2	84	4	27	4	---	---	98	7	41	191	13	70
20-29.....	2	---	---	32	2	23	3	---	1	37	2	15	74	4	39
30-39.....	4	---	2	46	---	30	3	---	---	59	8	34	112	8	66
40-49.....	2	---	---	32	1	16	6	---	3	52	2	30	92	3	49
50-59.....	4	---	---	22	3	10	2	---	---	48	5	19	76	8	29
60-69.....	1	---	1	25	---	7	1	---	---	45	6	20	72	6	28
70-79.....	1	---	1	29	3	16	1	---	---	45	6	24	76	9	41
80-89.....	1	---	---	23	2	16	2	---	2	39	5	13	65	7	31
90-99.....	1	---	1	15	2	6	1	---	---	31	3	17	48	5	24
100-109.....	1	---	---	19	2	6	---	---	---	36	5	14	56	7	20
110-119.....	1	---	---	28	1	15	3	---	2	31	2	15	63	3	32
120-129.....	---	---	---	8	---	2	---	---	---	22	1	10	30	1	12
130-139.....	1	2	---	8	---	2	1	---	2	16	1	5	26	3	9
140-149.....	2	---	1	5	1	5	---	---	---	10	1	9	17	2	15
150 And over.....	2	---	1	6	---	3	1	---	1	12	---	5	21	---	10
Locomotives only.	4	---	1	67	2	25	4	---	1	48	2	22	123	4	49
Total.....	35	4	11	653	27	279	47	1	17	779	58	351	1,514	90	658
GRAND TOTAL															
1-9.....	20	---	11	819	47	317	43	5	12	381	12	122	1,263	64	462
10-19.....	24	12	9	365	26	95	16	1	4	238	20	86	643	59	194
20-29.....	7	1	2	191	23	99	11	3	4	136	9	64	345	36	169
30-39.....	13	2	5	174	16	87	17	6	8	156	24	72	360	48	172
40-49.....	7	---	1	152	15	67	16	---	6	148	13	72	323	28	146
50-59.....	10	---	2	133	21	69	14	2	4	160	16	58	317	39	133
60-69.....	5	2	5	102	26	30	9	---	2	151	15	54	267	43	91
70-79.....	6	---	3	164	21	86	7	---	11	133	14	57	310	35	157
80-89.....	4	1	---	112	17	58	9	1	5	128	15	43	253	34	106
90-99.....	9	---	2	128	8	65	10	3	1	146	19	54	293	30	123
100-109.....	3	---	3	99	15	34	7	2	2	123	20	45	232	37	84
110-119.....	9	1	---	143	17	80	11	2	3	116	14	50	279	34	133
120-129.....	4	---	3	51	3	11	1	---	---	63	9	31	119	12	45
130-139.....	3	2	---	35	5	14	3	1	4	37	4	14	78	12	32
140-149.....	2	---	1	19	5	12	1	---	1	22	2	12	44	7	26
150 And over.....	4	---	2	24	1	7	3	---	1	39	2	15	70	3	25
Locomotives only.	14	---	3	230	6	72	16	---	3	171	6	63	431	12	141
Total.....	144	21	52	2,941	272	1,204	194	26	71	2,348	214	912	5,627	533	2,239

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.....	616	14	220	260	3	61	80	4	12	172	2	53	---	---	---	1,128	23	346
2.....	1,031	35	401	40	---	13	17	---	6	22	---	4	---	---	---	1,110	35	424
3.....	1,548	151	680	24	---	9	7	---	2	8	---	2	---	---	---	1,587	153	692
4.....	1,551	297	661	9	2	7	1	---	---	3	---	2	---	---	---	1,564	299	670
5.....	83	15	38	---	---	---	---	---	---	---	---	---	---	---	---	83	15	38
6.....	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	---
Unknown.....	110	7	58	29	1	8	1	---	1	12	---	2	---	---	---	152	8	69
Total....	4,942	519	2,058	362	6	98	106	6	20	217	2	63	---	---	---	5,627	533	2,239

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	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj	A/I	Kid	Inj
Gates.....	562	95	231	2	---	1	24	---	9	425	5	82	12	---	1	1,025	100	324
Cantilever flashrs	---	---	---	31	2	8	248	26	127	94	2	23	5	---	2	378	30	160
Standard flashers	---	---	---	100	5	35	864	95	371	299	11	77	17	3	7	1,280	114	490
Hwy Sig, W W, Bells	---	---	---	12	---	2	111	13	45	48	5	4	3	---	---	174	18	51
Special Devices...	---	---	---	14	---	2	74	2	17	20	---	3	2	---	1	110	2	23
Crossbucks.....	---	---	---	126	6	61	1,734	224	898	613	31	167	80	4	26	2,553	265	1,152
Stopsigns.....	---	---	---	7	---	2	17	1	13	8	---	2	3	---	---	35	1	17
Other Signs.....	---	---	---	---	---	---	11	2	6	4	---	---	1	---	---	16	2	6
No Signs Or Signl	---	---	---	6	---	---	30	1	10	16	---	6	4	---	---	56	1	16
Total.....	562	95	231	298	13	111	3,113	364	1,496	1,527	54	364	127	7	37	5,627	533	2,239

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

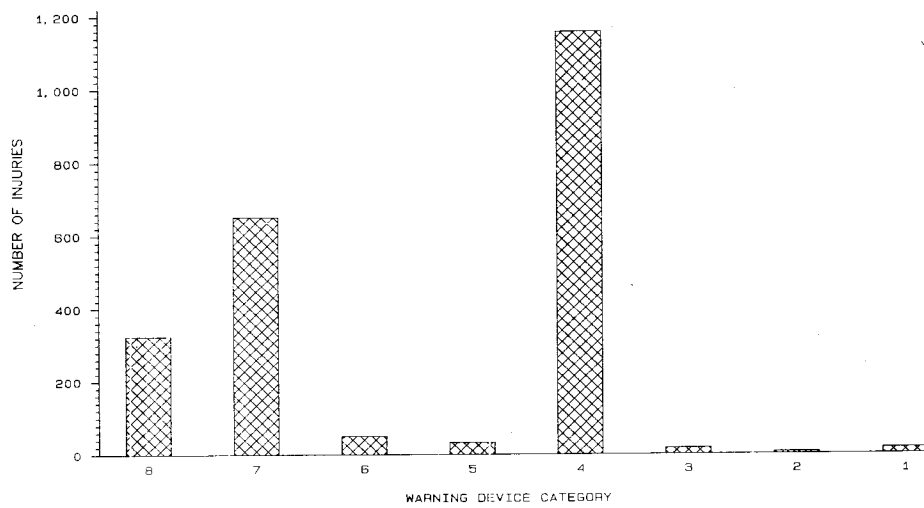
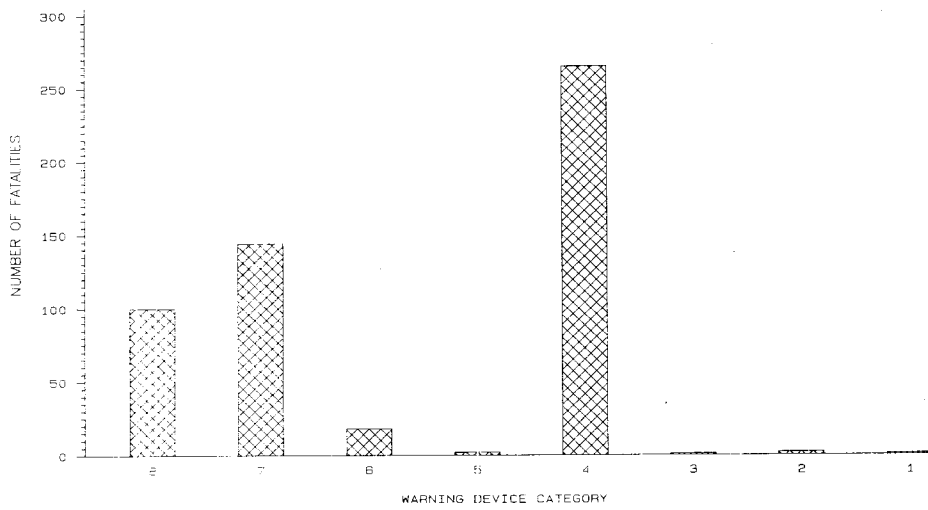
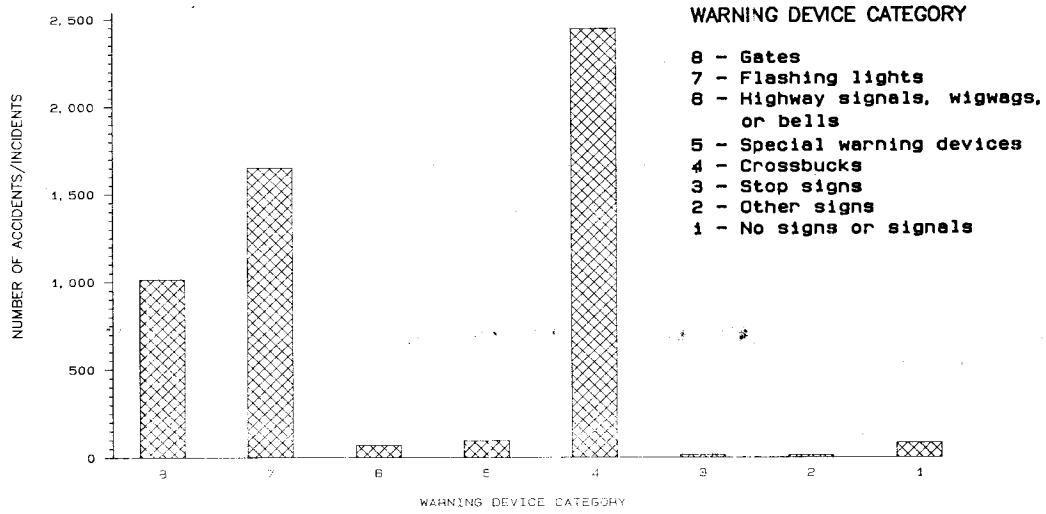


FIGURE 6. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

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--			-----Struck By Consist-----				-----Highway User-----			
	Yes	No	N/A	Dawn	Day	Dusk	Dark	Dawn	Ran Into Consist	Day	Dusk
Gates.....	986	13	26	29	345	36	434	7	60	3	111
Cantilever flashrs	372	1	5	9	143	8	97	3	62	1	55
Standard flashers	1,239	16	25	21	483	31	349	8	185	14	189
Hwy Sig,W W,Bells	152	12	10	4	73	3	36	---	22	2	34
Special Devices..	---	---	110	3	32	1	23	---	18	1	32
Crossbucks.....	---	---	2,553	43	1,159	64	598	17	301	26	345
Stopsigns.....	---	---	35	---	21	2	7	---	2	---	3
Other Signs.....	---	---	16	---	7	---	5	---	---	---	4
No Signs Or Signl	---	---	56	---	25	2	20	---	3	---	6
Total.....	2,749	42	2,836	109	2,288	147	1,569	35	653	47	779

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.....	976	76	360	368	19	140	1,344	95	500
Not Lighted.....	2,146	261	868	764	55	373	2,910	316	1,241
Not Reported.....	959	104	347	371	16	140	1,330	120	487
Total.....	4,113	443	1,581	1,514	90	658	5,627	533	2,239

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

Warning Device	VISIBILITY												Total		
	Dawn			Day			Dusk			Dark					
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	58	9	19	1,001	92	352	74	16	26	893	95	333	2,026	212	730
Automatic, Side Of Approach.....	5	---	2	33	4	11	4	---	---	21	2	8	63	6	21
Automatic, Opposite Side.....	---	---	---	7	---	4	---	---	---	1	---	---	8	---	4
Automatic, Side Not Reported.....	---	---	---	3	1	1	---	---	---	---	---	---	4	1	1
Manual, Both Sides.....	2	---	---	22	---	---	1	---	---	15	---	1	40	---	2
Manual, Side Of Approach.....	---	---	---	4	---	1	---	---	---	4	---	1	8	---	2
Manual, Opposite Side.....	---	---	---	3	---	---	---	---	---	3	---	---	6	---	1
Manual, Side Not Reported.....	1	---	---	3	---	---	---	---	---	1	---	1	5	---	1
Other, Both Sides.....	37	8	17	1,097	140	510	61	9	25	562	59	203	1,757	216	755
Other, Side Of Approach.....	4	---	2	56	4	29	4	---	1	35	---	9	99	4	41
Other, Opposite Side.....	2	---	1	25	3	11	---	---	---	9	---	1	36	3	13
Other, Side Not Reported.....	---	---	---	9	---	---	1	---	---	4	---	1	14	---	1
No Signs Or Signals.....	---	---	---	25	1	6	2	---	2	20	---	3	47	1	11
Total.....	109	17	41	2,288	245	925	147	25	54	1,569	156	561	4,113	443	1,581
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	17	2	6	307	14	109	18	---	8	372	26	137	714	42	260
Automatic, Side Of Approach.....	1	---	1	18	---	2	2	---	---	15	1	4	36	1	7
Automatic, Opposite Side.....	---	---	---	3	---	---	---	---	---	1	---	---	4	---	---
Automatic, Side Not Reported.....	---	---	---	1	---	---	---	---	---	1	---	2	2	---	2
Manual, Both Sides.....	---	---	---	14	---	6	---	---	---	22	2	9	36	2	15
Manual, Side Of Approach.....	---	---	---	2	---	---	---	---	---	6	---	1	8	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	3	---	2	3	---	2
Manual, Side Not Reported.....	---	---	---	2	---	---	1	---	1	1	---	---	4	---	1
Other, Both Sides.....	15	---	4	280	13	154	24	1	7	317	27	171	636	41	336
Other, Side Of Approach.....	2	2	---	19	---	8	2	---	1	26	2	16	49	4	25
Other, Opposite Side.....	---	---	---	4	---	---	---	---	---	5	---	2	9	---	2
Other, Side Not Reported.....	---	---	---	---	---	---	---	---	---	4	---	2	4	---	2
No Signs Or Signals.....	---	---	---	3	---	---	---	---	---	6	---	5	9	---	5
Total.....	35	4	11	653	27	279	47	1	17	779	58	351	1,514	90	658
GRAND TOTAL															
Automatic, Both Sides.....	75	11	25	1,308	106	461	92	16	34	1,265	121	470	2,740	254	990
Automatic, Side Of Approach.....	6	---	3	51	4	13	6	---	---	36	3	12	99	7	28
Automatic, Opposite Side.....	---	---	---	10	---	4	---	---	---	2	---	---	12	---	4
Automatic, Side Not Reported.....	---	---	---	4	1	1	---	---	---	2	---	2	6	1	3
Manual, Both Sides.....	2	---	---	36	---	6	1	---	---	37	2	10	76	2	16
Manual, Side Of Approach.....	---	---	---	6	---	1	---	---	---	10	---	2	16	---	3
Manual, Opposite Side.....	---	---	---	3	---	---	---	---	---	6	---	2	9	---	2
Manual, Side Not Reported.....	1	---	---	5	---	---	1	---	1	2	---	1	9	---	2
Other, Both Sides.....	52	8	21	1,377	153	664	85	10	32	879	86	374	2,393	257	1,091
Other, Side Of Approach.....	6	2	2	75	4	37	6	---	2	61	2	25	148	8	66
Other, Opposite Side.....	2	---	1	29	3	11	---	---	---	14	---	3	45	3	15
Other, Side Not Reported.....	---	---	---	9	---	---	1	---	---	8	---	3	18	---	3
No Signs Or Signals.....	---	---	---	28	1	6	2	---	2	26	---	8	56	1	16
Total.....	144	21	52	2,941	272	1,204	194	26	71	2,348	214	912	5,627	533	2,239

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

TIME, DAY AND WEATHER DATA

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

Visibility	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	109	17	41	35	4	11	144	21	52
Day.....	2,288	245	925	653	27	279	2,941	272	1,204
Dusk.....	147	25	54	47	1	17	194	26	71
Dark.....	1,569	156	561	779	58	351	2,348	214	912
Total.....	4,113	443	1,581	1,514	90	658	5,627	533	2,239

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	1	---	---	2	---	---	---	10	1	---
80 To 100.....	6	674	26	111	1	147	5	60	7	821	31	171
60 To 79.....	31	747	54	455	9	230	12	225	40	977	66	680
40 To 59.....	46	523	40	582	13	147	19	272	59	670	59	854
20 To 39.....	25	306	20	392	11	116	11	201	36	422	31	593
0 To 19.....	1	29	4	28	1	10	---	19	2	39	4	47
-20 To -1.....	---	1	2	1	---	1	---	2	---	2	2	3
Under -20.....	---	---	---	---	---	---	---	---	---	---	---	---
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	109	2,288	147	1,569	35	653	47	779	144	2,941	194	2,348

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

TIME	CIRCUMSTANCE			CIRCUMSTANCE			-----Total-----		
	Struck A/I	By Consist Kld Inj	Ran Into Consist A/I Kld Inj	A/I	Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	149	9 40	78 8 35	227	17	75			
1 TO 1:59 AM...	110	14 36	68 5 35	178	19	71			
2 TO 2:59 AM...	89	10 42	61 7 24	150	17	66			
3 TO 3:59 AM...	58	10 13	37 5 18	95	15	31			
4 TO 4:59 AM...	60	5 19	35 3 26	95	8	45			
5 TO 5:59 AM...	80	4 19	39 7 14	119	11	33			
6 TO 6:59 AM...	115	13 45	41 3 12	156	16	57			
7 TO 7:59 AM...	158	25 79	44 3 14	202	28	93			
8 TO 8:59 AM...	145	26 40	59 2 24	204	28	64			
9 TO 9:59 AM...	181	15 65	60 3 25	241	18	90			
10 TO 10:59 AM.	202	24 78	52 --- 15	254	24	93			
11 TO 11:59 AM.	193	19 81	42 1 13	235	20	94			
NOON TO 12:59 PM.	200	15 72	71 3 27	271	18	99			
1 TO 1:59 PM...	216	29 77	69 2 31	285	31	108			
2 TO 2:59 PM...	221	15 96	53 4 21	274	19	117			
3 TO 3:59 PM...	248	23 84	71 1 52	319	24	136			
4 TO 4:59 PM...	255	33 116	55 4 21	310	37	137			
5 TO 5:59 PM...	243	25 97	75 4 33	318	29	130			
6 TO 6:59 PM...	220	27 100	85 3 23	305	30	123			
7 TO 7:59 PM...	205	18 72	84 4 35	289	22	107			
8 TO 8:59 PM...	201	19 71	65 6 31	266	25	102			
9 TO 9:59 PM...	194	26 90	93 4 38	287	30	128			
10 TO 10:59 PM.	189	26 69	95 5 44	284	31	113			
11 TO 11:59 PM.	181	13 80	82 3 47	263	16	127			
Unknown.....	---	---	---	---	---	---			
Total.....	4,113	443 1,581	1,514 90 658	5,627	533	2,239			

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

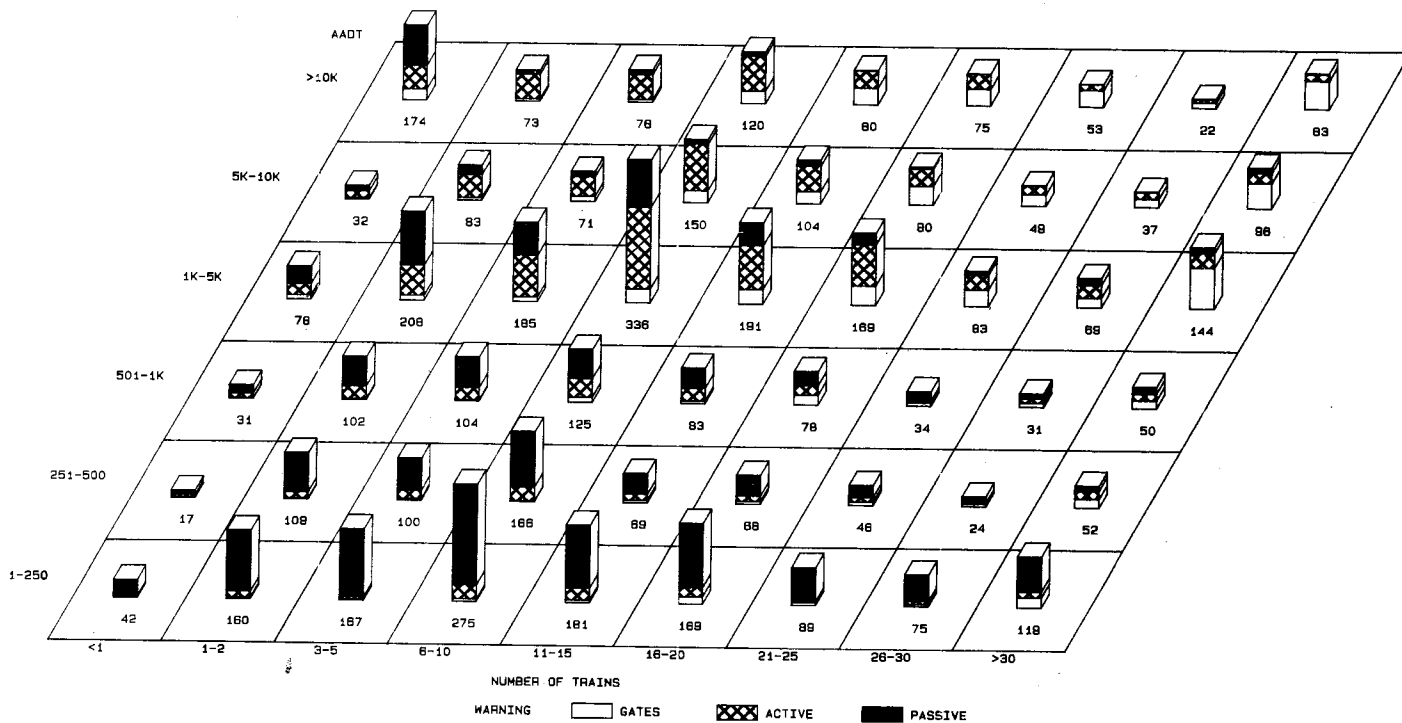
Month	CIRCUMSTANCE			CIRCUMSTANCE			-----Total-----		
	Struck A/I	By Consist Kld Inj	Ran Into Consist A/I Kld Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	415	58 147	166 6 65	581	64	212			
February.....	309	29 103	120 9 70	429	38	173			
March.....	320	38 112	102 3 43	422	41	155			
April.....	319	30 111	109 3 43	428	33	154			
May.....	260	16 135	85 6 44	345	22	179			
June.....	309	31 110	91 5 32	400	36	142			
July.....	310	35 127	101 3 49	411	38	176			
August.....	370	42 145	126 11 66	496	53	211			
September.....	278	40 109	138 7 71	416	47	180			
October.....	412	49 161	140 13 54	552	62	215			
November.....	380	32 142	146 14 56	526	46	198			
December.....	431	43 179	190 10 65	621	53	244			
Total.....	4,113	443 1,581	1,514 90 658	5,627	533	2,239			

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.....	70	1,630	107	978	19	436	29	445	89	2,066	136	1,423
Cloudy.....	20	459	28	347	8	123	10	190	28	582	38	537
Rain.....	12	129	10	169	3	63	7	94	15	192	17	263
Fog.....	5	9	1	24	4	7	1	21	9	16	2	45
Sleet.....	---	5	---	5	---	3	---	1	---	8	---	6
Snow.....	2	56	1	46	1	20	---	28	3	76	1	74
Not Reported.....	---	---	---	---	---	1	---	---	---	1	---	---
Total.....	109	2,288	147	1,569	35	653	47	779	144	2,941	194	2,348

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



MOTORIST ACTION DATA

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

Type Obstruction	CIRCUMSTANCE								Total			
	Struck By				Ran Into				Dawn	Day	Dusk	Dark
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark				
Permanent structure...	3	78	5	37	---	23	2	19	3	101	7	56
Standing RR Equipment.	---	18	---	4	---	2	---	4	---	20	---	8
Passing Train.....	---	8	---	7	---	1	---	4	1	8	---	11
Topography.....	2	28	2	10	---	9	---	---	2	37	2	10
Vegetation.....	2	59	1	11	---	34	---	5	2	93	1	16
Highway Vehicle.....	---	9	1	3	---	---	1	2	---	9	2	5
Other.....	3	29	1	7	---	6	---	9	3	35	1	16
Not Obstructed.....	99	2,059	137	1,489	34	579	44	735	133	2,638	181	2,224
Unknown.....	---	---	---	1	---	---	---	1	---	---	---	2
Total.....	109	2,288	147	1,569	35	653	47	779	144	2,941	194	2,348

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

Type Of Vehicle	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	110	3,656	64	141	3,285	404
Truck.....	32	1,260	20	42	1,160	110
Truck-trailer....	15	420	3	8	398	32
Bus.....	1	10	---	---	10	1
School bus.....	---	2	---	---	2	---
Motorcycle.....	2	32	---	2	27	5
Total.....	160	5,380	87	193	4,882	552

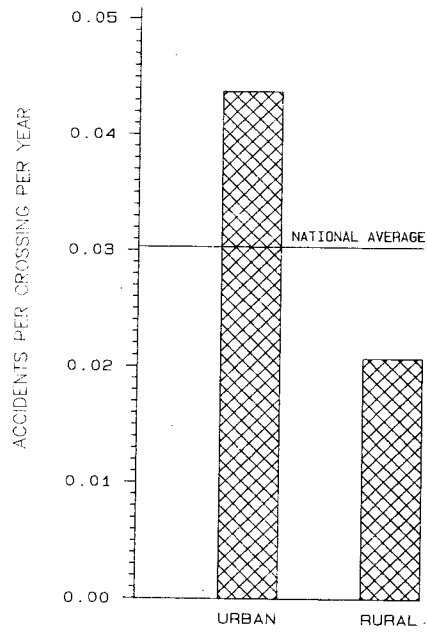


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

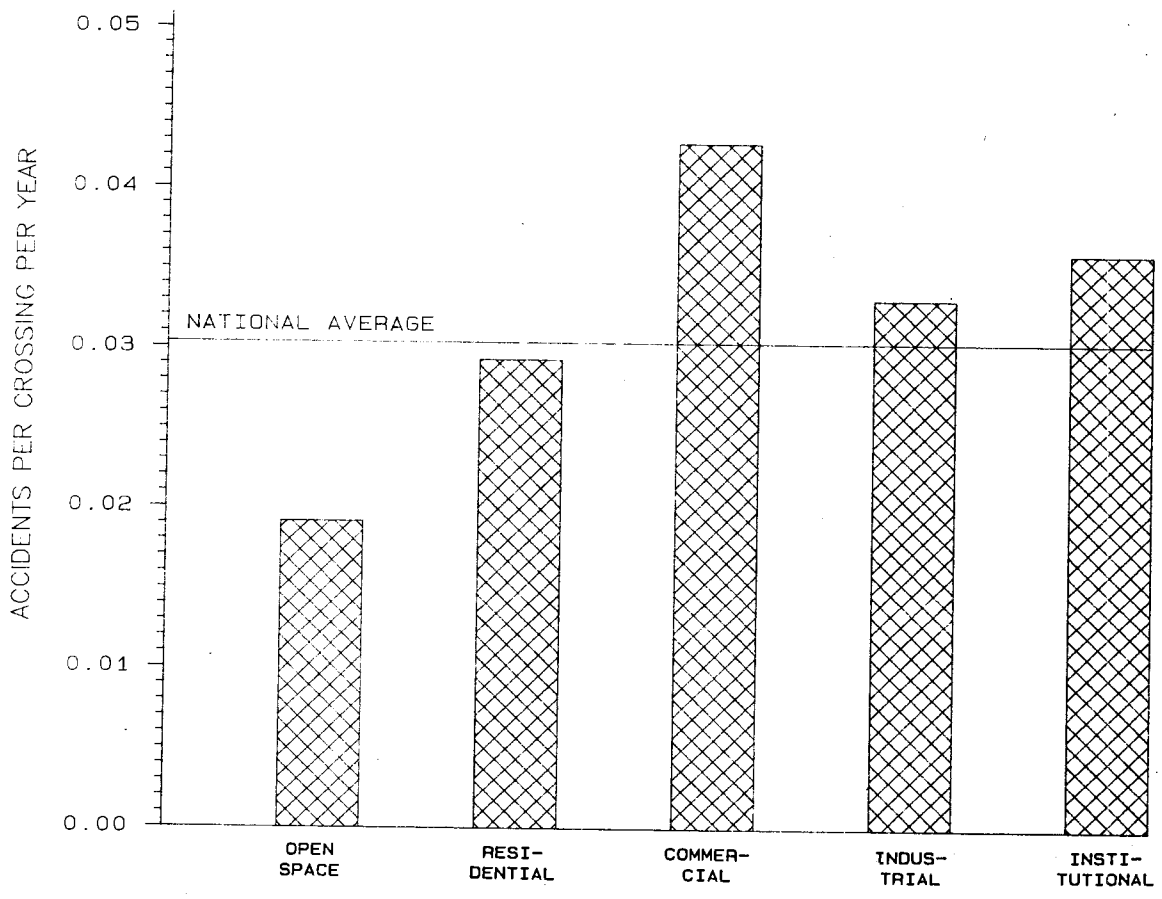


FIGURE 9. CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

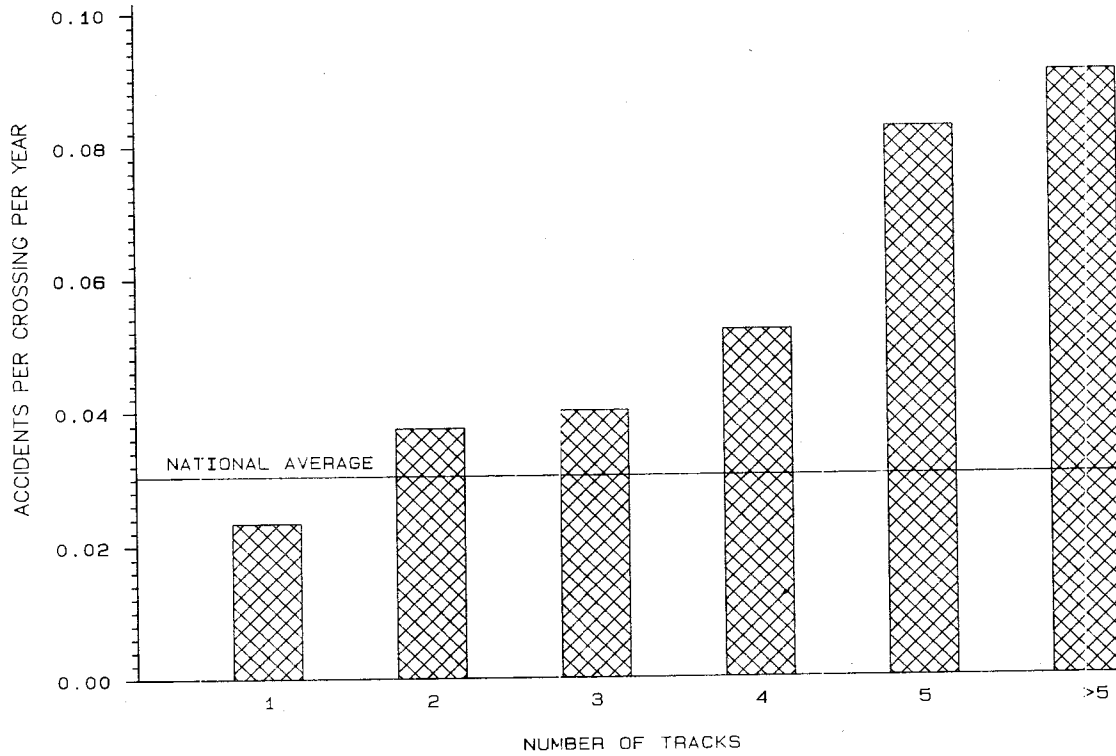


FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

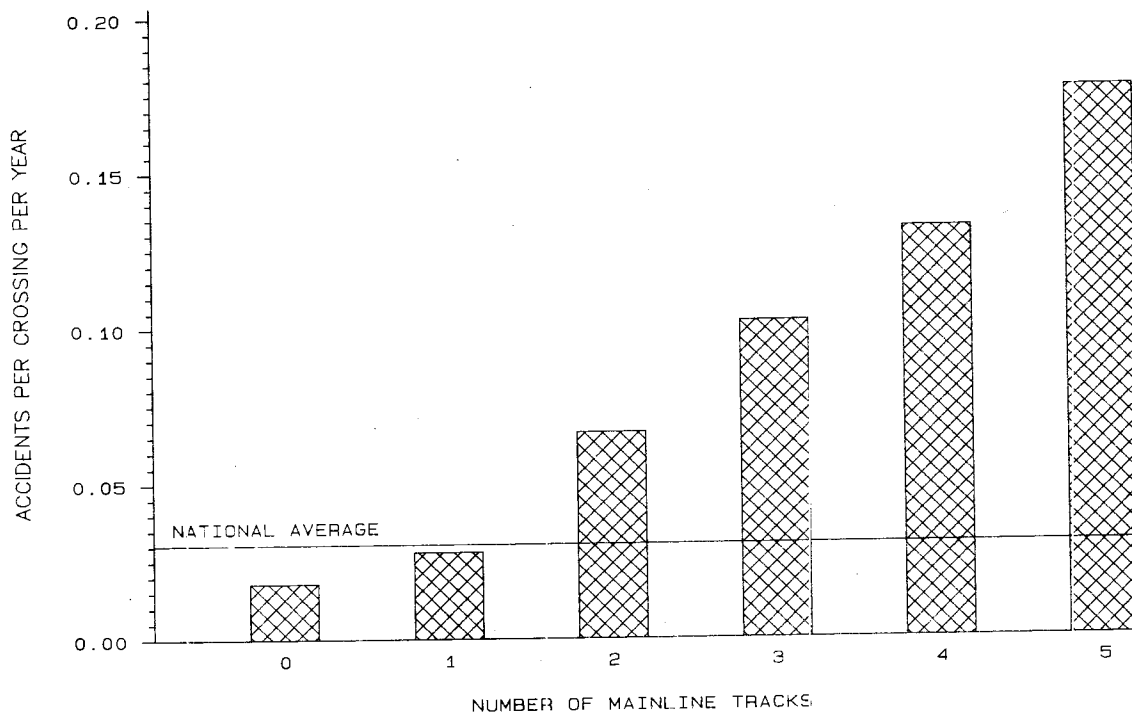


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

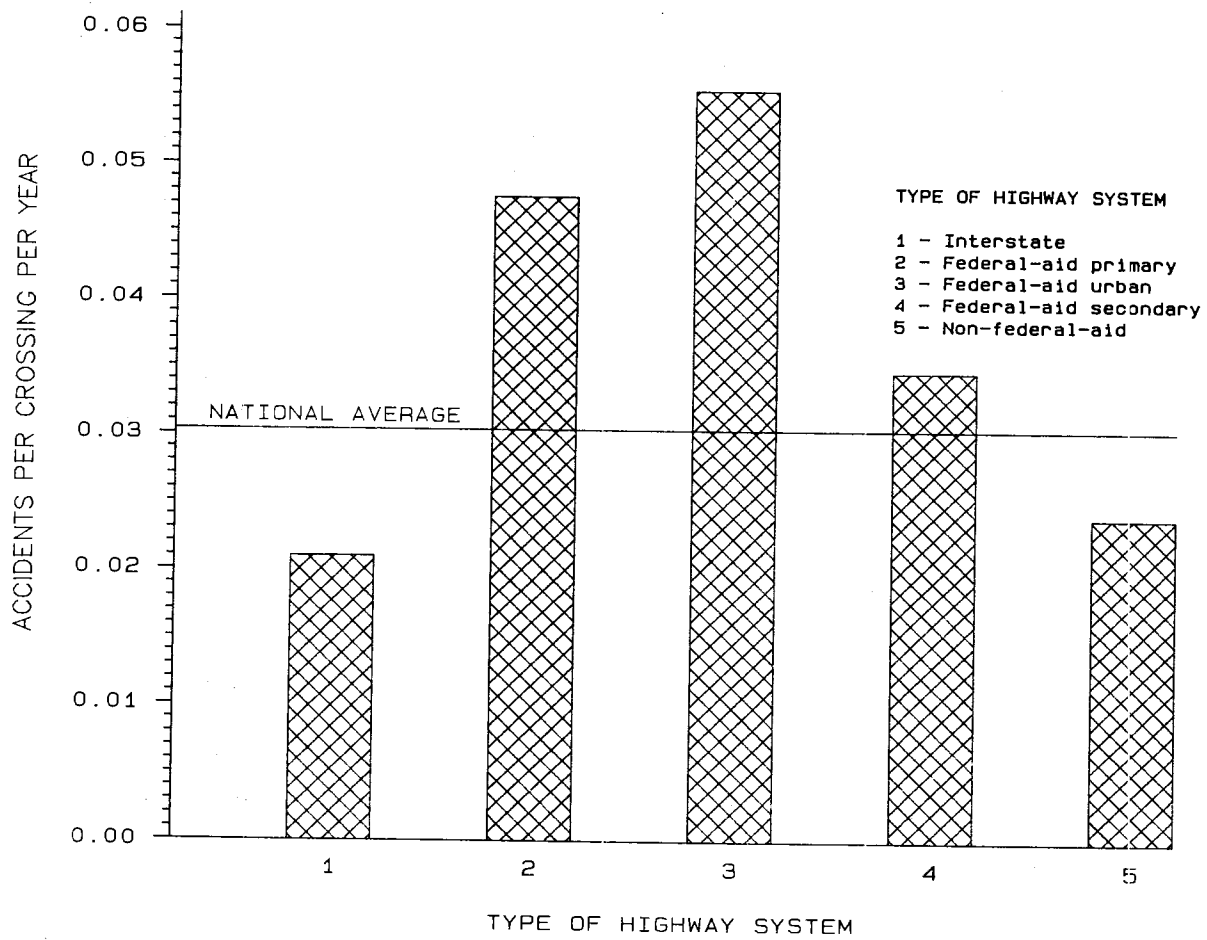


FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

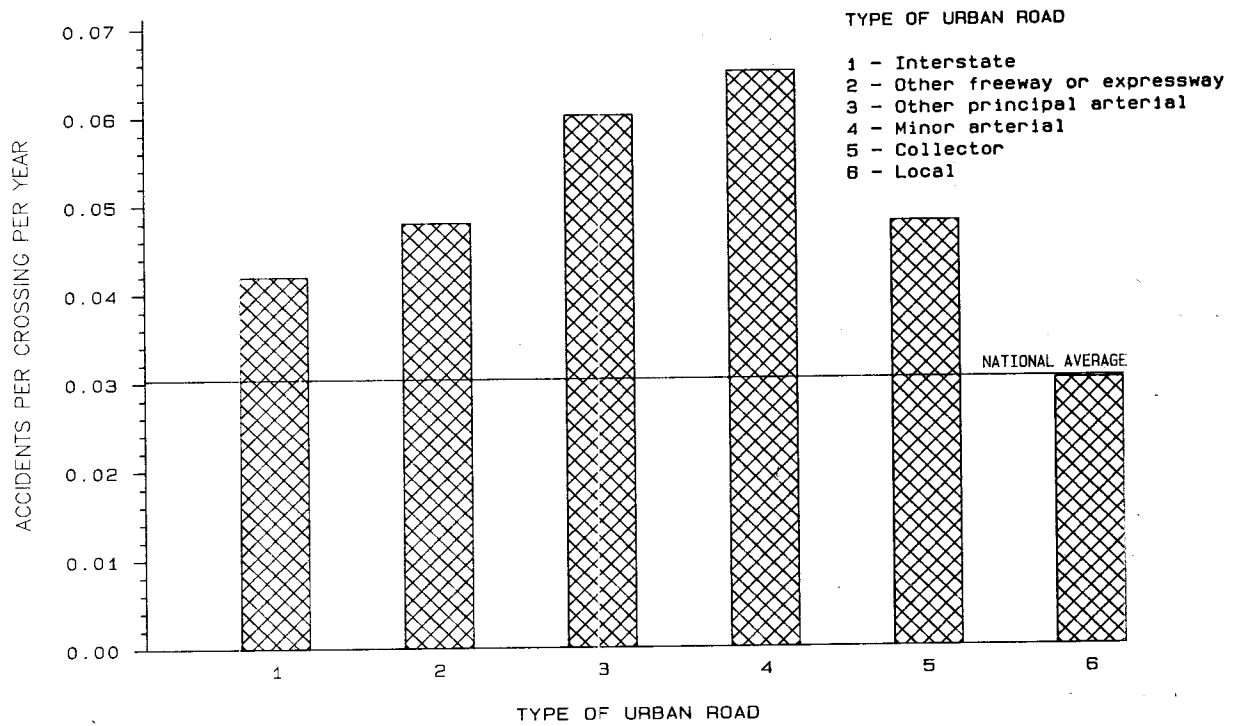


FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

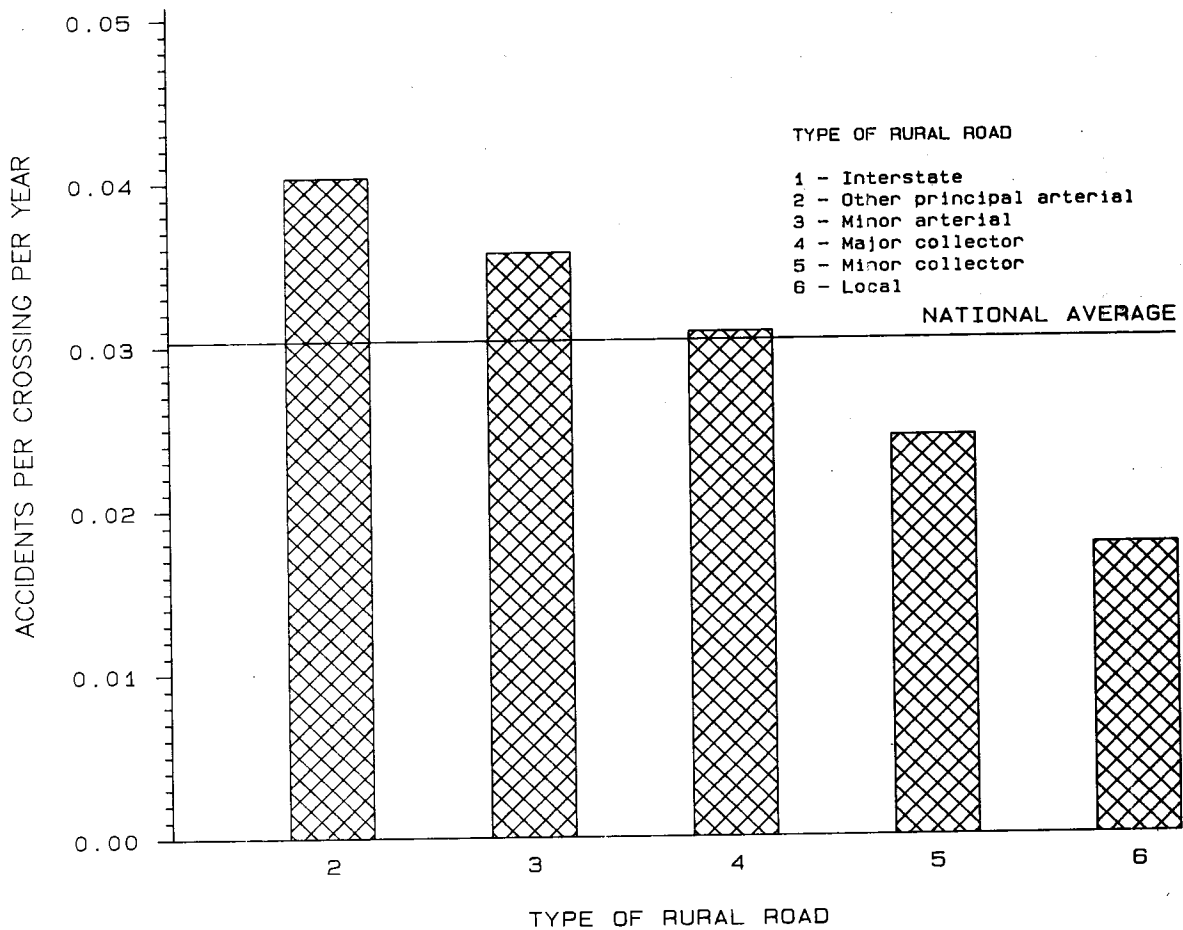


FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

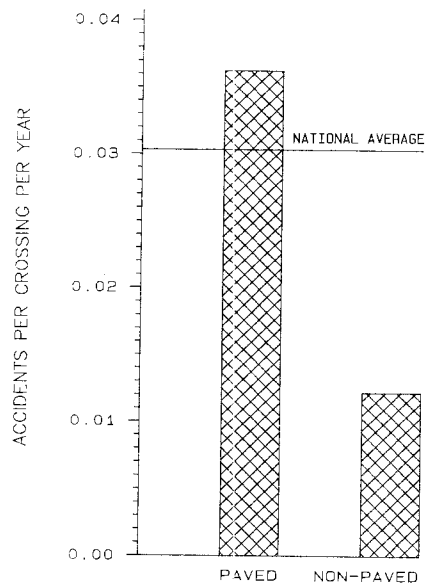


FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

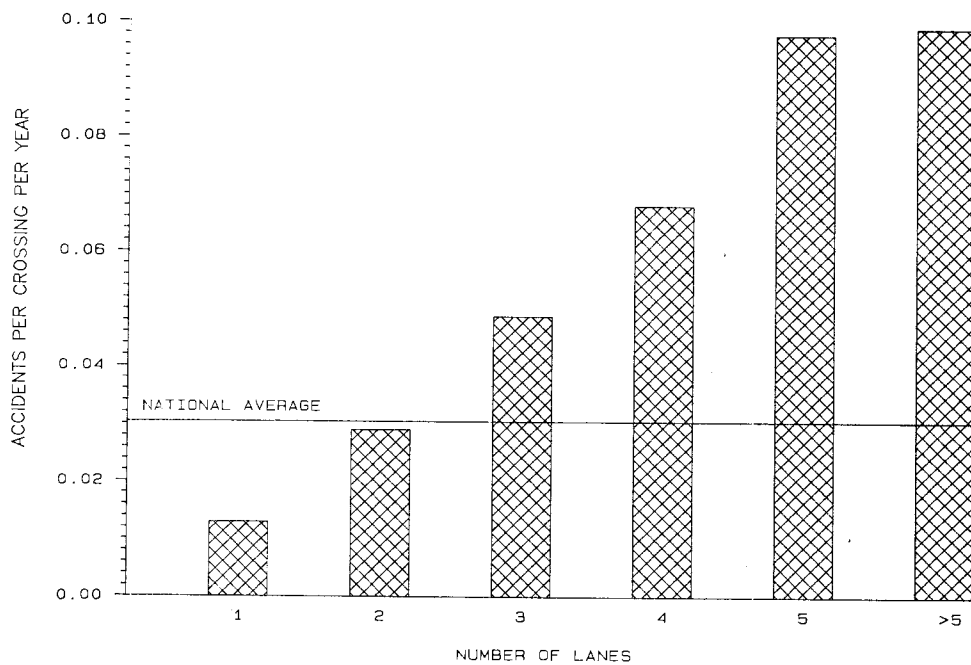


FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

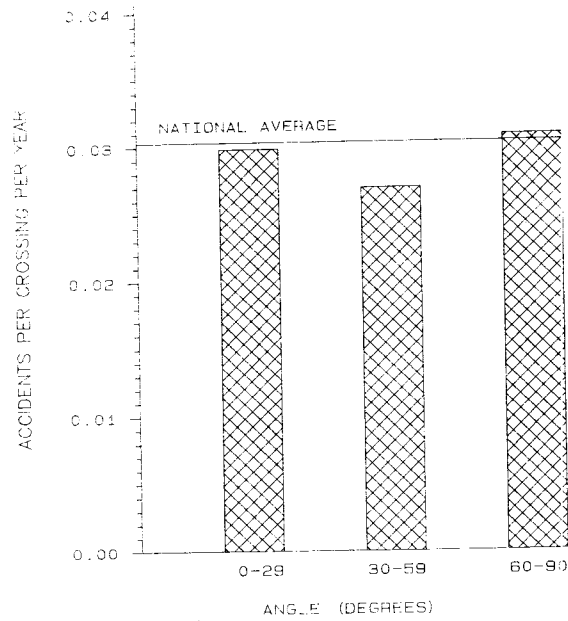


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

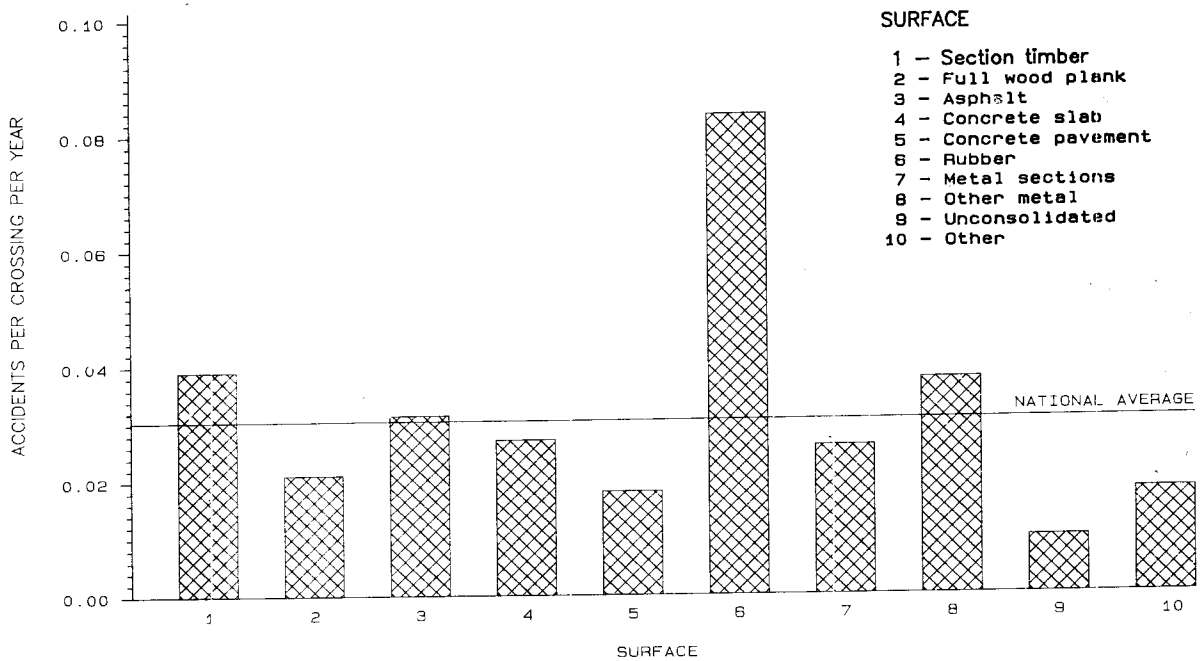


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

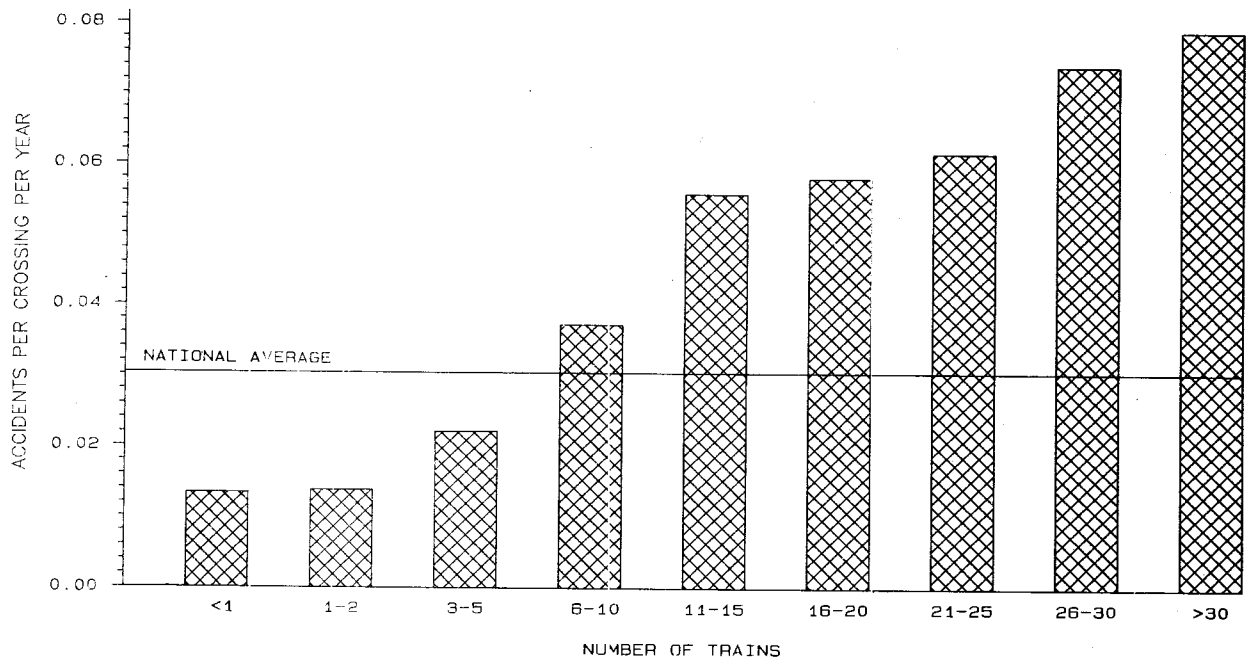


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

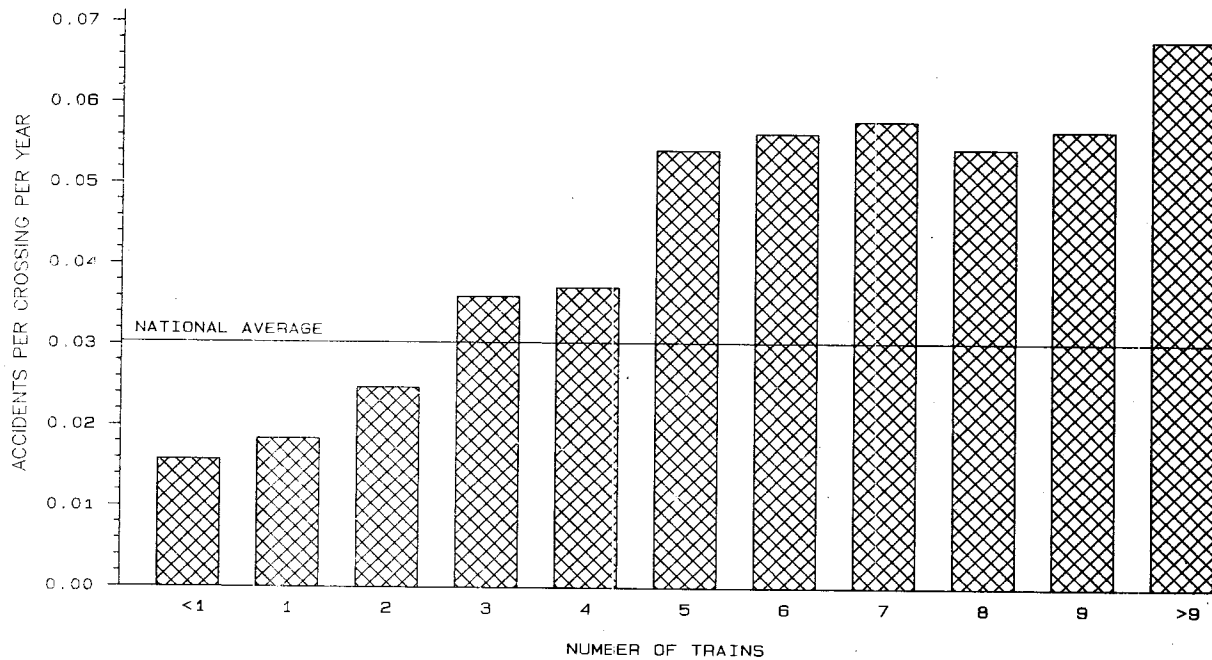


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM TO 6PM)

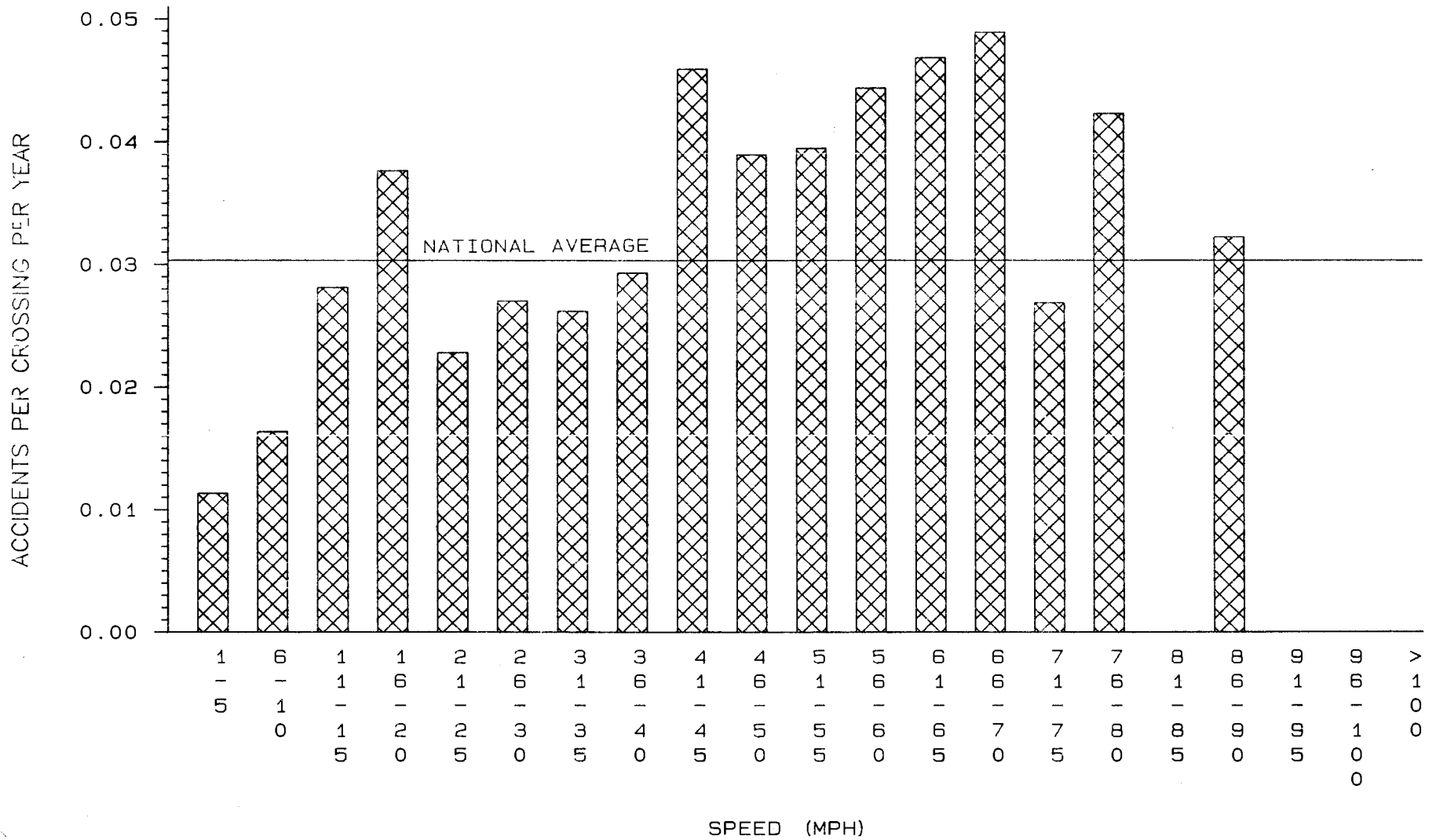


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

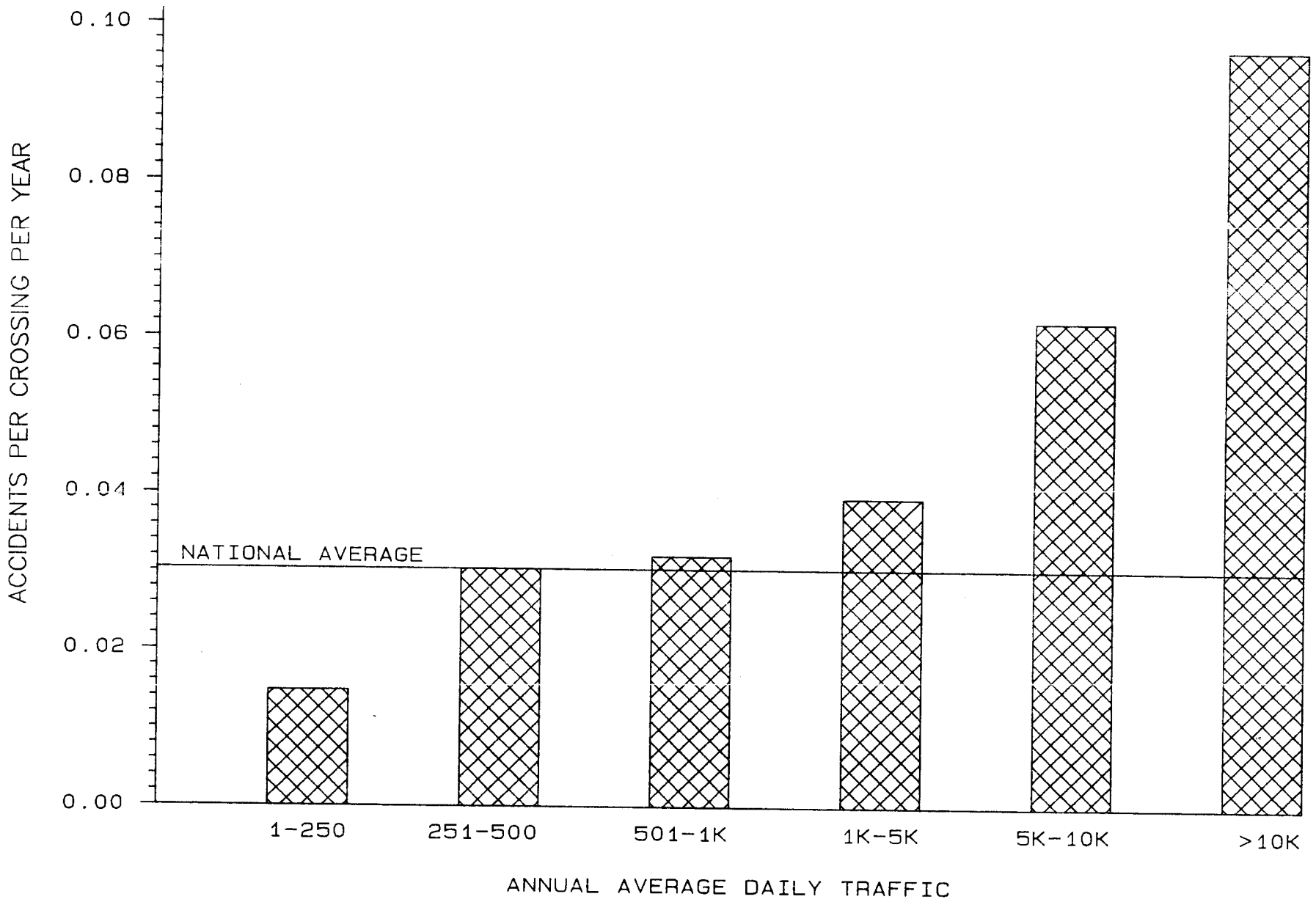


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

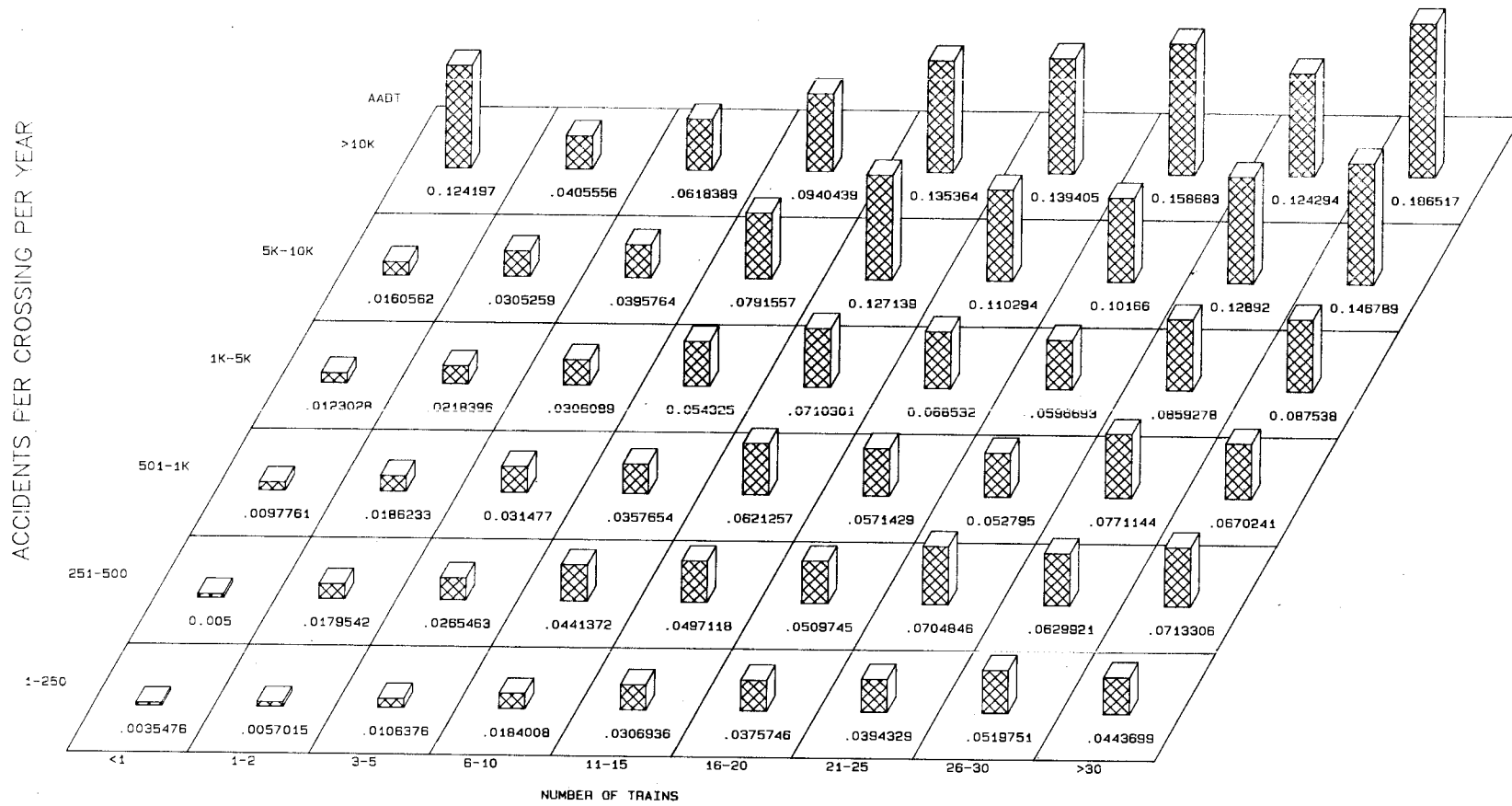


FIGURE 26. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

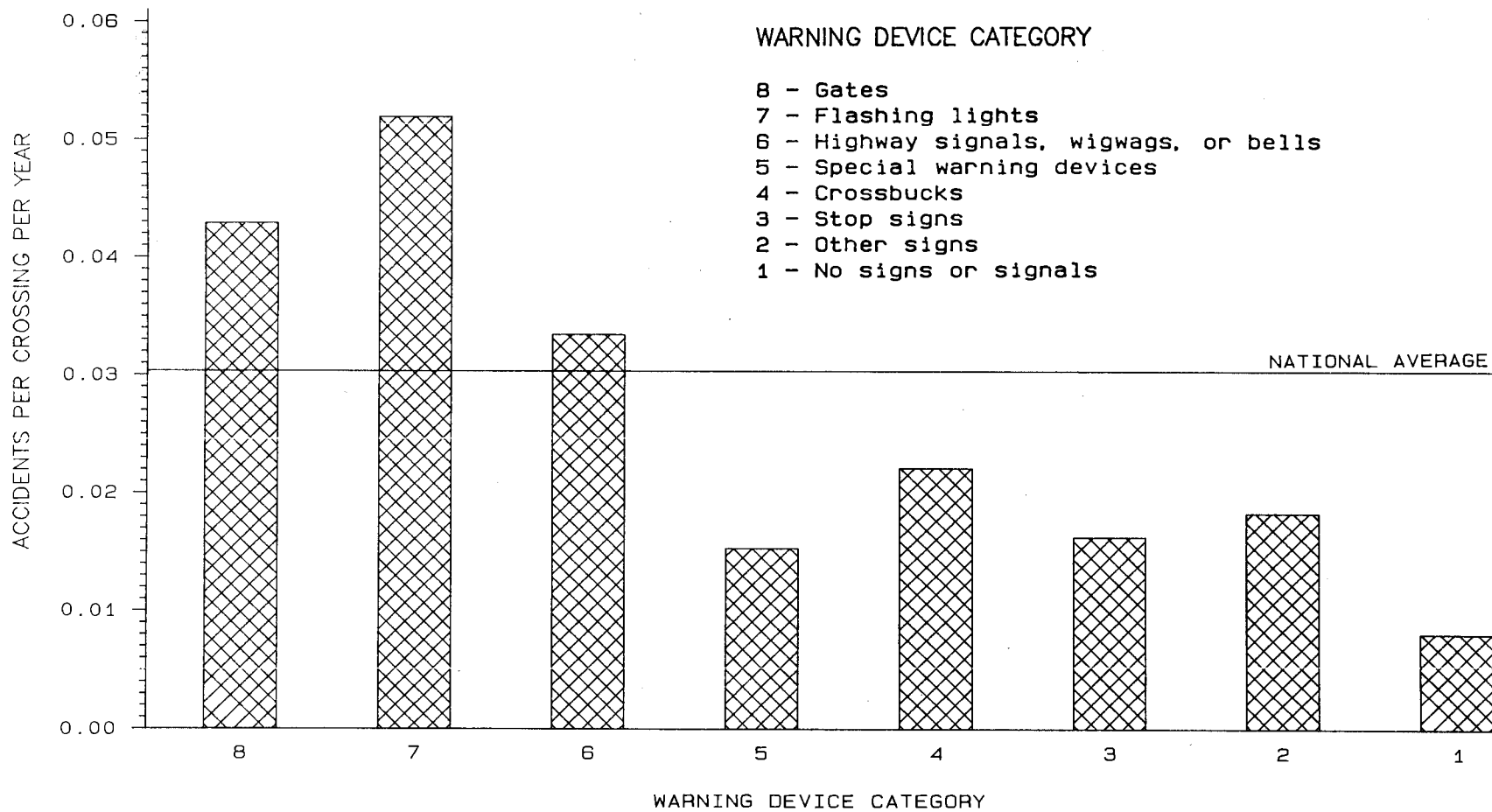


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

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	4,636	496	191	2,391	34	7,748
Alaska	218	11	5	115	11	360
Arizona	976	87	90	825	8	1,986
Arkansas	3,506	177	123	1,653	16	5,475
California	8,481	934	557	5,273	251	15,496
Colorado	2,274	199	113	1,626	14	4,226
Connecticut	499	325	252	434	53	1,563
Delaware	250	44	59	173	4	530
Dist Of Columbia	37	30	38	12	13	130
Florida	4,388	209	75	1,567	43	6,282
Georgia	6,834	577	258	3,089	39	10,797
Hawaii	6	0	0	0	0	6
Idaho	1,783	95	62	1,636	10	3,586
Illinois	11,100	939	1,924	6,500	407	20,870
Indiana	7,744	489	615	3,589	144	12,581
Iowa	6,172	498	353	4,436	62	11,521
Kansas	8,766	349	217	4,557	37	13,926
Kentucky	3,481	469	473	3,697	112	8,232
Louisiana	4,480	224	128	3,815	58	8,705
Maine	951	122	80	1,088	12	2,253
Maryland	904	322	211	825	26	2,288
Massachusetts	1,197	796	436	589	103	3,121
Michigan	6,377	350	408	3,118	100	10,353
Minnesota	6,251	507	392	4,007	84	11,241
Mississippi	3,038	232	111	2,124	16	5,521
Missouri	5,595	692	435	4,098	99	10,919
Montana	1,694	134	82	2,324	20	4,254
Nebraska	4,529	224	141	3,241	23	8,158
Nevada	292	49	39	268	3	651
New Hampshire	513	118	54	364	13	1,062
New Jersey	1,949	535	728	665	125	4,002
New Mexico	820	68	79	588	4	1,559
New York	3,514	1,369	1,105	3,463	298	9,749
North Carolina	5,000	510	291	3,813	72	9,686
North Dakota	5,065	79	88	2,416	36	7,684
Ohio	8,701	1,189	1,161	4,970	105	16,126
Oklahoma	4,993	266	203	1,939	20	7,421
Oregon	2,661	280	175	3,109	97	6,322
Pennsylvania	5,746	1,595	1,927	3,890	327	13,485
Rhode Island	128	105	37	78	5	353
South Carolina	3,843	395	130	1,641	16	6,025
South Dakota	2,166	96	52	1,504	7	3,825
Tennessee	4,061	507	484	2,314	37	7,403
Texas	13,745	836	797	7,149	51	22,578
Utah	1,094	122	51	846	8	2,121
Vermont	526	78	83	773	52	1,512
Virginia	2,516	638	470	3,689	69	7,322
Washington	3,546	378	332	3,668	116	8,040
West Virginia	2,427	292	377	2,937	110	6,143
Wisconsin	5,543	443	346	3,431	164	9,927
Wyoming	572	112	53	1,100	8	1,845
Puerto Rico	55	0	0	2	0	57
FINAL TOTALS	185,643	19,591	16,891	121,419	3,542	347,086

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

	Railroad	Public At Grade	RR Under	RR Over	Private	Pedestrian	Total
AFLR	Alabama And Florida Railroad	143	0	3	56	3	205
ARR	Alaska Railroad Corporation	214	11	5	115	11	356
ALY	Allegheny Railroad	133	13	15	98	5	264
ATK	Amtrak (National Railroad Passenger Corp)	152	531	482	102	73	1,340
AM	Arkansas And Missouri Railroad Company	252	8	14	96	0	370
ATSF	Atchison, Topeka And Santa Fe Railway Co.)	11,302	711	660	6,675	93	19,441
ASA3	Atlanta & Saint Andrews Bay Railway Company	138	6	1	70	0	215
BOCT	Baltimore & Ohio Chicago Terminal Railroad	148	30	84	39	7	308
BAR	Bangor And Aroostook Railroad	167	9	22	479	3	680
BLE	Bessemer & Lake Erie Railroad Company	141	35	49	99	2	326
BLOL	Bloomer Shippers Connecting Railroad Co.	104	0	0	49	1	154
BM	Boston And Maine Corporation	992	466	228	520	55	2,261
BN	Burlington Northern Railroad Company	21,806	1,552	1,245	15,745	352	40,700
CSP	Canas Prairie Railroad Company	112	2	13	109	2	238
CN	Canadian National Railways	190	14	11	167	1	383
CIC	Cedar Rapids And Iowa City Railway Company	101	16	6	92	4	219
CVAR	Cedar Valley Railroad	174	6	3	104	0	287
CMGN	Central Michigan Railway Company	478	29	12	242	9	770
CV	Central Vermont Railway, Inc.	210	55	48	271	10	594
CIW	Chicago & Illinois Midland Railway Company	112	4	4	65	0	185
CNH	Chicago And North Western Transportation Co.	7,444	645	782	5,003	188	14,062
CMNW	Chicago Missouri & Western Railway	646	77	71	372	41	1,207
CSS	Chicago South Shore And South Bend Railroad	126	13	18	78	3	188
CC	Chicago, Central & Pacific Railroad Company	934	89	79	769	27	1,898
MIL4	Chicago, Milwaukee, St. Paul & Pacific RR	777	59	137	1,007	48	2,028
CAGY	Columbus And Greenville Railway Company	337	4	1	314	3	659
CR	Consolidated Rail Corporation	15,428	3,370	3,555	8,461	451	31,265
CSX	CSX Transportation	26,412	2,960	2,164	16,985	580	49,101
DME	Dakota, Minnesota & Eastern Railroad	874	22	33	618	2	1,549
DH	Delaware And Hudson Railroad Company	370	99	115	587	29	1,200
DRGW	Denver And Rio Grande Western Railroad Co.	897	135	69	684	8	1,793
DOD	Department Of Defense	326	8	5	225	5	564
DM	Detroit And Mackinac Railway Company	430	1	1	207	10	656
DMR	Duluth, Missabe And Iron Range Railway Co.	194	26	33	147	8	408
EJE	Elgin, Joliet And Eastern Railway Company	201	31	28	102	0	362
ELS	Escanaba And Lake Superior Railroad Company	268	4	2	163	4	441
FCEN	Florida Central Railroad Co.	122	2	4	48	2	178
FEC	Florida East Coast Railway Company	717	28	6	82	9	842
GHH	Galveston, Houston & Henderson Railroad Co.	105	6	7	22	2	142
GTW	Grand Trunk Western Railroad Company	1,203	93	162	505	22	1,985
GBH	Green Bay And Western Railroad Company	318	10	3	251	0	582
GSMR	Gulf And Mississippi Railroad Corporation	681	52	29	460	2	1,224
HBT	Houston Belt & Terminal Railway Company	237	19	15	57	5	333
HESR	Huron & Eastern Railway	112	0	0	89	0	201
ICG	Illinois Central Gulf Railroad Company	3,250	364	353	1,980	95	6,042
IHRG	Indiana Hi-Rail Corporation	236	6	2	118	2	364
INRD	Indiana Rail Road Company	125	21	34	89	1	270
IATS	Iowa Interstate Railroad	455	57	42	342	7	903
IAHR	Iowa Northern Railway Company	221	5	5	119	0	350
KCS	Kansas City Southern Railway Company	1,006	97	78	478	8	1,667
LI	Long Island Rail Road	306	294	105	82	88	875
LA	Louisiana & Arkansas Railway Company	723	60	33	567	5	1,388
MEC	Maine Central Railroad Company	141	17	13	97	2	270
MDDE	Maryland And Delaware Railroad Company	106	1	0	137	1	245
MPA	Maryland And Pennsylvania Railroad Company	109	6	5	21	1	142
MDT	Maryland Dept. Of Transportation	116	3	1	96	1	217
MSRC	Mid South Rail Corp.	515	72	25	272	2	886
MRR	Mid-Atlantic Railroad Company, Incorporated	114	4	0	128	2	248
MMRR	Mid-Michigan Railroad Company	124	4	0	90	3	221
MSPA	Mississippi Port Authority	418	19	21	185	1	644
MRVA	Minnesota Valley Transportation Company, Inc.	104	2	0	101	1	208
MKT	Missouri-Kansas-Texas Railroad Company	1,987	170	157	928	8	3,250
NERR	Nashville & Eastern Railroad	173	10	10	144	1	338
NJTR	New Jersey Transit Rail Operations	442	197	296	107	63	1,105
NOFB	New Orleans Public Belt Railroad	117	6	8	164	2	297
NYSW	New York, Susquehanna And Western Railroad	220	23	9	225	4	481
NW	Norfolk And Western Railway Company	7,506	768	1,029	5,803	110	15,216
NWP	Northwestern Pacific Railroad Company	122	26	4	188	7	347
ODOT	Oklahoma Department Of Transportation	757	37	28	266	1	1,089
OKKT	Oklahoma Kansas & Texas Railroad Company	304	17	8	119	1	449
OT&N	Ottawa, Trail Valley Railway Co., Inc.	144	11	10	148	1	314
PAI	Paducah & Louisville Railway Company	264	57	50	219	2	592
PLE	Pittsburgh & Lake Erie Railroad Company	109	53	35	114	18	329
PACY	Prairie Central Railway Company	106	13	2	37	0	158
PARY	Prairie Trunk Railway	273	1	0	61	1	336
PW	Providence And Worcester Railroad Company	172	65	46	122	8	413
RRVW	Red River Valley & Western Railroad	750	4	3	309	0	1,066
SGLR	Seminole Gulf Railroad	157	6	0	22	0	185
SOD	Soo Line Railroad Company	4,683	356	304	2,507	75	7,925
SDRR	South Dakota Railroad Authority	913	46	20	614	2	1,595
SEPA	Southeastern Pennsylvania Transp. Authority	258	111	171	72	50	662
SP	Southern Pacific Transportation Company	10,583	994	629	7,317	237	19,760
SOU	Southern Railway Company	12,440	1,336	757	7,725	68	22,326
SI	Spokane International Railroad Company	166	13	2	53	2	236
ST	Springfield Terminal Railway Company	365	51	24	299	5	744
SSW	St. Louis Southwestern Railway Company	2,262	129	91	977	2	3,461
SUB	State Subsidy	272	35	31	148	2	488
TRRA	Terminal Railroad Association Of St. Louis	167	50	34	15	1	267
TM	Texas Mexican Railway Company	238	9	2	195	0	444
TRWY	Tradewater Railway Company	108	0	2	108	0	218
TSBY	Tuscola And Saginaw Bay Railroad Company, Inc	611	20	7	242	9	889
UP	Union Pacific Railroad Company	19,877	1,380	864	13,757	193	36,071
WCRC	Washington Central Railroad Company	359	17	13	337	0	726
WW	Winchester And Western Railroad Company	117	7	3	69	5	196
WSRY	Wisconsin And Southern Railway Company	243	6	6	164	5	424
WICT	Wisconsin Calumet Railroad	421	30	13	358	12	834
WC	Wisconsin Central Ltd.	1,862	81	49	1,114	27	3,133
WAL	All Other Railroads	11,798	1,171	1,233	9,091	325	23,618
TOTALS		185,643	19,591	16,891	121,419	3,542	347,086

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

State	Urban	Rural	Total
Alabama.....	2,119	2,517	4,636
Alaska.....	88	130	218
Arizona.....	499	477	976
Arkansas.....	1,372	2,134	3,506
California.....	6,199	2,282	8,481
Colorado.....	810	1,464	2,274
Connecticut.....	394	105	499
Delaware.....	78	172	250
Dist of Columbia.	37	---	37
Florida.....	2,611	1,777	4,388
Georgia.....	2,451	4,383	6,834
Hawaii.....	---	6	6
Idaho.....	320	1,463	1,783
Illinois.....	4,143	6,957	11,100
Indiana.....	3,359	4,385	7,744
Iowa.....	1,881	4,291	6,172
Kansas.....	1,580	7,186	8,766
Kentucky.....	991	2,490	3,481
Louisiana.....	1,953	2,527	4,480
Maine.....	237	714	951
Maryland.....	449	455	904
Massachusetts....	846	351	1,197
Michigan.....	2,609	3,768	6,377
Minnesota.....	1,675	4,576	6,251
Mississippi.....	1,102	1,936	3,038
Missouri.....	1,862	3,733	5,595
Montana.....	324	1,370	1,694
Nebraska.....	684	3,845	4,529
Nevada.....	68	224	292
New Hampshire....	231	282	513
New Jersey.....	1,404	545	1,949
New Mexico.....	242	578	820
New York.....	1,657	1,857	3,514
North Carolina...	2,071	2,927	4,998
North Dakota.....	321	4,744	5,065
Ohio.....	4,075	4,626	8,701
Oklahoma.....	322	4,671	4,993
Oregon.....	1,189	1,472	2,661
Pennsylvania.....	3,000	2,746	5,746
Rhode Island.....	123	5	128
South Carolina...	1,402	2,441	3,843
South Dakota.....	260	1,906	2,166
Tennessee.....	1,654	2,407	4,061
Texas.....	7,342	6,403	13,745
Utah.....	602	492	1,094
Vermont.....	168	358	526
Virginia.....	1,167	1,349	2,516
Washington.....	1,763	1,783	3,546
West Virginia....	506	1,921	2,427
Wisconsin.....	2,303	3,240	5,543
Wyoming.....	68	504	572
Puerto Rico.....	8	47	55
Total.....	72,619	113,022	185,641

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

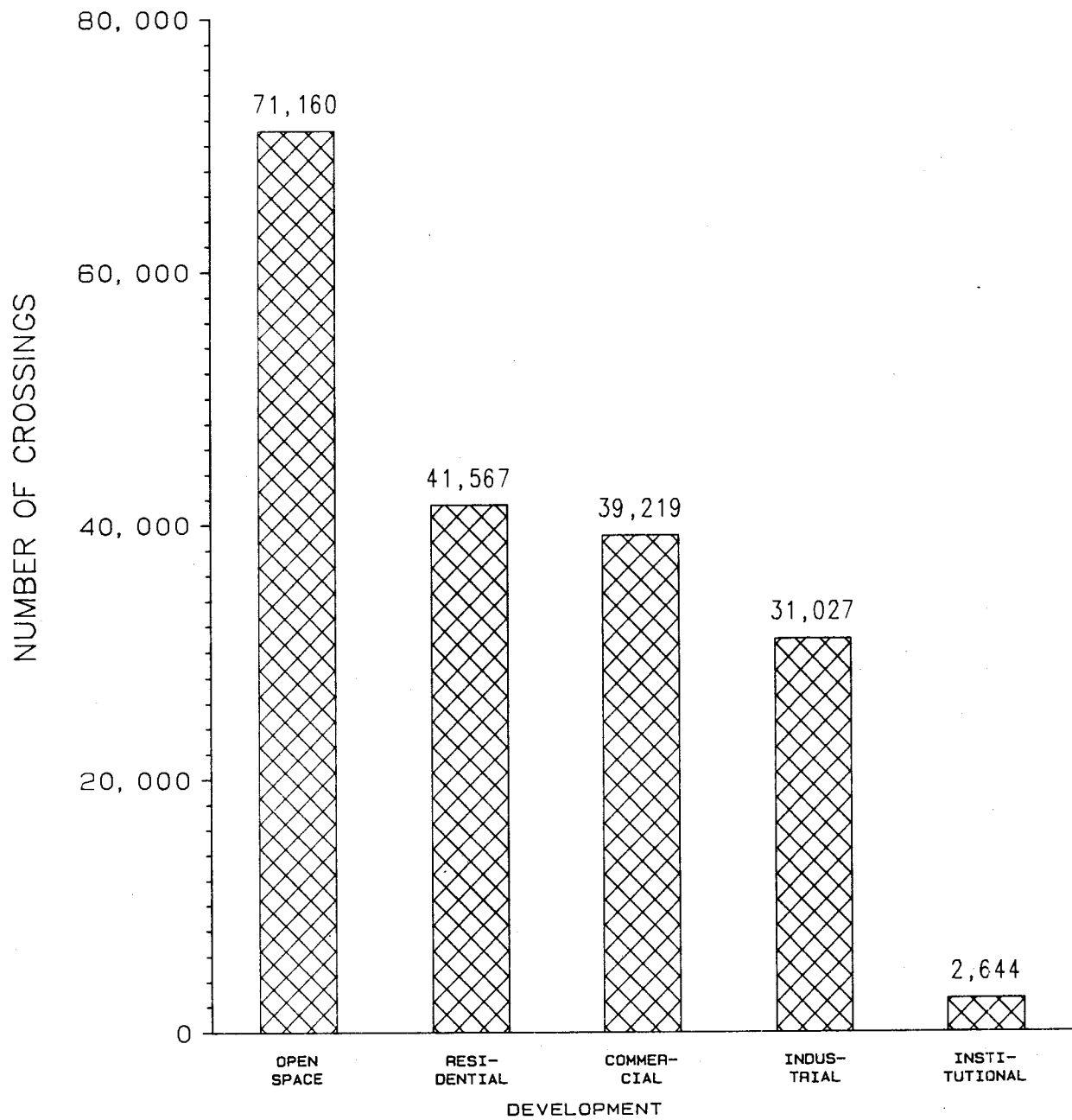


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

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	28	108,473	9,586	323	89	6	4	118,509
1	20,094	23,666	2,895	104	19	---	---	46,778
2	4,637	7,756	1,229	98	18	2	1	13,741
3	1,347	2,301	405	51	22	1	---	4,127
4	369	782	186	13	12	5	---	1,367
5	156	304	90	9	3	2	2	566
>5	149	306	87	1	4	1	5	553
Total	26,780	143,588	14,478	599	167	17	12	185,641

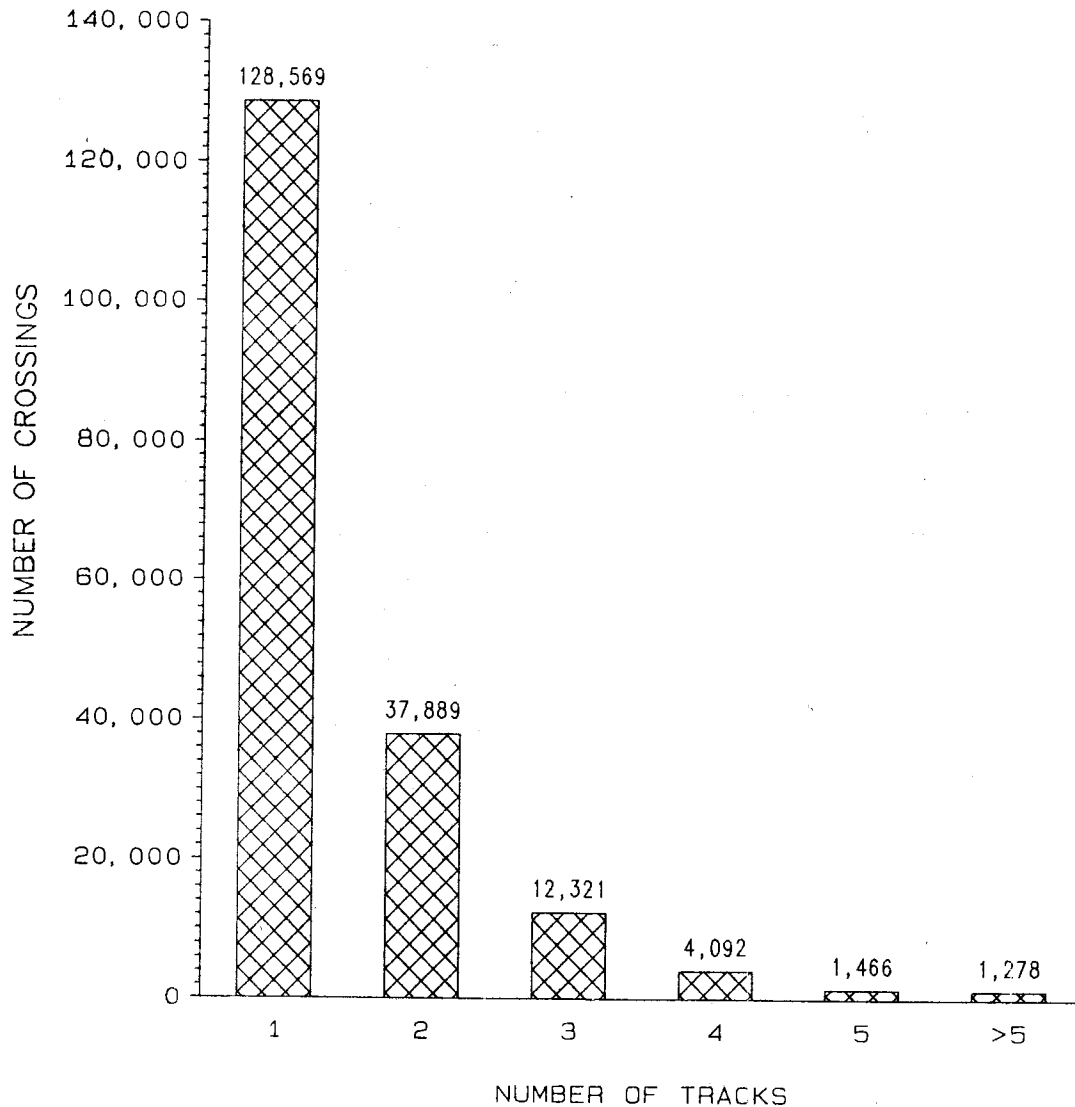


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

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.....	9,438	8,484	3,467	1,306	509	473	23,677
Flashing lights.....	21,605	6,501	2,340	806	289	249	31,790
Way signals, wigwags, bells	1,270	497	185	66	32	14	2,064
Special warning devices.....	4,349	1,186	402	152	62	65	6,216
Crossbucks.....	83,172	19,190	5,371	1,576	506	428	110,243
Stop signs.....	679	173	45	13	5	8	923
Other signs.....	453	131	36	10	9	7	656
No signs or signals.....	7,599	1,727	475	155	54	62	10,072
Total.....	128,567	37,889	12,321	4,092	1,466	1,306	185,641

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

Traffic Lanes	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
1	23,721	4,696	898	223	55	68	29,661
2	97,215	30,436	10,406	3,498	1,269	1,104	143,928
3	728	322	112	41	15	16	1,234
4	6,049	2,199	828	304	115	111	9,606
5	372	105	34	15	6	1	533
>5	482	131	43	11	6	6	679
Total	128,567	37,889	12,321	4,092	1,466	1,306	185,641

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,374	802	306	85	34	35	4,636
Alaska.....	176	33	6	1	1	1	218
Arizona.....	706	180	63	16	7	4	976
Arkansas.....	2,409	738	240	69	30	20	3,506
California.....	5,852	1,633	600	205	98	93	8,481
Colorado.....	1,629	448	126	36	18	17	2,274
Connecticut.....	371	93	23	8	4	---	499
Delaware.....	204	32	9	3	2	---	250
Dist of Columbia.....	28	7	2	---	---	---	37
Florida.....	2,394	1,177	485	143	96	93	4,388
Georgia.....	5,000	1,255	369	134	36	40	6,834
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,233	336	122	50	20	22	1,783
Illinois.....	6,626	2,994	966	326	109	99	11,100
Indiana.....	5,442	1,727	389	117	38	31	7,744
Iowa.....	4,204	1,234	485	154	48	47	6,172
Kansas.....	6,375	1,435	615	210	67	64	8,766
Kentucky.....	2,329	828	216	72	16	20	3,481
Louisiana.....	3,231	848	260	86	28	27	4,480
Maine.....	733	162	39	12	4	1	951
Maryland.....	639	194	42	19	3	7	904
Massachusetts.....	941	190	42	15	5	4	1,197
Michigan.....	4,388	1,380	371	144	46	48	6,377
Minnesota.....	4,463	1,150	413	132	47	46	6,251
Mississippi.....	2,037	640	213	90	29	29	3,038
Missouri.....	3,675	1,178	490	145	53	54	5,595
Montana.....	1,221	317	106	29	10	11	1,694
Nebraska.....	3,007	983	329	121	51	38	4,529
Nevada.....	192	71	16	5	3	5	292
New Hampshire.....	436	67	7	2	1	---	513
New Jersey.....	1,386	415	111	18	11	8	1,949
New Mexico.....	577	163	50	19	4	7	820
New York.....	2,400	828	194	57	16	19	3,514
North Carolina.....	3,602	928	289	113	34	32	4,998
North Dakota.....	4,099	681	224	40	17	4	5,065
Ohio.....	4,828	2,583	795	328	101	66	8,701
Oklahoma.....	3,704	744	336	119	44	46	4,993
Oregon.....	1,958	481	173	34	11	4	2,661
Pennsylvania.....	3,732	1,411	375	144	44	40	5,746
Rhode Island.....	86	36	6	---	---	---	128
South Carolina.....	2,857	702	201	45	25	13	3,843
South Dakota.....	1,725	277	109	38	10	7	2,166
Tennessee.....	2,735	891	286	85	31	33	4,061
Texas.....	10,162	2,399	745	260	94	85	13,745
Utah.....	745	223	79	19	19	9	1,094
Vermont.....	426	76	17	3	---	4	526
Virginia.....	1,633	602	186	64	20	11	2,516
Washington.....	2,428	669	289	107	28	25	3,546
West Virginia.....	1,735	493	156	27	6	10	2,427
Wisconsin.....	3,986	1,032	331	125	43	26	5,543
Wyoming.....	389	121	39	18	4	1	572
Puerto Rico.....	53	2	---	---	---	---	55
Total.....	128,567	37,889	12,321	4,092	1,466	1,306	185,641

HIGHWAY SYSTEM DATA

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

State	01	02	03	04	08	Total
Alabama.....	---	228	420	358	3,630	4,636
Alaska.....	---	21	14	32	151	218
Arizona.....	12	31	186	72	675	976
Arkansas.....	2	138	1,079	166	2,121	3,506
California.....	---	1,052	845	660	5,924	8,481
Colorado.....	---	87	412	106	1,669	2,274
Connecticut.....	---	30	186	19	264	499
Delaware.....	---	33	11	111	95	250
Dist of Columbia.....	---	4	---	2	31	37
Florida.....	---	309	789	140	3,150	4,388
Georgia.....	3	416	166	816	5,433	6,834
Hawaii.....	---	---	---	---	6	6
Idaho.....	---	45	104	138	1,496	1,783
Illinois.....	---	665	1,454	844	8,137	11,100
Indiana.....	---	285	465	1,353	5,641	7,744
Iowa.....	3	360	781	554	4,474	6,172
Kansas.....	---	351	441	1,145	6,829	8,766
Kentucky.....	2	107	309	309	2,754	3,481
Louisiana.....	1	165	36	429	3,849	4,480
Maine.....	---	81	20	95	755	951
Maryland.....	---	57	223	73	551	904
Massachusetts.....	---	116	315	122	644	1,197
Michigan.....	4	281	752	967	4,373	6,377
Minnesota.....	1	235	117	985	4,913	6,251
Mississippi.....	1	132	222	429	2,254	3,038
Missouri.....	3	111	274	672	4,535	5,595
Montana.....	1	68	74	131	1,420	1,694
Nebraska.....	---	222	294	507	3,506	4,529
Nevada.....	---	18	9	24	241	292
New Hampshire.....	---	8	155	43	307	513
New Jersey.....	---	64	195	159	1,531	1,949
New Mexico.....	---	23	60	56	681	820
New York.....	---	208	20	603	2,683	3,514
North Carolina.....	---	112	212	369	4,305	4,998
North Dakota.....	1	173	94	620	4,177	5,065
Ohio.....	---	360	1,083	887	6,371	8,701
Oklahoma.....	---	158	316	411	4,108	4,993
Oregon.....	---	150	309	278	1,904	2,641
Pennsylvania.....	71	531	895	673	3,576	5,746
Rhode Island.....	---	6	47	14	61	128
South Carolina.....	1	265	234	449	2,894	3,843
South Dakota.....	---	98	90	261	1,717	2,166
Tennessee.....	---	174	12	372	3,503	4,061
Texas.....	84	371	1,462	858	10,970	13,745
Utah.....	1	17	5	140	931	1,094
Vermont.....	---	50	30	64	382	526
Virginia.....	---	105	338	398	1,675	2,516
Washington.....	---	76	206	514	2,750	3,546
West Virginia.....	---	146	50	418	1,813	2,427
Wisconsin.....	---	349	854	402	3,938	5,543
Wyoming.....	---	29	21	55	467	572
Puerto Rico.....	---	14	---	3	38	55
Total.....	191	9,135	16,686	19,306	140,303	185,621

HIGHWAY SYSTEM CODES

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

See Appendix A for explanation of revision in codes.

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE

State	HIGHWAY SYSTEM GROUP		
	On-State	Off-State	Total
Alabama.....	318	4,318	4,636
Alaska.....	94	124	218
Arizona.....	56	920	976
Arkansas.....	581	2,925	3,506
California.....	342	8,139	8,481
Colorado.....	254	2,020	2,274
Connecticut.....	90	409	499
Delaware.....	239	11	250
Dist of Columbia.	36	1	37
Florida.....	487	3,901	4,388
Georgia.....	788	6,046	6,834
Hawaii.....	---	6	6
Idaho.....	123	1,660	1,783
Illinois.....	1,376	9,724	11,100
Indiana.....	708	7,036	7,744
Iowa.....	365	5,807	6,172
Kansas.....	482	8,284	8,766
Kentucky.....	978	2,503	3,481
Louisiana.....	955	3,525	4,480
Maine.....	189	762	951
Maryland.....	153	751	904
Massachusetts....	45	1,152	1,197
Michigan.....	380	5,997	6,377
Minnesota.....	351	5,900	6,251
Mississippi.....	280	2,758	3,038
Missouri.....	768	4,827	5,595
Montana.....	250	1,444	1,694
Nebraska.....	347	4,182	4,529
Nevada.....	57	235	292
New Hampshire....	116	397	513
New Jersey.....	187	1,762	1,949
New Mexico.....	177	643	820
New York.....	363	3,151	3,514
North Carolina...	3,195	1,803	4,998
North Dakota.....	242	4,823	5,065
Ohio.....	1,175	7,526	8,701
Oklahoma.....	379	4,614	4,993
Oregon.....	180	2,481	2,661
Pennsylvania.....	1,877	3,869	5,746
Rhode Island.....	29	99	128
South Carolina...	2,721	1,122	3,843
South Dakota.....	147	2,019	2,166
Tennessee.....	272	3,789	4,061
Texas.....	2,638	11,107	13,745
Utah.....	119	975	1,094
Vermont.....	129	397	526
Virginia.....	1,563	953	2,516
Washington.....	198	3,348	3,546
West Virginia....	1,474	953	2,427
Wisconsin.....	451	5,092	5,543
Wyoming.....	89	483	572
Puerto Rico.....	38	17	55
Total.....	28,851	156,790	185,641

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

Rural	Crossings	Urban	Crossings
Interstate.....	17	Interstate.....	143
Other principal arterial	1,365	Other freeway/expressway	438
Minor arterial.....	4,036	Other principal arterial	6,969
Major collector.....	12,788	Minor arterial.....	12,031
Minor collector.....	11,189	Collector.....	11,805
Local.....	83,607	Local.....	41,233
Total.....	113,002	Total.....	72,619

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.....	958	3,413	24	221	8	12	4,636
Alaska.....	16	184	2	14	2	---	218
Arizona.....	18	820	13	89	20	16	976
Arkansas.....	763	2,662	17	63	---	1	3,506
California.....	451	5,933	173	1,571	146	207	8,481
Colorado.....	189	1,912	23	135	11	4	2,274
Connecticut.....	31	435	8	22	3	---	499
Delaware.....	2	225	4	18	---	1	250
Dist of Columbia.....	1	30	1	2	1	2	37
Florida.....	177	3,612	108	342	69	80	4,388
Georgia.....	1,388	5,202	28	208	1	7	6,834
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	467	1,239	9	64	2	2	1,783
Illinois.....	2,332	8,018	47	673	11	19	11,100
Indiana.....	1,390	5,936	53	335	11	19	7,744
Iowa.....	736	5,165	44	218	5	4	6,172
Kansas.....	2,181	6,290	6	287	---	2	8,766
Kentucky.....	1,117	2,298	8	58	---	---	3,481
Louisiana.....	650	3,597	12	197	8	16	4,480
Maine.....	52	885	3	11	---	---	951
Maryland.....	109	717	7	63	3	5	904
Massachusetts.....	44	1,088	8	56	1	---	1,197
Michigan.....	448	5,282	58	517	32	40	6,377
Minnesota.....	1,068	4,891	17	270	3	2	6,251
Mississippi.....	384	2,541	8	98	2	5	3,038
Missouri.....	1,383	4,059	12	133	4	4	5,595
Montana.....	212	1,451	3	25	2	1	1,694
Nebraska.....	1,041	3,397	8	80	1	2	4,529
Nevada.....	101	164	1	25	---	1	292
New Hampshire.....	32	459	2	17	2	1	513
New Jersey.....	102	1,697	13	131	---	6	1,949
New Mexico.....	269	507	1	37	3	3	820
New York.....	328	3,033	23	124	3	3	3,514
North Carolina.....	287	4,461	36	192	13	9	4,998
North Dakota.....	1,117	3,912	1	35	---	---	5,065
Ohio.....	1,206	7,095	59	315	13	13	8,701
Oklahoma.....	904	3,812	6	264	5	2	4,993
Oregon.....	326	2,163	54	89	23	6	2,661
Pennsylvania.....	888	4,529	120	180	2	27	5,746
Rhode Island.....	2	102	---	24	---	---	128
South Carolina.....	446	3,144	3	237	5	8	3,843
South Dakota.....	641	1,479	---	39	4	3	2,166
Tennessee.....	744	3,072	20	203	16	6	4,061
Texas.....	2,374	10,005	75	1,137	55	99	13,745
Utah.....	208	814	---	66	1	5	1,094
Vermont.....	118	396	5	7	---	---	526
Virginia.....	33	2,337	22	103	10	11	2,516
Washington.....	327	2,791	67	316	31	14	3,546
West Virginia.....	1,222	1,184	9	11	---	1	2,427
Wisconsin.....	250	5,017	11	255	---	10	5,543
Wyoming.....	126	414	2	29	1	---	572
Puerto Rico.....	2	53	---	---	---	---	55
Total.....	29,661	143,928	1,234	9,606	533	679	185,641

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.....	465	19,243	373	3,057	252	287	23,677
Flashing lights.....	739	26,797	366	3,462	194	232	31,790
Hwy. signals, wigwags, bells	157	1,606	38	210	18	35	2,064
Special warning devices.....	430	5,089	116	538	13	30	6,216
Crossbucks.....	25,070	82,940	260	1,858	40	75	110,243
Stop signs.....	178	712	4	27	---	2	923
Other signs.....	144	489	2	19	---	2	656
No signs or signals.....	2,478	7,052	75	435	16	16	10,072
Total.....	29,661	143,928	1,234	9,606	533	679	185,641

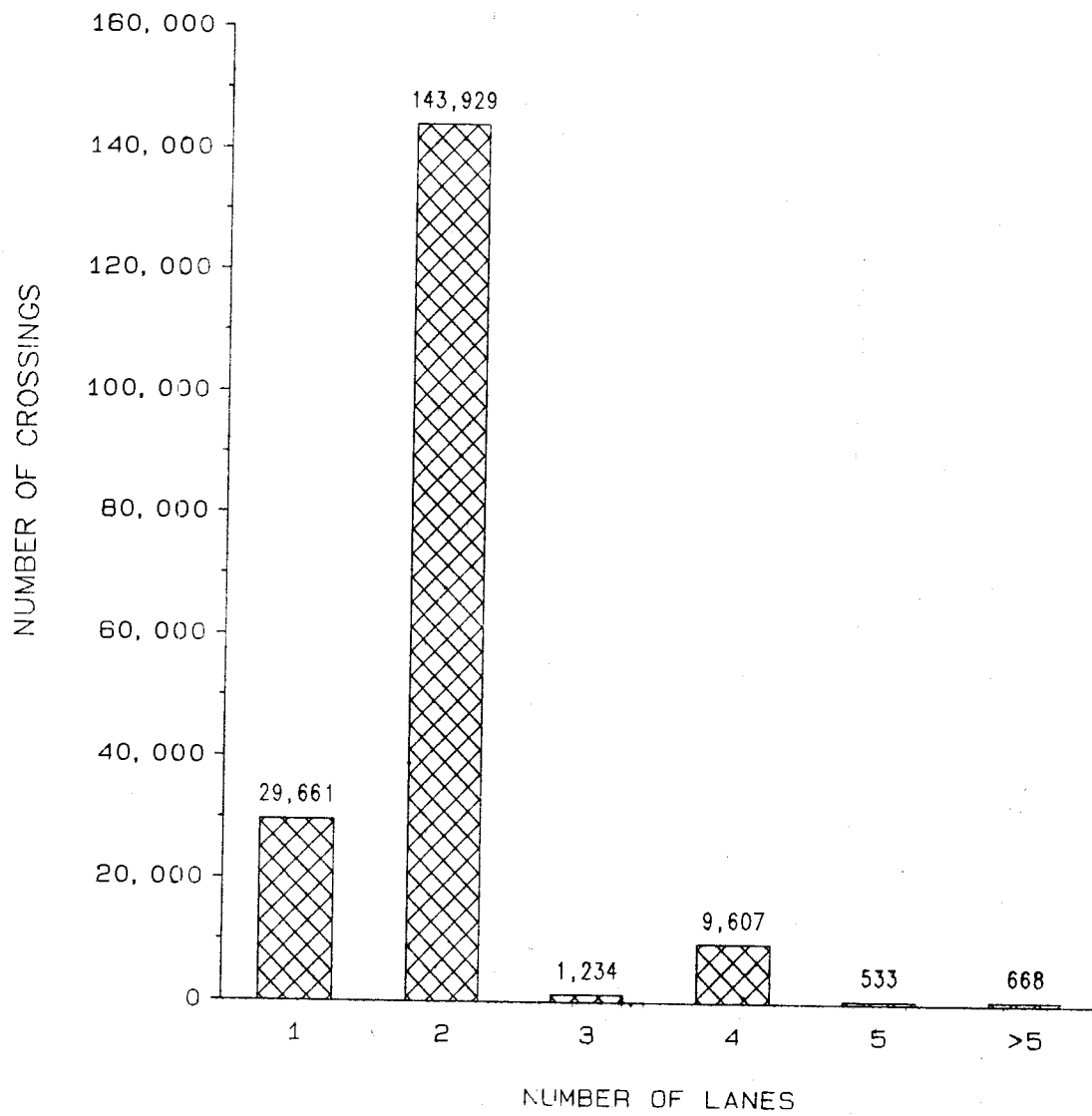


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	Total
Alabama.....	199	622	22	57	3,208	72	10	446	4,636
Alaska.....	7	62	---	12	117	5	---	15	218
Arizona.....	279	82	10	73	501	3	---	28	976
Arkansas.....	254	475	23	83	2,513	9	---	149	3,506
California.....	2,992	1,141	347	189	3,547	71	19	175	8,481
Colorado.....	224	329	41	64	1,488	6	2	120	2,274
Connecticut.....	58	169	7	93	61	9	---	100	499
Delaware.....	30	130	2	22	60	---	---	6	250
Dist of Columbia.....	---	4	---	5	19	5	1	3	37
Florida.....	1,910	771	19	131	1,481	5	4	67	4,388
Georgia.....	1,215	454	18	169	4,506	10	11	451	6,834
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	77	200	9	21	1,249	70	5	152	1,783
Illinois.....	1,894	2,692	159	279	5,612	1	4	459	11,100
Indiana.....	967	1,937	122	213	4,254	19	11	221	7,744
Iowa.....	554	1,043	58	84	4,220	5	2	206	6,172
Kansas.....	505	743	81	219	7,004	2	---	210	8,766
Kentucky.....	328	872	23	95	1,801	5	---	357	3,481
Louisiana.....	264	771	12	68	2,991	26	20	328	4,480
Maine.....	68	372	1	106	396	---	1	7	951
Maryland.....	93	208	27	57	411	3	5	100	904
Massachusetts.....	188	452	38	228	235	2	3	51	1,197
Michigan.....	674	1,612	50	174	3,757	8	4	98	6,377
Minnesota.....	423	776	16	55	4,730	50	3	198	6,251
Mississippi.....	76	394	15	57	1,969	223	12	292	3,038
Missouri.....	371	1,110	99	142	3,480	14	2	377	5,595
Montana.....	141	195	2	24	1,232	3	---	97	1,694
Nebraska.....	487	428	11	19	3,390	15	1	178	4,529
Nevada.....	78	27	1	6	168	1	1	10	292
New Hampshire.....	31	143	11	117	179	7	7	18	513
New Jersey.....	393	646	29	313	445	6	2	115	1,949
New Mexico.....	154	102	6	11	525	---	5	17	820
New York.....	1,199	775	89	313	1,016	3	25	94	3,514
North Carolina.....	706	757	12	238	2,812	18	18	437	4,998
North Dakota.....	279	160	2	5	4,341	3	---	275	5,065
Ohio.....	1,044	2,002	63	102	5,181	12	13	284	8,701
Oklahoma.....	287	741	34	136	3,634	3	8	150	4,993
Oregon.....	520	160	61	107	1,476	64	61	212	2,661
Pennsylvania.....	683	1,237	120	673	2,167	78	300	488	5,746
Rhode Island.....	14	32	20	23	12	5	---	22	128
South Carolina.....	332	537	3	287	2,502	2	15	165	3,843
South Dakota.....	7	160	2	2	1,899	---	1	95	2,166
Tennessee.....	223	640	19	274	2,113	26	2	764	4,061
Texas.....	1,761	2,356	84	164	8,517	24	14	825	13,745
Utah.....	103	196	10	100	570	3	45	67	1,094
Vermont.....	28	205	4	39	249	---	---	1	526
Virginia.....	570	519	19	198	1,027	1	3	179	2,516
Washington.....	291	466	37	71	2,227	15	4	435	3,546
West Virginia.....	172	439	8	49	1,431	8	5	315	2,427
Wisconsin.....	428	1,309	214	197	3,206	1	1	186	5,543
Wyoming.....	92	136	2	4	308	---	---	27	572
Puerto Rico.....	4	1	---	48	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	23,677	31,790	2,064	6,216	110,243	923	656	10,072	185,641

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

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD

		WARNING DEVICE CATEGORY								
Railroad		Gates	Flashing Lights	Hwy. Sig. Wgways Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
AFLR	Alabama And Florida Railroad	2	9	0	0	121	0	0	11	143
ARR	Alaska Railroad Corporation	7	62	0	12	114	5	0	14	214
ALY	Alleghany Railroad	14	41	2	0	55	9	10	2	133
ATK	Amtrak (National Railroad Passenger Corp)	109	15	0	7	17	0	2	2	152
AM	Arkansas And Missouri Railroad Company	4	33	4	3	198	0	0	10	252
ATSF	Atchison, Topeka And Santa Fe Railway Co.)	1,879	1,514	171	497	7,182	7	10	42	11,302
ASAB	Atlanta & Saint Andrews Bay Railway Company	20	36	0	0	82	0	0	0	138
BOCT	Baltimore & Ohio Chicago Terminal Railroad	55	49	1	19	20	0	0	0	148
BAR	Bangor And Aroostook Railroad	4	87	0	0	68	0	0	0	167
BLE	Bessemer & Lake Erie Railroad Company	36	27	0	0	73	0	0	2	141
BLOL	Bloomer Shippers Connecting Railroad Co.	0	2	0	0	171	0	0	1	104
BM	Boston And Maine Corporation	211	231	22	199	274	1	4	50	992
BN	Burlington Northern Railroad Company	2,136	2,663	125	332	15,228	112	34	1,176	21,806
CSP	Camas Prairie Railroad Company	4	8	0	0	100	0	0	0	112
CN	Canadian National Railways	15	59	0	3	113	0	0	0	190
CIC	Cedar Rapids And Iowa City Railway Company	1	26	0	15	52	0	0	7	101
CVAR	Cedar Valley Railroad	2	24	1	0	147	0	0	0	174
CMGN	Central Michigan Railway Company	14	162	5	34	259	0	0	4	478
CV	Central Vermont Railway, Inc.	21	110	1	0	74	1	1	2	210
CIM	Chicago & Illinois Midland Railway Company	6	44	1	3	58	0	0	0	112
CNH	Chicago And North Western Transportation Co.	695	1,438	222	130	4,643	6	5	305	7,444
CMNH	Chicago Missouri & Western Railway	105	164	34	4	326	0	0	13	646
CSS	Chicago South Shore And South Bend Railroad	35	44	7	0	38	1	0	1	126
CC	Chicago, Central & Pacific Railroad Company	62	262	16	34	519	2	0	39	934
MILW	Chicago, Milwaukee, St. Paul & Pacific RR	124	156	14	42	327	1	0	113	777
CAGY	Columbus And Greenville Railway Company	3	51	0	5	257	14	0	7	337
CR	Consolidated Rail Corporation	2,500	4,019	253	1,259	5,938	83	303	1,073	15,428
CSX	CSX Transportation	3,747	4,951	123	838	15,075	80	27	1,571	26,412
DME	Dakota, Minnesota & Eastern Railroad	5	104	3	0	723	2	0	37	874
DH	Delaware And Hudson Railroad Company	151	103	3	12	92	1	5	3	370
DRGW	Denver And Rio Grande Western Railroad Co.	78	188	2	8	544	3	3	71	897
DOD	Department Of Defense	36	63	2	61	122	4	16	22	326
DM	Detroit And Mackinac Railway Company	0	62	4	0	364	0	0	0	430
DMIR	Duluth, Missabe And Iron Range Railway Co.	8	38	0	4	142	1	1	0	194
EJE	Elgin, Joliet And Eastern Railway Company	78	64	2	10	47	0	0	0	201
ELS	Esacnaba And Lake Superior Railroad Company	3	65	1	45	150	0	1	3	268
FCEN	Florida Central Railroad Co.	19	15	0	1	86	0	0	1	122
FEC	Florida East Coast Railway Company	607	28	0	35	41	0	0	6	717
GHH	Galveston, Houston & Henderson Railroad Co.	24	31	0	0	26	1	0	23	105
GTW	Grand Trunk Western Railroad Company	315	314	4	54	508	1	0	7	1,203
GBW	Green Bay And Western Railroad Company	8	84	0	1	221	0	0	4	318
GSMR	Gulf And Mississippi Railroad Corporation	1	39	0	1	556	33	2	49	681
HBT	Houston Belt & Terminal Railway Company	67	43	4	6	92	0	0	25	237
HESR	Huron & Eastern Railway	0	7	0	0	102	0	0	3	112
ICG	Illinois Central Gulf Railroad Company	269	585	38	81	1,977	85	5	210	3,250
IHRC	Indiana Hi-Rail Corporation	4	67	13	0	145	1	0	6	236
INRD	Indiana Rail Road Company	0	20	9	0	90	0	0	6	125
IAIS	Iowa Interstate Railroad	96	64	9	1	283	0	0	2	455
IANR	Iowa Northern Railway Company	6	53	0	0	152	0	0	10	221
KCS	Kansas City Southern Railway Company	49	176	5	1	714	0	1	60	1,006
LI	Long Island Rail Road	298	0	0	0	7	0	0	1	306
LA	Louisiana & Arkansas Railway Company	31	174	0	0	502	0	0	16	723
MEC	Maine Central Railroad Company	9	45	0	28	59	0	0	0	141
MDDE	Maryland And Delaware Railroad Company	0	20	0	5	81	0	0	0	106
MPA	Maryland And Pennsylvania Railroad Company	18	17	0	0	59	8	5	2	109
MDT	Maryland Dept. Of Transportation	0	26	1	4	67	1	2	15	116
MSRC	Mid South Rail Corp.	9	82	3	3	328	38	0	52	515
MRR	Mid-Atlantic Railroad Company, Incorporated	4	7	0	3	96	0	0	4	114
MMRR	Mid-Michigan Railroad Company	3	25	4	1	89	0	0	2	124
MSPA	Midd States Port Authority	14	31	1	0	360	0	1	11	418
MNVA	Minnesota Valley Transportation Company, Inc.	0	2	0	0	99	0	0	3	104
MKT	Missouri-Kansas-Texas Railroad Company	206	391	18	19	1,241	3	1	108	1,987
NERR	Nashville & Eastern Railroad	0	26	1	1	129	0	0	16	173
NJTR	New Jersey Transit Rail Operations	219	138	1	29	46	0	0	11	442
NOBP	New Orleans Public Belt Railroad	4	13	0	0	9	6	16	69	117
NYSW	New York, Susquehanna And Western Railroad	67	74	20	15	34	0	0	10	220
NN	Norfolk And Western Railway Company	1,022	1,788	81	171	4,236	8	6	194	7,506
NWP	Northwestern Pacific Railroad Company	67	17	5	0	30	0	0	3	122
ODOT	Oklahoma Department Of Transportation	27	92	0	0	581	0	0	57	757
OKKT	Oklahoma Kansas & Texas Railroad Company	17	48	0	0	228	0	0	11	304
OTVR	Otter Tail Valley Railroad Co., Inc.	9	27	0	1	100	1	0	6	144
PAL	Paducah & Louisville Railway Company	15	80	7	0	148	1	0	13	264
PLE	Pittsburgh & Lake Erie Railroad Company	18	10	2	3	62	0	0	14	109
PACY	Prairie Central Railway Company	0	16	2	0	88	0	0	6	106
PARY	Prairie Trunk Railway	1	35	0	0	231	0	0	6	273
PW	Providence And Worcester Railroad Company	14	84	6	20	25	3	0	20	172
RRVW	Red River Valley & Western Railroad	13	22	0	0	662	1	0	52	750
SGLR	Seminole Gulf Railroad	52	35	0	1	67	0	0	2	157
SOD	Soe Line Railroad Company	335	575	40	69	3,481	9	0	174	4,683
SDRR	South Dakota Railroad Authority	5	61	0	0	804	0	1	42	913
SEPA	Southeastern Pennsylvania Transp. Authority	50	77	21	17	30	16	2	45	258
SP	Southern Pacific Transportation Company	2,989	1,256	312	46	5,371	63	20	526	10,583
SOU	Southern Railway Company	1,491	1,723	32	478	7,104	32	31	1,549	12,440
SI	Spokane International Railroad Company	9	11	1	0	121	9	1	14	166
ST	Springfield Terminal Railway Company	35	163	1	41	120	0	1	4	365
SSW	St. Louis Southwestern Railway Company	209	313	7	22	1,587	3	0	121	2,262
SUB	State Subsidy	5	90	23	13	129	3	4	5	272
TRRA	Terminal Railroad Association Of St. Louis	42	16	2	71	32	1	0	3	167
TM	Texas Mexican Railway Company	1	61	0	11	156	1	0	8	238
TWRY	Tradewater Railway Company	0	13	6	0	86	0	0	3	108
TSBY	Tuscola And Saginaw Bay Railroad Company, Inc	2	82	9	1	512	0	0	5	611
UP	Union Pacific Railroad Company	1,877	2,854	160	291	13,386	108	67	1,134	19,877
WCRC	Washington Central Railroad Company	25	44	4	0	265	0	0	21	359
WN	Winchester And Western Railroad Company	1	28	1	25	61	0	0	1	117
WSRY	Wisconsin And Southern Railway Company	1	72	6	0	153	0	0	11	243
WICT	Wisconsin Calumet Railroad	1	79	21	8	293	0	0	19	421
WC	Wisconsin Central Ltd.	85	466	21	29	1,242	1	1	17	1,862
	All Other Railroads	742	1,981	144	1,022	7,014	153	67	675	11,798
FINAL TOTALS		23,677	31,790	2,064	6,216	110,245	923	656	10,072	185,643

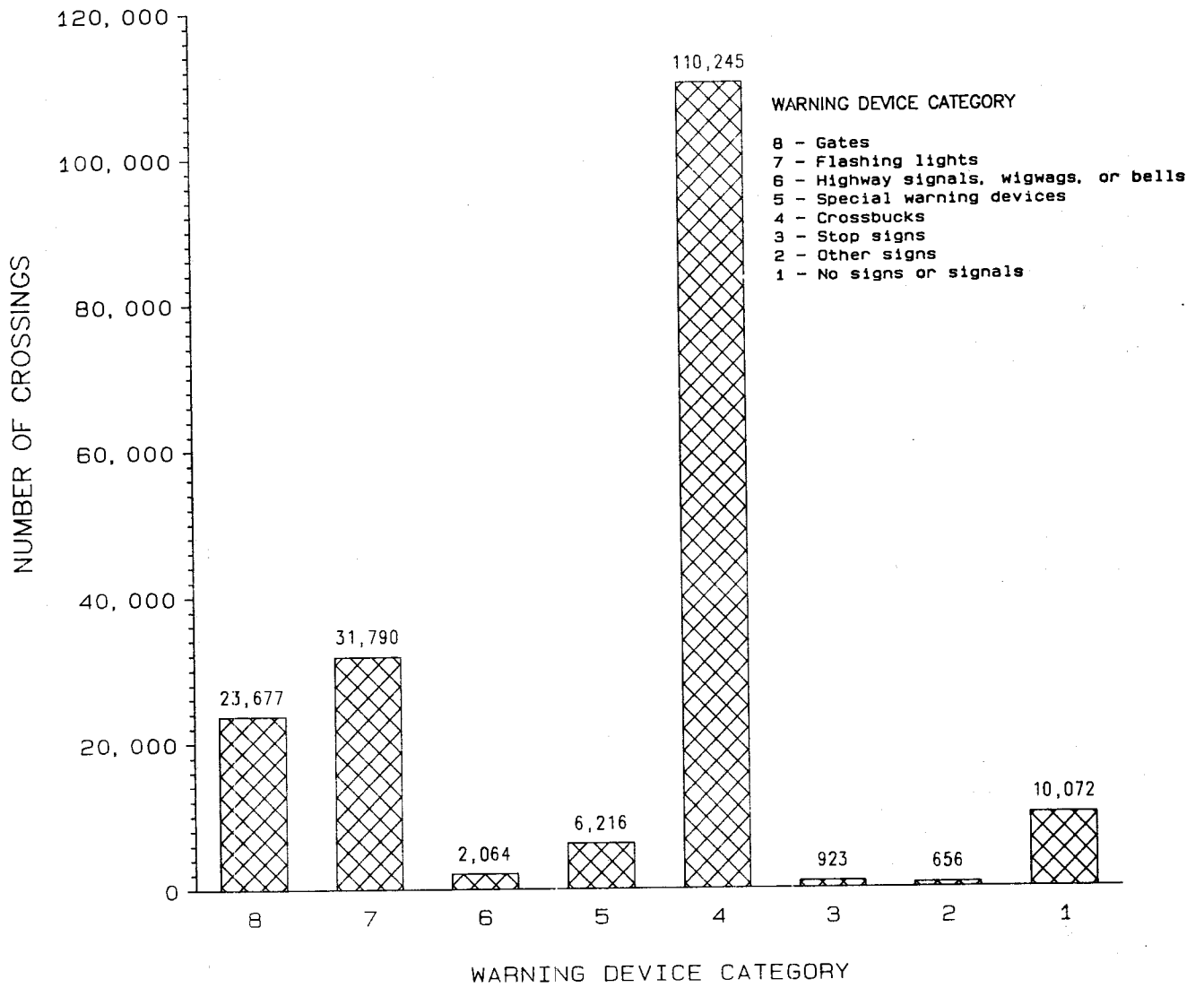


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

State	Stop Lines	RR X-ing Symbol	Both	PAVEMENT MARKING		Total
				Paved	None Unpaved	
Alabama.....	42	141	121	3,235	1,097	4,636
Alaska.....	2	12	30	81	93	218
Arizona.....	41	18	373	289	255	976
Arkansas.....	63	115	241	1,816	1,271	3,506
California.....	1,037	208	4,886	2,029	321	8,481
Colorado.....	22	39	240	1,109	864	2,274
Connecticut.....	18	4	97	374	6	499
Delaware.....	3	22	122	95	8	250
Dist of Columbia.....	---	---	23	14	---	37
Florida.....	259	311	2,066	1,245	507	4,388
Georgia.....	58	106	2,875	1,983	1,812	6,834
Hawaii.....	2	---	---	4	---	6
Idaho.....	4	5	287	781	706	1,783
Illinois.....	67	132	1,310	4,668	4,923	11,100
Indiana.....	113	445	1,283	4,678	1,225	7,744
Iowa.....	54	148	578	2,384	3,008	6,172
Kansas.....	3	22	822	2,396	5,523	8,766
Kentucky.....	56	483	654	1,406	882	3,481
Louisiana.....	18	488	280	2,607	1,087	4,480
Maine.....	1	3	575	284	88	951
Maryland.....	19	50	157	619	59	904
Massachusetts.....	54	45	119	945	34	1,197
Michigan.....	87	110	725	3,683	1,772	6,377
Minnesota.....	128	172	536	2,317	3,098	6,251
Mississippi.....	17	34	424	1,663	900	3,038
Missouri.....	68	120	553	2,453	2,401	5,595
Montana.....	5	21	192	383	1,093	1,694
Nebraska.....	33	297	190	1,142	2,867	4,529
Nevada.....	4	4	103	64	117	292
New Hampshire.....	9	28	59	364	53	513
New Jersey.....	40	177	143	1,486	103	1,949
New Mexico.....	5	20	42	350	403	820
New York.....	128	200	399	2,494	293	3,514
North Carolina.....	41	19	3,740	565	633	4,998
North Dakota.....	14	15	150	683	4,203	5,065
Ohio.....	557	676	4,200	2,552	716	8,701
Oklahoma.....	25	27	59	2,584	2,298	4,993
Oregon.....	375	926	156	668	524	2,649
Pennsylvania.....	64	350	146	4,559	627	5,746
Rhode Island.....	13	---	22	93	---	128
South Carolina.....	97	106	1,185	1,868	587	3,843
South Dakota.....	12	6	124	558	1,466	2,166
Tennessee.....	17	29	217	2,858	940	4,061
Texas.....	1	2	6,480	3,670	3,592	13,745
Utah.....	12	20	156	662	244	1,094
Vermont.....	38	10	98	225	155	526
Virginia.....	103	93	1,105	961	254	2,516
Washington.....	145	29	514	2,116	742	3,546
West Virginia.....	26	16	106	1,475	804	2,427
Wisconsin.....	75	39	346	4,374	709	5,543
Wyoming.....	7	23	56	153	333	572
Puerto Rico.....	---	14	---	36	5	55
Unknown.....	---	---	---	---	---	---
Total.....	4,082	6,380	39,365	80,101	55,701	185,629

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

TABLE 48. TOTAL CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE

State	RAILROAD ADVANCE WARNING		Total
	Yes	No	
Alabama.....	876	3,760	4,636
Alaska.....	114	104	218
Arizona.....	555	421	976
Arkansas.....	890	2,616	3,506
California.....	6,701	1,780	8,481
Colorado.....	1,207	1,067	2,274
Connecticut.....	233	266	499
Delaware.....	218	32	250
Dist of Columbia.	22	15	37
Florida.....	2,664	1,724	4,388
Georgia.....	3,282	3,552	6,834
Hawaii.....	1	5	6
Idaho.....	1,523	260	1,783
Illinois.....	5,645	5,455	11,100
Indiana.....	6,548	1,196	7,744
Iowa.....	4,059	2,113	6,172
Kansas.....	3,869	4,897	8,766
Kentucky.....	973	2,508	3,481
Louisiana.....	2,667	1,813	4,480
Maine.....	933	18	951
Maryland.....	401	503	904
Massachusetts....	883	314	1,197
Michigan.....	4,518	1,859	6,377
Minnesota.....	3,542	2,709	6,251
Mississippi.....	652	2,386	3,038
Missouri.....	1,119	4,476	5,595
Montana.....	812	882	1,694
Nebraska.....	3,099	1,430	4,529
Nevada.....	223	69	292
New Hampshire....	300	213	513
New Jersey.....	843	1,106	1,949
New Mexico.....	167	653	820
New York.....	2,753	761	3,514
North Carolina...	3,872	1,126	4,998
North Dakota.....	910	4,155	5,065
Ohio.....	5,458	3,243	8,701
Oklahoma.....	999	3,994	4,993
Oregon.....	969	1,692	2,661
Pennsylvania.....	2,119	3,627	5,746
Rhode Island.....	31	97	128
South Carolina...	2,317	1,526	3,843
South Dakota.....	1,257	909	2,166
Tennessee.....	675	3,386	4,061
Texas.....	10,553	3,192	13,745
Utah.....	456	638	1,094
Vermont.....	439	87	526
Virginia.....	1,763	753	2,516
Washington.....	2,321	1,225	3,546
West Virginia....	539	1,888	2,427
Wisconsin.....	3,281	2,262	5,543
Wyoming.....	296	276	572
Puerto Rico.....	32	23	55
Unknown.....	---	---	---
Total.....	100,579	85,062	185,641

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.....	843	1,504	2,289	4,636
Alaska.....	69	60	89	218
Arizona.....	371	479	126	976
Arkansas.....	752	1,873	881	3,506
California.....	4,480	1,816	2,185	8,481
Colorado.....	594	1,157	523	2,274
Connecticut.....	234	114	151	499
Delaware.....	162	62	26	250
Dist of Columbia.....	4	20	13	37
Florida.....	2,700	1,134	554	4,388
Georgia.....	1,687	3,996	1,151	6,834
Hawaii.....	---	4	2	6
Idaho.....	286	874	623	1,783
Illinois.....	4,745	4,900	1,455	11,100
Indiana.....	3,026	3,867	851	7,744
Iowa.....	1,655	3,306	1,211	6,172
Kansas.....	1,329	2,921	4,516	8,766
Kentucky.....	1,223	1,442	816	3,481
Louisiana.....	1,047	2,838	595	4,480
Maine.....	441	478	32	951
Maryland.....	328	237	339	904
Massachusetts.....	678	304	215	1,197
Michigan.....	2,336	3,664	377	6,377
Minnesota.....	1,215	4,519	517	6,251
Mississippi.....	485	1,515	1,038	3,038
Missouri.....	1,580	1,510	2,505	5,595
Montana.....	338	1,019	337	1,694
Nebraska.....	926	3,075	528	4,529
Nevada.....	106	106	80	292
New Hampshire.....	185	213	115	513
New Jersey.....	1,068	336	545	1,949
New Mexico.....	262	304	254	820
New York.....	2,063	1,011	440	3,514
North Carolina.....	1,475	1,829	1,694	4,998
North Dakota.....	441	2,697	1,927	5,065
Ohio.....	3,109	3,122	2,470	8,701
Oklahoma.....	1,062	1,304	2,627	4,993
Oregon.....	741	1,226	694	2,661
Pennsylvania.....	2,040	1,331	2,375	5,746
Rhode Island.....	66	2	60	128
South Carolina.....	872	2,320	651	3,843
South Dakota.....	169	1,772	225	2,166
Tennessee.....	882	1,179	2,000	4,061
Texas.....	4,201	3,980	5,564	13,745
Utah.....	309	429	356	1,094
Vermont.....	237	273	16	526
Virginia.....	1,108	899	509	2,516
Washington.....	794	1,467	1,285	3,546
West Virginia.....	619	930	878	2,427
Wisconsin.....	1,951	2,506	1,086	5,543
Wyoming.....	230	213	129	572
Puerto Rico.....	7	16	32	55
Unknown.....	---	---	---	---
Total.....	57,531	78,153	49,957	185,641

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

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

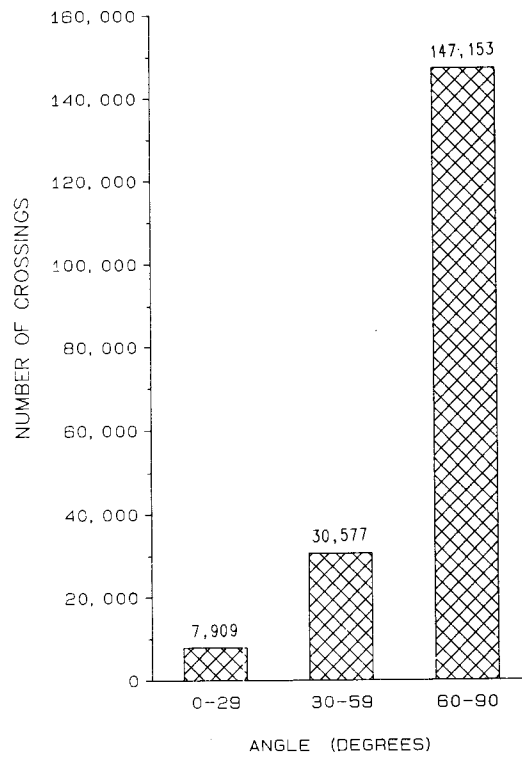


FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

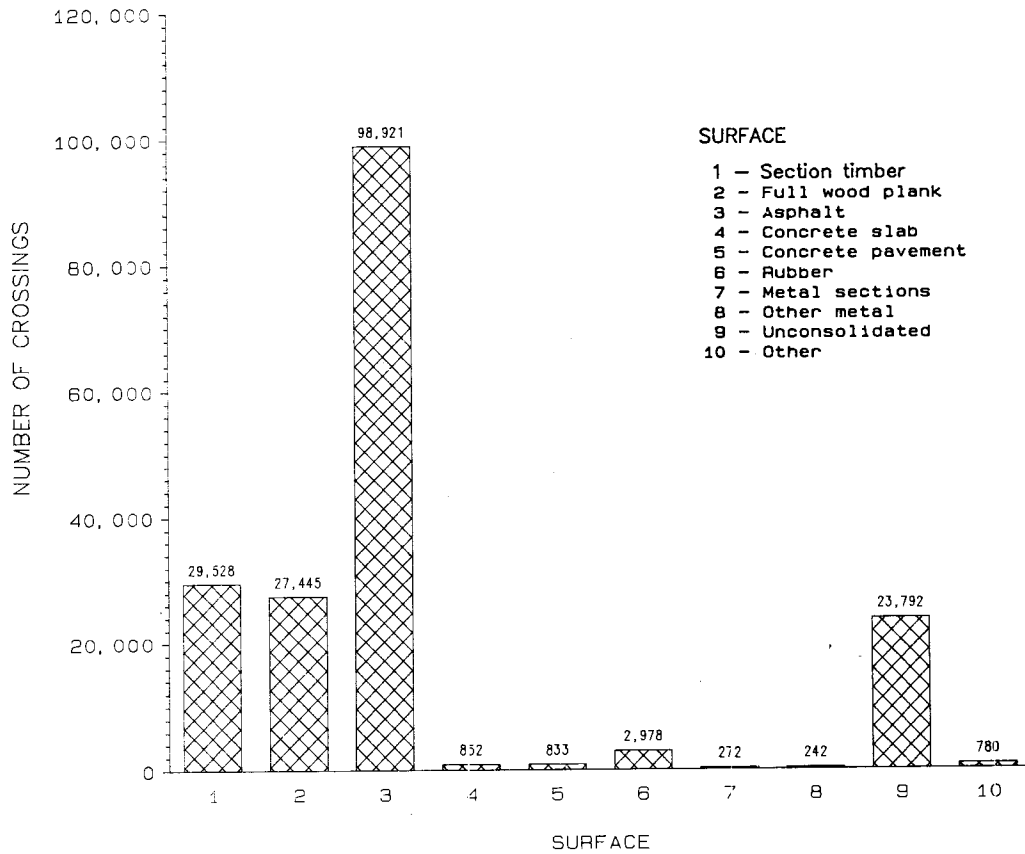


FIGURE 31. CROSSINGS BY CROSSING SURFACE

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

<u>Trains</u>	<u>Crossings</u>
<1	28,144
1-5	85,489
6-10	31,557
11-15	12,719
16-20	11,549
21-25	5,789
26-30	3,493
31-35	2,097
36-40	1,265
41-45	1,138
46-50	772
51-55	312
56-60	292
61-65	231
66-70	100
71-75	71
76-80	265
81-85	50
86-90	24
91-95	16
96-100	59
>100	209
Total	185,641

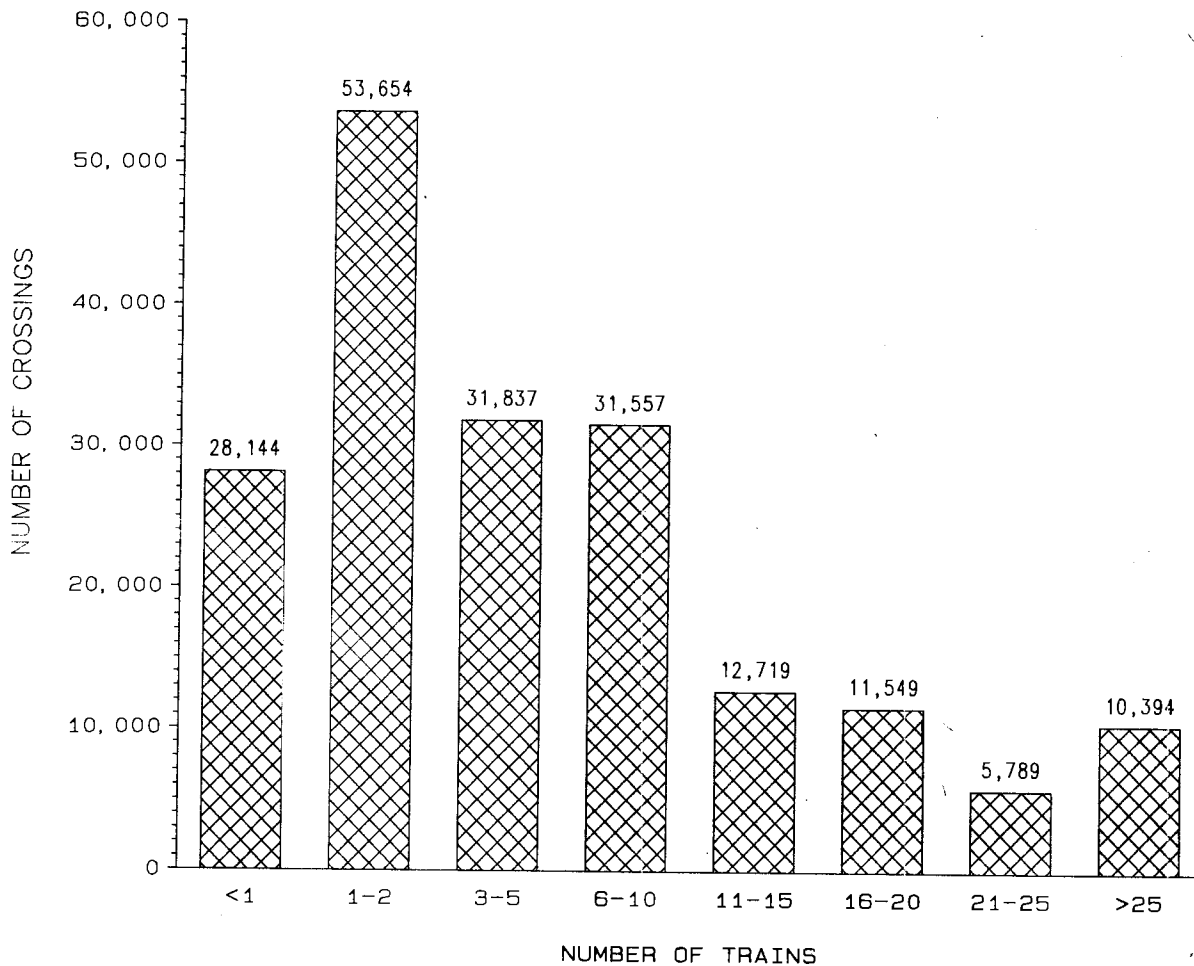


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

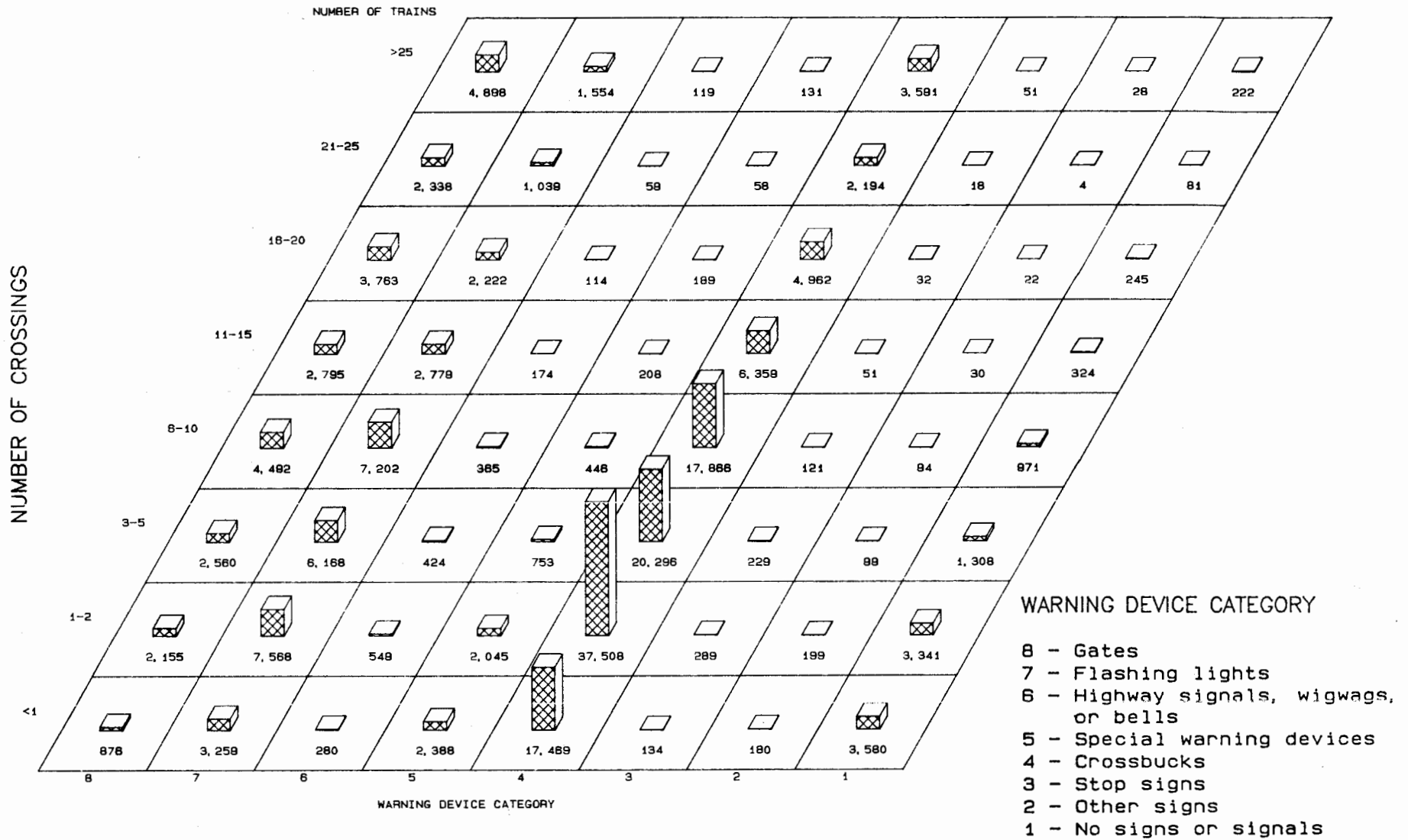


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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	28,144	30,506	14,390	13,008	5,042	5,022	2,198	3,249	101,559
1-2	21,221	10,281	7,307	6,606	2,869	2,121	1,040	1,873	53,318
2-3	6,096	1,816	2,367	3,206	1,527	757	394	816	16,979
6-10	2,793	763	878	1,490	1,034	1,071	448	806	9,283
11-15	566	128	158	275	289	91	96	364	1,967
16-20	486	119	98	194	98	93	109	176	1,373
21-25	132	42	27	44	37	23	31	51	387
>25	247	78	58	130	77	47	31	107	775
Total	59,685	43,733	25,283	24,953	10,973	9,225	4,347	7,442	185,641

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	28,144	7,565	1,084	287	13	5	6	5	37,109
1-2	32,569	30,023	3,624	662	25	8	1	3	66,915
2-3	5,546	11,604	16,538	2,017	148	156	24	3	36,036
6-10	1,804	2,520	6,433	14,922	1,480	99	42	20	27,320
11-15	205	253	571	3,528	5,144	764	16	33	10,514
16-20	85	34	124	600	957	1,559	377	36	3,772
21-25	38	29	10	119	373	476	746	62	1,853
>25	70	11	12	67	223	291	332	1,116	2,122
Total	68,461	52,039	28,396	22,202	8,363	3,358	1,544	1,278	185,641

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.....	876	2,155	2,560	4,492	2,795	3,763	2,338	4,698	23,677
Flashing lights.....	3,259	7,568	6,168	7,202	2,778	2,222	1,039	1,554	31,790
Hwy. signals, wigwags, bells	260	549	424	365	174	114	59	119	2,064
Special warning devices.....	2,386	2,045	753	446	208	189	58	131	6,216
Crossbucks.....	17,469	37,506	20,256	17,866	6,359	4,962	2,194	3,591	110,243
Stop signs.....	134	289	229	121	51	32	16	51	923
Other signs.....	180	199	99	94	30	22	4	28	656
No signs or signals.....	3,580	3,341	1,308	971	324	245	81	222	10,072
Total.....	28,144	53,652	31,837	31,557	12,719	11,549	5,789	10,394	185,641

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

Trains	Average annual daily traffic						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	
<1	11,839	3,400	3,171	6,340	1,993	1,401	28,144
1-2	28,063	6,071	5,476	9,524	2,719	1,799	53,652
2-3	15,699	3,767	3,304	6,044	1,794	1,229	31,837
6-10	14,945	3,761	3,495	6,185	1,895	1,276	31,557
11-15	5,897	1,388	1,336	2,689	818	591	12,719
16-20	5,030	1,334	1,365	2,466	816	538	11,549
21-25	2,257	681	644	1,391	482	334	5,789
>25	4,125	1,110	1,148	2,448	941	622	10,394
Total	87,855	21,512	19,939	37,087	11,458	7,790	185,641

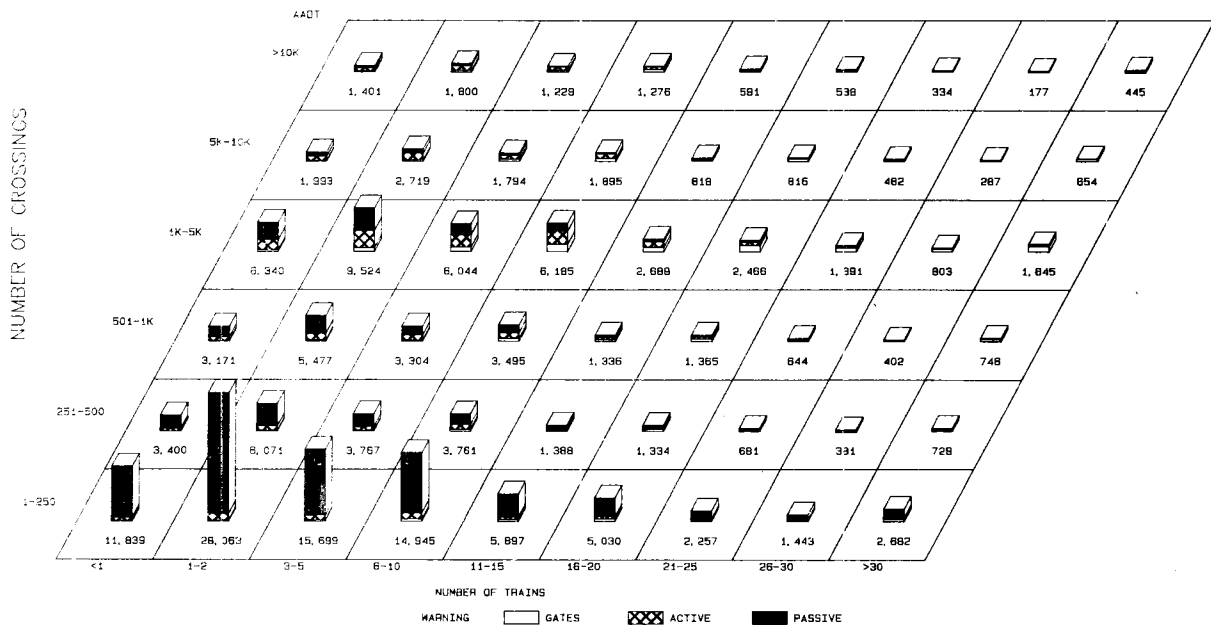


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

TRAIN SPEED DATA

TABLE 55. TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED

<u>Timetable Speed</u>	<u>Crossings</u>
1-5	7,618
6-10	30,536
11-15	11,423
16-20	14,242
21-25	21,003
26-30	21,257
31-35	13,084
36-40	20,089
41-45	4,027
46-50	16,223
51-55	3,241
56-60	9,731
61-65	1,153
66-70	5,029
71-75	670
76-80	5,460
81-85	4
86-90	589
91-95	1
96-100	8
>100	253
Total	185,641

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

<u>Speed Variation</u>	<u>Crossings</u>
<1	14,691
1-5	48,215
6-10	43,439
11-15	19,096
16-20	17,244
21-25	9,776
26-30	10,149
31-35	5,709
36-40	4,914
41-45	2,689
46-50	4,141
51-55	932
56-60	2,233
61-65	688
66-70	406
71-75	411
76-80	656
81-85	55
86-90	2
91-95	---
96-100	---
>100	195
Total	185,641

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

HIGHWAY TRAFFIC DATA

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

AADT	Crossings
1-100	62,371
101-200	17,252
201-300	14,023
301-400	7,717
401-500	8,004
501-600	5,051
601-700	3,557
701-800	4,546
801-900	2,695
901-1,000	4,090
1,001-2,000	16,785
2,001-3,000	9,403
3,001-4,000	5,856
4,001-5,000	5,043
5,001-6,000	3,199
6,001-7,000	2,415
7,001-8,000	2,353
8,001-9,000	1,704
9,001-10,000	1,787
10,001-20,000	6,157
>20,000	1,633
Total	185,641

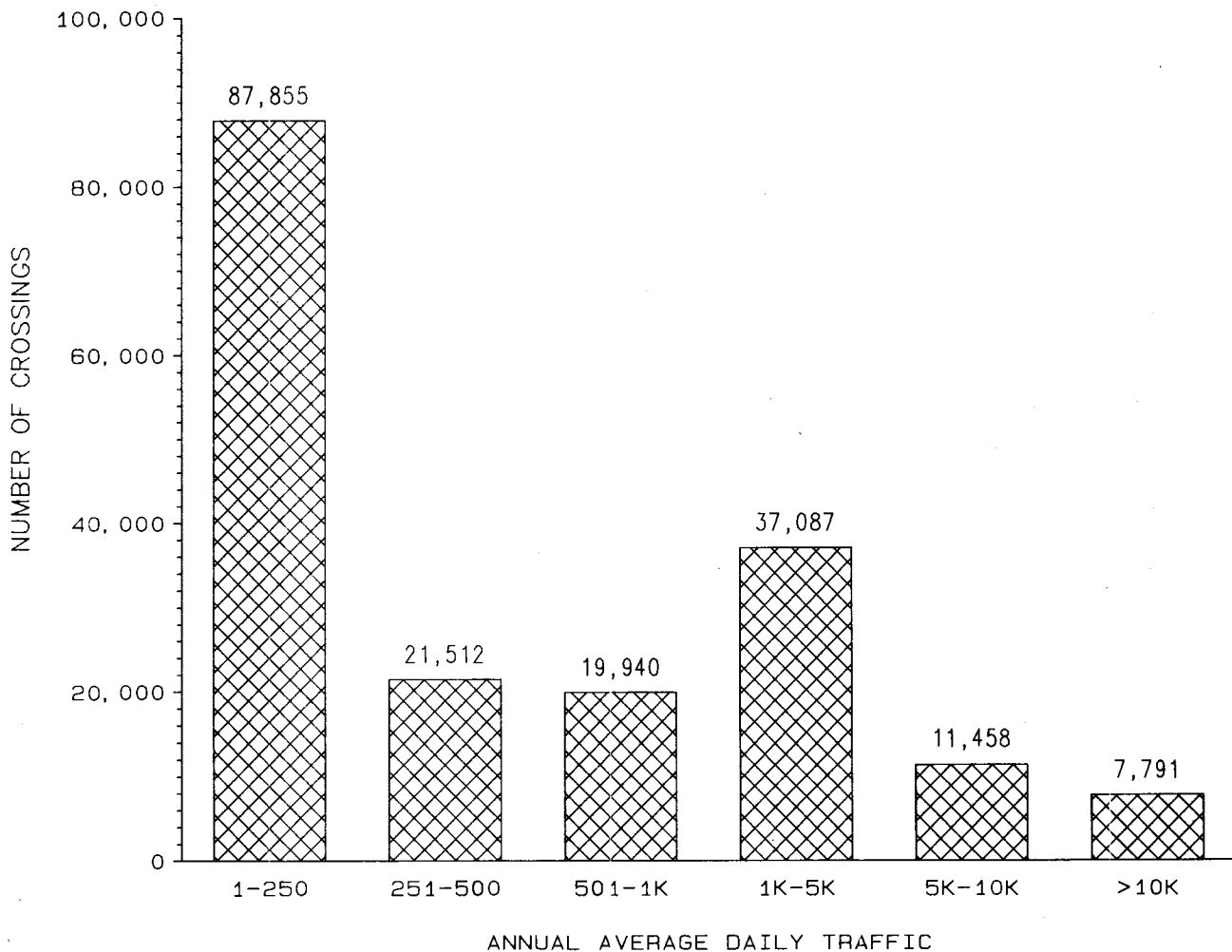


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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

ANNUAL AVERAGE DAILY TRAFFIC

Warning device	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	Total
Gates.....	3,162	2,290	3,117	8,619	3,609	2,880	23,677
Flashing lights.....	4,315	3,623	4,834	11,962	4,171	2,885	31,790
Hwy. signals, wigwags, bells	577	250	285	548	214	190	2,064
Special warning devices.....	1,374	764	827	1,969	759	523	6,216
Crossbucks.....	72,307	13,207	9,675	11,878	2,149	1,027	110,243
Stop signs.....	467	125	112	177	30	12	923
Other signs.....	262	139	92	114	36	13	656
No signs or signals.....	5,391	1,114	997	1,820	490	260	10,072
Total.....	87,855	21,512	19,939	37,087	11,458	7,790	185,641

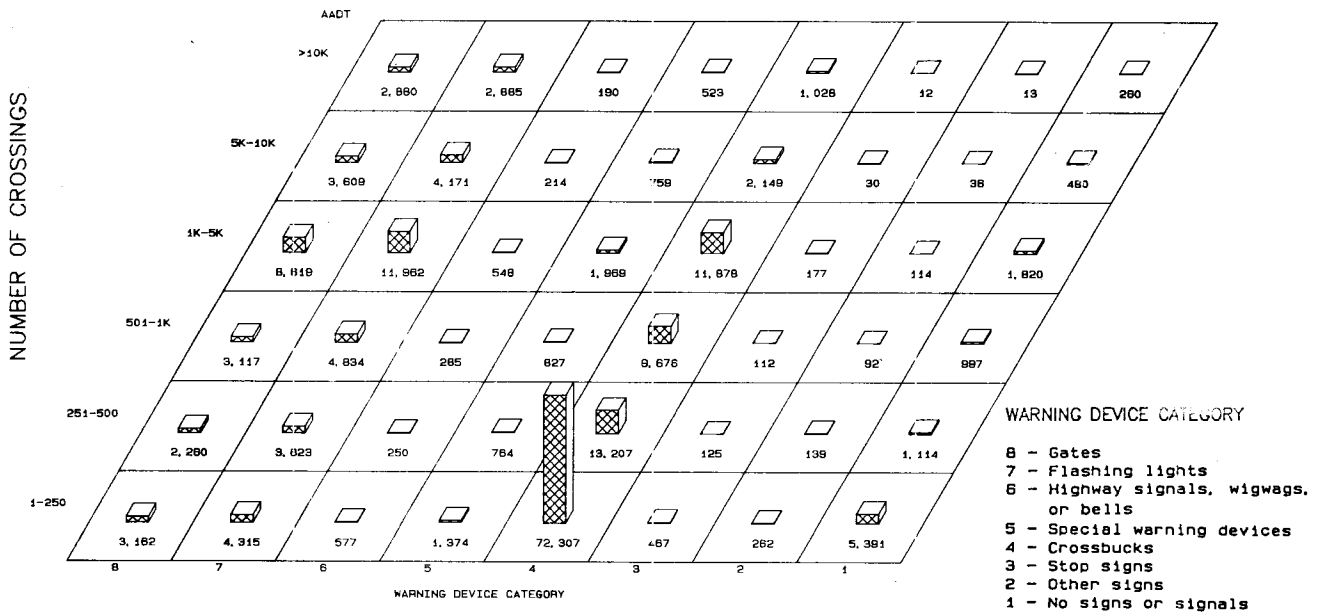


FIGURE 36. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

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

%	Crossings
<1	7,450
1-5	80,112
6-10	60,650
11-15	17,384
16-20	9,064
21-25	2,330
26-30	5,473
31-35	388
36-40	1,102
41-45	134
46-50	1,042
51-55	18
56-60	171
61-65	6
66-70	65
71-75	108
76-80	75
81-85	5
86-90	52
91-95	2
96-99	10
Total	185,641

TABLE 60. TOTAL CROSSINGS BY CROSSING SURFACE

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol- idated	Other
Alabama	121	375	3,564	2	2	9	2	1	560	0
Alaska	16	118	44	19	2	14	0	0	3	2
Arizona	101	268	483	0	2	49	0	0	72	1
Arkansas	550	230	1,879	2	9	9	1	2	778	6
California	935	1,361	5,956	26	12	30	0	0	146	15
Colorado	649	421	813	1	4	63	9	30	267	17
Connecticut	106	4	343	4	2	32	2	0	3	3
Delaware	17	7	195	2	9	15	0	0	5	0
Dist Of Columbia	6	1	25	0	5	0	0	0	0	0
Florida	931	56	2,915	141	11	118	7	1	153	55
Georgia	130	128	5,916	23	31	0	1	1	603	1
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	179	977	499	1	0	11	0	0	100	16
Illinois	1,959	1,343	5,886	31	39	432	8	8	1,376	18
Indiana	1,556	260	5,286	7	17	246	9	3	355	5
Iowa	101	1,292	2,750	4	14	143	1	2	1,812	53
Kansas	2,474	1,797	1,521	5	9	33	8	1	2,905	13
Kentucky	428	368	1,947	4	13	41	2	3	675	0
Louisiana	574	683	1,950	6	12	379	1	84	789	2
Maine	57	243	633	0	0	9	0	0	7	2
Maryland	183	14	610	2	15	41	5	0	25	9
Massachusetts	64	29	1,004	8	0	76	1	0	15	0
Michigan	1,898	826	2,790	14	11	210	174	0	444	10
Minnesota	132	3,258	2,358	39	8	58	0	2	383	13
Mississippi	149	368	1,617	2	3	74	1	1	822	1
Missouri	1,427	480	2,233	11	5	30	3	4	1,397	5
Montana	14	1,292	318	16	1	3	0	3	23	24
Nebraska	1,004	640	819	5	42	51	2	2	1,948	16
Nevada	53	57	95	14	1	16	0	1	48	7
New Hampshire	12	59	427	1	0	7	0	0	6	1
New Jersey	161	14	1,568	16	24	40	0	14	82	30
New Mexico	506	153	51	0	2	9	0	0	99	0
New York	533	171	2,501	11	15	165	0	1	111	6
North Carolina	23	47	4,570	9	12	3	2	1	325	8
North Dakota	61	3,889	548	57	2	16	0	0	483	9
Ohio	2,489	210	5,545	12	28	67	1	10	325	14
Oklahoma	1,563	392	1,372	9	15	20	1	6	1,604	11
Oregon	558	108	1,569	3	19	17	1	0	75	311
Pennsylvania	974	76	3,952	62	247	47	2	15	368	3
Rhode Island	1	1	111	0	5	9	0	0	0	1
South Carolina	39	16	3,407	54	9	0	3	1	312	2
South Dakota	8	1,481	447	1	1	84	0	0	96	48
Tennessee	173	306	3,054	7	2	12	2	11	491	3
Texas	4,782	1,125	5,084	78	109	139	6	19	2,398	5
Utah	242	220	505	8	7	13	2	3	91	3
Vermont	39	42	355	0	1	10	0	0	79	0
Virginia	244	57	2,017	6	3	4	7	10	146	22
Washington	70	1,530	1,760	115	9	18	2	1	40	1
West Virginia	1,007	12	945	3	5	8	0	1	446	0
Wisconsin	148	426	4,468	10	36	87	6	0	361	1
Wyoming	41	214	162	1	1	11	0	0	135	7
Puerto Rico	0	0	48	0	2	0	0	0	5	0
FINAL TOTALS	29,528	27,445	98,921	852	833	2,978	272	242	23,792	780

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

SINGLE TRACK WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	890	1241	1775	1678	1350	947	943	577	31	4	2	0	9438
FLASHING LIGHTS.....	4112	3415	5455	4085	2566	1306	350	307	21	0	0	0	21617
HWY. SIGNALS, WIGWAGS, BELLS	429	214	280	184	78	61	9	12	3	0	1	0	1271
SPECIAL WARNING DEVICES.....	2900	729	415	142	61	36	16	35	14	2	0	0	4350
CROSSBUCKS.....	14600	10392	21921	17875	9459	5606	1392	1733	204	0	1	0	83183
STOP SIGNS.....	257	96	157	82	45	15	16	11	0	0	0	0	679
OTHER SIGNS.....	193	115	95	23	17	0	2	10	0	0	0	0	455
NO SIGNS OR SIGNALS.....	3803	1496	1158	529	317	141	60	94	4	0	0	0	7602
TOTAL.....	27184	17698	31256	24598	13893	8112	2788	2779	277	6	4	0	128595
MULTIPLE TRACKS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	881	1411	2313	2222	2060	1864	1661	1699	125	2	1	0	14239
FLASHING LIGHTS.....	1793	1601	2354	1810	1165	777	341	317	14	0	0	1	10173
HWY. SIGNALS, WIGWAGS, BELLS	197	131	162	100	62	57	54	23	7	0	0	0	793
SPECIAL WARNING DEVICES.....	1168	306	197	76	38	46	15	14	5	1	0	0	1866
CROSSBUCKS.....	5685	3917	5607	4201	2919	2040	1273	1254	164	0	0	0	27060
STOP SIGNS.....	105	40	45	12	16	9	10	7	0	0	0	0	244
OTHER SIGNS.....	61	68	35	20	13	1	2	1	0	0	0	0	201
NO SIGNS OR SIGNALS.....	1327	493	291	134	84	66	38	36	1	0	0	0	2470
TOTAL.....	11217	7967	11004	8575	6357	4860	3394	3351	316	3	1	1	57046
ALL CROSSINGS WARNING DEVICES	MAXIMUM TIME TABLE SPEED												TOTAL
	00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	
GATES.....	1771	2652	4088	3900	3410	2811	2604	2276	156	6	3	0	23677
FLASHING LIGHTS.....	5905	5016	7809	5895	3731	2083	691	624	35	0	0	1	31790
HWY. SIGNALS, WIGWAGS, BELLS	626	345	442	284	140	118	63	35	10	0	1	0	2064
SPECIAL WARNING DEVICES.....	4068	1035	612	218	99	82	31	49	19	3	0	0	6216
CROSSBUCKS.....	20285	14309	27528	22076	12378	7646	2665	2987	368	0	1	0	110243
STOP SIGNS.....	362	136	202	94	61	24	26	18	0	0	0	0	923
OTHER SIGNS.....	254	183	130	43	30	1	4	11	0	0	0	0	656
NO SIGNS OR SIGNALS.....	5130	1989	1449	663	401	207	98	130	5	0	0	0	10072
TOTAL.....	38401	25665	42260	33173	20250	12972	6182	6130	593	9	5	1	185641

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1987 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more stated circumstances.

- (a) An impact occurs between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian or other highway user at a rail-highway crossing.
- (b) Any collision, derailment, fire, explosion, act of GOD or other event involving the operation of railroad on-track equipment (standing or moving) which results in more than \$5,200 in damages to railroad on-track equipment, signals, track and/or track structures, and roadbed.
- (c) Any event arising from the operation of a railroad which results in:
 - (i) death of one or more persons;
 - (ii) injury to one or more persons, other than railroad employees, requiring medical treatment;
 - (iii) injury to one or more employees requiring medical treatment or resulting in restriction of work or motion for one or more days, one or more lost work days, transfer to another job, termination of employment or loss of consciousness;
 - (iv) any occupational illness of railroad employee diagnosed by a physician.

DEFINITIONS

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

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

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

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

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

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

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

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

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

Crossing surfaces.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Other signs. Signs other than crossbucks or stop signs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Type of development.

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

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

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

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

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

APPENDIX B: REPORTING FORMS

FORMS

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

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

For all reportable rail-highway crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than \$5,200 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 im-
[L.S]
pression seal)

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

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

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

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

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

1. NAME OF REPORTING RAILROAD		Amtrak	1a. Alphabetic Code		1b. Railroad Accident/Incident No.	
		Autotrain				
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code		2b. Railroad Accident/Incident No.	
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code		3b. Railroad Accident/Incident No.	
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER			5. DATE OF ACCIDENT/INCIDENT		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						

HAZARDOUS MATERIALS (number of)

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

12. DIVISION	13. NEAREST STATION	14. MILEPOST (to nearest tenth)	15. STATE (two letter code)
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ENVIRONMENTAL CONDITIONS

16. TEMPERATURE (specify if minus)	17. VISIBILITY (single entry)	18. WEATHER (single entry)
°F	1. Dawn 3. Dusk 2. Day 4. Dark	1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow

OPERATIONAL DATA

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

EQUIPMENT

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 loco(s)	1. Yes 2. No
26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION	28. ANNUAL TRACK DENSITY (gross tons in millions)
29. TYPE OF TRACK	30. PRINCIPLE CAR/UNIT	30a. Initial and Number
1. Main 3. Siding 2. Yard 4. Industry	(1) First Involved (derailed, struck, striking, etc.)	30b. Position in Train
	(2) Causing (mechanical failures)	30c. Loaded (yes or no)
31. LOCOMOTIVE UNITS (no. of)	a. Head End	32. CARS (no. of)
	b. Manual c. Remote	a. Loaded b. Empty
	d. Manual e. Remote	1. Freight 2. Pass. 3. Freight 4. Pass.
(1) Total in Train		(1) Total in Equipment Consist
(2) Total Derailed		(2) Total Derailed

PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)

33. EQUIPMENT DAMAGE (to be reported for this equipment consist only)	\$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only)	\$
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ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE	CODE	36. CONTRIBUTING CAUSE	CODE	37. If no code available, explain cause.
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CASUALTIES

38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY	40. NUMBER OF FATALITIES
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CREW (no. of)				HOURS ON DUTY			
41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN	45. ENGINEER	46. CONDUCTOR		
				Hrs:	Mins:	Hrs:	Mins:
47. TYPED NAME AND TITLE				48. SIGNATURE			49. DATE

50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <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"/>

LOCATION

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

ACCIDENT/INCIDENT SITUATION

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

ENVIRONMENT

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

TRAIN AND TRACK

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

CROSSING WARNING

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

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE			CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN			CODE
1. Yes 2. No 3. Unknown				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		5. Vegetation	7. Other (specify)
				4. Topography		6. Highway vehicles	8. Not obstructed

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS	CODE	42. WAS DRIVER IN THE VEHICLE?	CODE
	1. Killed 2. Injured 3. Uninjured		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				
47. TYPED NAME AND TITLE		48. SIGNATURE		49. DATE

A. INITIATING AGENCY

RAILROAD STATE

C. REASON FOR UPDATE:

CHANGES IN EXISTING CROSSING DATA
 NEW CROSSING
 CLOSED CROSSING

D. EFFECTIVE DATE

M D Y

B. CROSSING NUMBER

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

1. Railroad Operating Company 2. Railroad Division or Region 3. Railroad Subdivision or District
4. State 5. County 6. County Map. Ref. No.
7. City 8. Nearest City 9. Highway Type and No.
10. Street or Road Name 11. RR I. D. No.
12. Nearest RR Timetable Station 13. Branch or Line Name 14. Railroad Mile Post
15. Pedestrian Crossing 1. at grade 2. RR under 3. RR over
16. Private Vehicle Crossing A. 1. Farm 2. Residential 3. Recreational 4. Industrial
B. 5. at grade 6. RR under 7. RR over C. 8. signs-specify
 9. signals-specify
17. Public Vehicle Crossing 1. at grade 2. RR under 3. RR over

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements
Daylight (6 AM to 6 PM) thru trains switching
Night (6 PM to 6 AM) thru trains switching
1B. Check if Less Than One Movement Per Day 5
2. Speed of Train at Crossing A. Maximum time table speed 1 B. Typical Speed Range Over Crossing from to mph
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: reflectorized 01 Number non-reflectorized 02 Number
Standard Highway Stop Sign 03 Number
Other Stop Signs 04 Number
Other Signs: Specify 05 Number 06 Number 07 Number 08 Number
B. Train Activated Devices
Gates: red & white reflectorized 09 Number other colored 10 Number
Cantilevered Flashing Lights: over traffic lane 11 Number not over traffic lane 12 Number
Mast Mounted Flashing Lights 13 Number
Other Flashing Lights Specify 14 Number 15 Number
Highway Traffic Signals 16 Number
Wigwags 17 Number
Bells 18 Number
C. Specify Special Warning Device not Train Activated 19
D. No Signs or Signals 20
7. Is Commercial Power Available? Yes No 8. Does Crossing Signal Provide Speed Selection for Trains? Yes No N/A
9. Method of Signalling for Train Operation: Is Track Equipped with Signals? Yes No

Part III Physical Data

1. Type of Development 1. Open Sp. 2. Res 3. Comm. 4. Ind. 5. Inst.
2. Smallest Crossing Angle 0°-29° 30°-59° 60°-90°
3. Number of Traffic Lanes Crossing Railroad Number
4. Are Truck Pullout Lanes Present? Yes No
5. Is Highway Paved Yes No
6. Pavement Markings Stoplines RR Xing Sym. None
7. Are RR Advance Warning Signs Present? Yes No
8. Crossing Surface 1. Sec. Timber 2. Full Wd. Plank 3. Asphalt 4. Concrete Slab
 5. Concrete Pave. 6. Rubber 7. Metal Sections 8. Other Metal
 9. Unconsolidated 0. Other Specify
9. Does Track Run Down A Street? Yes No
10. Nearby Intersecting Highway? Yes No

Part IV Highway Department Information

1. Highway System
2. Is Crossing on State Highway System? Yes No
3. Functional Classification of Road over Crossing
4. Estimate AADT
5. Estimate Percent Trucks
I. D. Number

APPENDIX C: MISCELLANEOUS DATA

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

1. IS RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED?
 YES 107 NO 5,521 NOT REPORTED 0
2. WAS DRIVER IN VEHICLE?
 YES 4,857 NO 768 NOT REPORTED 3
3. DRIVER WAS:
 KILLED 361 INJURED 1,472 UNINJURED 3,776 NOT REPORTED 19
4. IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?
 YES 386 NO 3,230 NOT REPORTED 1,150 N/A 862
5. DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:
 NORTH 1,349 SOUTH 1,357 EAST 1,442 WEST 1,443 NOT REPORTED 37
6. TRAIN TIMETABLE DIRECTION:
 NORTH 1,298 SOUTH 1,216 EAST 1,485 WEST 1,574 NOT REPORTED 55

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

LESS THAN ONE TRAIN PER DAY?					
YES	29,295	NO	156,337	N/R	11
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	4,656	NO	180,902	N/R	85
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	27,499	NO	158,031	N/R	113
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	174,859	NO	10,772	N/R	12
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	55,934	NO	129,688	N/R	21
IS HIGHWAY PAVED?					
YES	129,552	NO	56,091	N/R	0
IS COMMERCIAL POWER AVAILABLE?					
YES	168,393	NO	17,212	N/R	38
DOES TRACK RUN DOWN A STREET? ¹					
YES	5,808	NO	178,152	N/R	1,683
NEARBY INTERSECTING HIGHWAY? ¹					
YES	71,165	NO	112,740	N/R	1,738
RR ADVANCE WARNING SIGNS PRESENT?					
YES	100,580	NO	85,055	N/R	8
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,343	NO	183,291	N/R	9
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	28,852	NO	156,791	N/R	0
DOFS CROSSING PROVIDE SPEED SELECTION?					
YES	6,534	NO	62,241	N/R	116,686

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

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

APPENDIX D. ACCIDENTS/INCIDENTS AT PRIVATE CROSSINGS

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

State	----Freight----			---Passenger---			-Yard Switching			----Other----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	15	---	2	1	---	---	3	---	1	2	---	---
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	3	---	1	---	---	---	1	---	---	1	2	---
Arkansas.....	11	1	1	---	---	---	1	---	---	1	---	---
California.....	17	1	3	2	---	---	8	---	2	---	---	---
Colorado.....	9	1	2	1	---	---	---	---	---	1	---	---
Connecticut.....	1	---	---	2	---	---	1	---	1	---	---	---
Delaware.....	2	---	---	---	---	---	1	---	---	1	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	8	---	3	1	---	---	---	---	---	2	---	---
Georgia.....	8	3	2	---	---	---	1	---	---	2	---	---
Idaho.....	2	---	1	---	---	---	---	---	---	---	---	---
Illinois.....	11	---	2	4	---	2	4	---	1	5	---	---
Indiana.....	6	---	1	1	---	---	3	---	---	1	---	---
Iowa.....	9	---	---	---	---	---	2	---	---	1	---	---
Kansas.....	6	2	1	1	---	---	---	---	---	---	---	---
Kentucky.....	24	2	11	---	---	---	---	---	---	2	---	2
Louisiana.....	12	---	6	---	---	---	3	---	1	1	---	---
Maine.....	1	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	4	---	---	---	---	---	---	---	---	1	---	---
Massachusetts....	2	---	1	---	---	---	---	---	---	---	---	---
Michigan.....	5	---	---	---	---	---	5	---	2	2	---	2
Minnesota.....	2	---	---	1	1	---	---	---	---	1	---	---
Mississippi.....	5	---	---	1	---	---	1	---	---	2	---	---
Missouri.....	11	1	6	---	---	---	1	---	---	1	---	---
Montana.....	4	---	1	---	---	---	---	---	---	---	---	---
Nebraska.....	7	1	1	---	---	---	---	---	---	1	---	---
Nevada.....	1	---	1	---	---	---	1	---	---	---	---	---
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	2	---	---	---	---	---	6	---	---	2	---	1
New Mexico.....	1	---	---	---	---	---	---	---	---	---	---	---
New York.....	7	---	5	1	---	---	4	---	1	---	---	---
North Carolina...	16	---	5	2	---	---	3	---	---	1	---	---
North Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	10	---	2	---	---	---	5	---	---	3	---	---
Oklahoma.....	4	1	2	---	---	---	1	---	---	1	---	---
Oregon.....	6	2	1	---	---	---	2	---	---	3	---	---
Pennsylvania.....	6	1	---	1	---	---	2	---	---	1	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	6	---	1	---	---	---	---	---	---	2	---	---
South Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	9	---	4	---	---	---	1	---	---	2	---	---
Texas.....	29	3	4	1	---	---	13	---	1	4	---	1
Utah.....	2	---	---	---	---	---	---	---	---	---	---	---
Vermont.....	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	24	1	3	2	---	1	---	---	---	3	---	1
Washington.....	12	---	7	---	---	---	---	---	---	2	---	---
West Virginia....	6	---	2	---	---	---	---	---	---	2	---	---
Wisconsin.....	4	---	2	---	---	---	2	---	---	---	---	---
Wyoming.....	5	---	1	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	335	20	85	22	1	3	75	---	10	54	2	7

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

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

WARNING DEVICE CATEGORY

State	Gates	Flashing Lights	Hwy Sig. Wignags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama.....	---	---	---	3	5	1	---	12	21
Alaska.....	---	---	---	---	4	1	---	---	5
Arizona.....	---	---	---	---	5	---	---	7	13
Arkansas.....	---	1	---	---	3	12	---	9	27
California.....	1	1	---	1	6	2	---	2	11
Colorado.....	---	1	---	---	1	1	---	2	4
Connecticut.....	---	---	---	---	---	1	1	---	4
Delaware.....	---	---	---	---	---	---	1	2	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	---	---	---	1	8	---	---	2	11
Georgia.....	---	---	---	---	5	2	1	3	11
Idaho.....	---	---	---	---	1	---	---	1	2
Illinois.....	1	3	---	1	6	1	2	10	24
Indiana.....	---	3	1	1	7	---	---	6	11
Iowa.....	---	1	---	---	2	---	1	3	12
Kansas.....	---	---	---	---	4	---	---	5	7
Kentucky.....	---	---	---	1	10	---	1	20	26
Louisiana.....	---	1	---	---	1	2	---	3	16
Maine.....	---	---	---	---	1	---	---	---	1
Maryland.....	---	---	---	1	2	---	---	2	5
Massachusetts....	1	---	---	---	1	---	---	---	2
Michigan.....	---	4	1	---	2	---	---	5	12
Minnesota.....	---	---	---	---	3	---	---	1	4
Mississippi.....	---	---	---	---	2	---	---	7	9
Missouri.....	---	1	---	---	6	---	1	5	13
Montana.....	---	---	---	---	3	---	---	1	4
Nebraska.....	---	---	---	---	3	2	---	3	8
Nevada.....	---	---	---	---	1	1	---	---	2
New Hampshire.....	---	---	---	---	---	---	---	---	---
New Jersey.....	---	---	---	5	1	---	---	4	10
New Mexico.....	---	---	---	---	1	---	---	---	1
New York.....	---	2	---	1	3	---	---	6	12
North Carolina....	1	---	1	2	8	1	---	9	22
North Dakota.....	---	---	---	---	---	---	---	---	---
Ohio.....	1	1	---	2	5	1	---	8	18
Oklahoma.....	---	1	---	---	4	---	---	1	6
Oregon.....	---	---	1	---	4	3	---	3	11
Pennsylvania.....	---	1	1	1	3	1	---	3	10
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina....	---	---	---	2	3	1	---	2	8
South Dakota.....	---	---	---	---	---	---	---	---	---
Tennessee.....	---	---	---	---	3	---	1	8	12
Texas.....	3	1	---	4	24	5	---	10	47
Utah.....	---	---	---	---	---	1	---	1	2
Vermont.....	---	---	---	---	---	---	---	---	---
Virginia.....	---	1	---	---	10	1	1	16	29
Washington.....	---	1	1	---	4	4	1	3	14
West Virginia....	---	1	---	---	1	---	---	6	8
Wisconsin.....	---	---	---	1	3	---	1	1	6
Wyoming.....	---	---	---	---	1	---	---	4	5
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	8	25	6	27	169	44	11	196	486

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.....	213	40.11	9	34.62	45	38.79	8	34
Truck.....	153	28.81	11	42.31	39	33.62	8	32
Truck-trailer....	115	21.66	2	7.69	21	18.10	2	17
Bus.....	3	.56	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	2	.38	1	3.85	---	---	1	---
Pedestrian.....	3	.56	2	7.69	1	.86	2	---
Other.....	42	7.91	1	3.85	10	8.62	1	9
Total.....	531	100.00	26	100.00	116	100.00	22	92

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.....	3	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cantilever flashrs	---	---	---	1	---	---	1	---	1	5	---	2	---	---	---	8	---	3
Standard flashers	---	---	---	4	---	---	7	---	2	---	---	1	---	---	---	4	---	2
Hwy Sig,W W,Bells	---	---	---	1	---	2	---	1	3	8	---	3	2	---	21	1	---	8
Special Devices..	---	---	---	2	---	---	4	---	1	1	---	---	---	---	6	---	---	1
Crossbucks.....	---	---	---	14	1	3	24	---	3	1	---	---	---	---	27	---	---	3
Stopsigns.....	---	---	---	5	---	---	88	13	24	57	1	7	10	1	169	16	---	35
Other Signs.....	---	---	---	1	---	---	21	1	1	16	1	1	2	---	44	2	---	2
No Signs Or Signl	---	---	---	13	---	---	6	---	2	4	---	---	---	---	11	---	---	3
Total.....	3	---	1	41	1	6	234	18	66	188	3	29	20	1	3	486	23	105

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
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	1	---	---	76	2	25	3	---	---	20	---	4	100	2	29
10-19.....	---	---	---	30	1	5	1	---	---	14	---	5	45	1	10
20-29.....	---	---	---	23	3	10	---	---	---	7	---	1	30	3	11
30-39.....	---	---	---	16	---	3	1	---	---	4	---	---	21	---	3
40-49.....	2	---	---	14	2	5	---	---	---	5	---	---	21	2	5
50-59.....	1	---	---	14	---	4	---	---	---	7	---	---	22	---	4
60-69.....	---	---	---	13	2	4	1	---	---	6	---	---	20	2	4
70-79.....	2	---	1	7	1	---	2	2	1	6	---	1	17	3	3
80-89.....	3	---	3	11	2	2	1	---	---	11	---	---	26	2	5
90-99.....	1	---	---	12	---	4	---	---	---	6	---	---	19	---	4
100-109.....	1	---	---	9	---	2	---	---	---	11	1	2	21	1	4
110-119.....	1	---	---	12	---	3	4	1	---	9	1	1	26	2	4
120-129.....	---	---	---	3	---	1	---	---	---	3	---	1	6	---	2
130-139.....	---	---	---	4	---	1	---	---	---	4	---	1	8	---	2
140-149.....	---	---	---	2	---	1	---	---	---	---	---	---	2	---	1
150 And over.....	---	---	---	4	1	1	1	---	---	1	---	---	6	1	1
Locomotives only.....	---	---	---	25	2	3	2	---	---	11	---	1	38	2	4
Total.....	12	---	4	275	16	74	16	3	1	125	2	17	428	21	96
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	1	---	---	9	---	---	---	---	---	11	---	---	21	---	---
10-19.....	1	---	---	1	---	---	---	---	---	6	---	2	8	---	2
20-29.....	---	---	---	3	---	2	---	---	---	1	---	1	4	---	3
30-39.....	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---
40-49.....	---	---	---	2	---	---	---	---	---	2	---	---	2	---	---
50-59.....	---	---	---	1	1	---	---	---	---	2	1	2	3	2	2
60-69.....	---	---	---	---	---	---	---	---	---	2	---	1	2	---	1
70-79.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
80-89.....	---	---	---	2	---	---	---	---	---	---	---	---	2	---	---
90-99.....	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
100-109.....	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
110-119.....	---	---	---	2	---	---	---	---	---	1	---	1	3	---	1
120-129.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
130-139.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
140-149.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
150 And over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Locomotives only.....	---	---	---	3	---	---	1	---	---	3	---	---	7	---	---
Total.....	2	---	---	24	1	2	1	---	---	31	1	7	58	2	9
GRAND TOTAL															
1-9.....	2	---	---	85	2	25	3	---	---	31	---	4	121	2	29
10-19.....	1	---	---	31	1	5	1	---	---	20	---	7	53	1	12
20-29.....	---	---	---	26	3	12	---	---	---	8	---	2	34	3	14
30-39.....	---	---	---	16	---	3	1	---	---	6	---	---	23	---	3
40-49.....	2	---	---	16	2	5	---	---	---	5	---	---	23	2	5
50-59.....	1	---	---	15	1	4	---	---	---	9	1	2	25	2	6
60-69.....	---	---	---	13	2	4	1	---	---	8	---	1	22	2	5
70-79.....	2	---	1	7	1	---	2	2	1	7	---	1	18	3	3
80-89.....	3	---	3	13	2	2	1	---	---	11	---	---	28	2	5
90-99.....	1	---	---	13	---	4	---	---	---	7	---	---	21	---	4
100-109.....	1	---	---	9	---	2	---	---	---	12	1	2	22	1	4
110-119.....	1	---	---	14	---	3	4	1	---	10	1	2	29	2	5
120-129.....	---	---	---	3	---	1	---	---	---	3	---	1	6	---	2
130-139.....	---	---	---	4	---	1	---	---	---	4	---	1	8	---	2
140-149.....	---	---	---	2	---	1	---	---	---	---	---	---	2	---	1
150 And over.....	---	---	---	4	1	1	1	---	---	1	---	---	6	1	1
Locomotives only.....	---	---	---	28	2	3	3	---	---	14	---	1	45	2	4
Total.....	14	---	4	299	17	76	17	3	1	156	3	24	486	23	105

TABLE D-6. ACCIDENTS/INCIDENTS AT PRIVATE 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
Amtrak(National Railroad Passenger Corp.)	1	---	1	---	6	2	1	4	15
Arkansas And Missouri Railroad Company	---	---	---	---	---	---	---	1	1
Atchison, Topeka And Santa Fe Railway Co.	2	1	---	---	17	4	---	3	27
Bangor And Aroostook Railroad	---	---	---	---	1	---	---	---	1
Boston And Maine Corporation	1	---	---	---	---	---	---	---	1
Burlington Northern Railroad Company	---	6	2	---	26	8	2	16	60
Central Vermont Railway, Inc.	---	---	---	---	1	---	---	---	1
Chicago & North Western Transportation Co.	---	---	---	---	1	---	---	---	1
Chicago Missouri & Western Railway	---	---	---	---	1	---	---	3	4
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	1	1
Consolidated Rail Corporation	1	7	---	9	3	---	1	---	4
CSX Transportation	1	1	2	8	10	2	1	17	47
Dakota, Minnesota & Eastern Railroad	---	---	---	---	28	4	3	33	80
Delaware And Hudson Railroad Company	---	---	---	---	1	---	---	---	1
Denver And Rio Grande Western Railroad Co.	---	---	---	---	---	---	---	1	1
Detroit And Mackinac Railway Company	---	---	---	---	---	1	---	---	1
Elgin, Joliet And Eastern Railway Company	---	---	---	---	---	---	---	1	1
Grand Trunk Western Railroad Company	---	2	---	---	---	---	---	2	2
Green Bay And Western Railroad Company	---	---	---	---	1	---	---	---	1
Gulf And Mississippi Railroad Corporation	---	---	---	---	1	---	---	---	1
Houston Belt & Terminal Railway Company	---	---	---	1	1	---	---	1	2
Illinois Central Gulf Railroad Company	---	---	---	1	1	---	---	---	2
Indiana Harbor Belt Railroad Company	---	---	---	---	4	---	---	5	10
Kansas City Southern Railway Company	---	---	---	1	---	---	---	---	1
Los Angeles Junction Railway Company	---	---	---	---	8	1	---	---	9
Louisiana & Arkansas Railway Company	---	---	---	---	---	---	---	1	1
Metro North Commuter Railroad Company	---	---	---	---	2	---	---	---	2
Mid South Rail Corporation	---	---	---	---	1	---	---	1	2
Missouri-Kansas-Texas Railroad Company	---	---	---	1	2	---	---	---	2
New York, Susquehanna And Western RR	---	---	---	---	2	---	---	1	4
Norfolk And Western Railway Company	---	4	---	---	---	---	---	2	2
Northeast Illinois Regional Commuter Rail	1	---	---	---	11	2	---	19	36
Paducah & Louisville Railway Company	---	---	---	---	---	---	---	---	1
Port Terminal Railroad Association	1	---	---	---	2	---	---	2	2
Soo Line Railroad Company	---	1	---	---	3	---	---	1	4
Southern Pacific Transportation Company	1	1	---	1	3	---	---	4	8
Southern Railway Companies	---	---	---	3	10	14	---	7	34
St. Louis Southwestern Railway Company	---	---	---	---	10	---	---	37	50
Texas, Oklahoma And Eastern Railroad Co.	---	---	---	---	2	---	---	2	4
Union Pacific Railroad Company	---	2	---	---	1	---	---	---	1
Winchester And Western Railroad Company	---	---	---	---	13	4	1	22	42
Wisconsin Central Ltd.	---	---	---	1	---	---	---	1	1
All Other Railroads	---	---	1	2	2	2	1	9	16
Total	9	25	6	27	170	44	11	197	489

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

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

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

Railroad	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Amtrak(National Railroad Passenger Corp.)	15	1	2	2	---	---	17	1	2
Arkansas And Missouri Railroad Company	1	---	---	---	---	---	1	---	---
Atchison, Topeka And Santa Fe Railway Co.	27	6	7	1	---	---	28	6	7
Bangor And Aroostook Railroad	1	---	---	---	---	---	1	---	---
Boston And Maine Corporation	1	---	1	---	---	---	1	---	1
Burlington Northern Railroad Company	60	3	10	4	---	2	64	3	12
Central Vermont Railway, Inc.	1	---	---	---	---	---	1	---	---
Chicago & North Western Transportation Co.	4	---	1	---	---	---	4	---	1
Chicago Missouri & Western Railway	1	---	1	---	---	---	1	---	1
Chicago, Central & Pacific Railroad Co.	4	---	---	---	---	---	4	---	---
Consolidated Rail Corporation	47	1	1	5	1	---	52	2	1
CSX Transportation	80	1	21	7	2	4	87	3	25
Dakota, Minnesota & Eastern Railroad	1	---	---	---	---	---	1	---	---
Delaware And Hudson Railroad Company	1	---	---	1	---	---	2	---	---
Denver And Rio Grande Western Railroad Co.	1	---	---	---	---	---	1	---	---
Detroit And Mackinac Railway Company	1	---	2	---	---	---	1	---	2
Elgin, Joliet And Eastern Railway Company	2	---	1	---	---	---	2	---	1
Grand Trunk Western Railroad Company	2	---	1	1	---	1	3	---	2
Green Bay And Western Railroad Company	1	---	---	---	---	---	1	---	---
Gulf And Mississippi Railroad Corporation	2	---	---	---	---	---	2	---	---
Houston Belt & Terminal Railway Company	2	---	---	---	---	---	2	---	---
Illinois Central Gulf Railroad Company	10	---	4	---	---	---	10	---	4
Indiana Harbor Belt Railroad Company	1	---	---	---	---	---	1	---	---
Kansas City Southern Railway Company	9	1	1	---	---	---	9	1	1
Los Angeles Junction Railway Company	1	---	---	---	---	---	1	---	---
Louisiana & Arkansas Railway Company	2	---	---	3	---	1	5	---	1
Metro North Commuter Railroad Company	2	---	---	---	---	---	2	---	---
Mid South Rail Corporation	2	---	---	---	---	---	2	---	---
Missouri-Kansas-Texas Railroad Company	4	---	---	---	---	---	4	---	---
New York, Susquehanna And Western RR	2	---	5	---	---	---	2	---	5
Norfolk And Western Railway Company	36	2	9	3	---	---	39	2	9
Northeast Illinois Regional Commuter Rail	1	---	2	---	---	---	1	---	2
Paducah & Louisville Railway Company	2	---	2	2	---	1	4	---	3
Port Terminal Railroad Association	4	---	---	---	---	---	4	---	---
Soo Line Railroad Company	8	---	---	---	---	---	8	---	---
Southern Pacific Transportation Company	34	3	6	1	---	---	35	3	6
Southern Railway Companies	50	4	12	5	---	1	55	4	13
St. Louis Southwestern Railway Company	4	1	1	2	---	---	6	1	1
Texas Mexican Railway Company	---	---	---	1	---	---	1	---	---
Texas, Oklahoma And Eastern Railroad Co.	1	---	---	---	---	---	1	---	---
Union Pacific Railroad Company	42	---	11	5	---	---	47	---	11
Winchester And Western Railroad Company	1	---	1	---	---	---	1	---	1
Wisconsin Central Ltd.	2	---	1	---	---	---	2	---	1
All Other Railroads	16	---	2	3	---	1	19	---	3
Total	489	23	105	46	3	11	535	26	116

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

APPENDIX E. TRESPASSER CASUALTIES

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

TABLE E-1. TRESPASSER CASUALTIES BY YEAR

YEAR	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
1987	584	673	131	227	453	446
1986	519	706	121	246	398	460
1985	474	734	83	242	391	492
1984	588	773	89	227	499	546
1983	472	683	72	187	400	496
1982	501	671	87	151	414	520
TOTAL	3,138	4,240	583	1,280	2,555	2,960

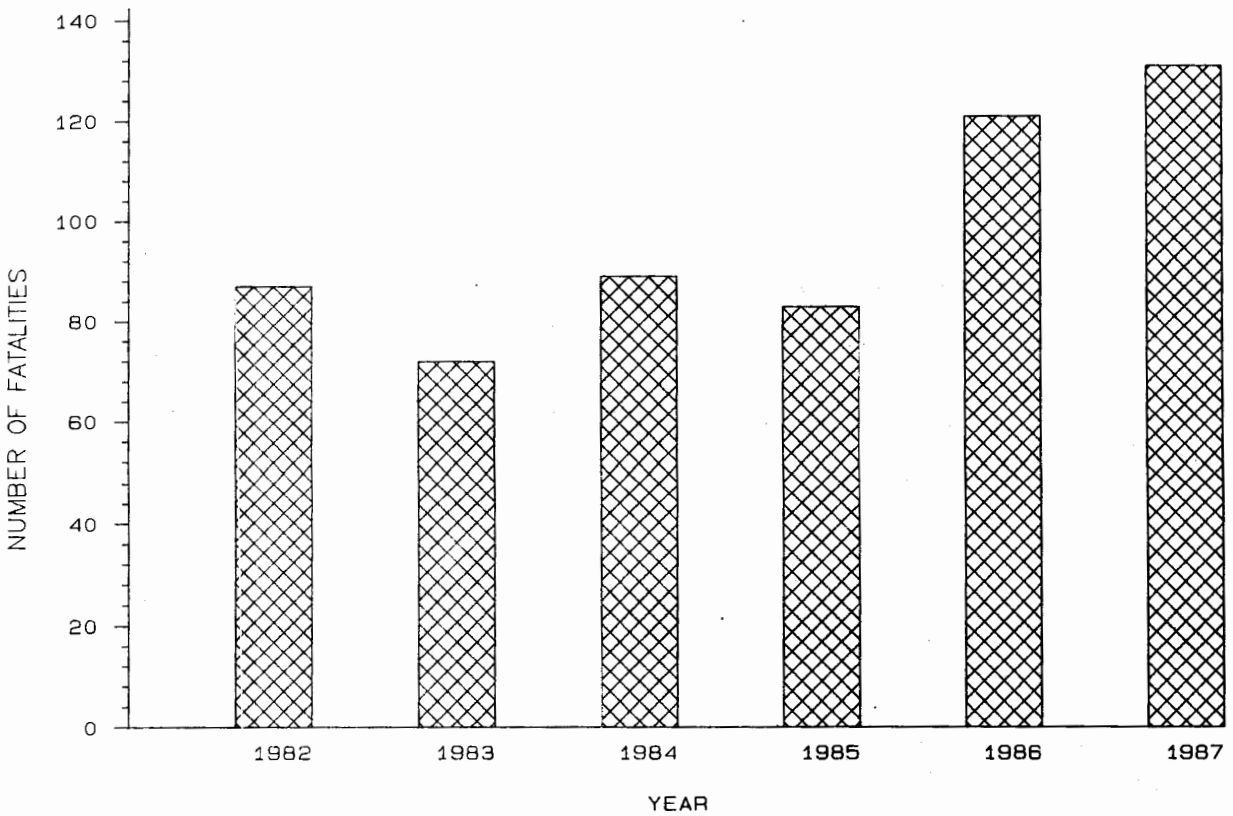


FIGURE 37. TRESPASSER FATALITIES AT RAIL-HIGHWAY CROSSING, BY YEAR

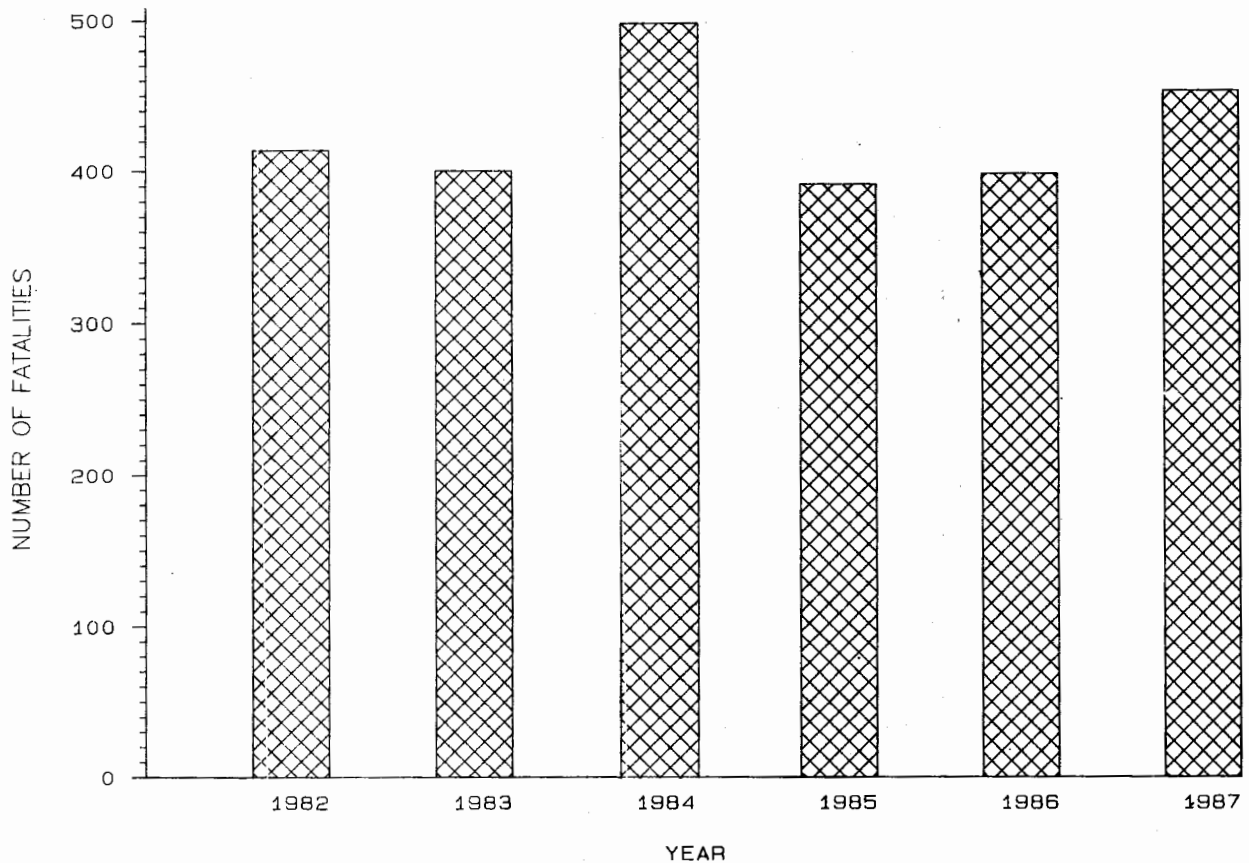


FIGURE 38. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSING, BY YEAR

TABLE E-2. 1987 TRESPASSER CASUALTIES BY MONTH

MONTH	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
JANUARY	28	37	13	19	15	18
FEBRUARY	46	57	13	24	33	33
MARCH	37	51	5	17	32	34
APRIL	45	39	7	12	38	27
MAY	49	65	6	12	43	53
JUNE	51	70	12	15	39	55
JULY	70	78	10	20	60	58
AUGUST	52	62	11	10	41	52
SEPTEMBER	61	59	13	22	48	37
OCTOBER	53	52	14	17	39	35
NOVEMBER	46	45	16	29	30	16
DECEMBER	46	58	11	30	35	28
TOTALS	584	673	131	227	453	446

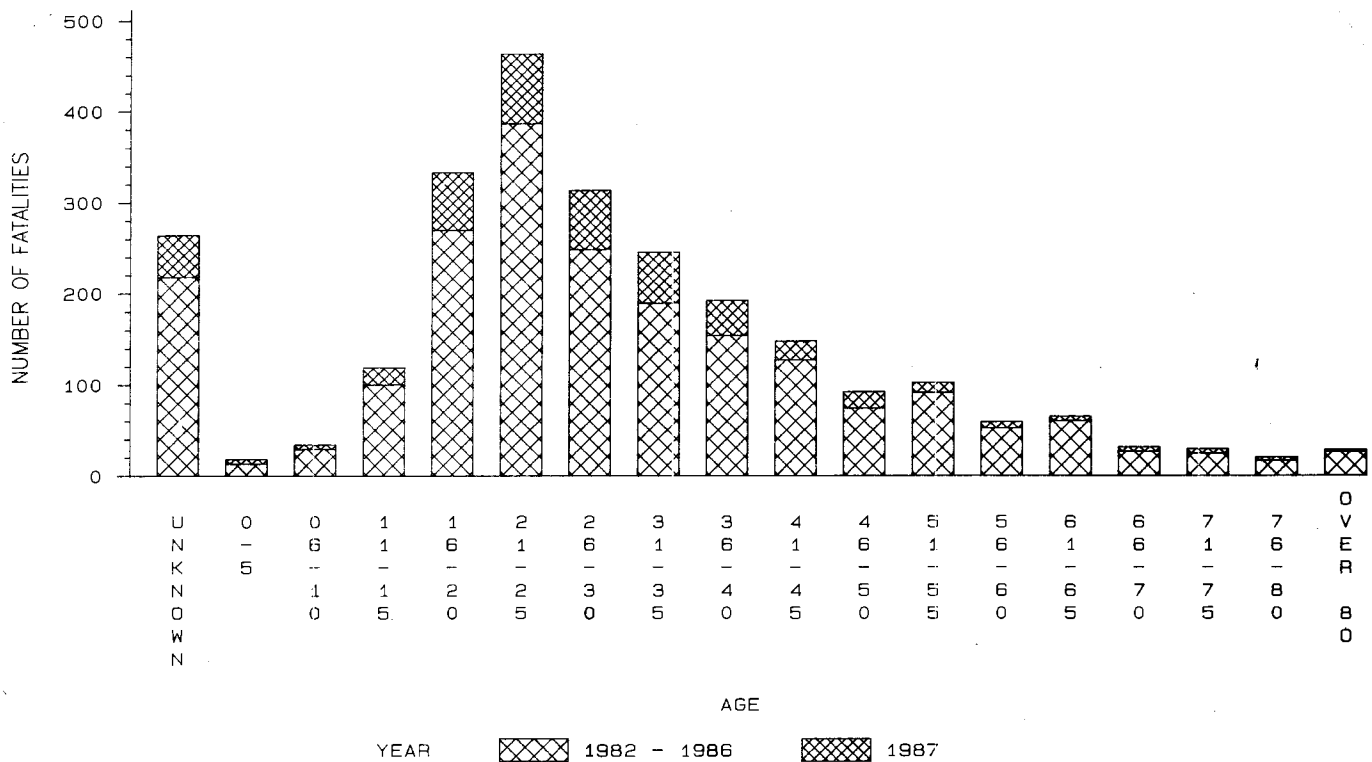


FIGURE 39. TRESPASSER FATALITIES, NOT AT RAIL-HIGHWAY CROSSINGS, BY AGE GROUP

TABLE E-3. TRESPASSER CASUALTIES BY RAILROAD

RAILROAD	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING KILLED	AT RAIL-HIGHWAY GRADE CROSSING INJURED	NOT AT RAIL-HIGHWAY GRADE CROSSING KILLED	NOT AT RAIL-HIGHWAY GRADE CROSSING INJURED
ALABAMA AND FLORIDA RAILROAD.....	0	3	0	0	0	3
ALABAMA GREAT SOUTHERN RAILROAD.....	1	1	0	1	1	0
AMTRAK (NATIONAL RAILROAD PASSENGER CORPORATION).....	67	33	25	12	42	21
ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY.....	37	39	0	0	37	39
BOSTON AND MAINE CORPORATION.....	1	2	0	2	1	0
BURLINGTON NORTHERN RAILROAD COMPANY.....	48	51	2	9	46	42
CHICAGO, CENTRAL & PACIFIC RAILROAD COMPANY.....	2	2	0	0	2	2
CAPE COD AND HYANNIS.....	1	0	0	0	1	0
CHICAGO MISSOURI & WESTERN RAILWAY.....	3	1	0	0	3	1
CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY.....	19	26	8	17	11	9
CONSOLIDATED RAIL CORPORATION.....	58	80	23	42	35	38
CHICAGO SOUTH SHORE AND SOUTH BEND RAILROAD.....	2	1	0	0	2	1
CSX TRANSPORTATION.....	73	97	6	33	67	64
CENTRAL VERMONT RAILWAY, INC.....	0	1	0	0	0	1
DELAWARE AND HUDSON RAILROAD COMPANY.....	1	1	0	0	1	1
DES MOINES UNION RAILWAY COMPANY.....	1	1	1	1	0	0
ELGIN, JOLIET AND EASTERN RAILWAY COMPANY.....	0	2	0	2	0	0
FLORIDA EAST COAST RAILWAY COMPANY.....	22	28	7	17	15	11
GRAND TRUNK WESTERN RAILROAD COMPANY.....	2	0	0	0	2	0
ILLINOIS CENTRAL GULF RAILROAD COMPANY.....	9	9	2	2	7	7
INDIANA HARBOR BELT RAILROAD COMPANY.....	2	5	2	4	0	1
INDIANA RAIL ROAD COMPANY.....	0	1	0	0	0	1
LOUISIANA & ARKANSAS RAILWAY COMPANY.....	1	0	0	0	1	0
LOUISIANA & DELTA RAILROAD.....	0	1	0	1	0	0
LONG ISLAND RAIL ROAD.....	16	15	5	0	11	15
MAINE CENTRAL RAILROAD COMPANY.....	2	0	1	0	1	0
MISSOURI-KANSAS-TEXAS RAILROAD COMPANY.....	3	10	0	0	3	10
METRO NORTH COMMUTER RAILROAD COMPANY.....	10	20	1	4	9	16
MID SOUTH RAIL CORP.....	1	0	0	0	1	0
NORTHEAST ILLINOIS REGIONAL COMMUTER RAIL CORP.....	6	8	5	6	1	2
NEW JERSEY TRANSIT RAIL OPERATIONS.....	8	20	0	6	8	14
NORFOLK AND PORTSMOUTH BELT LINE RAILROAD COMPANY.....	0	1	0	1	0	0
NORFOLK AND WESTERN RAILWAY COMPANY.....	30	39	14	23	16	16
NORTHWESTERN PACIFIC RAILROAD COMPANY.....	0	1	0	0	0	1
NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD CORP.....	0	2	0	2	0	0
OTTER TAIL VALLEY RAILROAD CO., INC.....	1	1	0	1	1	0
PROVIDENCE AND WORCESTER RAILROAD COMPANY.....	1	3	1	2	0	1
SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY.....	2	2	2	2	0	0
SOO LINE RAILROAD COMPANY.....	7	12	3	2	4	10
SOUTHERN RAILWAY COMPANY.....	25	41	1	9	24	32
SOUTHERN PACIFIC TRANSPORTATION COMPANY.....	54	60	12	12	42	48
SABINE RIVER & NORTHERN RAILROAD COMPANY.....	0	1	0	1	0	0
ST. LOUIS SOUTHWESTERN RAILWAY COMPANY.....	6	1	1	1	5	0
SPRINGFIELD TERMINAL RAILWAY COMPANY (VERMONT).....	4	2	2	1	2	1
TEXAS, OKLAHOMA AND EASTERN RAILROAD COMPANY.....	1	0	0	0	1	0
UNION PACIFIC RAILROAD COMPANY.....	57	48	7	11	50	37
WISCONSIN AND SOUTHERN RAILWAY COMPANY.....	0	1	0	0	0	1
TOTALS.....	584	673	131	227	453	446

TABLE E-4. TRESPASSER CASUALTIES BY STATE

STATE	TOTAL KILLED	TOTAL INJURED	AT RAIL-HIGHWAY GRADE CROSSING		NOT AT RAIL-HWY GRADE CROSSING	
			KILLED	INJURED	KILLED	INJURED
ALABAMA	5	15	0	1	5	14
ARIZONA	8	12	0	1	8	11
ARKANSAS	4	2	1	2	3	0
CALIFORNIA	48	48	15	11	33	37
COLORADO	2	3	0	0	2	3
CONNECTICUT	11	17	3	7	8	10
DELAWARE	4	5	1	0	3	5
FLORIDA	37	42	12	21	25	21
GEORGIA	6	16	0	2	6	14
IDAHO	3	0	0	0	3	0
ILLINOIS	50	55	22	26	28	29
INDIANA	27	56	12	46	15	10
IOWA	8	7	3	3	5	4
KANSAS	5	10	1	4	4	6
KENTUCKY	8	10	0	2	8	8
LOUISIANA	5	8	0	4	5	4
MAINE	3	0	1	0	2	0
MARYLAND	8	9	0	4	8	5
MASSACHUSETTS	17	11	1	3	16	8
MICHIGAN	10	13	3	9	7	4
MINNESOTA	12	14	2	7	10	7
MISSISSIPPI	4	2	2	1	2	1
MISSOURI	7	3	4	1	3	2
MONTANA	4	6	0	3	4	3
NEBRASKA	4	7	0	4	4	3
NEVADA	2	4	0	0	2	4
NEW HAMPSHIRE	1	0	1	0	0	0
NEW JERSEY	12	24	0	9	12	15
NEW MEXICO	8	6	0	0	8	6
NEW YORK	38	39	13	2	25	37
NORTH CAROLINA	17	30	2	9	15	21
NORTH DAKOTA	1	1	0	0	1	1
OHIO	24	28	15	17	9	11
OKLAHOMA	7	7	0	0	7	7
OREGON	4	8	0	0	4	8
PENNSYLVANIA	23	15	3	6	20	9
RHODE ISLAND	1	2	0	0	1	2
SOUTH CAROLINA	16	5	2	0	14	5
SOUTH DAKOTA	0	1	0	0	0	1
TENNESSEE	9	11	1	1	8	10
TEXAS	69	57	5	4	64	53
UTAH	2	3	0	1	2	2
VERMONT	1	1	1	1	0	0
VIRGINIA	17	20	2	5	15	15
WASHINGTON	16	20	0	1	16	19
WEST VIRGINIA	10	8	0	4	10	4
WISCONSIN	5	12	3	5	2	7
WYOMING	1	0	0	0	1	0
TOTALS	584	673	131	227	453	446