

Thomas P. Woll



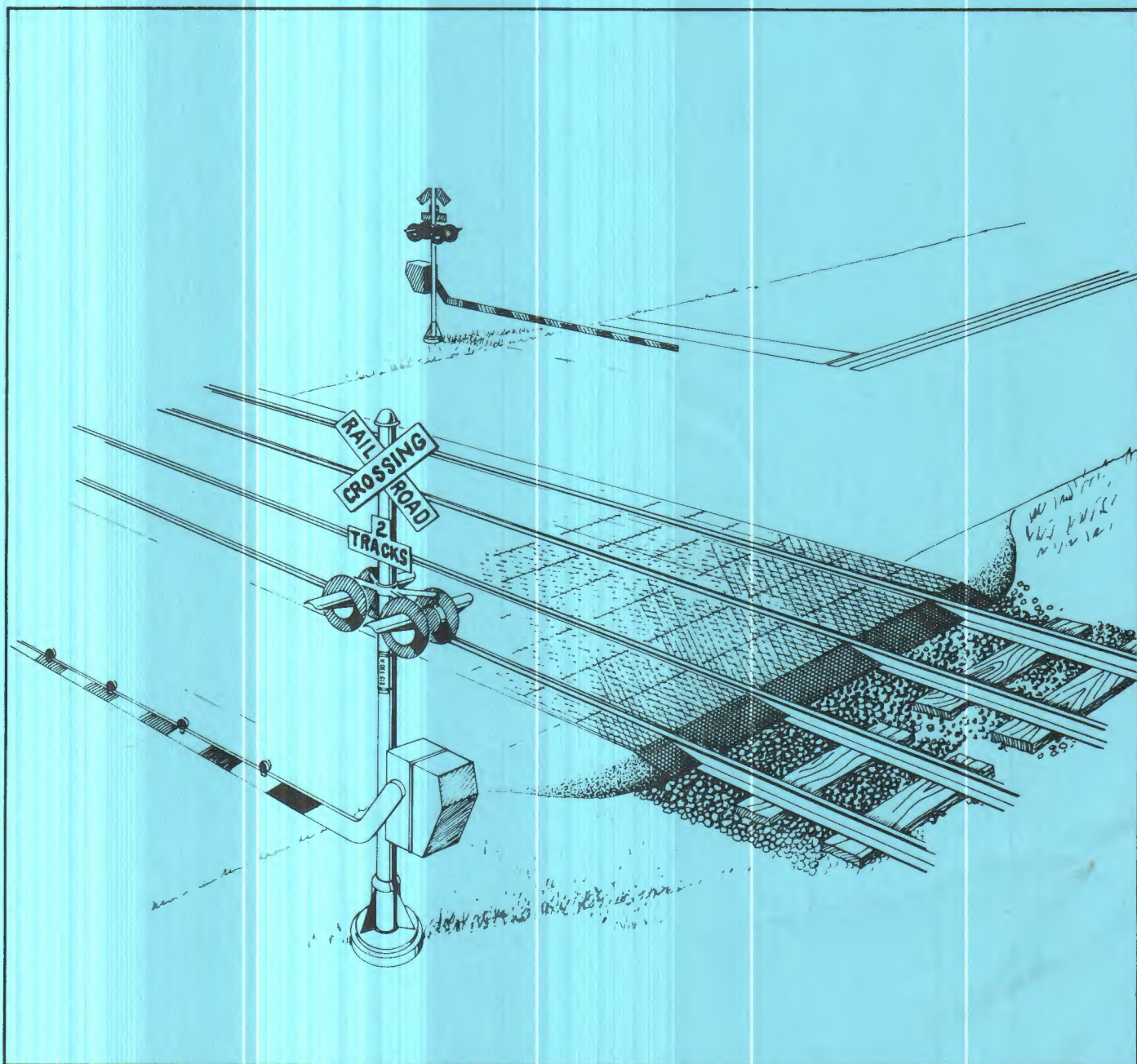
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LIST OF ABBREVIATIONS

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

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

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

* * * * *

Section 1 presents historical data on rail-highway crossing accidents/ incidents for 1978 through 1983.

Section 2 contains 1983 accident/incident statistics obtained from the rail-highway crossing accident/incident file and the railroad casualty file.

Section 3 combines information from the rail-highway crossing accident/incident file with data in the National Rail-Highway Crossing Inventory and highlights relationships between certain grade-crossing characteristics and accident frequencies. (Not all data are reflected in the totals of tables 40, 53, 58, as a consequence of either missing or invalid statistics from the original inventory. These inconsistencies are currently being resolved.)

Section 4 gives the physical and operational statistics for all public, at-grade rail-highway crossings, described in the National Inventory, May 1, 1984.

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

SUMMARY OF RAIL-HIGHWAY CROSSING ACCIDENT/INCIDENTS, 1983

Type of Crossing	Total			Motor Vehicles			Non-Motor Vehicles		
	Accidents	Killed	Injured	Accidents	Killed	Injured	Accidents	Killed	Injured
Public	6,562	542	2,467	6,272	483	2,372	290	59	95
Private	599	33	156	562	29	146	37	4	10
Total	7,161	575	2,623	6,834	512	2,518	327	63	105

1. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS: HISTORICAL DATA 1978-1983

TABLE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, 1978-1983

YEAR	NUMBER OF ACCIDENTS	KILLED	TOTAL INJURED	CASUALTIES	CASUALTIES PER ACCIDENT
1978	12,435	1,021	4,256	5,277	0.42
1979	11,552	834	4,172	5,006	0.43
1980	9,763	788	3,662	4,450	0.46
1981	8,546	697	3,121	3,818	0.45
1982	7,158	580	2,508	3,088	0.43
1983	6,562	542	2,467	3,009	0.46

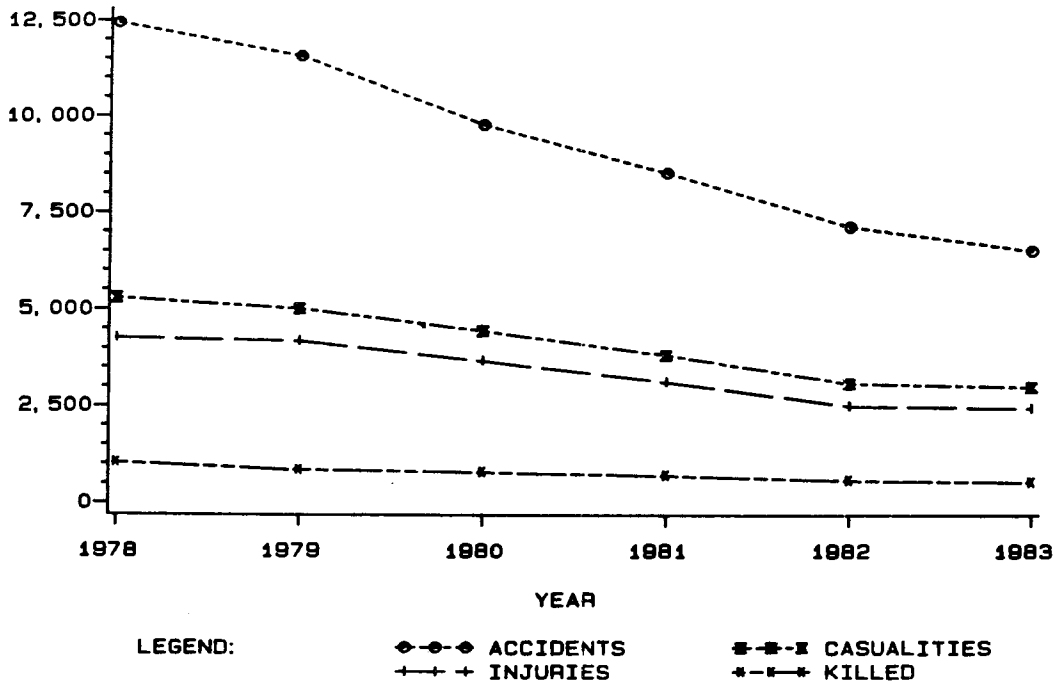


FIGURE 1 SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS, 1978-1983

TABLE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES, 1978-1983

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000) ¹	ACCIDENTS PER MILLION VEHICLES
1978	11,999	153,636	78.10
1979	11,108	157,291	70.62
1980	9,422	161,614	58.30
1981	8,232	163,530	50.34
1982	6,882	164,660	41.80
1983	6,272	167,118	37.53

¹ Figures supplied by the Federal Highway Administration

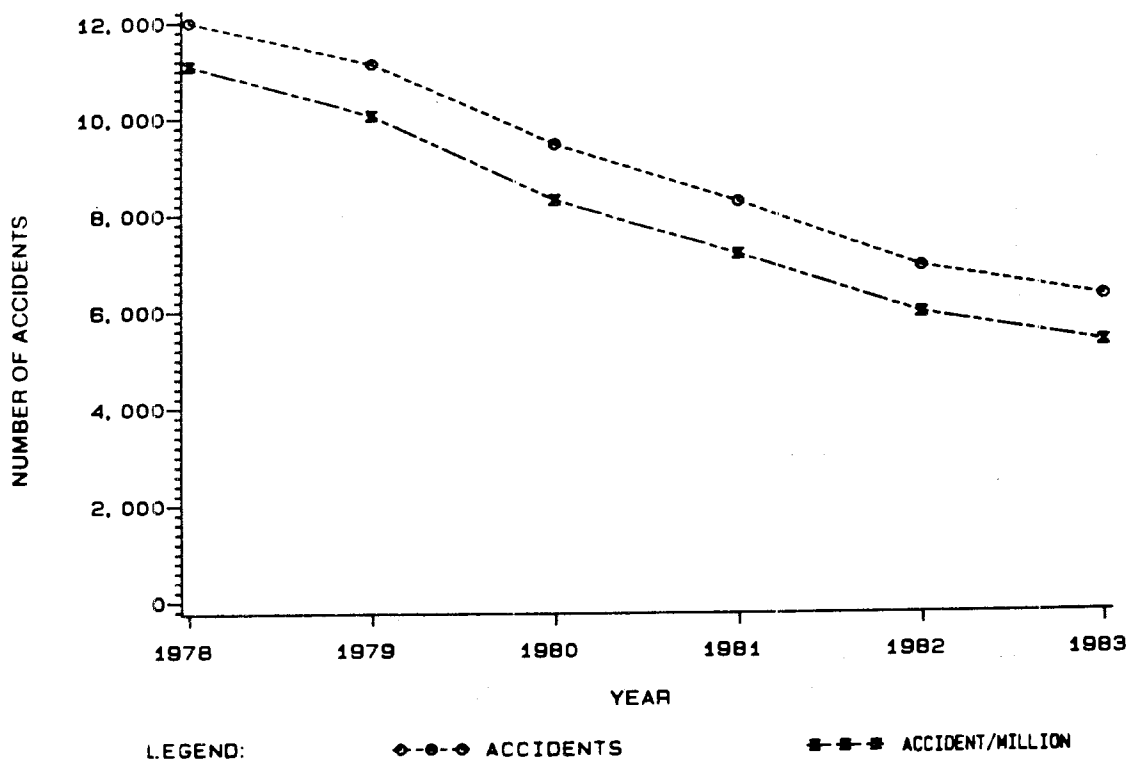


FIGURE 2. SUMMARY OF ACCIDENTS /INCIDENTS AND ACCIDENT RATES AT RAIL-HIGHWAY CROSSING INVOLVING MOTOR VEHICLES, 1978-1983

2. RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS, 1983

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.....	149	9	1.66	68	2.76	77	2.56
Alaska.....	12	3	.55	8	.32	11	.37
Arizona.....	35	4	.74	9	.36	13	.43
Arkansas.....	146	11	2.03	68	2.76	79	2.63
California.....	309	20	3.69	88	3.57	108	3.59
Colorado.....	109	5	.92	50	2.03	55	1.83
Connecticut.....	12	1	.18	6	.24	7	.23
Delaware.....	13	---	---	4	.16	4	.13
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	210	22	4.06	72	2.92	94	3.12
Georgia.....	216	19	3.51	78	3.16	97	3.22
Idaho.....	49	4	.74	24	.97	28	.93
Illinois.....	413	39	7.20	176	7.13	215	7.15
Indiana.....	372	44	8.12	159	6.45	203	6.75
Iowa.....	172	12	2.21	36	1.46	48	1.60
Kansas.....	162	26	4.80	65	2.63	91	3.02
Kentucky.....	92	7	1.29	26	1.05	33	1.10
Louisiana.....	299	12	2.21	113	4.58	125	4.15
Maine.....	21	1	.18	3	.12	4	.13
Maryland.....	41	2	.37	9	.36	11	.37
Massachusetts....	30	---	---	3	.12	3	.10
Michigan.....	232	23	4.24	91	3.69	114	3.79
Minnesota.....	201	15	2.77	51	2.07	66	2.19
Mississippi.....	134	8	1.48	75	3.04	83	2.76
Missouri.....	152	14	2.58	47	1.91	61	2.03
Montana.....	27	4	.74	8	.32	12	.40
Nebraska.....	105	7	1.29	32	1.30	39	1.30
Nevada.....	12	3	.55	2	.08	5	.17
New Hampshire.....	4	---	---	---	---	---	---
New Jersey.....	51	8	1.48	8	.32	16	.53
New Mexico.....	15	1	.18	5	.20	6	.20
New York.....	77	10	1.85	14	.57	24	.80
North Carolina...	193	18	3.32	107	4.34	125	4.15
North Dakota.....	39	1	.18	10	.41	11	.37
Ohio.....	432	48	8.86	173	7.01	221	7.34
Oklahoma.....	186	14	2.58	92	3.73	106	3.52
Oregon.....	64	1	.18	19	.77	20	.66
Pennsylvania.....	108	6	1.11	43	1.74	49	1.63
Rhode Island.....	3	---	---	1	.04	1	.03
South Carolina...	133	11	2.03	44	1.78	55	1.83
South Dakota.....	38	1	.18	14	.57	15	.50
Tennessee.....	113	8	1.48	37	1.50	45	1.50
Texas.....	836	60	11.07	312	12.65	372	12.36
Utah.....	39	11	2.03	19	.77	30	1.00
Vermont.....	7	2	.37	---	---	2	.07
Virginia.....	89	7	1.29	46	1.86	53	1.76
Washington.....	96	6	1.11	23	.93	29	.96
West Virginia....	81	2	.37	26	1.05	28	.93
Wisconsin.....	218	12	2.21	97	3.93	109	3.62
Wyoming.....	15	---	---	6	.24	6	.20
Unknown.....	---	---	---	---	---	---	---
Total.....	6,562	542	100.00	2,467	100.00	3,009	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.....	146	9	67	76	3,110,355	.47	.03	.22
Alaska.....	11	2	8	10	329,012	.33	.06	.24
Arizona.....	29	3	7	10	2,318,188	.13	.01	.03
Arkansas.....	142	11	68	79	1,507,342	.94	.07	.45
California.....	284	12	78	90	17,817,513	.16	.01	.04
Colorado.....	105	5	49	54	2,620,622	.40	.02	.19
Connecticut.....	12	1	6	7	2,333,950	.05	---	.03
Delaware.....	13	---	4	4	426,576	.30	---	.09
Dist. of Columbia	---	---	---	---	237,335	---	---	---
Florida.....	207	20	71	91	8,560,997	.24	.02	.08
Georgia.....	205	19	75	94	4,031,214	.51	.05	.19
Idaho.....	47	4	24	28	926,131	.51	.04	.26
Illinois.....	378	36	156	192	7,537,097	.50	.05	.21
Indiana.....	358	38	152	190	4,045,111	.89	.09	.38
Iowa.....	159	9	36	45	2,581,705	.62	.03	.14
Kansas.....	154	23	62	85	2,185,868	.70	.11	.28
Kentucky.....	88	5	26	31	2,677,892	.33	.02	.10
Louisiana.....	291	12	110	122	2,871,421	1.01	.04	.38
Maine.....	21	1	3	4	791,023	.27	.01	.04
Maryland.....	39	---	9	9	2,969,720	.13	---	.03
Massachusetts....	29	---	2	2	3,848,279	.08	---	.01
Michigan.....	224	22	88	110	6,488,831	.35	.03	.14
Minnesota.....	196	14	49	63	3,451,281	.57	.04	.14
Mississippi.....	131	8	73	81	1,622,493	.81	.05	.45
Missouri.....	148	11	47	58	3,511,028	.42	.03	.13
Montana.....	26	4	7	11	801,599	.32	.05	.09
Nebraska.....	93	7	31	38	1,262,325	.74	.06	.25
Nevada.....	11	2	2	4	732,327	.15	.03	.03
New Hampshire.....	3	---	---	---	830,107	.04	---	---
New Jersey.....	45	3	7	10	5,022,105	.09	.01	.01
New Mexico.....	15	1	5	6	1,253,528	.12	.01	.04
New York.....	69	7	11	18	8,426,289	.08	.01	.01
North Carolina...	191	16	107	123	4,699,165	.41	.03	.23
North Dakota.....	38	1	10	11	684,385	.56	.01	.15
Ohio.....	421	48	167	215	7,915,383	.53	.06	.21
Oklahoma.....	177	11	88	99	2,915,261	.61	.04	.30
Oregon.....	64	1	19	20	2,158,615	.30	---	.09
Pennsylvania.....	105	5	43	48	6,953,280	.15	.01	.06
Rhode Island.....	3	---	1	1	613,161	.05	---	.02
South Carolina...	129	10	42	52	2,009,910	.64	.05	.21
South Dakota.....	37	1	14	15	653,886	.57	.02	.21
Tennessee.....	105	8	36	44	3,464,635	.30	.02	.10
Texas.....	801	59	301	360	11,725,589	.68	.05	.26
Utah.....	38	10	19	29	1,104,478	.34	.09	.17
Vermont.....	6	1	---	1	373,118	.16	.03	---
Virginia.....	85	6	43	49	3,786,320	.22	.02	.11
Washington.....	92	5	23	28	3,378,035	.27	.01	.07
West Virginia....	80	2	26	28	1,195,937	.67	.02	.22
Wisconsin.....	207	10	95	105	3,369,223	.61	.03	.28
Wyoming.....	14	---	5	5	529,875	.26	---	.09
Unknown.....	---	---	---	---	---	---	---	---
Total.....	6,272	483	2,372	2,855	164,659,520	.38	.03	.14

Note: Vehicle registration figures are for 1982 and were supplied by the Federal Highway Administration. Registration figures for Hawaii are omitted because it does not have any reporting railroads.

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

State	Type of Motor Vehicle																	
	---Automobile---			----Truck-----			-Truck Trailer-			-----Bus-----			---School Bus---			---Motorcycle---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	99	5	49	28	2	13	17	1	5	1	---	---	---	---	---	1	1	---
Alaska.....	8	2	6	2	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	20	---	4	7	3	2	1	---	---	---	---	---	---	---	---	1	---	1
Arkansas.....	71	5	34	52	5	24	19	1	10	---	---	---	---	---	---	---	---	---
California.....	209	9	64	49	2	8	22	---	5	---	---	---	1	---	---	3	1	1
Colorado.....	62	3	27	35	2	20	8	---	2	---	---	---	---	---	---	---	---	---
Connecticut.....	11	1	6	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Delaware.....	9	---	2	2	---	---	2	---	2	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	144	10	50	42	9	7	18	---	14	---	---	---	---	---	---	3	1	---
Georgia.....	130	13	50	42	6	16	30	---	7	1	---	---	---	---	---	2	---	2
Idaho.....	22	1	9	18	1	11	7	2	4	---	---	---	---	---	---	---	---	---
Illinois.....	287	29	94	65	3	48	19	1	10	2	---	2	---	---	---	5	3	2
Indiana.....	278	28	101	60	10	47	19	---	3	---	---	---	---	---	---	1	---	1
Iowa.....	107	4	26	39	4	9	12	1	1	---	---	---	---	---	---	1	---	---
Kansas.....	104	15	39	43	4	18	7	4	5	---	---	---	---	---	---	---	---	---
Kentucky.....	63	4	20	24	1	6	1	---	---	---	---	---	---	---	---	---	---	---
Louisiana.....	178	5	62	81	5	35	29	---	12	---	---	---	---	---	---	3	2	1
Maine.....	10	1	1	7	---	2	4	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	27	---	4	7	---	3	5	---	2	---	---	---	---	---	---	---	---	---
Massachusetts....	24	---	2	4	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	181	16	74	32	6	10	7	---	1	1	---	---	---	---	---	3	---	3
Minnesota.....	134	9	31	45	1	12	15	1	6	---	---	---	---	---	---	2	3	---
Mississippi.....	99	5	54	31	3	19	1	---	---	---	---	---	---	---	---	---	---	---
Missouri.....	91	7	35	47	4	10	10	---	2	---	---	---	---	---	---	---	---	---
Montana.....	9	---	6	14	4	1	3	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	59	4	25	22	3	---	12	---	2	---	---	---	---	---	---	---	---	---
Nevada.....	5	---	1	6	2	1	---	---	---	---	---	---	---	---	---	---	---	---
New Hampshire.....	2	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	32	3	6	11	---	---	2	---	1	---	---	---	---	---	---	---	---	---
New Mexico.....	8	1	1	5	---	4	2	---	---	---	---	---	---	---	---	---	---	---
New York.....	48	2	9	17	5	2	4	---	---	---	---	---	---	---	---	---	---	---
North Carolina...	127	11	52	49	4	21	14	1	14	---	---	---	1	---	20	---	---	---
North Dakota.....	25	1	5	12	---	5	1	---	---	---	---	---	---	---	---	---	---	---
Ohio.....	317	40	141	73	6	20	30	1	6	---	---	---	---	---	---	1	1	---
Oklahoma.....	112	8	63	51	3	19	13	---	6	---	---	---	---	---	---	1	---	---
Oregon.....	44	---	10	15	1	9	5	---	---	---	---	---	---	---	---	---	---	---
Pennsylvania.....	72	1	32	25	1	10	4	---	---	---	---	---	---	---	---	4	3	1
Rhode Island.....	1	---	---	2	---	1	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	85	7	34	29	3	6	15	---	2	---	---	---	---	---	---	---	---	---
South Dakota.....	21	1	9	13	---	4	2	---	1	1	---	---	---	---	---	---	---	---
Tennessee.....	80	7	36	20	---	---	4	1	---	---	---	---	---	---	---	1	---	---
Texas.....	489	32	186	237	24	90	67	2	22	---	---	---	---	---	---	8	1	3
Utah.....	24	10	14	9	---	4	5	---	1	---	---	---	---	---	---	---	---	---
Vermont.....	5	1	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	67	6	20	12	---	9	5	---	2	---	---	---	1	---	12	---	---	---
Washington.....	58	1	13	26	4	10	7	---	---	---	---	---	1	---	10	---	---	---
West Virginia....	57	1	20	18	1	5	5	---	1	---	---	---	---	---	---	---	---	---
Wisconsin.....	155	6	76	41	3	16	8	---	1	---	---	---	---	---	---	3	1	2
Wyoming.....	3	---	---	8	---	3	2	---	1	---	---	---	1	---	1	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,273	315	1,603	1,478	135	566	467	16	151	6	---	2	5	---	33	43	17	17

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

State	Type of Train											
	---Freight---			---Passenger---			-Yard Switching			---Other---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	111	8	56	---	---	---	22	---	7	13	1	4
Alaska.....	5	2	6	---	---	---	4	---	2	2	---	---
Arizona.....	14	1	2	2	---	---	10	---	5	3	2	---
Arkansas.....	123	11	61	---	---	---	10	---	5	9	---	2
California.....	194	10	62	10	2	1	48	---	7	32	---	8
Colorado.....	75	5	35	4	---	3	9	---	3	17	---	8
Connecticut.....	8	---	5	3	1	1	---	---	---	1	---	---
Delaware.....	10	---	2	---	---	---	---	---	---	3	---	2
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	156	14	45	16	2	17	15	---	3	20	4	6
Georgia.....	149	13	53	3	---	1	26	2	10	27	4	11
Idaho.....	36	3	17	3	1	2	1	---	---	7	---	5
Illinois.....	232	18	90	48	13	33	42	2	9	56	3	24
Indiana.....	278	34	109	20	4	30	23	---	5	37	---	8
Iowa.....	101	9	26	---	---	---	27	---	5	31	---	5
Kansas.....	124	20	51	8	3	4	9	---	4	13	---	3
Kentucky.....	63	5	21	1	---	1	9	---	---	15	---	4
Louisiana.....	187	6	69	5	2	1	53	3	23	46	1	17
Maine.....	19	1	3	---	---	---	1	---	---	1	---	---
Maryland.....	26	---	3	---	---	---	5	---	5	8	---	1
Massachusetts....	13	---	---	10	---	1	3	---	---	3	---	1
Michigan.....	167	18	74	3	---	---	24	---	6	30	4	8
Minnesota.....	141	11	38	2	3	---	29	---	4	24	---	7
Mississippi.....	94	8	50	2	---	---	16	---	7	19	---	16
Missouri.....	120	11	38	3	---	2	15	---	5	10	---	2
Montana.....	24	4	7	---	---	---	1	---	---	1	---	---
Nebraska.....	67	6	23	3	1	---	11	---	---	12	---	8
Nevada.....	4	2	2	1	---	---	5	---	---	1	---	---
New Hampshire.....	3	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	21	1	2	10	2	2	6	---	---	8	---	3
New Mexico.....	12	1	4	1	---	---	2	---	1	---	---	---
New York.....	51	5	8	11	1	2	2	---	---	5	1	1
North Carolina...	145	14	89	9	1	11	19	1	2	18	---	5
North Dakota.....	27	---	8	3	1	2	3	---	---	5	---	---
Ohio.....	357	47	146	5	---	---	24	1	5	35	---	16
Oklahoma.....	143	11	82	---	---	---	20	---	5	14	---	1
Oregon.....	47	1	14	1	---	---	6	---	1	10	---	4
Pennsylvania.....	75	5	30	12	---	6	5	---	1	13	---	6
Rhode Island.....	---	---	---	2	---	---	---	---	---	1	---	1
South Carolina...	100	6	35	9	4	---	18	---	6	2	---	1
South Dakota.....	24	1	9	---	---	---	8	---	2	5	---	3
Tennessee.....	78	6	22	---	---	---	18	1	7	9	1	7
Texas.....	551	57	237	9	---	9	131	---	29	110	2	26
Utah.....	32	10	15	---	---	---	2	---	1	4	---	3
Vermont.....	3	1	---	1	---	---	1	---	---	1	---	---
Virginia.....	60	6	30	---	---	---	8	---	1	17	---	12
Washington.....	67	5	15	---	---	---	11	---	8	14	---	---
West Virginia....	59	2	23	1	---	---	7	---	---	13	---	3
Wisconsin.....	134	7	80	2	2	1	37	1	8	34	---	6
Wyoming.....	10	---	3	---	---	---	2	---	2	2	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	4,540	406	1,800	223	43	130	748	11	194	761	23	248

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

Railroad	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama Great Southern Railroad.....	2	2	3	---	11	---	---	1	19
Amtrak (National Railroad Passenger Corp.)	36	38	3	---	43	---	1	---	121
Atchison, Topeka and Santa Fe Railway Co..	87	99	11	2	133	---	2	---	334
Baltimore and Ohio Railroad Company.....	17	75	1	11	82	1	---	2	189
Bangor And Arrostook Railroad Company.....	---	4	---	---	2	---	---	---	6
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	7	8	2	4	4	---	---	---	25
Burlington Northern.....	65	149	35	2	357	---	---	20	628
Canadian Pacific Lines In Maine.....	---	---	---	---	1	---	---	---	1
Carolina And Northwestern Rwy Company.....	---	2	---	2	7	---	---	---	11
Central of Georgia Railroad Company.....	2	9	3	4	15	---	---	3	36
Central Vermont Railway Incorporated.....	---	---	---	---	1	---	---	---	1
Chesapeake and Ohio Railway Company.....	18	67	2	1	72	1	1	1	163
Chicago and Northwestern Transportation Co	40	93	19	9	99	1	---	4	265
Chicago And Illinois Midland Railway Co...	1	3	---	---	2	---	---	---	6
Chicago South Shore And South Bend RR.....	3	3	2	---	2	---	---	---	10
Chicago, Milwaukee, St. Paul & Pacific RR.	14	39	17	4	71	3	1	1	150
Cincinnati, New Orleans & Texas Pacific RR	2	3	---	---	4	---	---	---	9
Consolidated Rail Corporation.....	99	185	11	15	203	5	5	7	530
Delaware and Hudson Railroad Company.....	---	3	---	---	4	---	---	---	7
Denver and Rio Grande Western Railroad Co.	2	14	1	---	23	---	2	---	42
Detroit, Toledo and Ironton Railroad Co...	1	2	---	---	11	1	---	---	15
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	3	---	---	---	3
Duluth, Missabe and Iron Range Railway Co.	---	1	---	---	---	---	---	---	1
Elgin, Joliet and Eastern Railway Company.	2	1	---	---	4	---	---	---	7
Florida East Coast Railway Company.....	29	---	---	---	---	---	---	---	29
Georgia Southern And Florida Railway.....	3	4	3	---	5	---	1	1	17
Grand Trunk Western Railroad Company.....	21	23	---	1	27	---	---	---	72
Green Bay And Western Railroad.....	---	6	3	1	9	---	---	---	19
Illinois Central Gulf Railroad.....	17	84	18	9	147	---	---	4	279
Kansas City Southern Railway Company.....	2	31	6	3	37	---	---	---	79
Louisiana & Arkansas Railway Company.....	3	36	---	1	30	---	---	---	70
Maine Central Railroad Company.....	3	4	---	1	6	---	---	---	14
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	50	169	6	5	248	---	7	5	490
Missouri-Kansas-Texas Railroad Company....	13	47	2	2	60	---	---	2	126
Monogahela Railway.....	---	1	---	---	---	---	---	---	1
Norfolk and Western Railway Company.....	56	106	6	5	179	1	3	3	359
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---	---	---
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	1	---	---	---	1
Providence And Worcester Railroad Company.	---	3	---	---	1	---	---	---	4
Richmond, Fredericksburg And Potomac.....	2	---	---	---	---	---	---	---	2
Seaboard System Railroad.....	94	198	43	16	353	2	1	11	718
Soo Line Railroad.....	9	32	---	1	63	---	---	---	105
Southern Pacific Transportation Company...	119	97	32	19	177	10	---	5	459
Southern Railway Company.....	25	67	18	12	124	---	1	9	256
Spokane International Railroad.....	---	---	---	---	1	---	---	---	1
St. Louis Southwestern Railway Company....	8	33	3	1	52	3	---	2	102
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	2	1	1	3	---	---	---	7
Toledo, Peoria And Western Railroad.....	---	4	---	---	4	---	---	---	8
Union Pacific Railroad.....	26	40	8	7	87	2	1	1	172
Western Maryland Railway.....	---	1	---	---	5	---	---	---	6
Western Pacific Railroad Company.....	8	6	4	---	15	---	---	---	33
All Other Railroads.....	61	125	25	14	139	1	3	13	381
Total.....	947	1,919	288	153	2,927	31	29	95	6,389

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

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

TABLE 7A. ACCIDENTS/INCIDENTS AND CASUALTIES BY RAILROAD

Railroad	-----Motor Vehicle-----			-----Other Highway Users-----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	19	5	9	1	---	---	20	3	9
Amtrak (National Railroad Passenger Corp.)	121	1	39	13	1	---	134	2	39
Atchison, Topeka and Santa Fe Railway Co..	334	28	141	24	8	9	358	36	150
Baltimore and Ohio Railroad Company.....	189	7	84	3	1	---	192	8	84
Bangor And Aroostook Railroad Company.....	6	---	2	---	---	---	6	---	2
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	25	---	1	1	---	1	26	---	2
Burlington Northern.....	628	57	154	34	7	4	662	64	158
Canadian Pacific Lines In Maine.....	1	---	---	---	---	---	1	---	---
Carolina And Northwestern Rwy Company.....	11	---	3	---	---	---	11	---	3
Central of Georgia Railroad Company.....	36	---	20	5	---	1	41	---	21
Central Vermont Railway Incorporated.....	1	---	---	1	1	---	2	1	---
Chesapeake and Ohio Railway Company.....	163	13	80	1	---	---	164	13	80
Chicago and Northwestern Transportation Co	265	16	80	21	4	2	286	20	82
Chicago And Illinois Midland Railway Co..	6	1	---	---	---	---	6	1	---
Chicago South Shore And South Bend RR....	10	---	26	5	3	3	15	3	29
Chicago, Milwaukee, St. Paul & Pacific RR.	150	9	35	3	---	1	153	9	36
Cincinnati, New Orleans & Texas Pacific RR	9	---	4	---	---	---	9	---	4
Consolidated Rail Corporation.....	530	64	116	16	4	5	546	68	121
Delaware and Hudson Railroad Company.....	7	---	---	1	---	1	8	---	1
Denver and Rio Grande Western Railroad Co.	42	3	14	1	1	---	43	4	14
Detroit, Toledo and Ironton Railroad Co...	15	1	8	---	---	---	15	1	8
Duluth Winnipeg And Pacific Railway Co....	3	---	1	---	---	---	3	---	1
Duluth, Missabe and Iron Range Railway Co.	1	---	---	---	---	---	1	---	---
Elgin, Joliet and Eastern Railway Company.	7	1	1	---	---	---	7	1	1
Florida East Coast Railway Company.....	29	---	7	---	---	---	29	---	7
Georgia Southern And Florida Railway.....	17	4	4	---	---	---	17	4	4
Grand Trunk Western Railroad Company.....	72	6	33	6	1	5	78	7	38
Green Bay And Western Railroad.....	19	1	5	---	---	---	19	1	5
Illinois Central Gulf Railroad.....	279	14	152	12	1	6	291	15	158
Kansas City Southern Railway Company.....	79	3	25	---	---	---	79	3	25
Louisiana & Arkansas Railway Company.....	70	4	20	1	---	---	71	4	20
Maine Central Railroad Company.....	14	1	1	1	---	---	15	1	1
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	490	45	300	27	1	10	517	46	310
Missouri-Kansas-Texas Railroad Company....	126	4	33	6	---	4	132	4	37
Monogahela Railway.....	1	---	2	---	---	---	1	---	2
Norfolk and Western Railway Company.....	359	31	193	17	1	10	376	32	203
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---	---	---
Pittsburgh & Lake Erie Railroad.....	1	---	---	---	---	---	1	---	---
Providence And Worcester Railroad Company.	4	---	5	---	---	---	4	---	5
Richmond, Fredericksburg And Potomac.....	2	---	---	---	---	---	2	---	---
Seaboard System Railroad.....	718	75	216	22	6	6	740	81	222
Soo Line Railroad.....	105	2	64	9	1	4	114	3	68
Southern Pacific Transportation Company...	459	29	126	21	6	5	480	35	131
Southern Railway Company.....	256	11	115	7	2	1	263	13	116
Spokane International Railroad.....	1	---	1	---	---	---	1	---	1
St. Louis Southwestern Railway Company....	102	9	33	1	---	1	103	9	34
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	7	---	1	1	---	---	8	---	1
Toledo, Peoria And Western Railroad.....	8	---	4	1	---	2	9	---	6
Union Pacific Railroad.....	172	20	87	14	---	2	186	20	89
Western Maryland Railway.....	6	1	2	---	---	---	6	1	2
Western Pacific Railroad Company.....	33	3	6	2	---	2	35	3	8
All Other Railroads.....	381	16	119	24	10	10	405	26	129
Total.....	6,389	483	2,372	302	59	95	6,691	542	2,467

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

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama.....	8	36	14	1	81	1	---	5	146
Alaska.....	---	1	---	---	8	---	1	1	11
Arizona.....	4	8	1	1	14	---	---	1	29
Arkansas.....	8	39	3	4	83	1	1	3	142
California.....	108	71	29	6	63	2	3	2	284
Colorado.....	6	40	4	1	51	---	2	1	105
Connecticut.....	1	7	---	2	2	---	---	---	12
Delaware.....	1	5	2	---	4	---	---	1	13
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	68	63	10	3	60	---	1	2	207
Georgia.....	24	33	21	9	115	---	---	3	205
Idaho.....	2	11	2	---	30	1	---	1	47
Illinois.....	116	129	3	6	123	---	---	1	378
Indiana.....	62	131	11	3	145	1	3	2	358
Iowa.....	11	44	9	4	86	3	---	2	159
Kansas.....	20	38	5	4	85	2	---	---	154
Kentucky.....	9	29	9	4	27	1	2	7	88
Louisiana.....	12	113	10	8	138	1	---	9	291
Maine.....	3	8	---	1	9	---	---	---	21
Maryland.....	5	11	2	4	16	---	---	1	39
Massachusetts.....	8	12	2	5	2	---	---	---	29
Michigan.....	28	102	1	2	87	2	1	1	224
Minnesota.....	16	43	5	4	123	1	1	3	196
Mississippi.....	4	20	14	7	84	---	1	1	131
Missouri.....	18	47	9	3	66	---	3	2	148
Montana.....	3	3	4	---	16	---	---	---	26
Nebraska.....	14	24	5	1	49	---	---	---	93
Nevada.....	2	2	3	---	4	---	---	---	11
New Hampshire.....	---	1	---	---	2	---	---	---	3
New Jersey.....	10	20	---	8	6	---	---	1	45
New Mexico.....	3	7	---	---	5	---	---	---	15
New York.....	23	15	4	2	21	1	1	2	69
North Carolina...	24	42	1	8	111	---	---	5	191
North Dakota.....	5	5	4	---	24	---	---	---	38
Ohio.....	51	134	10	7	216	2	---	1	421
Oklahoma.....	15	50	6	1	105	---	---	---	177
Oregon.....	12	9	3	2	31	6	---	1	64
Pennsylvania.....	11	37	4	3	44	2	1	3	105
Rhode Island.....	1	2	---	---	---	---	---	---	3
South Carolina...	1	29	2	7	89	---	---	1	129
South Dakota.....	---	14	---	---	22	---	---	1	37
Tennessee.....	10	27	10	1	49	1	---	7	105
Texas.....	122	258	26	17	364	1	6	7	801
Utah.....	2	13	1	1	21	---	---	---	38
Vermont.....	---	1	---	---	5	---	---	---	6
Virginia.....	26	32	5	4	17	---	---	1	85
Washington.....	8	12	3	2	51	1	---	15	92
West Virginia....	11	25	1	3	38	1	1	---	80
Wisconsin.....	15	76	27	3	85	---	---	1	207
Wyoming.....	2	3	---	1	8	---	---	---	14
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	913	1,882	285	153	2,885	31	28	95	6,272

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

HIGHWAY USER AND VEHICLE DATA 1983

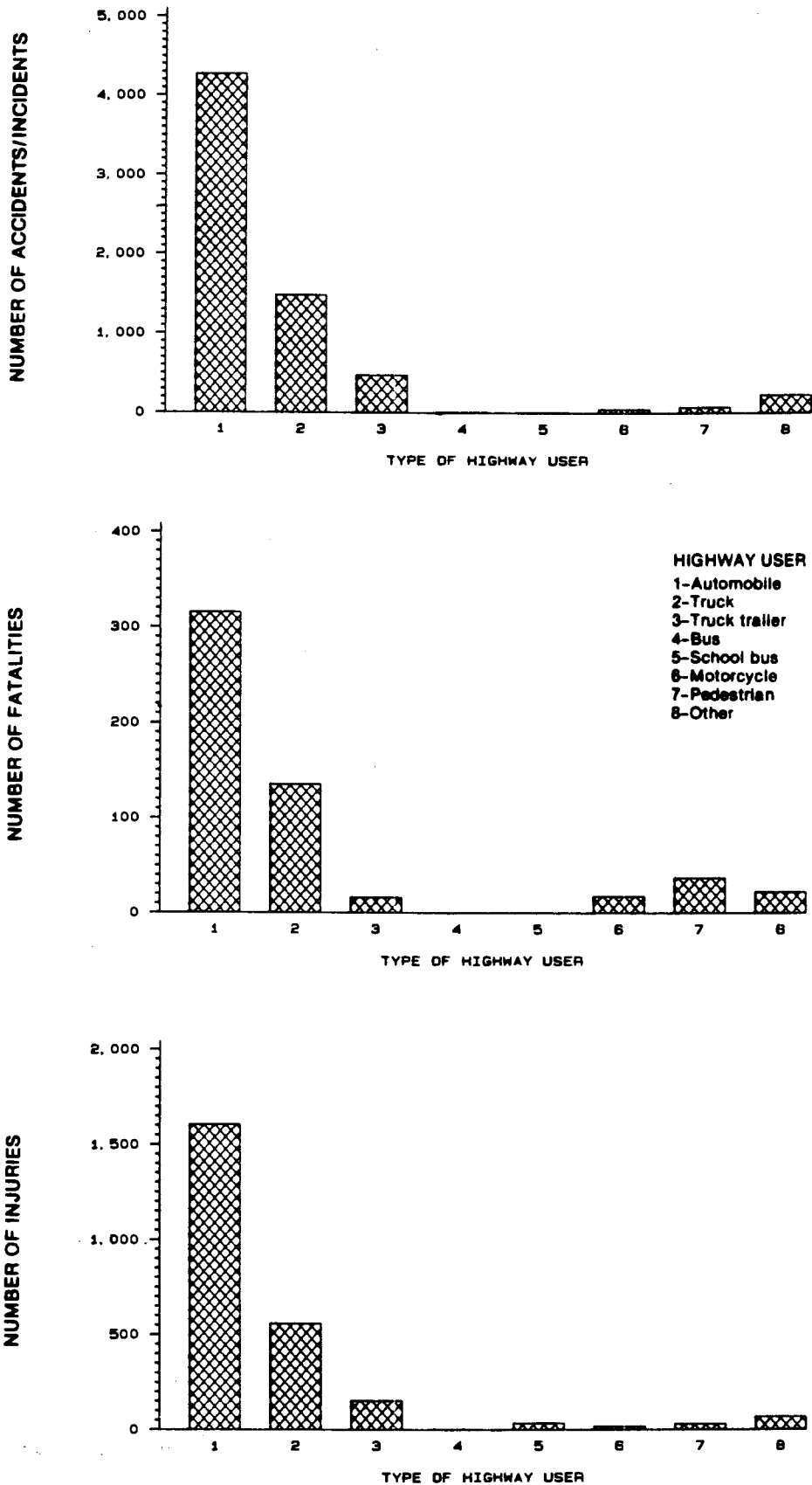


FIGURE 3 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF HIGHWAY USER

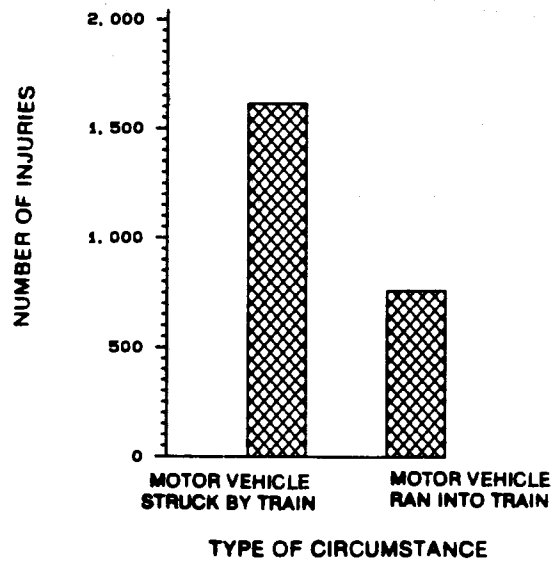
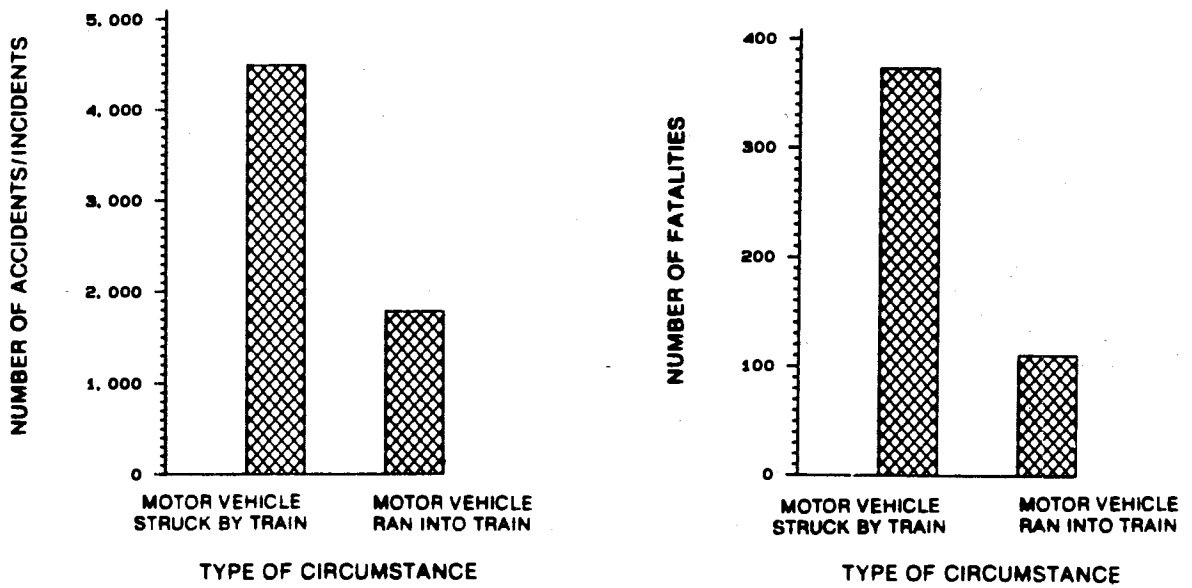


FIGURE 4 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY CIRCUMSTANCE

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

Type Of Vehicle	----Acc/Inc----		----Killed----		----Injured----		Fatal Acc/Inc	Injury Acc/Inc
	No.	%	No.	%	No.	%		
Automobile.....	4,273	65.12	315	58.12	1,603	64.98	251	1,101
Truck.....	1,478	22.52	135	24.91	566	22.94	104	406
Truck-trailer....	467	7.12	16	2.95	151	6.12	14	107
Bus.....	6	.09	---	---	2	.08	---	1
School bus.....	5	.08	---	---	33	1.34	---	3
Motorcycle.....	43	.66	17	3.14	17	.69	15	15
Pedestrian.....	68	1.04	37	6.83	29	1.18	37	28
Other.....	222	3.38	22	4.06	66	2.68	19	50
Total.....	6,562	100.00	542	100.00	2,467	100.00	440	1,711

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	4,490	71.59	373	77.23	1,614	68.04	298	1,072
Ran into consist.	1,782	28.41	110	22.77	758	31.96	86	561
Total.....	6,272	100.00	483	100.00	2,372	100.00	384	1,633

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

Type of Vehicle	# of A/I	Occupants Per A/IOccupants....		Vehicle Damage Per A/I(\$)	Vehicles Resigtered	Accidents Per Million Vehicles
			Killed Per A/I	Injured Per A/I			
Automobiles..	4,273	1.28	.07	.37	1,566	123,169,738	34.69
Trucks.....	1,945	1.13	.08	.31	4,374	35,197,962	55.26
Buses.....	11	16.09	-	3.18	6,882	555,819	19.79
Motorcycles..	43	1.02	.40	.40	929	5,736,001	7.50
Total.....	6,272	1.26	.08	.35	2,442	164,659,520	38.09

NOTE: Vehicle registration figures are for 1982 and were supplied by the Federal Highway Administration. They do not include counts for the state of Hawaii.

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

Type Of Vehicle	VISIBILITY											
	-----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.....	65	3	15	1,606	136	621	116	15	35	1,249	99	384
Truck.....	23	1	8	675	55	281	40	3	17	307	46	94
Truck-trailer....	10	---	4	303	11	93	7	---	2	66	---	21
Bus.....	---	---	---	2	---	2	---	---	---	2	---	---
School bus.....	---	---	---	4	---	33	---	---	---	1	---	---
Motorcycle.....	---	---	---	9	3	4	---	---	---	5	1	---
Total.....	98	4	27	2,599	205	1,034	163	18	54	1,630	146	499
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	24	---	8	459	14	179	29	1	13	725	47	348
Truck.....	15	---	2	205	10	66	12	4	1	201	16	97
Truck-trailer....	1	---	---	65	4	26	2	---	1	13	1	4
Bus.....	---	---	---	---	---	---	1	---	---	1	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	1	1	---	16	6	6	---	---	---	12	6	7
Total.....	41	1	10	745	34	277	44	5	15	952	70	456
GRAND TOTAL												
Automobile.....	89	3	23	2,065	150	800	145	16	48	1,974	146	732
Truck.....	38	1	10	880	65	347	52	7	18	508	62	191
Truck-trailer....	11	---	4	368	15	119	9	---	3	79	1	25
Bus.....	---	---	---	2	---	2	1	---	---	3	---	---
School bus.....	---	---	---	4	---	33	---	---	---	1	---	---
Motorcycle.....	1	1	---	25	9	10	---	---	---	17	7	7
Total.....	139	5	37	3,344	239	1,311	207	23	69	2,582	216	955

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

Type Of Vehicle	TYPE OF PERSON														Total		A/I
	---EOD---		---ENOD---		---PSGR---		---NONT---		---TRES---		---CONT---		Kld	Inj	Kld	Inj	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj					
RAIL CONSIST STRUCK HIGHWAY USER																	
Automobile.....	---	22	---	---	---	2	235	945	18	86	---	---	253	1,055	3,036		
Truck.....	---	16	---	---	---	40	96	329	9	15	---	---	105	400	1,045		
Truck-trailer....	---	49	---	---	---	1	11	67	---	3	---	---	11	120	386		
Bus.....	---	---	---	---	---	---	---	2	---	---	---	---	---	2	4		
School bus.....	---	---	---	---	---	---	---	33	---	---	---	---	---	33	5		
Motorcycle.....	---	---	---	---	---	4	4	---	---	---	---	---	4	4	14		
Pedestrian.....	---	---	---	---	---	11	8	25	12	---	---	---	36	20	58		
Other.....	---	1	---	---	---	1	15	39	5	5	---	---	20	46	179		
Total.....	---	88	---	---	---	44	372	1,427	57	121	---	---	429	1,680	4,727		
HIGHWAY USER STRUCK RAIL CONSIST																	
Automobile.....	---	6	---	1	---	1	52	497	10	43	---	---	62	548	1,237		
Truck.....	1	2	---	---	---	---	29	159	---	5	---	---	30	166	433		
Truck-trailer....	---	3	---	---	---	---	5	27	---	1	---	---	5	31	81		
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2		
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Motorcycle.....	---	---	---	---	---	---	11	11	2	2	---	---	13	13	29		
Pedestrian.....	---	---	---	---	---	---	1	4	---	5	---	---	1	9	10		
Other.....	---	---	---	---	---	---	1	15	1	5	---	---	2	20	43		
Total.....	1	11	---	1	---	1	99	713	13	61	---	---	113	787	1,835		
GRAND TOTAL																	
Automobile.....	---	28	---	1	---	3	287	1,442	28	129	---	---	315	1,603	4,273		
Truck.....	1	18	---	---	---	40	125	488	9	20	---	---	135	566	1,478		
Truck-trailer....	---	52	---	---	---	1	16	94	---	4	---	---	16	151	467		
Bus.....	---	---	---	---	---	---	---	2	---	---	---	---	---	2	6		
School bus.....	---	---	---	---	---	---	---	33	---	---	---	---	---	33	5		
Motorcycle.....	---	---	---	---	---	---	15	15	2	2	---	---	17	17	43		
Pedestrian.....	---	---	---	---	---	---	12	12	25	17	---	---	37	29	68		
Other.....	---	1	---	---	---	1	16	54	6	10	---	---	22	66	222		
Total.....	1	99	---	1	---	45	471	2,140	70	182	---	---	542	2,467	6,562		

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

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

Visibility

Speed Of Vehicle	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	27	---	1	891	27	232	51	1	10	659	16	66	1,628	44	309
1-9.....	26	3	5	504	43	215	35	4	6	279	15	90	844	65	316
10-19.....	20	1	6	476	56	230	30	5	12	261	26	112	787	88	360
20-29.....	11	---	6	307	22	133	25	1	16	176	22	94	519	45	249
30-39.....	3	---	1	169	23	92	10	5	5	93	26	52	275	54	150
40-49.....	3	---	2	61	13	42	5	1	4	33	19	28	102	33	76
50-59.....	1	---	---	27	3	20	2	---	---	16	6	14	46	9	34
60 and over.....	---	---	---	4	---	5	---	---	---	3	1	1	7	1	6
Unknown.....	7	---	6	160	18	65	5	1	1	110	15	42	282	34	114
Total.....	98	4	27	2,599	205	1,034	163	18	54	1,630	146	499	4,490	373	1,614
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	12	---	---	178	---	35	8	---	---	184	5	43	382	5	78
10-19.....	13	---	1	181	6	58	9	1	3	223	3	92	426	10	154
20-29.....	5	---	2	134	7	61	9	---	5	155	8	97	303	15	165
30-39.....	3	---	1	89	5	40	8	1	5	112	7	76	212	13	122
40-49.....	4	---	4	47	4	35	3	---	2	66	10	48	120	14	89
50-59.....	---	---	---	28	9	15	---	---	---	41	13	26	69	22	41
60 and over.....	---	---	---	2	---	3	---	---	---	17	7	10	19	7	13
Unknown.....	4	1	2	86	3	30	7	3	---	154	17	64	251	24	96
Total.....	41	1	10	745	34	277	44	5	15	952	70	456	1,782	110	758
GRAND TOTAL															
Standing.....	27	---	1	891	27	232	51	1	10	659	16	66	1,628	44	309
1-9.....	38	3	5	682	43	250	43	4	6	463	20	133	1,226	70	394
10-19.....	33	1	7	657	62	288	39	6	15	484	29	204	1,213	98	514
20-29.....	16	---	8	441	29	194	34	1	21	331	30	191	822	60	414
30-39.....	6	---	2	258	28	132	18	6	10	205	33	128	487	67	272
40-49.....	7	---	6	108	17	77	8	1	6	99	29	76	222	47	165
50-59.....	1	---	---	55	12	35	2	---	---	57	19	40	115	31	75
60 and over.....	---	---	---	6	---	8	---	---	---	20	8	11	26	8	19
Unknown.....	11	1	8	246	21	95	12	4	1	264	32	106	533	58	210
Total.....	139	5	37	3,344	239	1,311	207	23	69	2,582	216	955	6,272	483	2,372

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.....	557	8	54	655	26	174	3,061	281	1,375
Truck.....	149	2	20	176	8	35	1,153	125	511
Truck-trailer....	34	---	22	49	---	3	384	16	126
Bus.....	2	---	---	---	---	---	4	---	2
School bus.....	---	---	---	2	---	1	3	---	32
Motorcycle.....	2	---	---	2	---	---	39	17	17
Total.....	744	10	96	884	34	213	4,644	439	2,063

TRAIN AND TRACK DATA 1983

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

Speed Of Consist	VISIBILITY												Total		
	Dawn			Day			Dusk			Dark					
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	24	---	1	598	1	93	38	---	2	436	3	81	1,096	4	177
10-19.....	19	---	6	565	7	164	31	---	10	308	3	122	923	10	302
20-29.....	20	---	11	492	27	246	32	1	16	282	19	127	826	47	400
30-39.....	16	2	5	414	47	225	21	1	12	258	21	86	709	71	328
40-49.....	12	2	2	326	65	163	24	7	9	194	53	42	556	127	216
50-59.....	3	---	2	132	31	68	13	4	5	95	26	23	243	61	98
60-69.....	2	---	---	48	21	42	3	3	---	41	14	15	94	38	57
70-79.....	2	---	---	16	4	29	1	2	---	14	6	3	33	12	32
80-89.....	---	---	---	1	1	---	---	---	---	2	1	---	3	2	---
90 and over.....	---	---	---	5	1	3	---	---	---	---	---	---	5	1	3
Unknown.....	---	---	---	2	---	1	---	---	---	---	---	---	2	---	1
Total.....	98	4	27	2,599	205	1,034	163	18	54	1,630	146	499	4,490	373	1,614
HIGHWAY USER STRUCK RAIL CONSIST															
Standing.....	1	---	1	12	---	6	2	---	---	127	4	72	142	4	79
1-9.....	13	---	1	235	2	52	13	2	1	360	12	144	621	16	198
10-19.....	12	---	3	157	---	64	11	1	6	194	13	91	374	14	164
20-29.....	7	1	3	135	4	52	10	1	2	111	9	53	263	15	110
30-39.....	2	---	---	102	11	55	6	---	5	95	16	57	205	27	117
40-49.....	2	---	---	72	7	38	1	---	---	50	9	28	125	16	66
50-59.....	3	---	1	21	5	8	---	---	---	12	5	10	36	10	19
60-69.....	1	---	1	4	3	1	1	1	1	1	2	1	7	6	4
70-79.....	---	---	---	6	2	1	---	---	---	---	---	---	6	2	1
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	1	---	---	---	---	---	2	---	---	3	---	---
Total.....	41	1	10	745	34	277	44	5	15	952	70	456	1,782	110	758
GRAND TOTAL															
Standing.....	1	---	1	12	---	6	2	---	---	127	4	72	142	4	79
1-9.....	37	---	2	833	3	145	51	2	3	796	15	225	1,717	20	375
10-19.....	31	---	9	722	7	228	42	1	16	502	16	213	1,297	24	466
20-29.....	27	1	14	627	31	298	42	2	18	393	28	180	1,089	62	510
30-39.....	18	2	5	516	58	280	27	1	17	353	37	143	914	98	445
40-49.....	14	2	2	398	72	201	25	7	9	244	62	70	681	143	282
50-59.....	6	---	3	153	36	76	13	4	5	107	31	33	279	71	117
60-69.....	3	---	1	52	24	43	4	4	1	42	16	16	101	44	61
70-79.....	2	---	---	22	6	30	1	2	---	14	6	3	39	14	33
80-89.....	---	---	---	1	1	---	---	---	---	2	1	---	3	2	---
90 and over.....	---	---	---	5	1	3	---	---	---	---	---	---	5	1	3
Unknown.....	---	---	---	3	---	1	---	---	---	2	---	---	5	---	1
Total.....	139	5	37	3,344	239	1,311	207	23	69	2,582	216	955	6,272	483	2,372

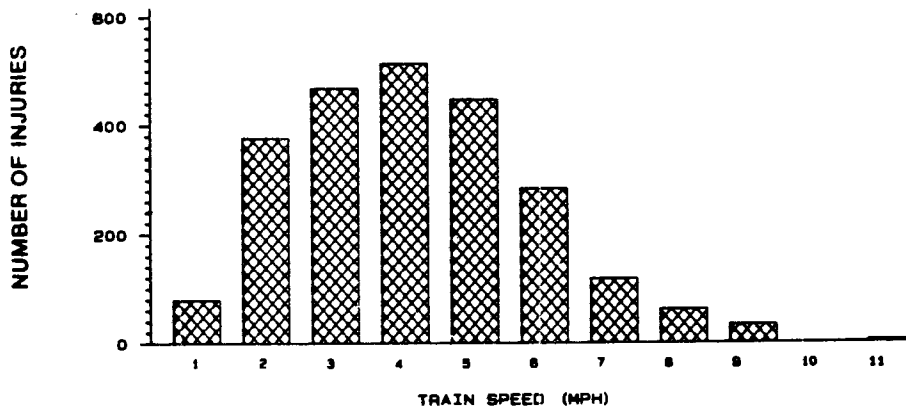
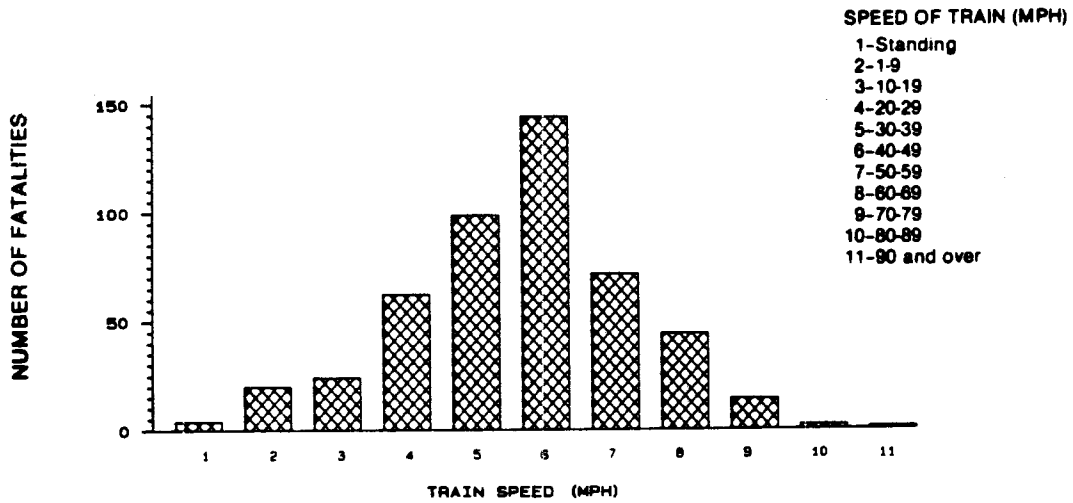
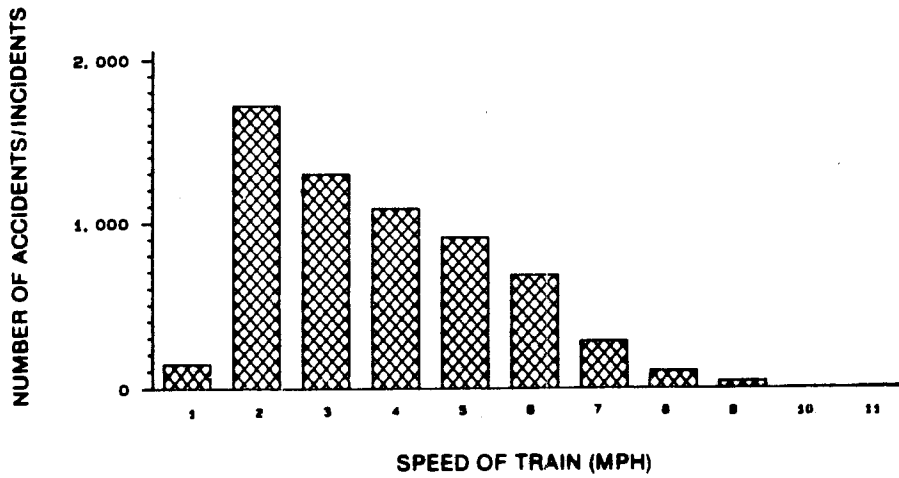


FIGURE 5. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY SPEED OF TRAIN

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

Type Consist	CIRCUMSTANCE											
	Consist Struck Vehicle	Vehicle Struck Consist	Lead Unit	Part Of Consist Struck					Visibility			
				Quarter				Unknown	Dawn	Day	Dusk	Dark
				1	2	3	4					
Train (Units Pulling).	3,732	1,277	773	186	108	74	98	38	108	2,717	180	2,004
Train (Units Pushing).	310	157	67	18	13	13	44	2	9	210	7	241
Train (Standing).....	---	128	28	19	22	18	36	5	1	8	1	118
Cars (Moving).....	95	52	44	---	2	1	3	2	3	132	2	10
Cars (Standing).....	---	6	5	---	---	---	1	---	---	3	---	3
Light Locos (Moving)..	328	133	126	---	---	3	4	---	17	234	15	195
Light Locos (Standing)	---	8	8	---	---	---	---	---	---	1	1	6
Other.....	25	21	19	---	---	---	2	---	1	39	1	5
Total.....	4,490	1,782	1,070	223	145	109	188	47	139	3,344	207	2,582

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.....	97	2	55	1	---	---	30	2	15	14	---	9	142	4	79
1-9.....	783	13	177	17	---	6	520	6	104	397	1	88	1,717	20	375
10-19.....	922	22	340	19	---	4	157	2	57	199	---	65	1,297	24	466
20-29.....	951	53	441	32	2	15	32	1	13	74	6	41	1,089	62	510
30-39.....	846	86	399	32	4	25	3	---	---	33	8	21	914	98	445
40-49.....	613	135	259	36	5	3	4	---	3	28	3	17	681	143	282
50-59.....	243	55	103	22	11	7	2	---	2	12	5	5	279	71	117
60-69.....	76	39	26	24	5	35	---	---	---	1	---	---	101	44	61
70-79.....	6	1	---	32	13	32	---	---	---	1	---	1	39	14	33
80-89.....	---	---	---	3	2	---	---	---	---	---	---	---	3	2	---
90 and over.....	---	---	---	5	1	3	---	---	---	---	---	---	5	1	3
Unknown.....	3	---	---	---	---	---	---	---	---	2	---	1	5	---	1
Total.....	4,540	406	1,800	223	43	130	748	11	194	761	23	248	6,272	483	2,372

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

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

Number Of Cars	----Freight----			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1-9.....	876	51	342	153	27	106	445	5	119	250	6	77	1,724	89	644
10-19.....	476	32	182	55	16	20	141	2	30	18	---	5	690	50	237
20-29.....	287	16	136	2	---	---	68	1	15	10	---	2	367	17	153
30-39.....	279	29	130	1	---	1	28	---	5	3	---	---	311	29	136
40-49.....	306	36	128	---	---	---	23	2	7	7	---	1	336	38	136
50-59.....	323	26	118	---	---	---	10	---	1	3	---	---	336	26	119
60-69.....	301	40	100	1	---	---	7	---	9	---	---	---	309	40	109
70-79.....	313	39	113	---	---	---	8	1	3	---	---	---	321	40	116
80-89.....	274	32	112	---	---	---	4	---	---	2	---	1	280	32	113
90-99.....	256	23	96	1	---	---	2	---	---	---	---	---	259	23	96
100-109.....	234	25	96	---	---	---	2	---	---	1	---	---	237	25	96
110-119.....	259	25	98	1	---	---	---	---	---	1	---	1	261	25	99
120-129.....	128	18	58	---	---	---	1	---	---	---	---	---	129	18	58
130-139.....	80	2	38	---	---	---	---	---	---	---	---	---	80	2	38
140-149.....	48	4	19	---	---	---	---	---	---	1	---	1	49	4	20
150 and over.....	74	6	25	---	---	---	1	---	1	---	---	---	75	6	26
Locomotives only.	26	2	9	9	---	3	8	---	4	465	17	160	508	19	176
Total.....	4,540	406	1,800	223	43	130	748	11	194	761	23	248	6,272	483	2,372

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

Number Of Cars	VISIBILITY														
	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9.....	16	---	3	814	41	338	44	3	9	321	21	100	1,195	65	450
10-19.....	8	---	---	306	19	94	21	4	7	176	14	67	511	37	168
20-29.....	5	---	3	157	8	56	5	---	3	84	4	28	251	12	90
30-39.....	6	1	---	127	12	70	9	1	1	94	9	32	236	23	103
40-49.....	6	2	7	141	11	47	9	5	3	80	9	33	236	27	90
50-59.....	9	---	2	126	6	57	7	---	2	96	17	21	238	23	82
60-69.....	5	---	2	124	19	37	9	1	4	101	11	30	239	31	73
70-79.....	7	---	2	113	21	44	5	---	2	113	12	30	238	33	78
80-89.....	6	1	2	106	14	50	7	---	2	96	13	37	215	28	91
90-99.....	3	---	---	95	10	33	9	---	6	81	9	23	188	19	62
100-109.....	2	---	---	79	10	30	5	---	1	75	7	20	161	17	51
110-119.....	2	---	2	111	13	53	6	1	3	70	6	9	189	20	67
120-129.....	2	---	1	46	5	25	6	3	1	38	3	7	92	11	34
130-139.....	3	---	---	22	1	12	3	---	2	24	---	11	52	1	25
140-149.....	1	---	---	17	1	13	2	---	---	16	1	3	36	2	16
150 And over.....	2	---	1	18	5	7	3	---	4	32	1	5	55	6	17
Locomotives only.	15	---	2	197	9	68	13	---	4	133	9	43	358	18	117
Total.....	98	4	27	2,599	205	1,034	163	18	54	1,630	146	499	4,490	373	1,614
HIGHWAY USER STRUCK RAIL CONSIST															
1-9.....	15	---	2	291	10	96	20	3	8	203	11	88	529	24	194
10-19.....	2	---	2	78	3	27	5	1	4	94	9	36	179	13	69
20-29.....	3	---	1	52	2	20	1	---	---	60	3	42	116	5	63
30-39.....	1	---	---	35	3	16	---	---	---	39	3	17	75	6	33
40-49.....	5	1	2	30	4	15	4	1	1	61	5	28	100	11	46
50-59.....	1	---	---	33	1	7	1	---	---	63	2	30	98	3	37
60-69.....	1	---	---	23	4	5	---	---	---	46	5	31	70	9	36
70-79.....	1	---	1	24	---	12	1	---	---	57	7	25	83	7	38
80-89.....	2	---	---	22	2	7	1	---	---	40	2	15	65	4	22
90-99.....	2	---	1	20	1	8	3	---	1	46	3	24	71	4	34
100-109.....	---	---	---	24	1	19	3	---	---	49	7	26	76	8	45
110-119.....	2	---	1	25	2	10	---	---	---	45	3	21	72	5	32
120-129.....	---	---	---	7	---	7	---	---	---	30	7	17	37	7	24
130-139.....	2	---	---	5	---	3	---	---	---	21	1	10	28	1	13
140-149.....	---	---	---	6	---	3	---	---	---	7	2	1	13	2	4
150 And over.....	2	---	---	5	---	3	1	---	---	12	---	6	20	---	9
Locomotives only.	2	---	---	65	1	19	4	---	1	79	---	39	150	1	59
Total.....	41	1	10	745	34	277	44	5	15	952	70	456	1,782	110	758
GRAND TOTAL															
1-9.....	31	---	5	1,105	51	434	64	6	17	524	32	188	1,724	89	644
10-19.....	10	---	2	384	22	121	26	5	11	270	23	103	690	50	237
20-29.....	8	---	4	209	10	76	6	---	3	144	7	70	367	17	153
30-39.....	7	1	---	162	15	86	9	1	1	133	12	49	311	29	136
40-49.....	11	3	9	171	15	62	13	6	4	141	14	61	336	38	136
50-59.....	10	---	2	159	7	64	8	---	2	159	19	51	336	26	119
60-69.....	6	---	2	147	23	42	9	1	4	147	16	61	309	40	109
70-79.....	8	---	3	137	21	56	6	---	2	170	19	55	321	40	116
80-89.....	8	1	2	128	16	57	8	---	2	136	15	52	280	32	113
90-99.....	5	---	1	115	11	41	12	---	7	127	12	47	259	23	96
100-109.....	2	---	---	103	11	49	8	---	1	124	14	46	237	25	96
110-119.....	4	---	3	136	15	63	6	1	3	115	9	30	261	25	99
120-129.....	2	---	1	53	5	32	6	3	1	68	10	24	129	18	58
130-139.....	5	---	---	27	1	15	3	---	2	45	1	21	80	2	38
140-149.....	1	---	---	23	1	16	2	---	---	23	3	4	49	4	20
150 And over.....	4	---	1	23	5	10	4	---	4	44	1	11	75	6	26
Locomotives only.	17	---	2	262	10	87	17	---	5	212	9	82	508	19	176
Total.....	139	5	37	3,344	239	1,311	207	23	69	2,582	216	955	6,272	483	2,372

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.....	823	18	236	278	2	44	79	---	15	174	5	48	1	---	---	1,355	25	343
2.....	1,360	48	529	69	---	25	22	---	8	29	---	5	1	---	---	1,481	48	567
3.....	1,748	159	758	20	---	11	7	---	1	11	---	---	2	---	2	1,788	159	772
4.....	1,382	219	590	5	---	2	4	---	---	10	---	3	2	---	1	1,403	219	596
5.....	93	26	33	---	---	---	1	---	---	---	---	---	---	---	---	94	26	33
6.....	3	---	1	---	---	---	---	---	---	---	---	---	---	---	---	3	---	1
Unknown.....	71	3	35	44	---	13	10	---	---	20	3	11	3	---	1	148	6	60
Total....	5,480	473	2,182	416	2	95	123	---	24	244	8	67	9	---	4	6,272	483	2,372

WARNING DEVICE DATA 1983

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

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	373	44	149	29	1	7	130	10	34	363	2	49	18	2	2	913	59	241
Cantilever flshrs	---	---	---	32	1	8	263	26	134	86	---	23	2	---	---	383	27	165
Standard flashers	---	---	---	90	7	32	1,063	89	516	322	10	71	24	1	7	1,499	107	626
Hwy Sig, W W, Bells	---	---	---	29	---	4	190	24	79	60	---	14	6	---	2	285	24	99
Special Devices..	---	---	---	19	---	---	115	4	45	17	---	---	2	---	2	153	4	47
Crossbucks.....	---	---	---	140	7	66	1,906	219	910	774	29	170	65	3	25	2,885	258	1,171
Stopsigns.....	---	---	---	2	---	---	15	1	2	11	---	4	3	---	---	31	1	6
Other Signs.....	---	---	---	3	---	---	11	---	1	14	---	2	---	---	---	28	---	3
No Signs Or Signl	---	---	---	3	---	3	46	2	10	37	1	1	9	---	---	95	3	14
Total.....	373	44	149	347	16	120	3,739	375	1,731	1,684	42	334	129	6	38	6,272	483	2,372

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

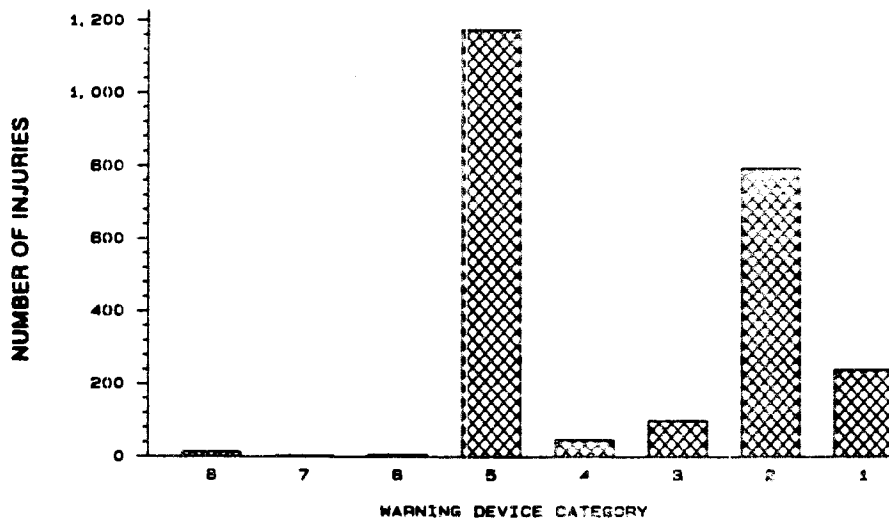
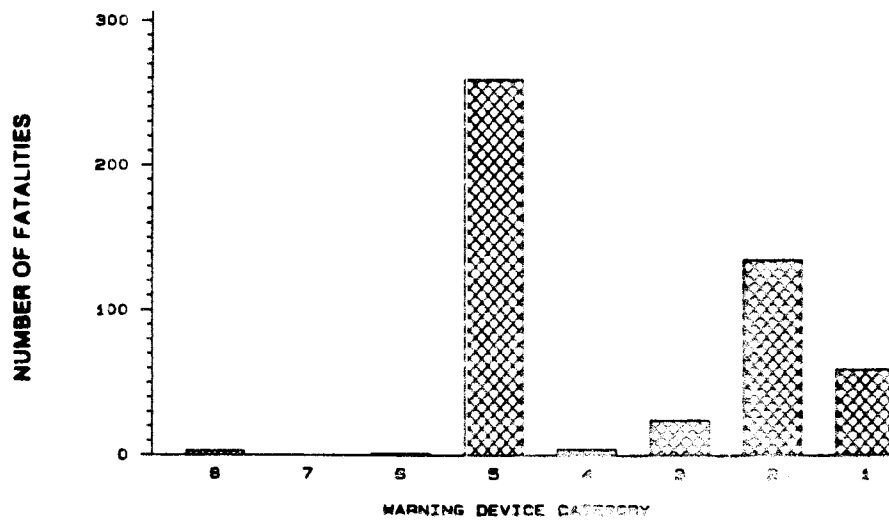
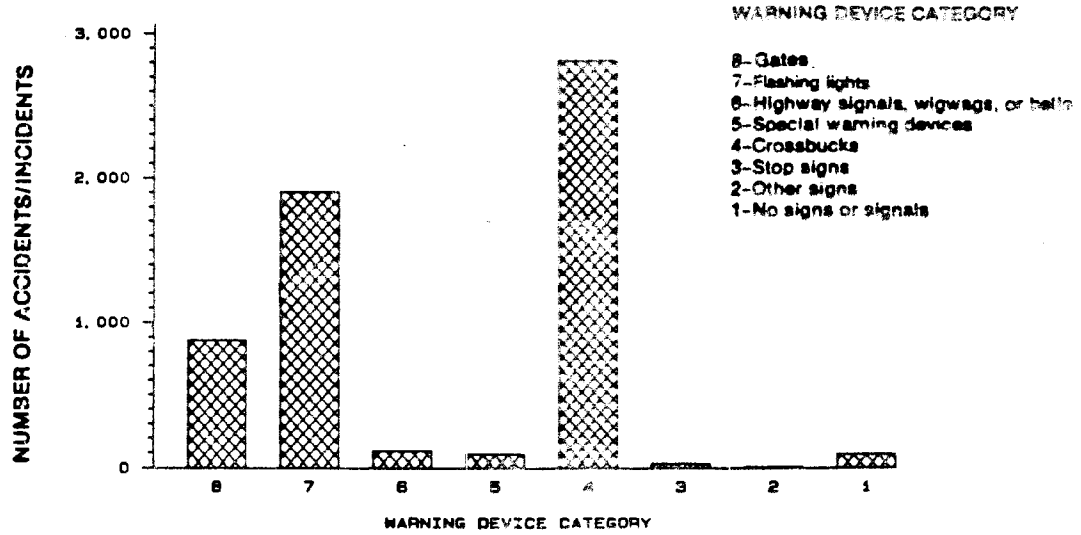


FIGURE 6 ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY WARNING DEVICE CATEGORY

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

Warning Device	--Device Working--			-----Highway User-----							
				-----Struck By Consist-----				-----Ran Into Consist-----			
	Yes	No	N/A	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	362	22	29	14	338	27	347	5	61	3	118
Cantilever flashrs	377	3	3	2	163	7	77	1	53	2	78
Standard flashers	1,465	16	18	20	614	34	347	9	222	11	242
Hwy Sig,W W,Bells	245	3	37	4	104	4	73	1	44	3	52
Special Devices..	----	----	153	2	41	----	47	1	14	1	47
Crossbucks.....	----	----	2,885	54	1,278	87	680	23	336	24	403
Stopsigns.....	----	----	31	1	14	1	6	1	6	----	2
Other Signs.....	----	----	28	----	7	1	10	----	6	----	4
No Signs Or Signl	----	----	95	1	40	2	43	----	3	----	6
Total.....	2,949	44	3,279	98	2,599	163	1,630	41	745	44	952

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.....	950	61	292	451	27	178	1,401	88	470
Not Lighted.....	2,529	243	897	925	52	416	3,454	295	1,313
Not Reported.....	846	62	341	333	28	127	1,179	90	468
Total.....	4,490	373	1,614	1,782	110	758	6,272	483	2,372

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

LOCATION AND TYPE OF WARNING DEVICE AND CIRCUMSTANCE	VISIBILITY														
	-----Dawn-----			-----Day-----			-----Dusk-----			-----Dark-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	35	2	6	1,169	90	448	69	7	19	812	61	254	2,085	160	727
Automatic, Side Of Approach.	3	---	1	42	2	29	2	---	1	25	1	7	72	3	38
Automatic, Opposite Side....	1	---	---	3	---	1	1	---	1	4	1	---	9	1	2
Automatic, Side Not Reported	1	---	---	5	---	3	---	---	---	3	---	1	9	---	4
Manual, Both Sides.....	2	---	---	28	---	4	---	---	---	34	---	14	64	---	18
Manual, Side Of Approach....	---	---	---	8	1	---	---	---	---	9	---	2	17	1	2
Manual, Opposite Side.....	---	---	---	3	---	---	---	---	---	4	---	1	7	---	1
Manual, Side Not Reported...	---	---	---	2	---	1	---	---	---	---	---	---	2	---	1
Other, Both Sides.....	49	2	18	1,209	105	528	84	11	28	657	80	202	1,999	198	776
Other, Side Of Approach.....	5	---	---	60	4	7	3	---	5	28	2	6	96	6	18
Other, Opposite Side.....	1	---	2	25	2	8	2	---	---	6	---	---	34	2	10
Other, Side Not Reported....	---	---	---	5	---	2	---	---	---	5	---	2	10	---	4
No Signs Or Signals.....	1	---	---	40	1	3	2	---	---	43	1	10	86	2	13
Total.....	98	4	27	2,599	205	1,034	163	18	54	1,630	146	499	4,490	373	1,614
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	15	1	4	362	17	145	18	---	6	468	33	193	863	51	348
Automatic, Side Of Approach.	1	---	1	17	---	4	1	---	---	20	1	6	39	1	11
Automatic, Opposite Side....	---	---	---	1	1	1	---	---	---	1	---	---	2	1	1
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
Manual, Both Sides.....	1	---	---	11	1	4	---	---	---	33	2	17	45	3	21
Manual, Side Of Approach....	---	---	---	1	---	---	---	---	---	11	---	2	12	---	2
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	2	---	2	2	---	2
Manual, Side Not Reported...	---	---	---	2	---	---	1	---	---	1	---	---	4	---	---
Other, Both Sides.....	22	---	4	332	15	112	23	5	9	375	29	214	752	49	339
Other, Side Of Approach.....	2	---	1	13	---	11	1	---	---	26	3	16	42	3	28
Other, Opposite Side.....	---	---	---	2	---	---	---	---	---	4	1	2	6	1	2
Other, Side Not Reported....	---	---	---	1	---	---	---	---	---	4	---	3	5	---	3
No Signs Or Signals.....	---	---	---	3	---	---	---	---	---	6	1	1	9	1	1
Total.....	41	1	10	745	34	277	44	5	15	952	70	456	1,782	110	758
GRAND TOTAL															
Automatic, Both Sides.....	50	3	10	1,531	107	593	87	7	25	1,280	94	447	2,948	211	1,075
Automatic, Side Of Approach.	4	---	2	59	2	33	3	---	1	45	2	13	111	4	49
Automatic, Opposite Side....	1	---	---	4	1	2	1	---	1	5	1	---	11	2	3
Automatic, Side Not Reported	1	---	---	5	---	3	---	---	---	4	---	1	10	---	4
Manual, Both Sides.....	3	---	---	39	1	8	---	---	---	67	2	31	109	3	39
Manual, Side Of Approach....	---	---	---	9	1	---	---	---	---	20	---	4	29	1	4
Manual, Opposite Side.....	---	---	---	3	---	---	---	---	---	6	---	3	9	---	3
Manual, Side Not Reported...	---	---	---	4	---	1	1	---	---	1	---	---	5	---	1
Other, Both Sides.....	71	2	22	1,541	120	640	107	16	37	1,032	109	416	2,751	247	1,115
Other, Side Of Approach.....	7	---	1	73	4	18	4	---	5	54	5	22	138	9	46
Other, Opposite Side.....	1	---	2	27	2	8	2	---	---	10	1	2	40	3	12
Other, Side Not Reported....	---	---	---	6	---	2	---	---	---	9	---	5	15	---	7
No Signs Or Signals.....	1	---	---	43	1	3	2	---	---	49	2	11	95	3	14
Total.....	139	5	37	3,344	239	1,311	207	23	69	2,582	216	955	6,272	483	2,372

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

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

CIRCUMSTANCE

Visibility	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Dawn.....	98	4	27	41	1	10	139	5	37
Day.....	2,599	205	1,034	745	34	277	3,344	239	1,311
Dusk.....	163	18	54	44	5	15	207	23	69
Dark.....	1,630	146	499	952	70	456	2,582	216	955
Total.....	4,490	373	1,614	1,782	110	758	6,272	483	2,372

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

CIRCUMSTANCE

Temperature	-----Struck By Consist-----				-----Ran Into Consist-----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Over 100.....	---	7	---	---	---	1	1	---	---	8	1	---
80 To 100.....	6	718	18	98	2	183	7	55	8	901	25	153
60 To 79.....	32	807	50	472	10	222	16	239	42	1,029	66	711
40 To 59.....	25	587	56	553	9	180	9	340	34	767	65	893
20 To 39.....	27	372	30	407	18	109	9	237	45	481	39	644
0 To 19.....	7	90	8	78	---	42	2	62	7	132	10	140
-20 To -1.....	1	18	1	22	1	8	---	16	2	26	1	38
Under -20.....	---	---	---	---	1	---	---	3	1	---	---	3
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	98	2,599	163	1,630	41	745	44	952	139	3,344	207	2,582

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

TIME	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
MID TO 12:59 AM..	143	11	54	110	9	63	253	20	117
1 TO 1:59 AM...	130	8	43	110	18	61	240	26	104
2 TO 2:59 AM...	104	9	28	95	8	48	199	17	76
3 TO 3:59 AM...	77	13	13	48	6	21	125	19	34
4 TO 4:59 AM...	57	7	10	37	3	18	94	10	28
5 TO 5:59 AM...	67	4	13	44	3	13	111	7	26
6 TO 6:59 AM...	118	10	39	49	1	19	167	11	58
7 TO 7:59 AM...	175	11	79	59	---	17	234	11	96
8 TO 8:59 AM...	195	25	67	62	---	26	257	25	93
9 TO 9:59 AM...	209	12	93	65	6	24	274	18	117
10 TO 10:59 AM.	249	17	73	64	7	27	313	24	100
11 TO 11:59 AM.	243	16	131	69	4	29	312	20	160
NOON TO 12:59 PM.	226	14	83	79	---	27	305	14	110
1 TO 1:59 PM...	261	20	102	78	3	26	339	23	128
2 TO 2:59 PM...	265	17	108	72	---	27	337	17	135
3 TO 3:59 PM...	287	29	126	65	3	18	352	32	144
4 TO 4:59 PM...	266	18	78	60	3	21	326	21	99
5 TO 5:59 PM...	251	20	93	60	4	37	311	24	130
6 TO 6:59 PM...	240	30	82	99	9	27	339	39	109
7 TO 7:59 PM...	201	15	58	93	6	49	294	21	107
8 TO 8:59 PM...	185	19	79	94	3	39	279	22	118
9 TO 9:59 PM...	187	8	60	82	8	35	269	16	95
10 TO 10:59 PM.	198	9	60	98	3	42	296	12	102
11 TO 11:59 PM.	156	31	42	90	3	44	246	34	86
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	4,490	373	1,614	1,782	110	758	6,272	483	2,372

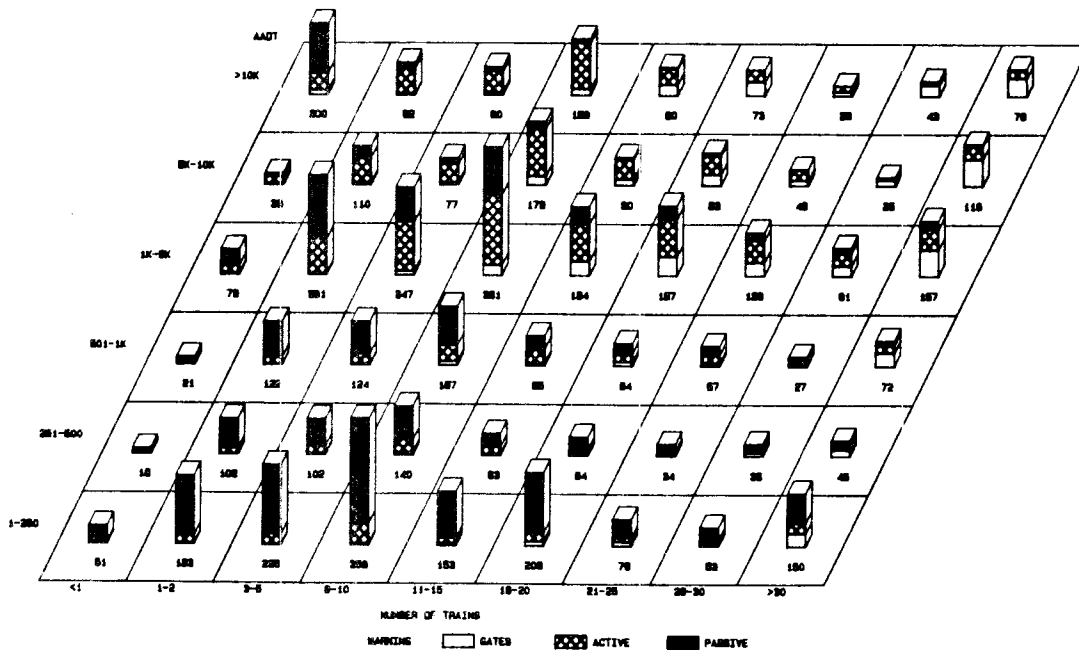
TABLE 29. ACCIDENTS/INCIDENTS AND CASUALTIES AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY MONTH AND CIRCUMSTANCE

Month	CIRCUMSTANCE								
	Struck By Consist			Ran Into Consist			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
January.....	382	29	154	160	4	72	542	33	226
February.....	364	27	107	158	8	61	522	35	168
March.....	345	20	124	147	14	60	492	34	184
April.....	310	42	123	122	12	49	432	54	172
May.....	344	32	131	104	8	42	448	40	173
June.....	308	25	89	128	8	67	436	33	156
July.....	321	23	145	98	7	30	419	30	175
August.....	357	28	167	138	15	66	495	43	233
September.....	387	26	120	142	10	58	529	36	178
October.....	398	41	122	159	10	85	557	51	207
November.....	435	29	162	172	7	73	607	36	235
December.....	539	51	170	254	7	95	793	58	265
Total.....	4,490	373	1,614	1,782	110	758	6,272	483	2,372

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

Weather	CIRCUMSTANCE											
	---Struck By Consist---				---Ran Into Consist---				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Clear.....	55	1,747	98	913	20	482	27	532	75	2,229	125	1,445
Cloudy.....	19	558	46	381	8	144	11	224	27	702	57	605
Rain.....	5	205	15	211	6	78	6	103	11	283	21	314
Fog.....	9	11	---	33	1	11	---	51	10	22	---	84
Sleet.....	1	11	---	8	1	1	---	3	2	12	---	11
Snow.....	9	66	4	84	5	29	---	38	14	95	4	122
Not Reported.....	---	1	---	---	---	---	---	1	---	1	---	1
Total.....	98	2,599	163	1,630	41	745	44	952	139	3,344	207	2,582

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



MOTORIST ACTION DATA 1983

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

Type Obstruction	CIRCUMSTANCE											
	----Struck By Consist----				----Ran Into Consist----				-----Total-----			
	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Permanent structure...	4	111	9	47	1	26	1	24	5	137	10	71
Standing RR Equipment.	1	22	1	13	1	3	---	4	2	25	1	17
Passing Train.....	3	5	---	7	---	---	3	4	3	5	3	11
Topography.....	2	32	2	9	---	6	---	5	2	38	2	14
Vegetation.....	1	68	4	10	---	35	1	7	1	103	5	17
Highway Vehicle.....	---	14	---	8	---	8	---	1	---	22	---	9
Other.....	1	21	---	6	2	6	---	11	3	27	---	17
Not Obstructed.....	86	2,324	146	1,529	37	660	39	895	123	2,984	185	2,424
Unknown.....	---	2	1	1	---	1	---	1	---	3	1	2
Total.....	98	2,599	163	1,630	41	745	44	952	139	3,344	207	2,582

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

Type Of Vehicle	MOTORIST ACTION					
	Struck By Second Train			Passed Standing Vehicle		
	Yes	No	Unknown	Yes	No	Unknown
Automobile.....	101	4,111	61	145	3,759	369
Truck.....	29	1,431	18	39	1,327	112
Truck-trailer....	12	451	4	12	425	30
Bus.....	---	6	---	---	6	---
School bus.....	---	5	---	---	5	---
Motorcycle.....	---	43	---	4	31	8
Total.....	142	6,047	83	200	5,553	519

3. RAIL-HIGHWAY CROSSING ACCIDENT RATES 1983

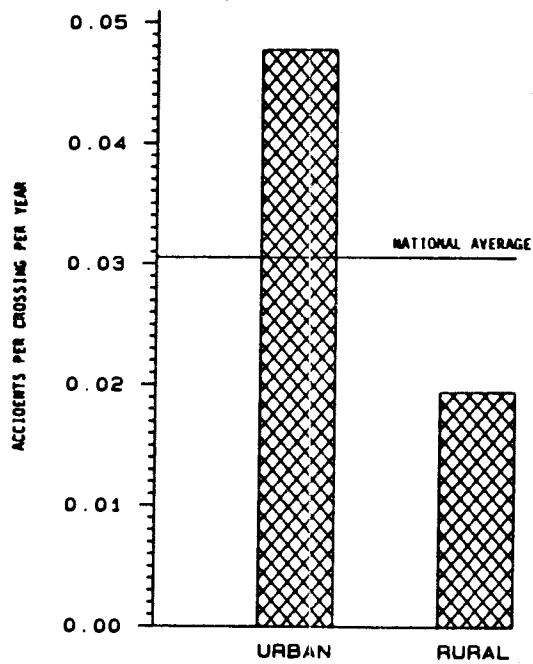


FIGURE 8 CROSSING ACCIDENT RATE BY LOCATION: URBAN OR RURAL

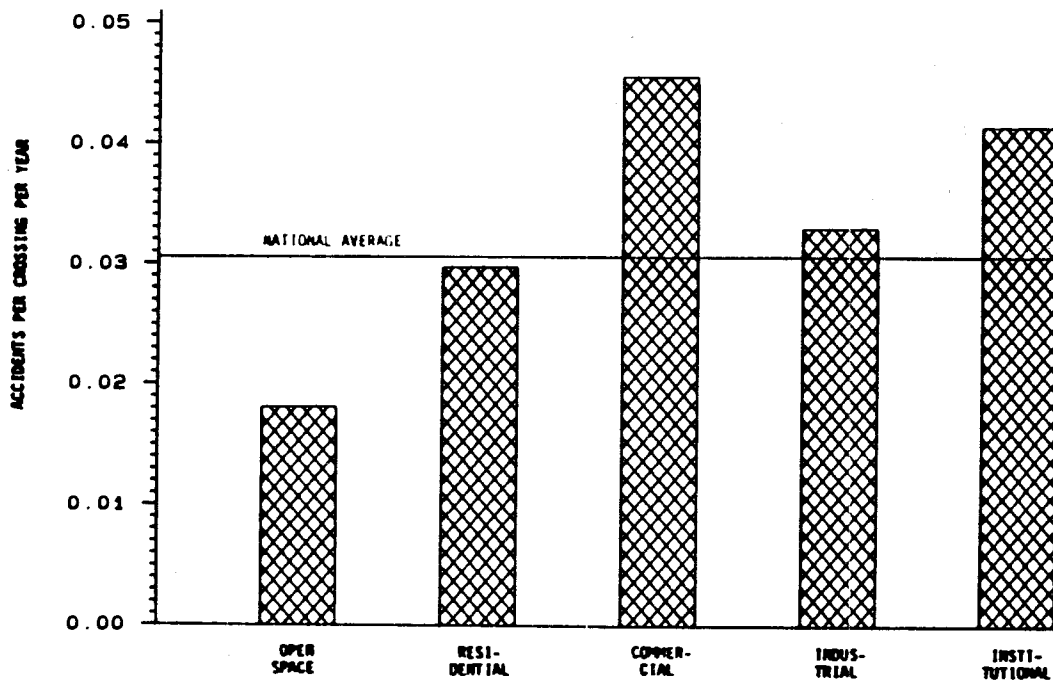


FIGURE 9 CROSSING ACCIDENT RATE BY TYPE OF DEVELOPMENT

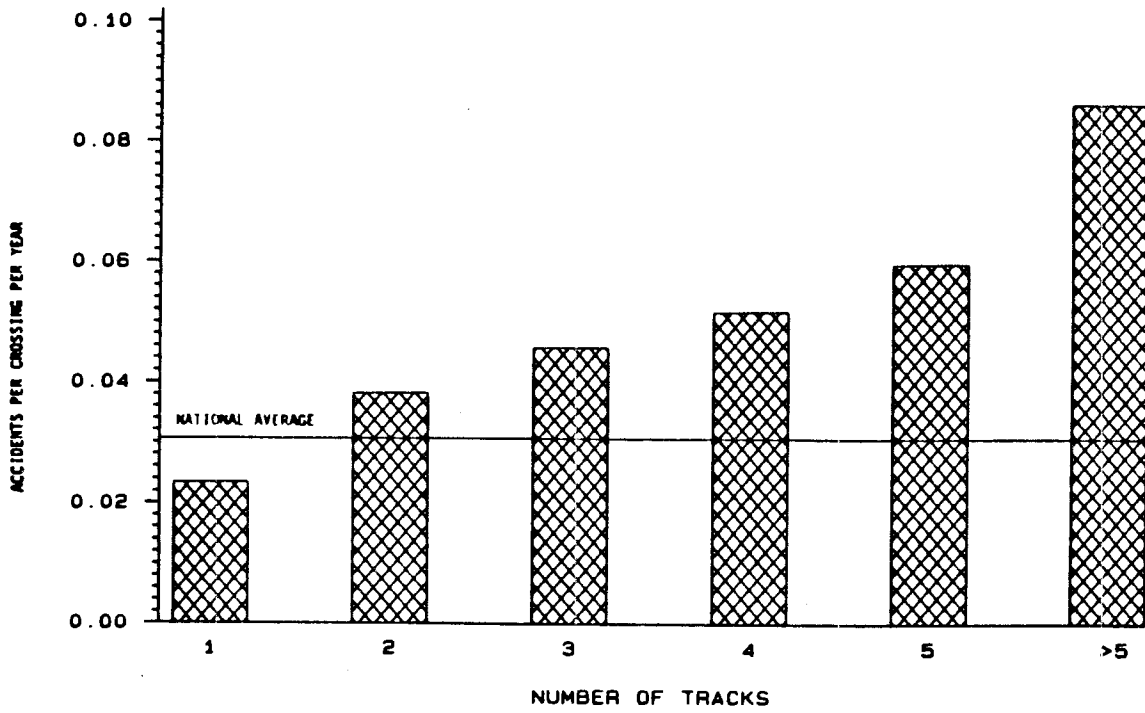


FIGURE 10 CROSSING ACCIDENT RATE BY NUMBER OF TRACKS

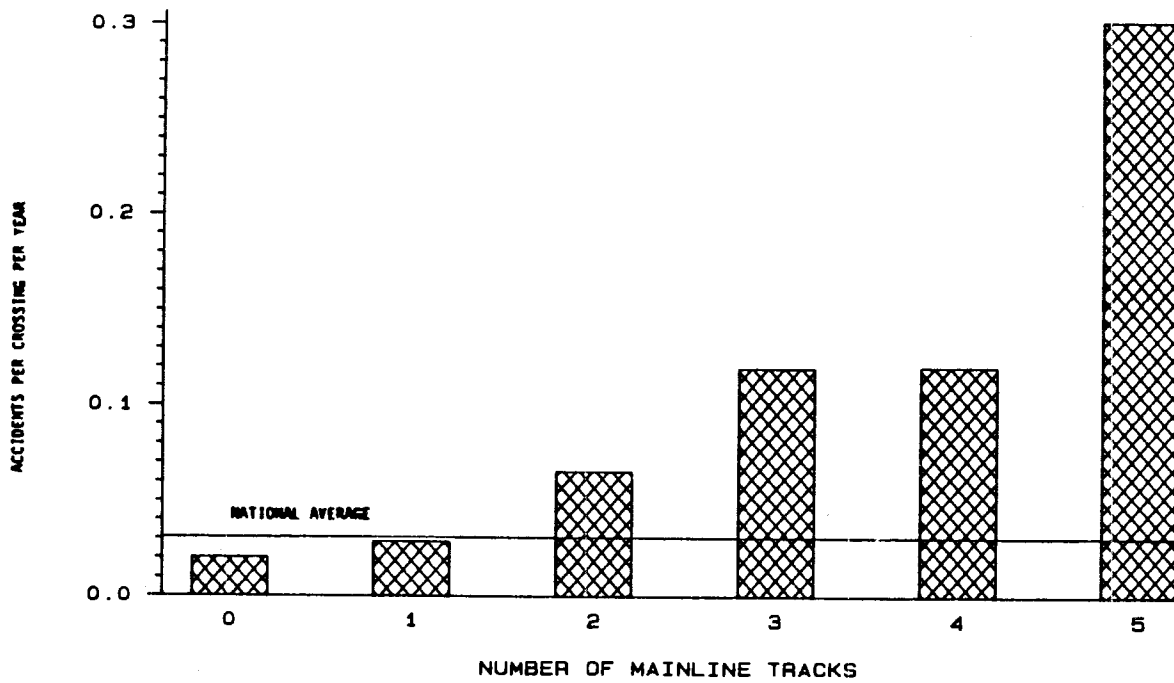


FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS

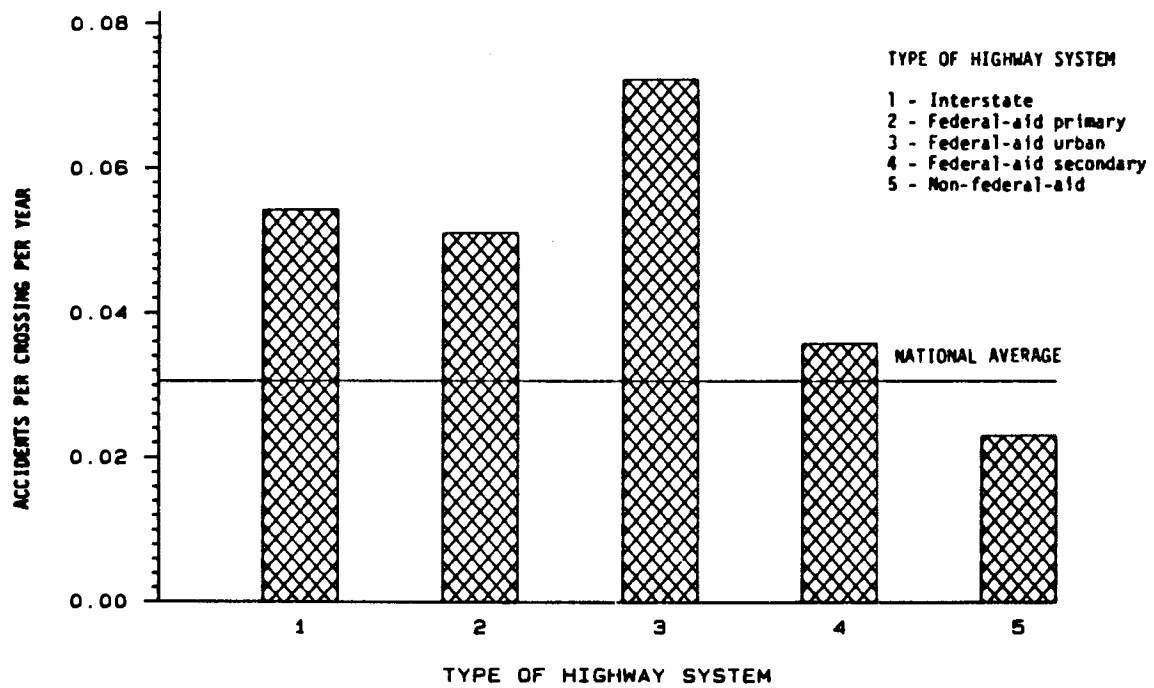


FIGURE 12 CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM

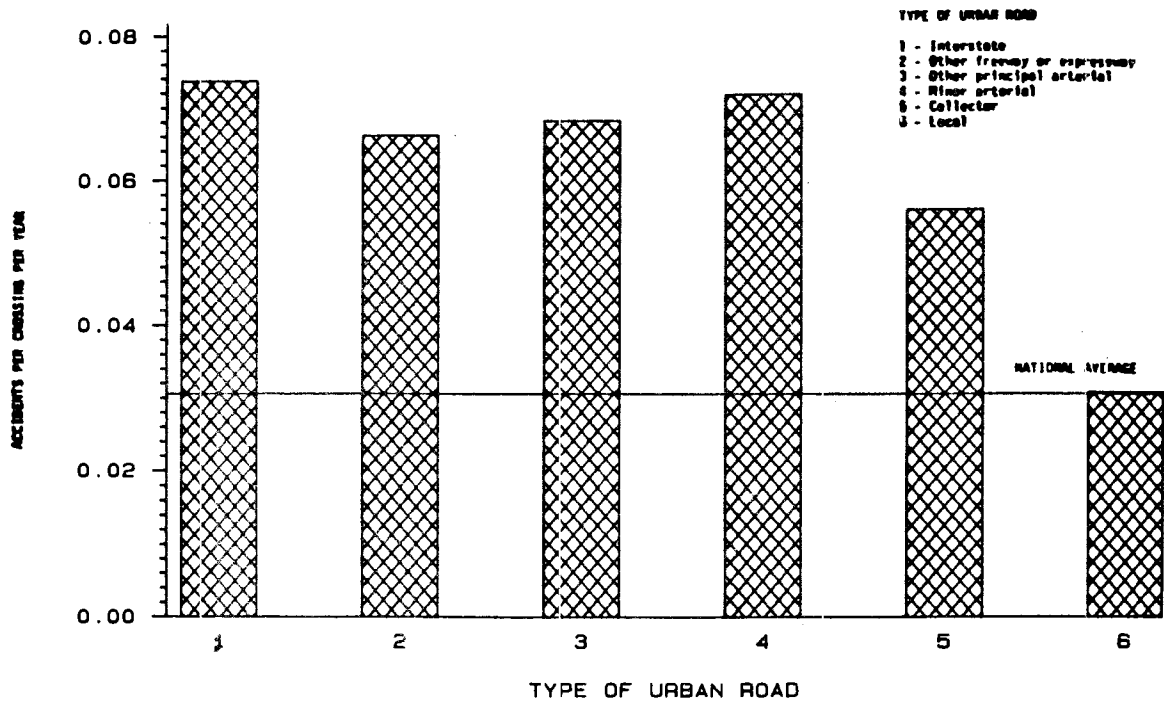


FIGURE 13 CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD

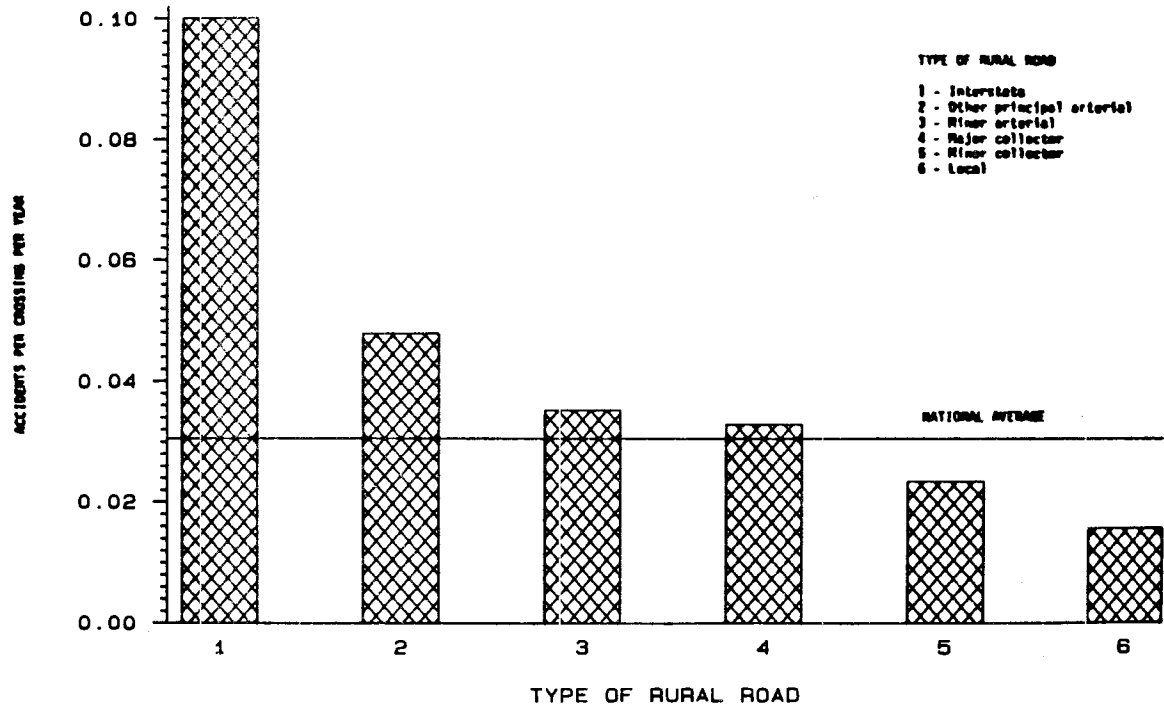


FIGURE 14 CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD

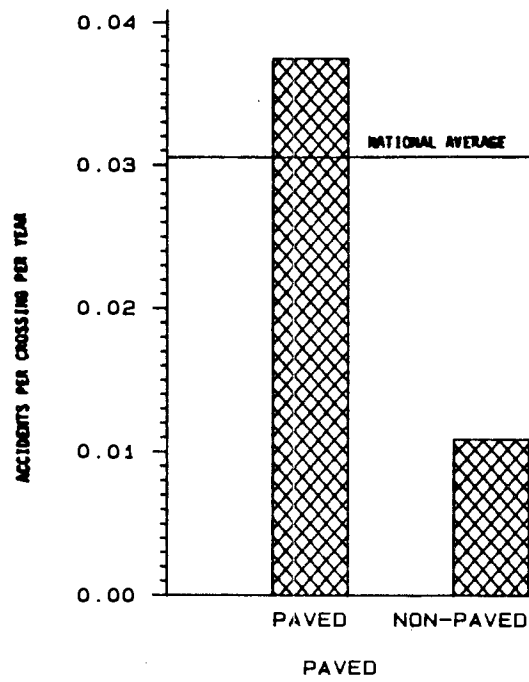


FIGURE 15 CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE

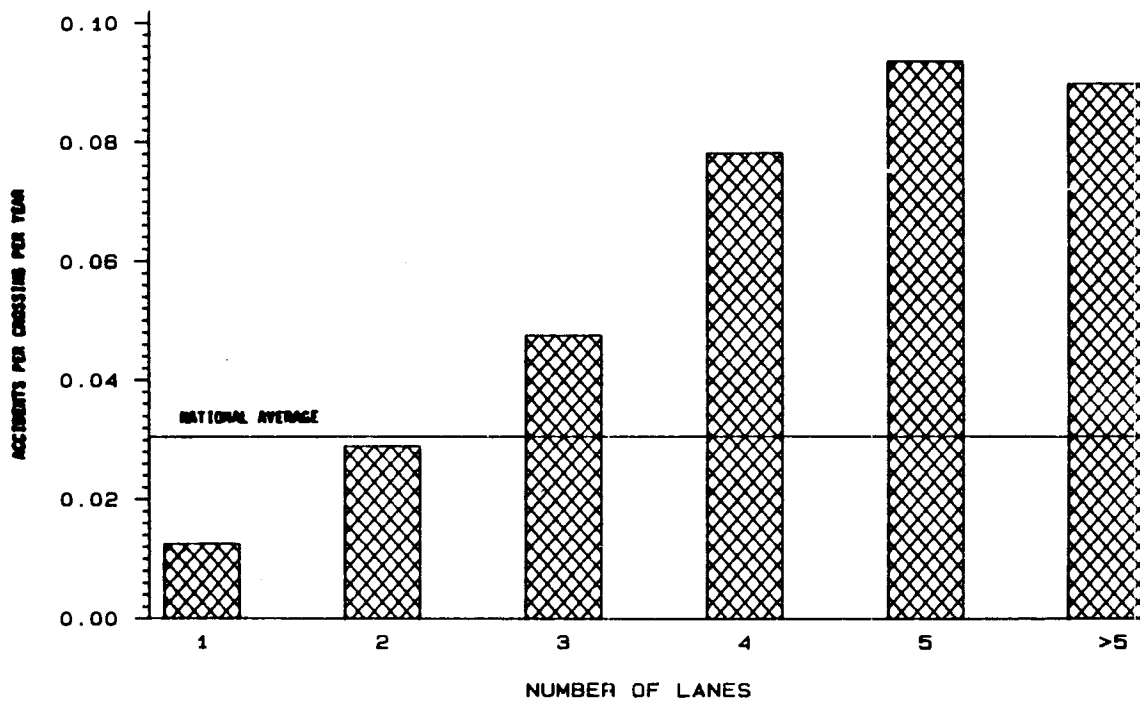


FIGURE 16 CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES

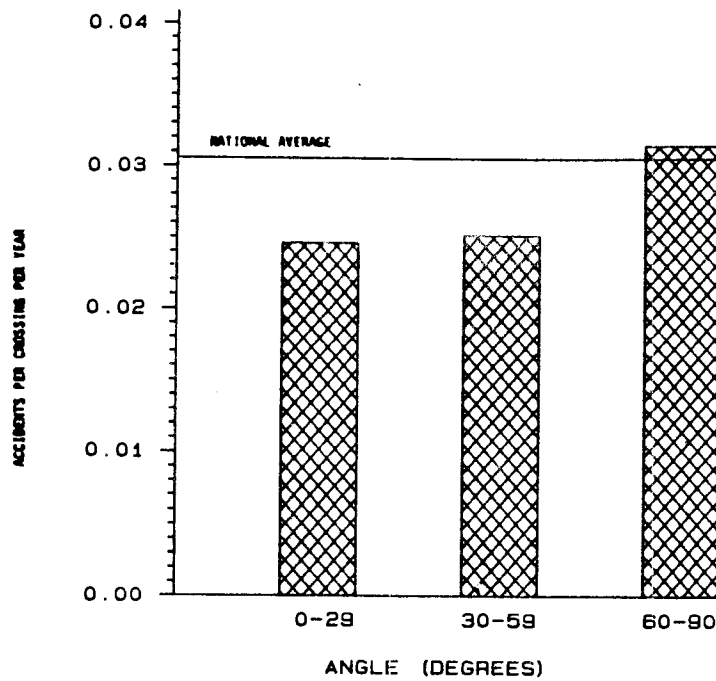


FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE

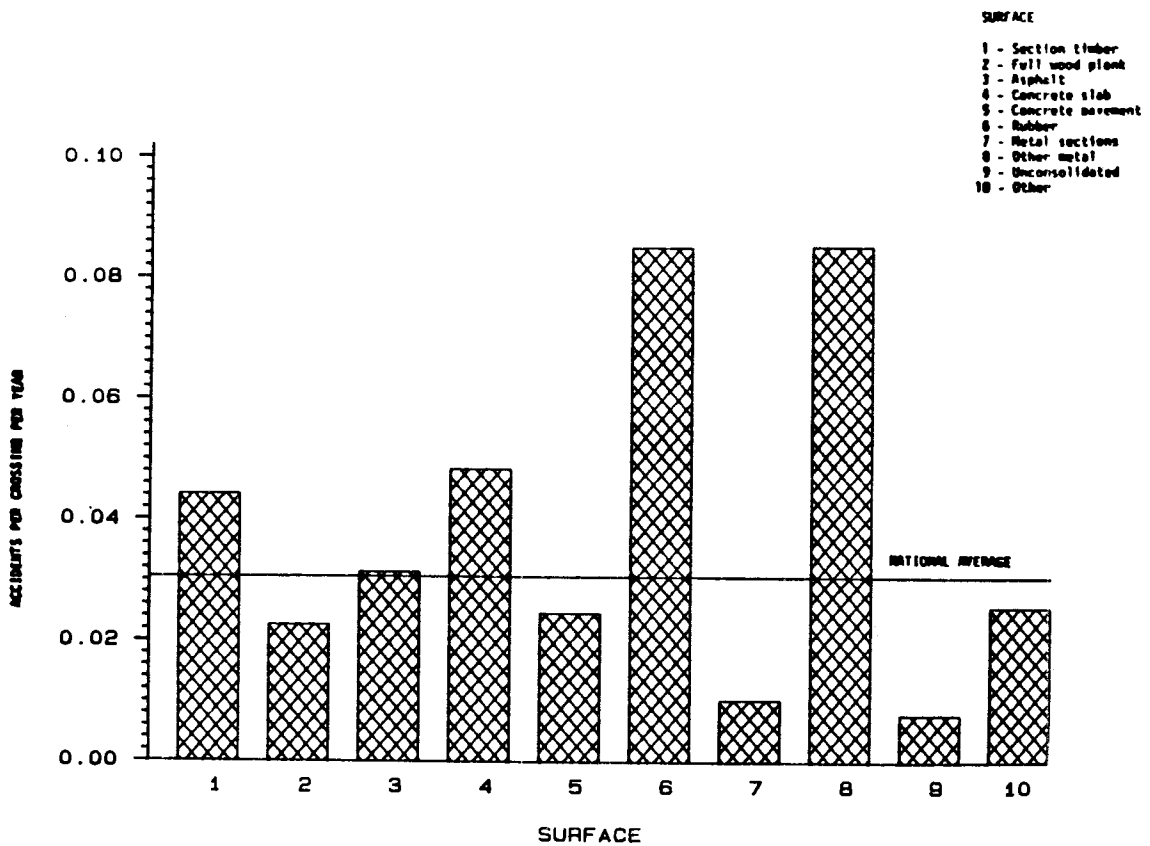


FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE

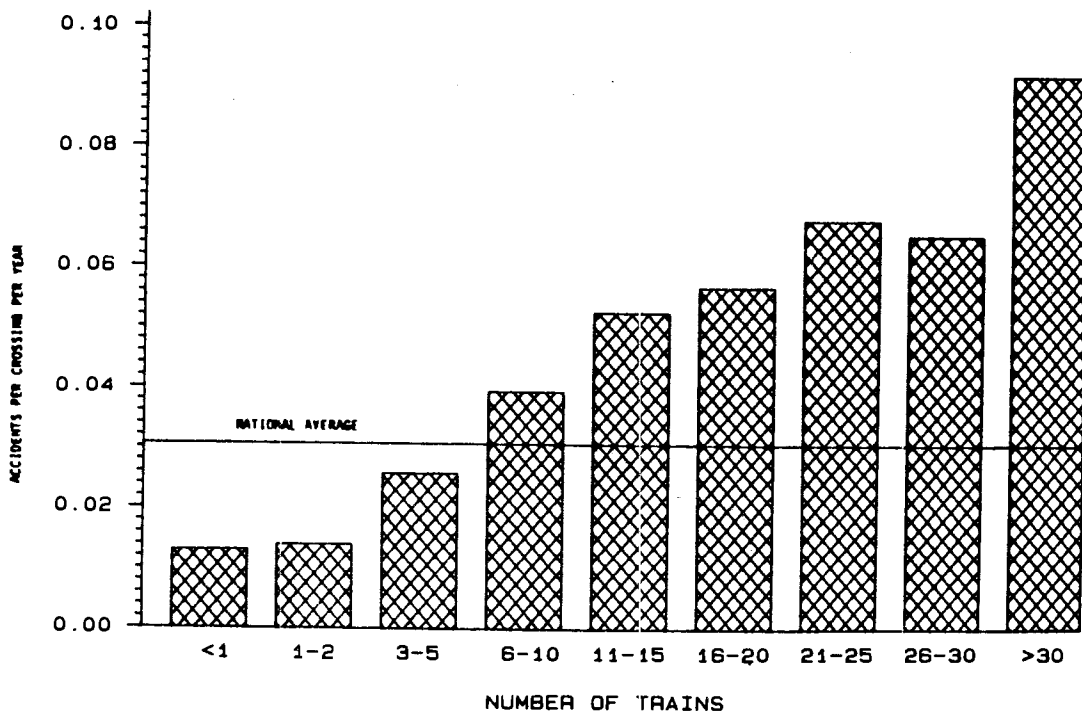


FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY

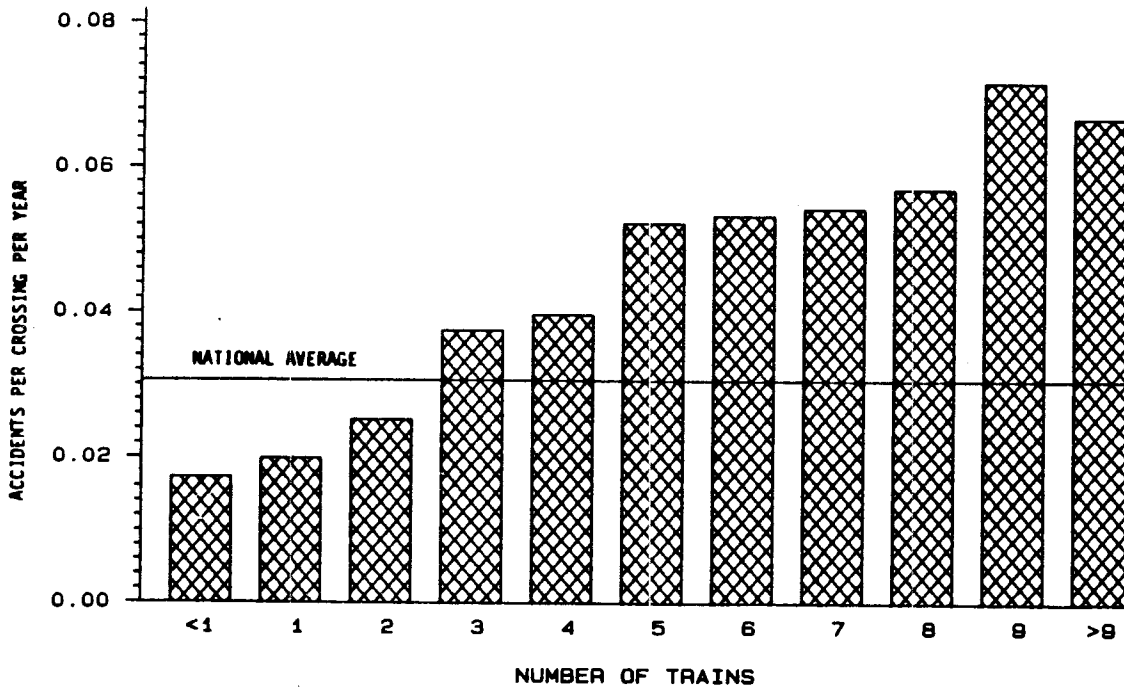


FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6AM to 6PM)

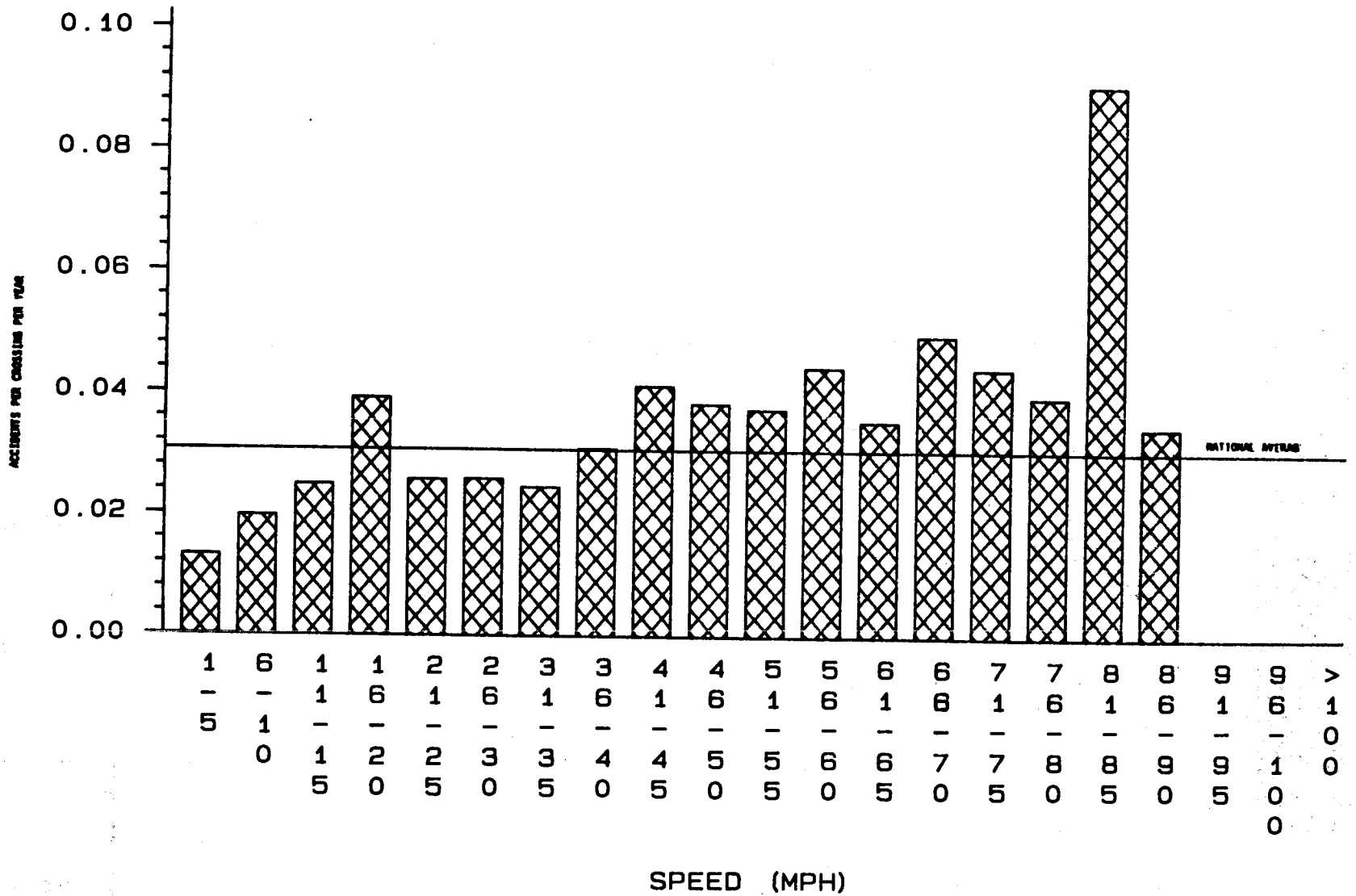


FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED

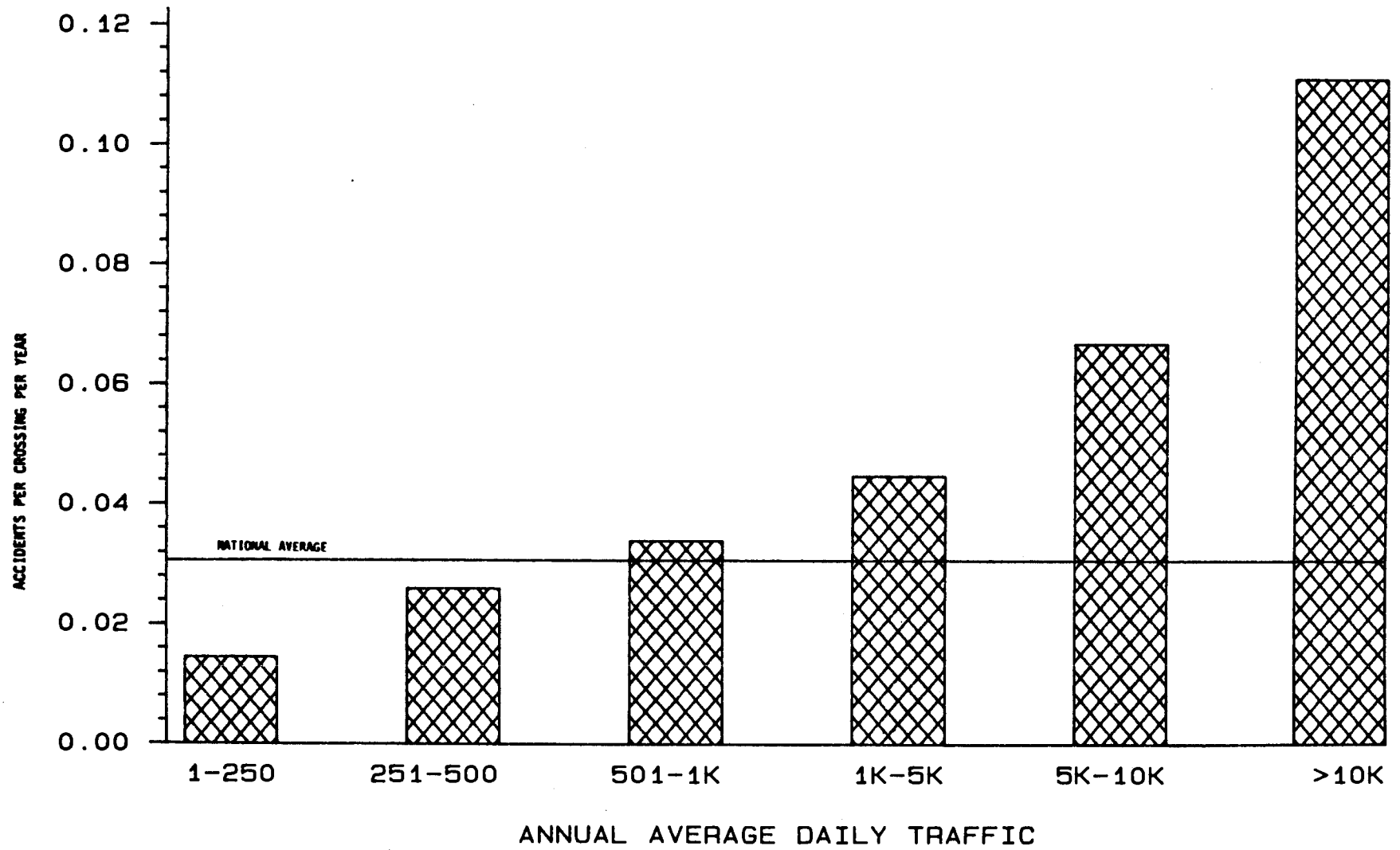
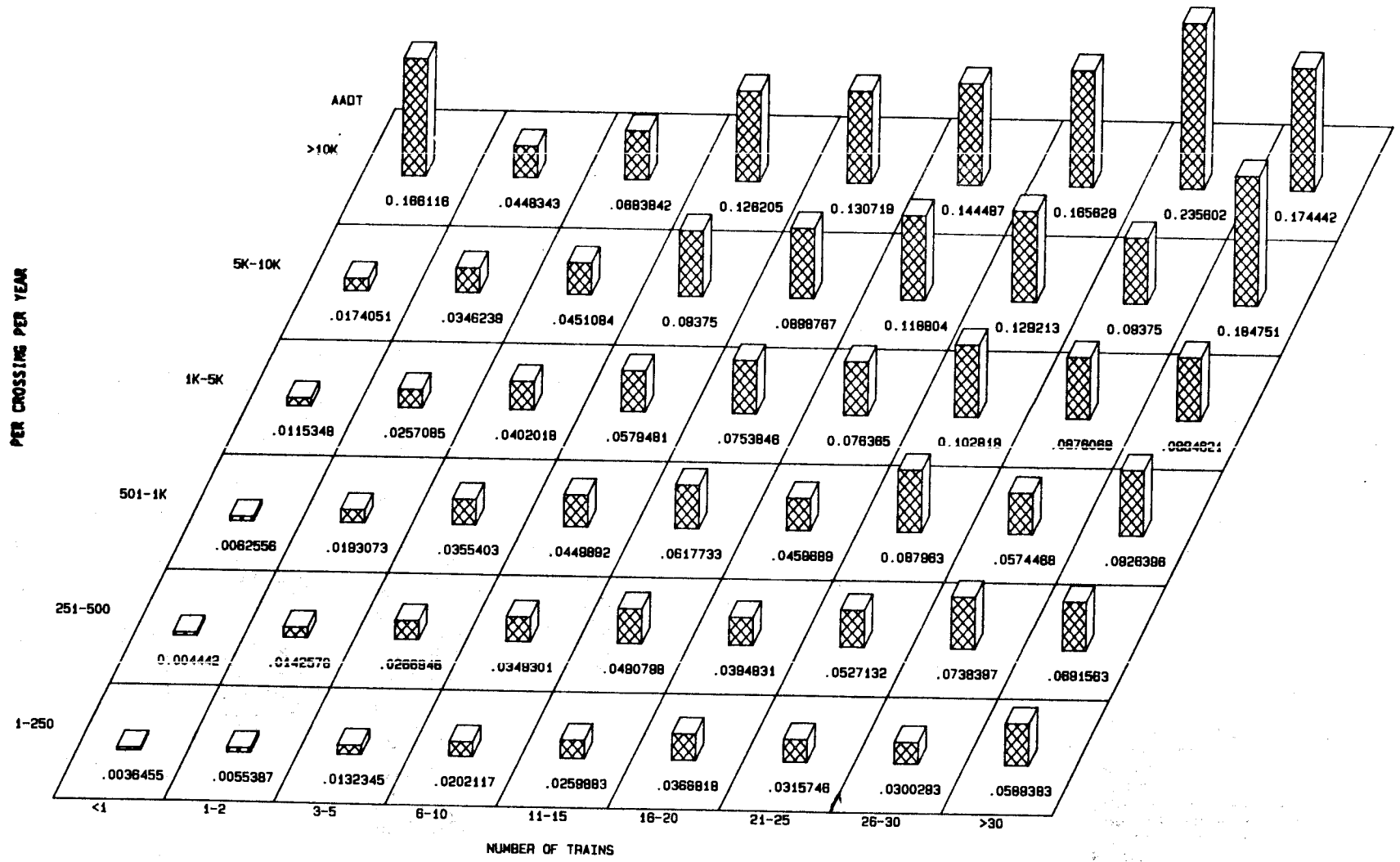


FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC



NATIONAL AVERAGE .03054

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

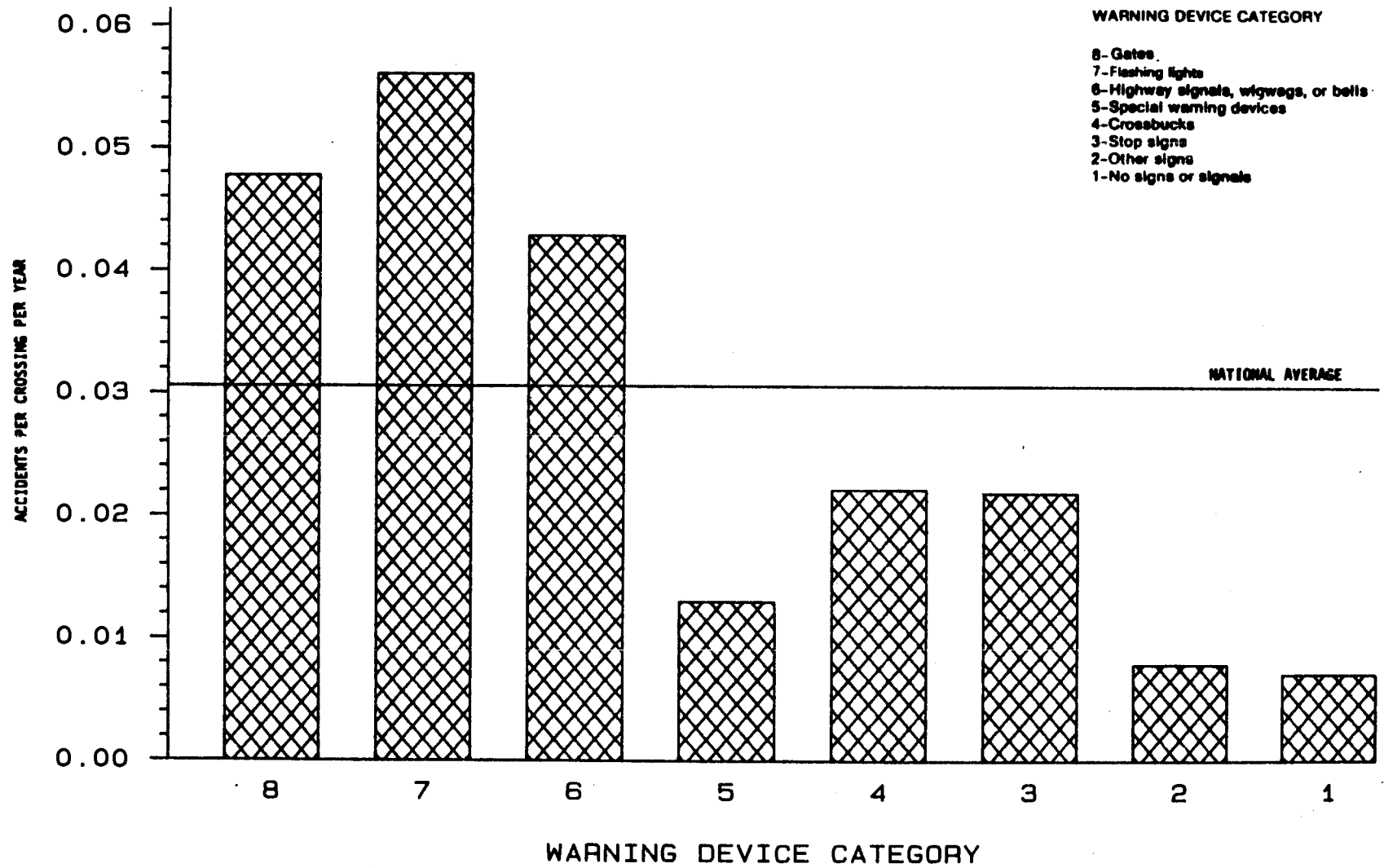


FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY

4. RAIL-HIGHWAY CROSSING INVENTORY 1983

PHYSICAL CHARACTERISTICS

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

State	Public At Grade	Public Grade Separation		Private	Pedestrian	Total
		RR Under	RR Over			
Alabama	4,750	501	192	2,475	34	7,952
Alaska	204	11	1	65	—	281
Arizona	1,002	84	80	855	7	2,028
Arkansas	3,776	177	133	1,815	16	5,917
California	8,951	936	567	5,605	254	16,313
Colorado	2,382	195	111	1,683	13	4,384
Connecticut	509	332	260	474	54	1,629
Delaware	260	44	56	175	4	539
District of Columbia	56	30	38	15	13	152
Florida	5,409	229	57	2,237	74	8,006
Georgia	6,865	576	257	3,101	39	10,838
Hawaii	6	—	—	—	—	6
Idaho	2,021	95	64	1,790	7	3,977
Illinois	12,499	996	1,979	7,337	425	23,236
Indiana	9,923	544	652	4,094	122	15,335
Iowa	6,795	511	370	4,901	60	12,637
Kansas	9,230	352	222	4,712	35	14,551
Kentucky	3,659	471	483	3,823	114	8,550
Louisiana	4,714	218	129	3,936	46	9,043
Maine	1,013	127	79	1,101	14	2,334
Maryland	955	331	217	830	29	2,362
Massachusetts	1,210	809	448	597	103	3,167
Michigan	8,174	359	424	3,680	111	12,748
Minnesota	6,609	515	408	4,155	82	11,769
Mississippi	3,590	241	116	2,770	20	6,737
Missouri	5,995	719	446	4,535	101	11,796
Montana	1,957	130	87	2,811	22	5,007
Nebraska	5,001	236	158	3,669	25	9,089
Nevada	357	51	37	302	2	749
New Hampshire	657	159	66	522	23	1,427
New Jersey	2,210	555	747	780	130	4,422
New Mexico	819	69	79	588	4	1,559
New York	4,370	1,442	1,188	4,013	305	11,318
North Carolina	5,491	524	301	4,303	76	10,695
North Dakota	5,437	83	90	2,654	37	8,301
Ohio	9,798	1,251	1,211	5,891	111	18,262
Oklahoma	5,274	267	214	2,157	20	7,932
Oregon	2,873	288	177	3,359	101	6,798
Pennsylvania	6,594	1,683	2,012	4,210	344	14,843
Rhode Island	132	101	43	81	4	361
South Carolina	4,323	403	131	1,795	17	6,669
South Dakota	2,636	102	58	1,660	7	4,463
Tennessee	4,174	517	502	2,417	37	7,647
Texas	14,597	809	804	7,376	51	23,637
Utah	1,367	126	53	1,001	7	2,554
Vermont	595	76	86	791	51	1,599
Virginia	2,745	643	480	3,754	68	7,690
Washington	4,116	407	357	4,257	116	9,253
West Virginia	2,428	291	379	2,933	110	6,141
Wisconsin	6,164	461	364	3,901	167	11,057
Wyoming	612	97	54	1,023	8	1,794
Puerto Rico	55	—	—	2	—	57
Total	205,339	20,174	17,467	133,011	3,620	379,611

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

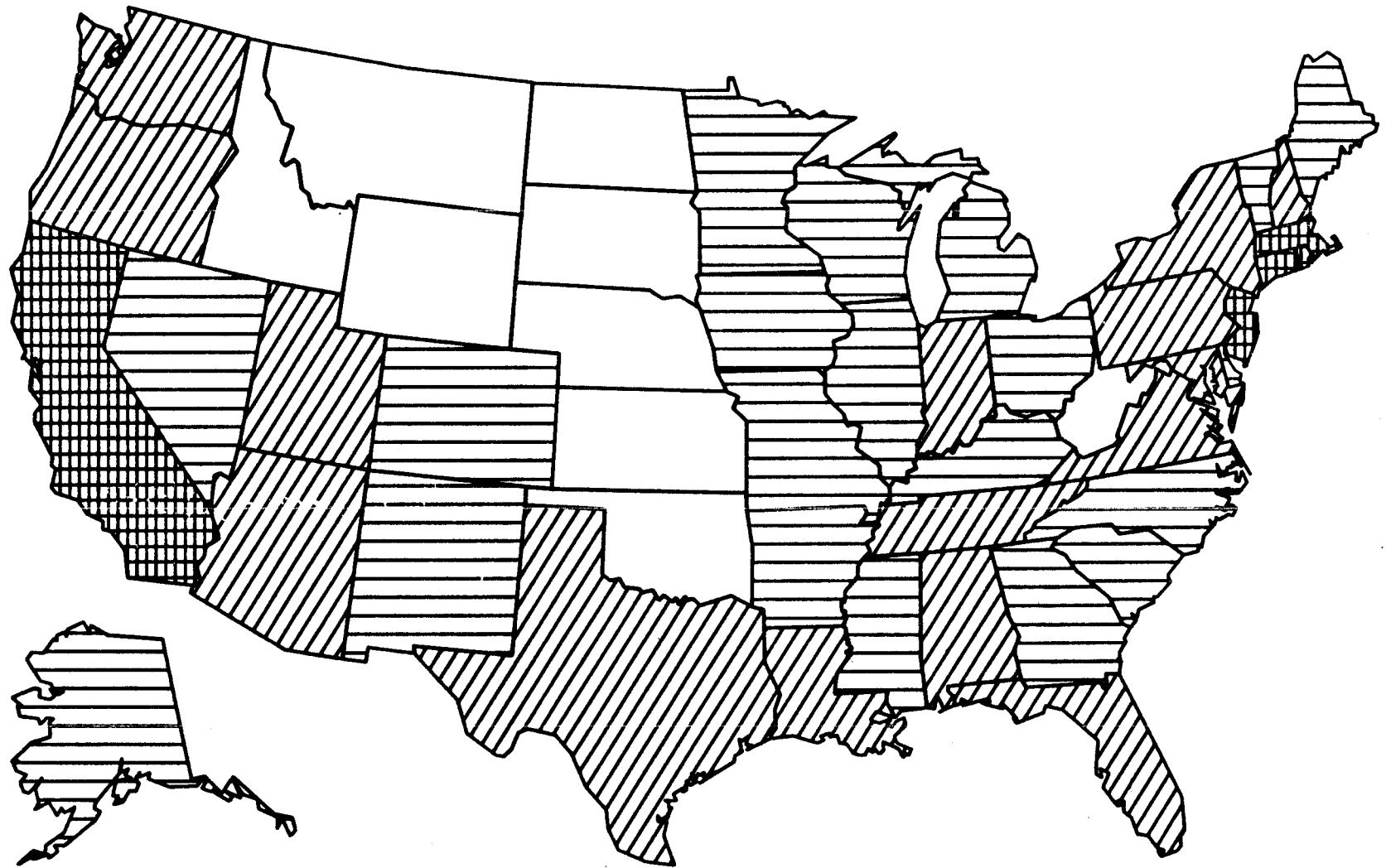
Railroad	Public At Grade	Public Grade Separation		Private	Pedestrian	Total
		RR Under	RR Over			
Amtrak (National RR Passenger Corp)	208	527	491	130	74	1,430
Atchison, Topeka And Santa Fe Rwy Co.	11,341	672	645	6,795	86	19,539
Baltimore And Ohio Railroad Co.	5,148	818	699	3,541	126	10,332
Bessemer And Lake Erie Railroad Co.	145	32	49	96	2	324
Boston And Maine Corporation	1,138	483	237	593	56	2,507
Burlington Northern Incorporated	25,319	1,540	1,298	17,857	351	46,365
Chesapeake And Ohio Railway Company	4,510	376	456	4,187	147	9,676
Chicago And North Western	9,377	694	829	6,077	198	17,175
Chicago, Milw, St. Paul And Pacific	3,579	342	326	2,277	97	6,621
Chicago, Rock Island And Pacific	2,779	181	160	1,710	17	4,847
Colorado And Southern Railway	442	42	21	308	3	816
Consolidated Rail Corporation	17,266	3,433	3,587	8,957	453	33,696
Delaware And Hudson Railway	540	101	109	738	28	1,516
Denver And Rio Grande Western RR Co.	1,141	136	71	816	7	2,171
Detroit, Toledo And Ironton RR Co.	470	22	43	453	5	993
Duluth, Missabe And Iron Range Rwy Co.	205	26	34	144	8	417
Elgin, Joliet And Eastern Railway Co.	250	32	28	102	---	412
Florida East Coast Railway Co.	793	33	3	112	10	951
Fort Worth And Denver Railway	57	38	17	426	---	538
Grand Trunk Western Railroad Co.	1,667	110	154	719	27	2,677
Illinois Central Gulf Railroad Co.	9,637	828	759	6,614	194	18,032
Kansas City Southern Railway Co.	1,010	97	78	480	6	1,671
Louisiana And Arkansas Rwy Company	725	60	33	561	5	1,384
Missouri Pacific Railroad Co.	12,384	696	520	7,821	114	21,535
Missouri-Kansas-Texas Railroad Co.	2,011	155	136	1,141	7	3,450
Norfolk And Western Railway Co.	8,101	797	1,068	6,251	116	16,333
Pittsburg And Lake Erie Railroad Co.	112	46	27	107	18	310
Seaboard System Railroad	20,303	1,757	987	10,879	337	34,263
Sooline Railroad Company	4,358	148	159	2,734	45	7,444
Southern Pacific Transportation Co.	11,453	998	653	7,953	257	21,314
Southern Railway Company	13,145	1,347	770	8,010	73	23,345
St. Louis Southwestern Railway Co.	2,335	122	93	993	2	3,545
Union Pacific Railroad Co.	7,615	593	273	6,105	56	14,642
Western Maryland Railway Company	490	76	66	497	11	1,140
Western Pacific Railroad Company	622	81	57	374	11	1,145
* The Estates	4,918	383	300	2,944	57	8,602
All Other Railroads	19,745	2,352	2,231	13,509	616	38,453
Grand Total.....	205,339	20,174	17,467	133,011	3,620	379,611

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

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

State	Urban	Rural	Total
Alabama.....	2,063	2,687	4,750
Alaska.....	71	133	204
Arizona.....	521	481	1,002
Arkansas.....	1,457	2,319	3,776
California.....	6,482	2,469	8,951
Colorado.....	850	1,532	2,382
Connecticut.....	397	112	509
Delaware.....	82	178	260
Dist of Columbia.	56	---	56
Florida.....	2,495	2,914	5,409
Georgia.....	2,467	4,398	6,865
Hawaii.....	---	6	6
Idaho.....	364	1,657	2,021
Illinois.....	4,357	8,142	12,499
Indiana.....	4,055	5,868	9,923
Iowa.....	1,832	4,963	6,795
Kansas.....	1,708	7,522	9,230
Kentucky.....	1,032	2,627	3,659
Louisiana.....	2,052	2,662	4,714
Maine.....	266	747	1,013
Maryland.....	441	514	955
Massachusetts....	857	353	1,210
Michigan.....	3,171	5,003	8,174
Minnesota.....	1,743	4,866	6,609
Mississippi.....	1,140	2,450	3,590
Missouri.....	1,912	4,083	5,995
Montana.....	364	1,593	1,957
Nebraska.....	742	4,259	5,001
Nevada.....	92	265	357
New Hampshire....	287	370	657
New Jersey.....	1,518	692	2,210
New Mexico.....	242	577	819
New York.....	1,950	2,420	4,370
North Carolina...	2,125	3,366	5,491
North Dakota.....	331	5,106	5,437
Ohio.....	3,771	6,027	9,798
Oklahoma.....	308	4,966	5,274
Oregon.....	1,263	1,610	2,873
Pennsylvania.....	3,309	3,285	6,594
Rhode Island.....	123	9	132
South Carolina...	1,657	2,666	4,323
South Dakota.....	344	2,292	2,636
Tennessee.....	1,718	2,456	4,174
Texas.....	7,695	6,902	14,597
Utah.....	698	669	1,367
Vermont.....	201	394	595
Virginia.....	1,302	1,443	2,745
Washington.....	1,963	2,153	4,116
West Virginia....	508	1,920	2,428
Wisconsin.....	2,435	3,729	6,164
Wyoming.....	52	560	612
Puerto Rico.....	8	47	55
Unknown.....	---	---	---
Total.....	76,877	128,462	205,339

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.



%

OF URBAN CROSSINGS



1 TO 25



41 TO 60



26 TO 40



61 TO 100

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

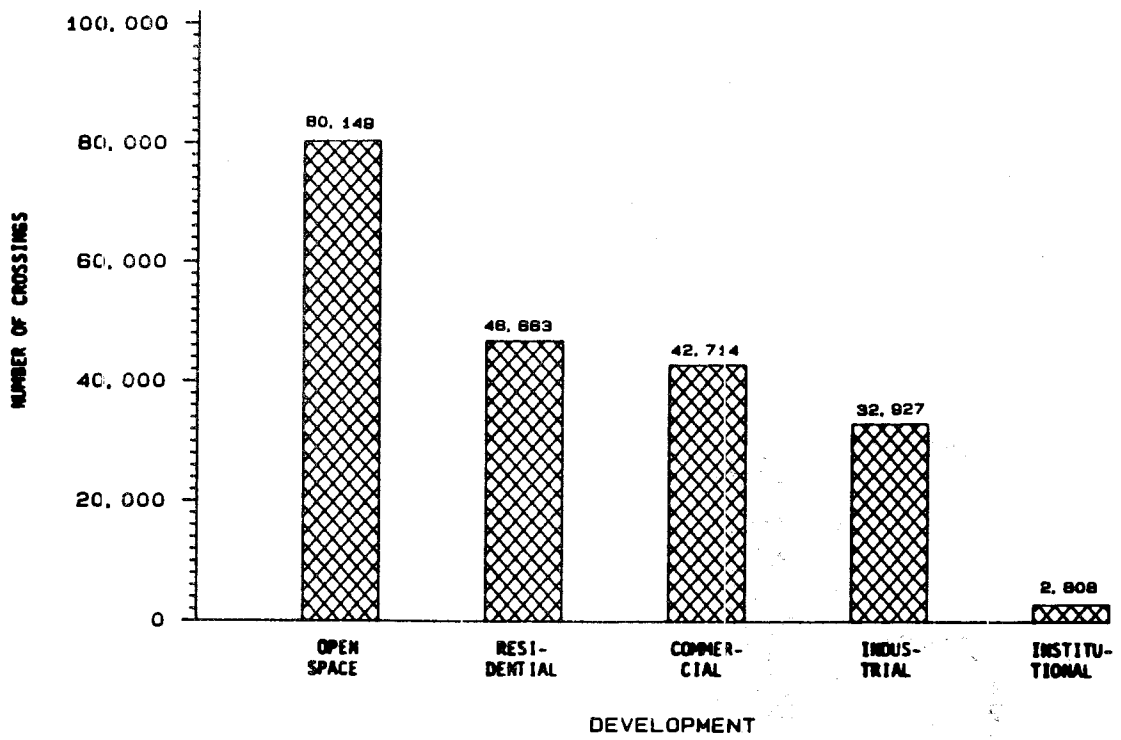


FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

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

Other Tracks	Number of main tracks							Total
	0	1	2	3	4	5	>5	
0	71*	120,538	10,132	322	87	5	3	131,158
1	23,213	25,269	2,845	96	21	1	---	51,445
2	5,331	8,627	1,259	40	12	2	---	15,271
3	1,626	2,572	423	25	8	---	---	4,654
4	448	898	197	12	7	---	---	1,562
5	178	342	106	8	3	---	1	638
>5	167	335	102	1	4	2	---	611
Total	31,034	158,581	15,064	504	142	10	4	205,339

* Crossings for which data was not reported in the inventory.

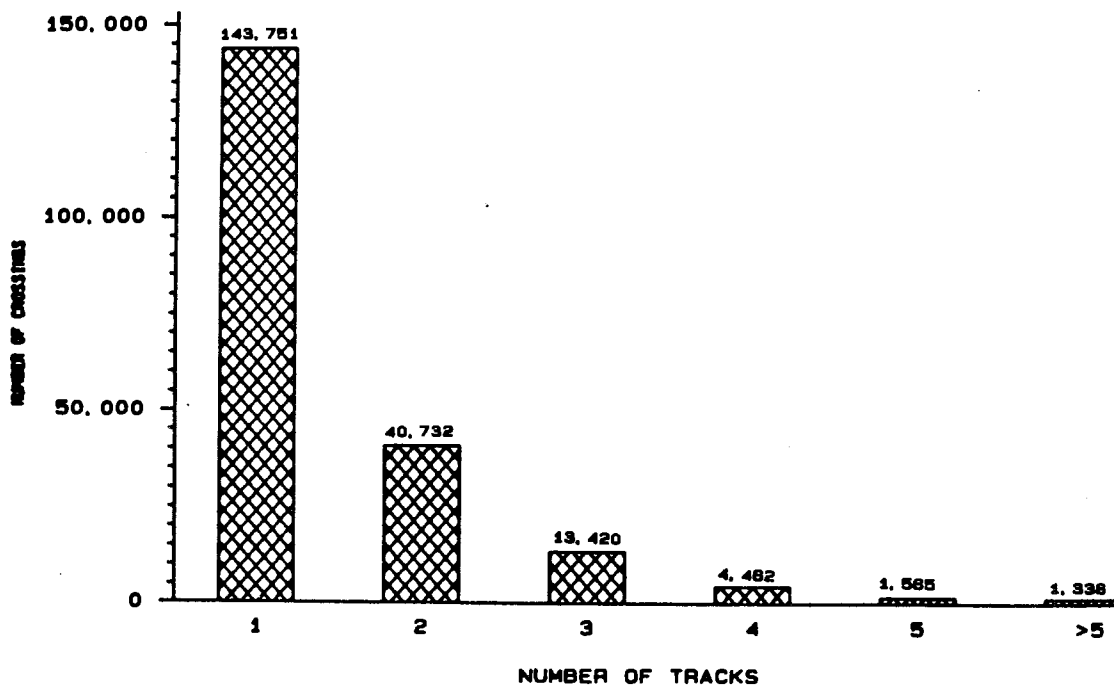


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

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

Warning device	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Gates.....	7,165	7,273	3,011	1,183	424	417	19,473
Flashing lights.....	22,433	7,253	2,755	994	370	315	34,120
Hwy. signals, wigwags, bells	1,571	620	272	89	45	21	2,618
Special warning devices.....	5,123	1,296	454	168	66	74	7,181
Crossbucks.....	96,084	21,779	6,235	1,798	578	489	126,963
Stop signs.....	997	251	80	27	9	10	1,374
Other signs.....	662	157	34	19	10	7	889
No signs or signals.....	9,716	2,102	579	184	63	76	12,720
Total.....	143,751	40,731	13,420	4,462	1,565	1,409	205,338

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

Traffic Lanes	Number of tracks						Total
	1	2	3	4	5	>5	
1	27,070	5,276	1,014	255	63	76	33,754
2	108,686	32,606	11,314	3,797	1,351	1,196	158,950
3	730	309	116	44	11	13	1,223
4	6,413	2,297	895	335	132	115	10,187
5	327	100	34	17	4	1	483
>5	525	144	47	14	4	8	742
Total	143,751	40,732	13,420	4,462	1,565	1,409	205,339

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE

State	NUMBER OF TRACKS						Total
	1	2	3	4	5	>5	
Alabama.....	3,466	816	312	86	35	35	4,750
Alaska.....	163	32	6	1	1	1	204
Arizona.....	717	185	67	21	7	5	1,002
Arkansas.....	2,609	789	252	74	32	20	3,776
California.....	6,232	1,683	627	211	102	96	8,951
Colorado.....	1,638	472	157	51	31	33	2,382
Connecticut.....	382	91	24	8	4	---	509
Delaware.....	212	33	10	3	2	---	260
Dist of Columbia.	36	14	6	---	---	---	56
Florida.....	3,621	1,182	377	115	44	70	5,409
Georgia.....	5,078	1,203	363	142	38	41	6,865
Hawaii.....	6	---	---	---	---	---	6
Idaho.....	1,412	367	137	57	22	26	2,021
Illinois.....	7,580	3,323	1,024	355	115	102	12,499
Indiana.....	6,557	2,387	618	232	81	48	9,923
Iowa.....	4,628	1,331	555	169	60	52	6,795
Kansas.....	6,744	1,484	640	224	73	65	9,230
Kentucky.....	2,472	851	226	72	17	21	3,659
Louisiana.....	3,391	889	275	91	32	36	4,714
Maine.....	780	172	42	14	3	2	1,013
Maryland.....	662	201	56	24	3	9	955
Massachusetts....	949	195	42	15	5	4	1,210
Michigan.....	5,830	1,611	457	164	59	53	8,174
Minnesota.....	4,672	1,231	466	139	47	54	6,609
Mississippi.....	2,424	756	245	102	33	30	3,590
Missouri.....	3,989	1,231	515	148	57	55	5,995
Montana.....	1,412	345	137	31	13	19	1,957
Nebraska.....	3,484	974	356	104	41	42	5,001
Nevada.....	233	86	23	7	3	5	357
New Hampshire....	554	86	11	3	2	1	657
New Jersey.....	1,579	461	128	22	12	8	2,210
New Mexico.....	577	162	50	19	4	7	819
New York.....	3,156	890	223	65	17	19	4,370
North Carolina...	4,001	992	315	117	35	31	5,491
North Dakota.....	4,416	711	240	49	17	4	5,437
Ohio.....	5,691	2,741	847	338	109	72	9,798
Oklahoma.....	3,926	764	361	132	45	46	5,274
Oregon.....	2,097	500	199	54	14	9	2,873
Pennsylvania.....	4,427	1,511	412	157	45	42	6,594
Rhode Island.....	81	41	8	2	---	---	132
South Carolina...	3,253	755	223	52	26	14	4,323
South Dakota.....	2,102	342	125	42	15	10	2,636
Tennessee.....	2,861	890	273	86	30	34	4,174
Texas.....	10,856	2,487	800	268	101	85	14,597
Utah.....	975	257	86	20	20	9	1,367
Vermont.....	478	84	23	4	1	5	595
Virginia.....	1,820	625	197	69	22	12	2,745
Washington.....	2,871	761	304	119	31	30	4,116
West Virginia....	1,735	493	156	28	6	10	2,428
Wisconsin.....	4,447	1,128	375	133	46	35	6,164
Wyoming.....	416	115	49	23	7	2	612
Puerto Rico.....	53	2	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	143,751	40,732	13,420	4,462	1,565	1,409	205,339

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

State	01	02	03	04	08	Total
Alabama.....	---	447	27	438	3,838	4,750
Alaska.....	---	23	14	28	139	204
Arizona.....	12	35	190	73	692	1,002
Arkansas.....	1	160	259	198	3,158	3,776
California.....	---	1,136	829	719	6,267	8,951
Colorado.....	---	108	435	107	1,732	2,382
Connecticut.....	---	30	185	19	275	509
Delaware.....	---	35	11	115	99	260
Dist of Columbia.	---	4	1	3	48	56
Florida.....	---	157	81	770	4,362	5,370
Georgia.....	3	411	157	821	5,473	6,865
Hawaii.....	---	---	---	---	6	6
Idaho.....	1	61	117	153	1,689	2,021
Illinois.....	---	742	1,457	956	9,344	12,499
Indiana.....	---	392	420	1,846	7,265	9,923
Iowa.....	5	397	739	653	5,001	6,795
Kansas.....	1	375	483	1,193	7,178	9,230
Kentucky.....	2	115	319	328	2,895	3,659
Louisiana.....	1	173	36	447	4,057	4,714
Maine.....	---	99	21	97	796	1,013
Maryland.....	---	60	207	84	604	955
Massachusetts....	---	119	320	121	650	1,210
Michigan.....	2	386	874	1,279	5,633	8,174
Minnesota.....	1	249	118	1,051	5,190	6,609
Mississippi.....	1	166	227	555	2,641	3,590
Missouri.....	3	127	288	740	4,837	5,995
Montana.....	5	90	59	168	1,635	1,957
Nebraska.....	---	253	309	548	3,891	5,001
Nevada.....	---	19	11	31	296	357
New Hampshire....	---	73	125	39	418	655
New Jersey.....	---	72	214	196	1,728	2,210
New Mexico.....	---	24	59	56	680	819
New York.....	---	270	2	798	3,300	4,370
North Carolina...	---	126	215	420	4,730	5,491
North Dakota.....	1	188	99	676	4,473	5,437
Ohio.....	---	435	130	1,959	7,272	9,796
Oklahoma.....	---	168	324	430	4,352	5,274
Oregon.....	---	160	321	296	2,096	2,873
Pennsylvania.....	---	453	448	546	5,147	6,594
Rhode Island.....	---	7	27	22	76	132
South Carolina...	1	270	104	1,345	2,603	4,323
South Dakota.....	---	124	120	309	2,083	2,636
Tennessee.....	---	179	11	379	3,605	4,174
Texas.....	88	387	1,471	947	11,704	14,597
Utah.....	1	25	3	164	1,174	1,367
Vermont.....	---	59	5	70	461	595
Virginia.....	---	112	360	443	1,830	2,745
Washington.....	---	87	216	616	3,197	4,116
West Virginia....	---	146	48	426	1,808	2,428
Wisconsin.....	---	401	888	454	4,421	6,164
Wyoming.....	---	33	14	58	507	612
Puerto Rico.....	---	14	---	3	38	55
Unknown.....	---	---	---	---	---	---
Total.....	129	10,182	13,398	24,193	157,394	205,296

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 APENDIX A FOR EXPLANATION OF REVISION IN CODES.

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE

HIGHWAY SYSTEM GROUP

State	On-State	Off-State	Total
Alabama.....	328	4,422	4,750
Alaska.....	87	117	204
Arizona.....	64	938	1,002
Arkansas.....	592	3,184	3,776
California.....	386	8,565	8,951
Colorado.....	276	2,106	2,382
Connecticut.....	89	420	509
Delaware.....	249	11	260
Dist of Columbia.	55	1	56
Florida.....	1,029	4,380	5,409
Georgia.....	787	6,078	6,865
Hawaii.....	—	6	6
Idaho.....	145	1,876	2,021
Illinois.....	1,519	10,980	12,499
Indiana.....	934	8,989	9,923
Iowa.....	407	6,388	6,795
Kansas.....	513	8,717	9,230
Kentucky.....	1,025	2,634	3,659
Louisiana.....	995	3,719	4,714
Maine.....	207	806	1,013
Maryland.....	154	801	955
Massachusetts....	45	1,165	1,210
Michigan.....	501	7,673	8,174
Minnesota.....	375	6,234	6,609
Mississippi.....	340	3,250	3,590
Missouri.....	847	5,148	5,995
Montana.....	315	1,642	1,957
Nebraska.....	393	4,608	5,001
Nevada.....	66	291	357
New Hampshire....	191	466	657
New Jersey.....	207	2,003	2,210
New Mexico.....	178	641	819
New York.....	457	3,913	4,370
North Carolina...	3,558	1,933	5,491
North Dakota.....	267	5,170	5,437
Ohio.....	1,312	8,486	9,798
Oklahoma.....	400	4,874	5,274
Oregon.....	202	2,671	2,873
Pennsylvania.....	2,276	4,318	6,594
Rhode Island.....	29	103	132
South Carolina...	2,861	1,462	4,323
South Dakota.....	190	2,446	2,636
Tennessee.....	276	3,898	4,174
Texas.....	2,697	11,900	14,597
Utah.....	145	1,222	1,367
Vermont.....	143	452	595
Virginia.....	1,704	1,041	2,745
Washington.....	239	3,877	4,116
West Virginia....	1,475	953	2,428
Wisconsin.....	536	5,628	6,164
Wyoming.....	96	516	612
Puerto Rico.....	38	17	55
Unknown.....	—	—	—
Total.....	32,200	173,139	205,339

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

Rural	Crossings	Urban	Crossings
Interstate.....	20	Interstate.....	95
Other principal arterial	1,568	Other freeway/expressway	529
Minor arterial.....	4,633	Other principal arterial	7,472
Major collector.....	13,793	Minor arterial.....	12,837
Minor collector.....	13,296	Collector.....	11,475
Local.....	95,108	Local.....	44,469
Total.....	128,418	Total.....	76,877

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

NUMBER OF LANES (BOTH DIRECTIONS)

State	1	2	3	4	5	>5	Total
Alabama.....	973	3,509	25	223	9	11	4,750
Alaska.....	19	171	1	12	1	---	204
Arizona.....	20	849	12	89	19	13	1,002
Arkansas.....	959	2,746	13	57	---	1	3,776
California.....	476	6,294	176	1,616	164	225	8,951
Colorado.....	176	2,042	16	139	5	4	2,382
Connecticut.....	30	447	7	22	3	---	509
Delaware.....	2	235	4	18	---	1	260
Dist of Columbia.	2	48	1	3	---	2	56
Florida.....	308	4,431	67	446	39	118	5,409
Georgia.....	1,388	5,231	28	210	1	7	6,865
Hawaii.....	---	6	---	---	---	---	6
Idaho.....	558	1,374	10	74	2	3	2,021
Illinois.....	2,677	9,037	53	700	12	20	12,499
Indiana.....	2,008	7,436	49	413	6	11	9,923
Iowa.....	826	5,696	43	218	7	5	6,795
Kansas.....	2,294	6,627	8	298	---	3	9,230
Kentucky.....	1,148	2,438	7	65	1	---	3,659
Louisiana.....	678	3,790	14	208	8	16	4,714
Maine.....	62	934	4	13	---	---	1,013
Maryland.....	121	755	8	63	4	4	955
Massachusetts....	45	1,099	8	57	1	---	1,210
Michigan.....	625	6,785	61	625	32	46	8,174
Minnesota.....	1,138	5,177	17	273	3	1	6,609
Mississippi.....	488	2,976	8	110	3	5	3,590
Missouri.....	1,504	4,330	12	138	4	7	5,995
Montana.....	272	1,655	4	25	1	---	1,957
Nebraska.....	1,147	3,754	4	91	2	3	5,001
Nevada.....	132	198	1	25	---	1	357
New Hampshire....	39	586	4	25	2	1	657
New Jersey.....	132	1,912	11	147	2	6	2,210
New Mexico.....	270	505	1	37	3	3	819
New York.....	424	3,777	23	136	4	6	4,370
North Carolina...	347	4,885	37	202	11	9	5,491
North Dakota.....	1,287	4,112	1	37	---	---	5,437
Ohio.....	1,443	7,928	70	330	14	13	9,798
Oklahoma.....	927	4,055	7	277	6	2	5,274
Oregon.....	341	2,383	47	95	4	3	2,873
Pennsylvania.....	1,031	5,213	120	200	2	28	6,594
Rhode Island.....	5	106	---	21	---	---	132
South Carolina...	714	3,391	15	184	7	12	4,323
South Dakota.....	836	1,738	3	55	1	3	2,636
Tennessee.....	769	3,160	21	202	16	6	4,174
Texas.....	2,590	10,614	72	1,182	43	96	14,597
Utah.....	252	1,015	---	88	1	11	1,367
Vermont.....	135	448	4	8	---	---	595
Virginia.....	42	2,548	25	110	10	10	2,745
Washington.....	387	3,284	75	328	28	14	4,116
West Virginia....	1,228	1,179	9	11	---	1	2,428
Wisconsin.....	327	5,557	15	254	---	11	6,164
Wyoming.....	150	431	2	27	2	---	612
Puerto Rico.....	2	53	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---
Total.....	33,754	158,950	1,223	10,187	483	742	205,339

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

Warning device	NUMBER OF LANES (BOTH DIRECTIONS)						Total
	1	2	3	4	5	>5	
Gates.....	303	15,669	284	2,754	197	266	19,473
Flashing lights.....	702	28,758	372	3,842	185	261	34,120
Hwy. signals, wigwags, bells	223	2,047	35	245	26	42	2,618
Special warning devices.....	494	5,875	126	625	17	44	7,181
Crossbucks.....	28,440	95,940	304	2,137	44	98	126,963
Stop signs.....	229	1,088	10	45	---	2	1,374
Other signs.....	190	670	5	21	---	3	889
No signs or signals.....	3,173	8,902	87	518	14	26	12,720
Total.....	33,754	158,949	1,223	10,187	483	742	205,338

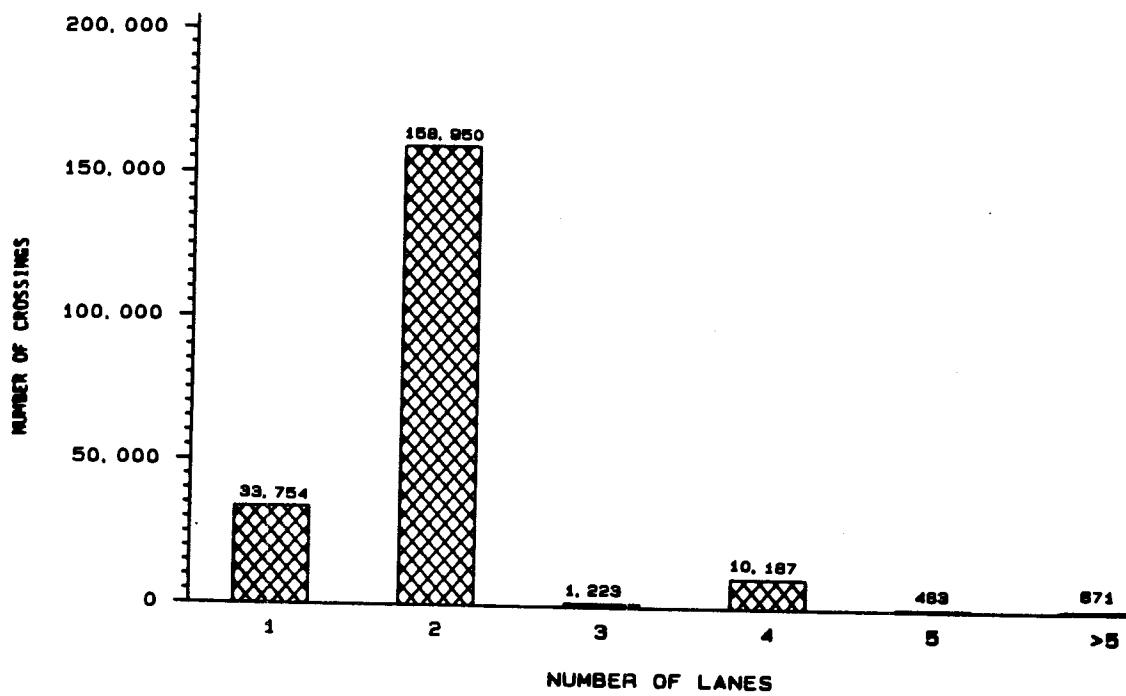


FIGURE 28. CROSSINGS BY NUMBER OF TRAFFIC LANES

WARNING DEVICE DATA

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE

State	Warning Device Category							No Signs or Signals	Total
	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Cross- Bucks	Stop Signs	Other Signs		
Alabama.....	185	615	22	57	3,341	72	10	448	4,750
Alaska.....	1	52	---	17	126	2	---	6	204
Arizona.....	243	95	13	89	536	3	---	23	1,002
Arkansas.....	197	445	26	90	2,839	10	---	169	3,776
California.....	2,974	1,173	412	201	3,885	88	20	198	8,951
Colorado.....	156	358	42	78	1,582	25	2	139	2,382
Connecticut.....	50	172	7	93	67	9	2	109	509
Delaware.....	30	98	2	41	82	1	---	6	260
Dist of Columbia.	---	3	---	7	15	11	---	20	56
Florida.....	1,422	951	11	138	2,513	31	74	269	5,409
Georgia.....	794	530	22	173	4,868	10	11	457	6,865
Hawaii.....	---	---	---	---	6	---	---	---	6
Idaho.....	59	217	13	22	1,406	83	8	213	2,021
Illinois.....	1,845	2,884	202	299	6,738	5	5	521	12,499
Indiana.....	836	2,333	162	274	5,589	82	11	636	9,923
Iowa.....	435	1,061	107	80	4,846	7	4	255	6,795
Kansas.....	436	759	91	253	7,453	2	2	234	9,230
Kentucky.....	241	720	38	111	2,115	5	---	429	3,659
Louisiana.....	252	783	12	70	3,159	32	22	384	4,714
Maine.....	65	377	1	137	417	---	4	12	1,013
Maryland.....	73	182	34	64	392	28	18	164	955
Massachusetts....	188	442	38	238	247	2	3	52	1,210
Michigan.....	652	1,902	70	246	5,055	18	18	213	8,174
Minnesota.....	336	855	17	52	5,088	49	3	209	6,609
Mississippi.....	55	372	20	60	2,211	447	11	414	3,590
Missouri.....	356	1,142	129	141	3,780	13	2	432	5,995
Montana.....	96	192	5	23	1,464	3	2	172	1,957
Nebraska.....	386	489	36	31	3,859	5	2	193	5,001
Nevada.....	74	50	1	6	190	---	7	29	357
New Hampshire....	26	154	16	165	260	9	4	23	657
New Jersey.....	385	683	30	396	587	6	3	120	2,210
New Mexico.....	145	104	8	11	529	---	5	17	819
New York.....	765	1,215	103	512	1,499	1	50	225	4,370
North Carolina...	633	787	38	242	3,266	19	20	486	5,491
North Dakota.....	209	203	1	3	4,684	2	---	335	5,437
Ohio.....	808	2,238	83	106	6,104	14	14	431	9,798
Oklahoma.....	238	733	37	142	3,953	3	9	159	5,274
Oregon.....	336	166	69	113	1,735	100	11	342	2,873
Pennsylvania.....	636	1,356	118	780	2,630	71	423	580	6,594
Rhode Island.....	9	23	19	33	22	5	2	19	132
South Carolina...	175	429	7	349	3,086	---	16	261	4,323
South Dakota.....	1	178	2	1	2,353	---	---	101	2,636
Tennessee.....	193	670	19	277	2,211	28	2	774	4,174
Texas.....	1,155	2,632	114	163	9,487	34	17	995	14,597
Utah.....	87	214	11	112	794	5	45	99	1,367
Vermont.....	19	192	4	58	302	1	6	13	595
Virginia.....	544	525	23	231	1,200	1	3	218	2,745
Washington.....	129	534	55	75	2,793	20	7	503	4,116
West Virginia....	132	400	9	50	1,499	8	6	324	2,428
Wisconsin.....	348	1,303	316	221	3,734	1	3	238	6,164
Wyoming.....	59	128	1	2	365	3	2	52	612
Puerto Rico.....	4	1	2	48	---	---	---	---	55
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	19,473	34,120	2,618	7,181	126,963	1,374	889	12,721	205,339

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

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD

Railroad	Warning Device Category								Total
	Gates	Flashing Lights	Hwy.Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs or Signals	
Amtrak (National RR Passenger Corp)	108	27	---	23	34	2	2	12	208
Atchison, Topeka And Santa Fe Rwy Co.	1,651	1,453	207	555	7,425	6	11	33	11,341
Baltimore And Ohio Railroad Co.	343	1,137	39	101	3,239	19	6	264	5,148
Bessemer And Lake Erie Railroad Co.	34	25	---	3	81	---	---	2	145
Boston And Maine Corporation	193	254	27	247	353	4	4	56	1,138
Burlington Northern Incorporated	1,492	2,917	175	330	18,634	156	12	1,603	25,319
Chesapeake And Ohio Railway Company	368	932	12	79	2,845	6	2	266	4,510
Chicago And North Western	595	1,554	357	135	6,319	8	6	403	9,377
Chicago, Milw, St. Paul And Pacific	285	685	78	164	2,137	6	2	222	3,579
Chicago, Rock Island And Pacific	219	386	26	4	2,034	1	2	107	2,779
Colorado And Southern Railway	29	84	9	1	276	4	1	38	442
Consolidated Rail Corporation	1,942	4,623	317	1,451	7,036	116	340	1,441	17,266
Delaware And Hudson Railway	172	152	6	22	153	---	15	20	540
Denver And Rio Grande Western RR Co.	66	209	3	11	742	4	2	104	1,141
Detroit, Toledo And Ironton RR Co.	29	93	---	4	332	1	---	11	470
Duluth, Missabe And Iron Range Rwy Co.	9	37	---	3	154	1	1	---	205
Elgin, Joliet And Eastern Railway Co.	79	75	2	12	81	---	---	1	250
Florida East Coast Railway Co.	479	115	---	7	182	---	---	10	793
Fort Worth And Denver Railway	1	3	---	---	39	---	1	13	57
Grand Trunk Western Railroad Co.	307	454	12	99	780	2	---	13	1,667
Illinois Central Gulf Railroad Co.	468	1,492	172	166	6,373	315	10	641	9,637
Kansas City Southern Railway Co.	37	167	6	1	741	---	1	57	1,010
Louisiana And Arkansas Rwy Company	24	167	---	---	516	---	---	18	725
Missouri Pacific Railroad Co.	673	2,035	64	133	8,737	18	1	723	12,384
Missouri-Kansas-Texas Railroad Co.	124	379	31	15	1,327	2	1	132	2,011
Norfolk And Western Railway Co.	902	1,869	108	187	4,793	14	5	223	8,101
Pittsburg And Lake Erie Railroad Co.	18	10	2	3	64	---	---	15	112
Seaboard System Railroad	2,153	3,111	83	798	12,634	91	19	1,414	20,303
Sooline Railroad Company	153	562	24	8	3,499	4	1	107	4,358
Southern Pacific Transportation Co.	2,768	1,365	404	41	6,118	77	21	659	11,453
Southern Railway Company	1,182	1,756	37	534	7,891	30	32	1,683	13,145
St. Louis Southwestern Railway Co.	172	326	5	22	1,689	4	---	117	2,335
Union Pacific Railroad Co.	584	860	70	175	5,192	78	55	601	7,615
Western Maryland Railway Company	33	141	11	26	238	1	11	29	490
Western Pacific Railroad Company	215	77	11	3	281	10	1	24	622
* The Estates	86	834	67	205	3,185	27	114	400	4,918
TOTAL CLASS I RAILROADS.....	17,993	30,366	2,365	5,568	116,154	1,007	679	11,462	185,594
RECAPITULATION									
Class I railroads	17,993	30,366	2,365	5,568	116,154	1,007	679	11,462	185,594
Class II and III railroads	1,480	3,754	253	1,613	10,809	367	210	1,259	19,745
Grand total	19,473	34,120	2,618	7,181	126,963	1,374	889	12,721	205,339

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

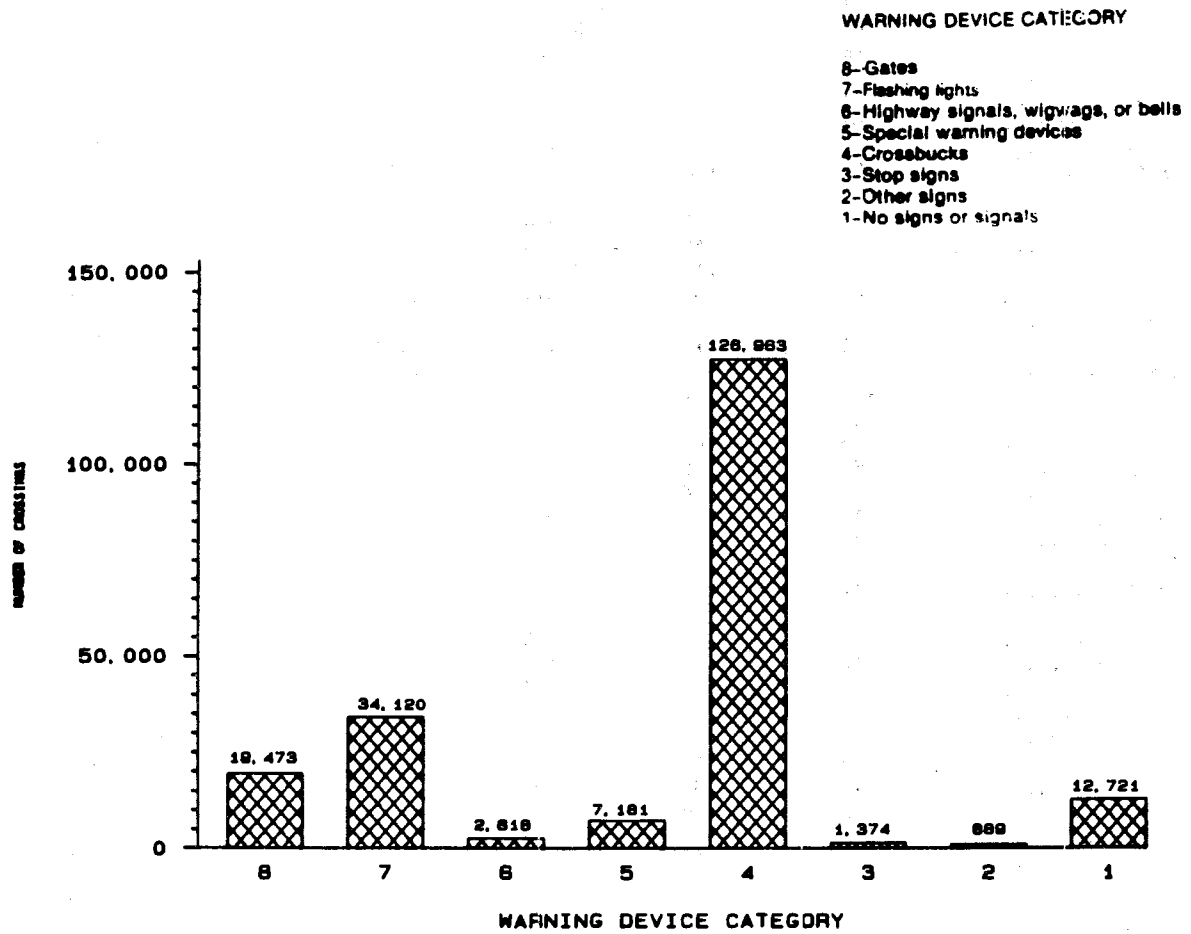


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE

PAVEMENT MARKING

State	Stop Lines	RR X-ing Symbol	BothNone.....		Total
				Paved	Unpaved	
Alabama.....	45	133	128	3,301	1,143	4,750
Alaska.....	2	2	25	78	97	204
Arizona.....	41	16	364	323	258	1,002
Arkansas.....	48	97	107	1,950	1,574	3,776
California.....	1,096	226	5,109	2,179	341	8,951
Colorado.....	19	23	94	1,295	951	2,382
Connecticut.....	18	2	97	386	6	509
Delaware.....	3	22	120	105	10	260
Dist of Columbia.	---	---	32	24	---	56
Florida.....	307	127	1,475	2,492	1,008	5,409
Georgia.....	113	150	572	3,889	2,141	6,865
Hawaii.....	2	---	---	4	---	6
Idaho.....	1	4	328	864	824	2,021
Illinois.....	72	145	1,370	5,375	5,537	12,499
Indiana.....	95	273	2,094	5,585	1,876	9,923
Iowa.....	61	158	614	2,557	3,405	6,795
Kansas.....	4	25	515	2,918	5,768	9,230
Kentucky.....	58	515	586	1,564	936	3,659
Louisiana.....	22	534	263	2,756	1,139	4,714
Maine.....	---	2	593	316	102	1,013
Maryland.....	20	28	156	681	70	955
Massachusetts....	53	44	121	956	36	1,210
Michigan.....	93	125	734	4,854	2,368	8,174
Minnesota.....	133	168	536	2,476	3,296	6,609
Mississippi.....	11	9	469	1,970	1,131	3,590
Missouri.....	77	133	593	2,547	2,645	5,995
Montana.....	4	20	251	422	1,260	1,957
Nebraska.....	17	240	220	1,286	3,238	5,001
Nevada.....	7	1	80	121	148	357
New Hampshire....	19	11	38	519	70	657
New Jersey.....	50	88	105	1,833	134	2,210
New Mexico.....	5	20	42	349	403	819
New York.....	131	255	288	3,305	391	4,370
North Carolina...	38	23	4,094	588	748	5,491
North Dakota.....	14	16	170	718	4,519	5,437
Ohio.....	742	806	4,635	2,769	846	9,798
Oklahoma.....	25	29	49	2,725	2,446	5,274
Oregon.....	153	319	469	1,312	620	2,873
Pennsylvania.....	66	368	171	5,227	762	6,594
Rhode Island.....	13	---	7	112	---	132
South Carolina...	94	97	1,267	2,096	769	4,323
South Dakota.....	15	4	77	738	1,802	2,636
Tennessee.....	18	29	214	2,947	966	4,174
Texas.....	5	12	6,326	4,201	4,053	14,597
Utah.....	15	22	173	797	360	1,367
Vermont.....	25	16	56	312	186	595
Virginia.....	109	94	1,188	1,067	287	2,745
Washington.....	160	32	551	2,478	895	4,116
West Virginia....	26	15	106	1,474	807	2,428
Wisconsin.....	87	37	346	4,825	869	6,164
Wyoming.....	10	15	75	136	376	612
Puerto Rico.....	---	14	---	36	5	55
Unknown.....	---	---	---	---	---	---
Total.....	4,242	5,544	38,093	93,838	63,622	205,339

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.....	907	3,843	4,750
Alaska.....	85	119	204
Arizona.....	548	454	1,002
Arkansas.....	574	3,202	3,776
California.....	7,057	1,894	8,951
Colorado.....	837	1,545	2,382
Connecticut.....	228	281	509
Delaware.....	224	36	260
Dist of Columbia.	31	25	56
Florida.....	2,336	3,073	5,409
Georgia.....	1,318	5,547	6,865
Hawaii.....	1	5	6
Idaho.....	1,635	386	2,021
Illinois.....	6,270	6,229	12,499
Indiana.....	6,294	3,629	9,923
Iowa.....	4,351	2,444	6,795
Kansas.....	3,822	5,408	9,230
Kentucky.....	839	2,820	3,659
Louisiana.....	2,740	1,974	4,714
Maine.....	984	29	1,013
Maryland.....	404	551	955
Massachusetts....	892	318	1,210
Michigan.....	5,439	2,735	8,174
Minnesota.....	3,420	3,189	6,609
Mississippi.....	671	2,919	3,590
Missouri.....	1,181	4,814	5,995
Montana.....	582	1,375	1,957
Nebraska.....	2,780	2,221	5,001
Nevada.....	149	208	357
New Hampshire....	465	192	657
New Jersey.....	791	1,419	2,210
New Mexico.....	161	658	819
New York.....	3,231	1,139	4,370
North Carolina...	4,273	1,218	5,491
North Dakota.....	911	4,526	5,437
Ohio.....	6,096	3,702	9,798
Oklahoma.....	1,015	4,259	5,274
Oregon.....	1,793	1,080	2,873
Pennsylvania.....	2,399	4,195	6,594
Rhode Island.....	21	111	132
South Carolina...	2,452	1,871	4,323
South Dakota.....	711	1,925	2,636
Tennessee.....	679	3,495	4,174
Texas.....	10,131	4,466	14,597
Utah.....	517	850	1,367
Vermont.....	349	246	595
Virginia.....	1,900	845	2,745
Washington.....	2,705	1,411	4,116
West Virginia....	504	1,924	2,428
Wisconsin.....	3,594	2,570	6,164
Wyoming.....	154	458	612
Puerto Rico.....	32	23	55
Unknown.....	---	---	---
Total.....	101,483	103,856	205,339

NOTE: The Manual On Uniform Traffic Control Devices does not require advance warning signs 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.....	822	1,612	2,316	4,750
Alaska.....	53	66	85	204
Arizona.....	351	519	132	1,002
Arkansas.....	668	2,141	967	3,776
California.....	4,559	1,967	2,425	8,951
Colorado.....	556	938	888	2,382
Connecticut.....	229	116	164	509
Delaware.....	130	92	38	260
Dist of Columbia.	3	14	39	56
Florida.....	2,384	2,010	1,015	5,409
Georgia.....	1,346	4,308	1,211	6,865
Hawaii.....	---	4	2	6
Idaho.....	289	950	782	2,021
Illinois.....	4,931	5,840	1,728	12,499
Indiana.....	3,331	3,446	3,146	9,923
Iowa.....	1,603	3,722	1,470	6,795
Kansas.....	1,286	3,002	4,942	9,230
Kentucky.....	999	1,592	1,068	3,659
Louisiana.....	1,047	2,983	684	4,714
Maine.....	443	518	52	1,013
Maryland.....	289	206	460	955
Massachusetts....	668	310	232	1,210
Michigan.....	2,624	3,833	1,717	8,174
Minnesota.....	1,208	4,839	562	6,609
Mississippi.....	447	1,644	1,499	3,590
Missouri.....	1,627	1,563	2,805	5,995
Montana.....	293	1,112	552	1,957
Nebraska.....	911	2,890	1,200	5,001
Nevada.....	125	116	116	357
New Hampshire....	196	41	420	657
New Jersey.....	1,098	415	697	2,210
New Mexico.....	257	305	257	819
New York.....	2,083	982	1,305	4,370
North Carolina...	1,458	2,147	1,886	5,491
North Dakota.....	413	2,840	2,184	5,437
Ohio.....	3,129	3,587	3,082	9,798
Oklahoma.....	1,008	1,356	2,910	5,274
Oregon.....	571	969	1,333	2,873
Pennsylvania.....	2,110	1,538	2,946	6,594
Rhode Island.....	51	2	79	132
South Carolina...	611	2,855	857	4,323
South Dakota.....	181	2,093	362	2,636
Tennessee.....	882	1,235	2,057	4,174
Texas.....	3,901	3,588	7,108	14,597
Utah.....	312	508	547	1,367
Vermont.....	215	196	184	595
Virginia.....	1,092	1,018	635	2,745
Washington.....	718	1,806	1,592	4,116
West Virginia....	541	965	922	2,428
Wisconsin.....	1,967	2,952	1,245	6,164
Wyoming.....	188	210	214	612
Puerto Rico.....	7	16	32	55
Unknown.....	---	---	---	---
Total.....	56,211	83,977	65,151	205,339

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

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

FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

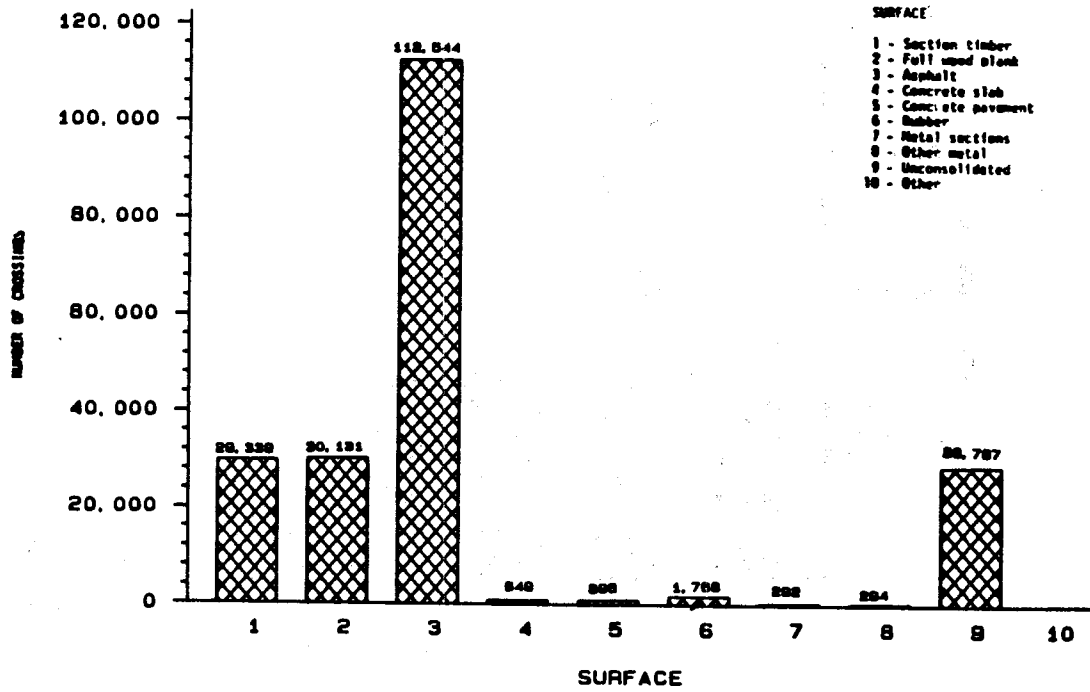
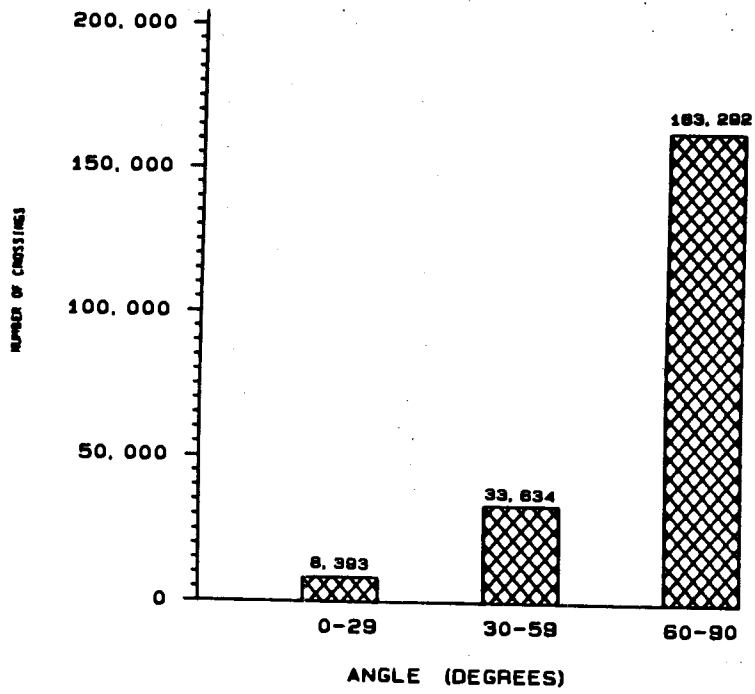


FIGURE 31. CROSSINGS BY CROSSING SURFACE

**OPERATIONAL CHARACTERISTICS
TRAIN TRAFFIC DATA 1983**

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

Trains	Crossings
<1	30,571
1-5	98,178
6-10	34,966
11-15	12,588
16-20	12,381
21-25	5,461
26-30	4,124
31-35	2,314
36-40	1,512
41-45	659
46-50	1,027
51-55	334
56-60	273
61-65	265
66-70	90
71-75	78
76-80	239
81-85	33
86-90	14
91-95	16
96-100	65
>100	151
Total	205,339

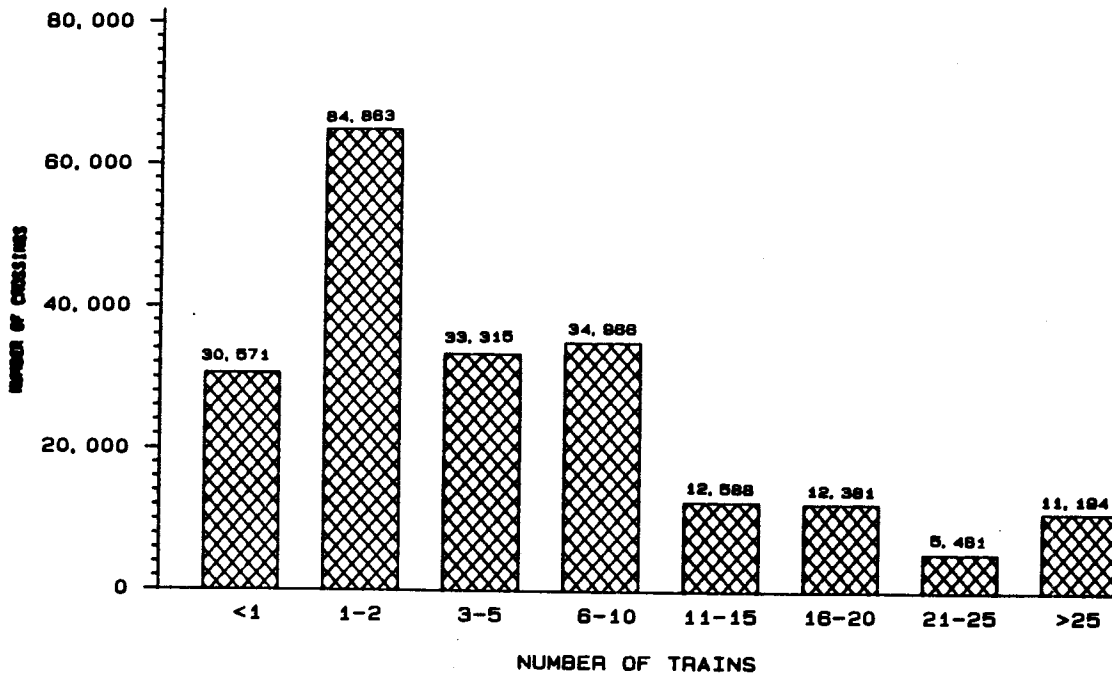


FIGURE 32. CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY

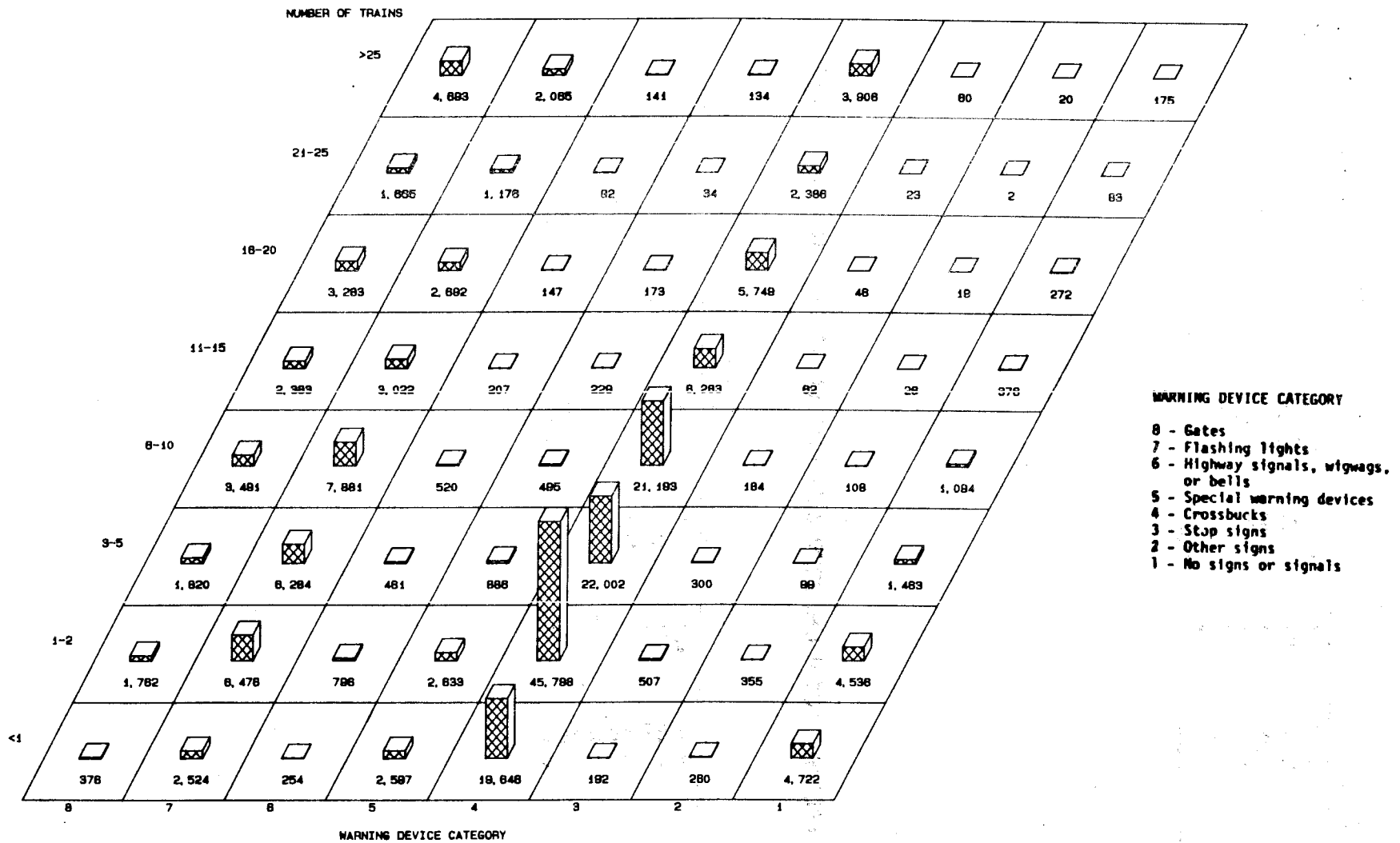


FIGURE 33. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

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	30,571	35,637	15,665	16,130	5,051	5,983	2,194	4,385	115,616
1-2	27,905	9,233	6,745	6,716	2,823	2,176	964	1,656	58,218
2-3	6,770	1,883	2,054	2,659	1,253	670	501	919	16,709
6-10	3,740	982	942	1,630	819	989	299	627	10,028
11-15	754	190	192	302	90	108	81	132	1,849
16-20	621	133	117	218	87	94	115	123	1,508
21-25	143	36	20	66	17	15	36	47	380
>25	346	84	81	144	105	105	27	139	1,031
Total	70,850	48,178	25,816	27,865	10,245	10,140	4,217	8,028	205,339

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	30,571	8,954	1,315	240	13	7	3	1	41,104
1-2	40,226	32,865	3,223	517	25	44	1	1	76,902
2-3	6,441	12,483	17,931	1,805	249	174	2	3	39,088
6-10	2,787	2,839	6,797	15,160	1,569	184	226	16	29,578
11-15	359	260	731	3,301	4,756	602	12	36	10,057
16-20	337	39	88	642	1,133	1,866	123	242	4,470
21-25	51	13	35	124	337	157	640	96	1,453
>25	496	42	43	99	285	310	354	1,058	2,687
Total	81,268	57,495	30,163	21,888	8,367	3,344	1,361	1,453	205,339

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.....	376	1,762	1,820	3,491	2,383	3,283	1,665	4,693	19,473
Flashing lights.....	2,524	8,476	6,284	7,881	3,022	2,692	1,176	2,065	34,120
Hwy. signals, wigwags, bells	254	796	461	520	207	147	92	141	2,618
Special warning devices.....	2,597	2,633	886	495	229	173	34	134	7,181
Crossbucks.....	19,646	45,798	22,002	21,193	6,283	5,749	2,386	3,906	126,963
Stop signs.....	192	507	300	184	62	46	23	60	1,374
Other signs.....	260	355	99	108	26	19	2	20	889
No signs or signals.....	4,722	4,536	1,463	1,094	376	272	83	174	12,720
Total.....	30,571	64,863	33,315	34,966	12,588	12,381	5,461	11,193	205,338

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	14,264	3,602	3,357	6,242	1,896	1,210	30,571
1-2	34,846	7,154	6,664	10,970	3,177	2,052	64,863
2-3	17,001	3,821	3,489	6,144	1,707	1,153	33,315
6-10	17,762	4,008	3,712	6,316	1,920	1,248	34,966
11-15	5,885	1,304	1,376	2,600	811	612	12,588
16-20	5,611	1,393	1,414	2,619	818	526	12,381
21-25	2,407	645	648	1,206	356	199	5,461
>25	4,327	1,197	1,258	2,758	970	684	11,194
Total	102,103	23,124	21,918	38,855	11,655	7,684	205,339

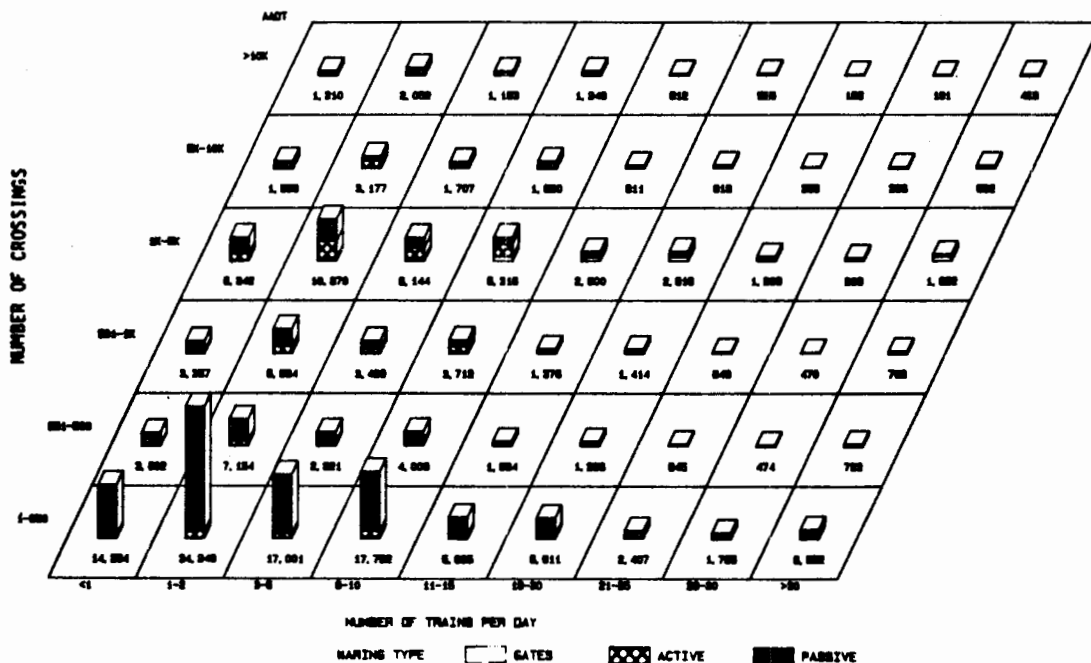


FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC (AADT)

TRAIN SPEED DATA 1983

TABLE 55. TOTAL CROSSINGS BY MAXIMUM TIMETABLE SPEED

Timetable Speed	Crossings
1-5	9,412
6-10	31,667
11-15	15,486
16-20	15,876
21-25	23,058
26-30	25,817
31-35	14,760
36-40	20,437
41-45	4,952
46-50	18,927
51-55	2,485
56-60	10,380
61-65	1,070
66-70	3,669
71-75	858
76-80	5,277
81-85	11
86-90	835
91-95	---
96-100	3
>100	359
Total	205,339

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION

Speed Variation	Crossings
<1	3,427
1-5	56,902
6-10	52,431
11-15	22,357
16-20	19,261
21-25	12,001
26-30	12,051
31-35	5,721
36-40	6,414
41-45	2,880
46-50	5,557
51-55	1,080
56-60	2,050
61-65	695
66-70	705
71-75	645
76-80	742
81-85	56
86-90	60
91-95	---
96-100	---
>100	304
Total	205,339

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

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

AADT	Crossings
1-100	70,629
101-200	19,056
201-300	18,622
301-400	8,106
401-500	8,814
501-600	5,127
601-700	3,680
701-800	5,743
801-900	2,898
901-1,000	4,470
1,001-2,000	17,525
2,001-3,000	10,159
3,001-4,000	5,858
4,001-5,000	5,313
5,001-6,000	3,135
6,001-7,000	2,378
7,001-8,000	2,557
8,001-9,000	1,722
9,001-10,000	1,863
10,001-20,000	6,128
>20,000	1,556
Total	205,339

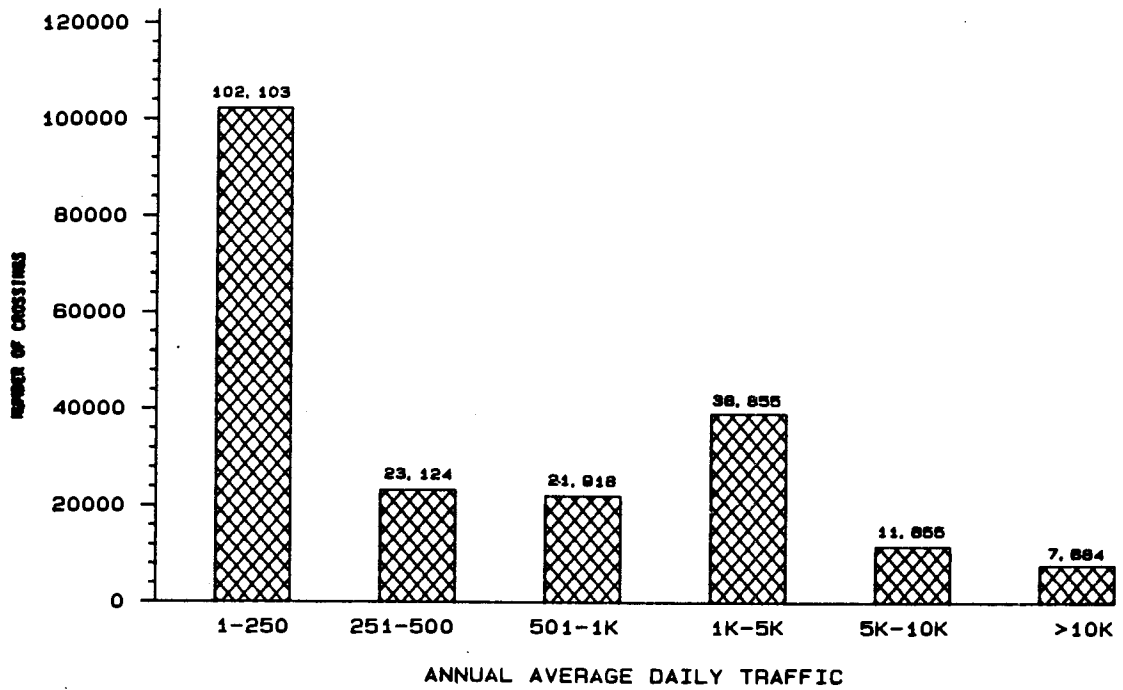


FIGURE 35 CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC

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

Warning device	ANNUAL AVERAGE DAILY TRAFFIC						Total
	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	
Gates.....	2,602	1,862	2,581	7,072	3,008	2,348	19,473
Flashing lights.....	4,985	3,668	5,216	12,824	4,402	3,025	34,120
Hwy. signals, wigwags, bells	822	307	369	670	241	209	2,618
Special warning devices.....	1,602	869	973	2,306	858	573	7,181
Crossbucks.....	83,996	14,677	11,150	13,534	2,460	1,146	126,963
Stop signs.....	690	189	178	249	45	23	1,374
Other signs.....	410	178	133	115	41	12	889
No signs or signals.....	6,996	1,374	1,318	2,085	600	347	12,720
Total.....	102,103	23,124	21,918	38,855	11,655	7,683	205,338

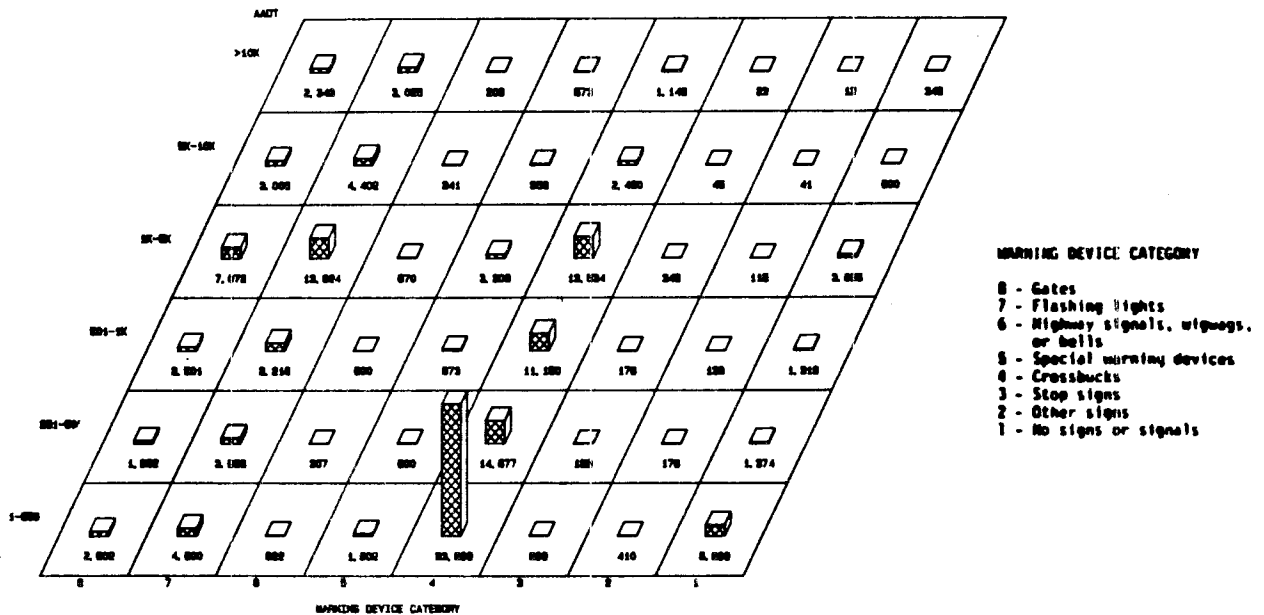


FIGURE 36 CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY

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

%	Crossings
<1	7,229
1-5	81,398
6-10	72,629
11-15	21,687
16-20	9,716
21-25	2,445
26-30	6,942
31-35	398
36-40	1,117
41-45	154
46-50	1,105
51-55	20
56-60	167
61-65	6
66-70	63
71-75	115
76-80	73
81-85	6
86-90	58
91-95	1
96-99	10
Total	205,339

APPENDIX A: REPORTING REQUIREMENTS AND DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1983 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 \$4,500 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 signals, 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 railcars, 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 purposes.

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 pm and 6 am.

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 passengers. 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.

REVISION IN HIGHWAY SYSTEM AND FUNCTIONAL CLASSIFICATION CODES:

The Highway System and Functional Classification Codes in the Inventory have been revised from those used in the original inventory to those currently in use by the Federal Highway Administration. The revisions are as follows:

FUNCTIONAL CLASSIFICATION CODES

<u>RURAL</u>	<u>PREVIOUS</u>				<u>PRESENT</u>
Interstate	01				01
Other principal arterial	02				02
Minor arterial	03				06
Major collector	04				07
Minor collector	05				08
Local	06				09

<u>URBAN</u>	<u>PREVIOUS</u>				<u>PRESENT*</u>
	Population (Thousands)				
	<u>5-10</u>	<u>10-25</u>	<u>25-50</u>	<u>Over 50</u>	
Interstate	11	21	31	41	11
Other freeway and expressway	12	22	32	42	12
Other principal arterial	13	23	33	43	14
Minor arterial	14	24	34	44	16
Collector	15	25	35	45	17
Local	16	26	36	46	19

*NOTE: The present Functional Classification Codes will not contain a population code. The tens digit for the urban codes must be "1".

HIGHWAY SYSTEM CODES

PRESENT

PREVIOUS

1	Interstate	01 Interstate, rural, open to traffic 02 Interstate, urban, open to traffic
2	Federal-aid primary	03 Other FA primary, rural 04 Other FA primary, urban
3	Federal-aid urban	14 Federal-aid urban
4	Federal-aid secondary	05 FA secondary rural, State jurisdiction 06 FA secondary urban, State jurisdiction 07 FA secondary rural, local jurisdiction 08 FA secondary urban, local jurisdiction
8	Non-Federal-aid	09 Other State highways, rural (non - FA) 10 Other State highways, urban (non - FA) 11 Local rural roads 12 Local city streets

APPENDIX B: REPORTING FORMS

FORMS

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

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

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

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 01-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	
TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

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

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

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

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

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

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <div style="text-align: right;">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-ARR GRADE CROSSING IDENTIFICATION NUMBER	5. DATE OF ACCIDENT/INCIDENT month day year		6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) CODE			
1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify) 2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion-Detonation			

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

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

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

OPERATIONAL DATA					
19. METHOD (place X in appropriate box(es))					
1 <input type="checkbox"/> Manual block	4 <input type="checkbox"/> Automatic block	7 <input type="checkbox"/> Yard rules	10 <input type="checkbox"/> Auto. train control	13 <input type="checkbox"/> Other (specify)	
2 <input type="checkbox"/> Interlocking	5 <input type="checkbox"/> Traffic control	8 <input type="checkbox"/> Time table	11 <input type="checkbox"/> Verbal permission		
3 <input type="checkbox"/> Cab signal	6 <input type="checkbox"/> Auto. train stop	9 <input type="checkbox"/> Radio	12 <input type="checkbox"/> Train orders		

20. SPEED (recorded speed, if available) Est. <input type="checkbox"/> MPH Recorded <input type="checkbox"/>	21. TRAIN NUMBER	22. TIME TABLE DIRECTION CODE 1. North 2. South 3. East 4. West
--	------------------	--

EQUIPMENT			
23. TRAILING TONS (gross tonnage, excluding power units)	24. TYPE OF EQUIPMENT CONSIST (single entry) 1. Freight train 3. Mixed train 5. Single car 7. Yard/switching 2. Passenger train 4. Work train 6. Cut of cars 8. Light loco(s)	CODE	25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? 1. Yes 2. No CODE

26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION	28. ANNUAL TRACK DENSITY (gross tons in millions)	29. TYPE OF TRACK CODE 1. Main 3. Siding 2. Yard 4. Industry
--------------------------	------------------------------	---	---

30. PRINCIPLE CAR/UNIT	30a. Initial and Number	30b. Position in Train	30c. Loaded (yes or no)
(1) First Involved (derailed, struck, striking, etc.)			
(2) Causing (mechanical failures)			

LOCOMOTIVE UNITS (no. of)											
a. Head End		Mid Train		Rear End		32. CARS (no. of)					
		b. Manual	c. Remote	d. Manual	e. Remote	a. Freight		b. Pass.	c. Freight	d. Pass.	e. Caboose
(1) Total in Train						(1) Total in Equipment Consist					
(2) Total Derailed						(2) Total Derailed					

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

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

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

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

47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE
--------------------------	---------------	----------

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

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		<input type="checkbox"/> Amtrak <input type="checkbox"/> Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN THIS 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	1. Auto	3. Truck-Trailer	6. Motorcycle	CODE	16. EQUIPMENT	1. Train (units pulling)	3. Train (standing)	6. Light loco(s) (moving)	CODE
	2. Truck	4. Bus	7. Pedestrian			2. Train (units pushing)	5. Car(s) (standing)	8. Other (specify)	
		5. School Bus	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	1. Stalled on crossing	2. Stopped on crossing	3. Moving over crossing	CODE	18. CIRCUMSTANCE				CODE
					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 2. Day 4. Dark		1. Clear 3. Rain 5. Sleet 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 2. Passenger 4. Work 6. Light Locomotive(s)		1. Main 3. Siding 2. Yard 4. Industry	
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION		27. NUMBER OF LOCOMOTIVE UNITS
28. NUMBER OF CARS	29. TRAIN SPEED (record speed, if available)		30. TIME TABLE DIRECTION
	MPH Recorded Est		1. North 3. East 2. South 4. West

CROSSING WARNING

31. TYPE	CODE	32. SIGNALLED CROSSING WARNING	CODE
(place X in appropriate box(es))	1. <input type="checkbox"/> Gates 5. <input type="checkbox"/> Hwy. Traffic Signals 9. <input type="checkbox"/> Watchman 2. <input type="checkbox"/> Cantilever FLS 6. <input type="checkbox"/> Audible 10. <input type="checkbox"/> Flagged by crew 3. <input type="checkbox"/> Standard FLS 7. <input type="checkbox"/> Crossbucks 11. <input type="checkbox"/> Other (specify) 4. <input type="checkbox"/> Wig Wags 8. <input type="checkbox"/> Stop Signs 12. <input type="checkbox"/> None	Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No	
33. LOCATION OF WARNING	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS	CODE
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	3. Did not stop 4. Other (specify) 5. Unknown		
1. Drove around or thru the gate 2. Stopped and then proceeded			
39. VIEW OF TRACK OBSCURED BY (primary obstruction)	7. Other (specify)		
1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 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

U.S. DOT - AAR CROSSING INVENTORY FORM

A. INITIATING AGENCY
 RAILROAD STATE

C. REASON FOR UPDATE:
 CHANGES IN EXISTING CROSSING DATA
 NEW CROSSING
 CLOSED CROSSING

D. EFFECTIVE DATE
M D Y

B. CROSSING NUMBER

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

1. Railroad Operating Company <input type="text"/>	2. Railroad Division or Region <input type="text"/>	3. Railroad Subdivision or District <input type="text"/>
4. State <input type="text"/>	5. County <input type="text"/>	6. County Map. Ref. No. <input type="text"/>
7. City <input type="text"/>	8. Nearest City <input type="text"/>	9. Highway Type and No. <input type="text"/>
10. Street or Road Name <input type="text"/>	11. RR I. D. No. <input type="text"/>	DO NOT WRITE IN THIS SPACE State <input type="text"/> County <input type="text"/> City <input type="text"/> Nearest City <input type="text"/> RR Code <input type="text"/> Timetable Station <input type="text"/>
12. Nearest RR Timetable Station <input type="text"/>	13. Branch or Line Name <input type="text"/>	14. Railroad Mile Post <input type="text"/>

15. Pedestrian Crossing
 1. at grade
 2. RR under
 3. RR over

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

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

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements

Daylight (6 AM to 6 PM)		Night (6 PM to 6 AM)	
thru trains	switching	thru trains	switching
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

2. Speed of Train at Crossing
A. Maximum time table speed mph
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		Standard Highway Stop Sign <input type="text"/>	Other Stop Signs <input type="text"/>	Other Signs - Specify			
reflectORIZED <input type="text"/>	non-reflectORIZED <input type="text"/>			05 <input type="text"/>	06 <input type="text"/>	07 <input type="text"/>	08 <input type="text"/>

B. Train Activated Devices

Gates		Cantilevered Flashing Lights		Mast Mounted Flashing Lights <input type="text"/>	Other Flashing Lights Specify <input type="text"/>	Highway Traffic Signals <input type="text"/>	Wigwags <input type="text"/>	Bells <input type="text"/>	
red & white reflectORIZED <input type="text"/>	other colored <input type="text"/>	over traffic lane <input type="text"/>	not over traffic lane <input type="text"/>						13 <input type="text"/>

C. Specify Special Warning Device not Train Activated

D. No Signs or Signals 20

7. Is Commercial Power Available? Yes No

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

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

Part III Physical Data

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

Part IV Highway Department Information

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

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 FIELD?								
	YES	107	NO	6,165	NOT REPORTED				0
2.	WAS DRIVER IN VEHICLE?								
	YES	5,405	NO	860	NOT REPORTED				7
3.	DRIVER WAS:								
	KILLED	326	INJURED	1,354	UNINJURED	4,399	NOT REPORTED		13
4.	IS CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS?								
	YES	381	NO	4,450	NOT REPORTED	775	N/A	576	
5.	DIRECTION (GEOGRAPHICAL) OF HIGHWAY USER INVOLVED:								
	NORTH	1,639	SOUTH	1,598	EAST	1,585	WEST	1,411	NOT REPORTED 39
6.	TRAIN TIMETABLE DIRECTION:								
	NORTH	1,323	SOUTH	1,272	EAST	1,860	WEST	1,792	NOT REPORTED 25

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

LESS THAN ONE TRAIN PER DAY?					
YES	31,927	NO	173,411	N/R	1
DOES ANOTHER RAILROAD OPERATE A SEPARATE TRACK AT CROSSINGS?					
YES	5,187	NO	200,055	N/R	97
DOES ANOTHER RAILROAD OPERATE OVER YOUR TRACK AT CROSSING?					
YES	28,846	NO	176,367	N/R	126
IS TRACK EQUIPPED WITH ANY SIGNS OR SIGNALS?					
YES	191,557	NO	13,777	N/R	5
IS TRACK EQUIPPED WITH SIGNALS FOR TRAIN OPERATION?					
YES	58,936	NO	146,018	N/R	385
IS HIGHWAY PAVED?					
YES	141,169	NO	64,156	N/R	14
IS COMMERCIAL POWER AVAILABLE?					
YES	185,853	NO	19,375	N/R	111
DOES TRACK RUN DOWN A STREET? ¹					
YES	6,388	NO	198,855	N/R	8,096
NEARBY INTERSECTING HIGHWAY? ¹					
YES	74,559	NO	122,633	N/R	8,147
RR ADVANCE WARNING SIGNS PRESENT?					
YES	101,483	NO	103,830	N/R	26
ARE TRUCK PULLOUT LANES PRESENT?					
YES	2,581	NO	202,686	N/R	72
IS CROSSING ON STATE HIGHWAY SYSTEM?					
YES	32,200	NO	173,094	N/R	45
DOES CROSSING PROVIDE SPEED SELECTION?					
YES	6,429	NO	71,704	N/R	127,206

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	TYPE OF TRAIN											
	---Freight---			---Passenger---			---Yard Switching---			---Other---		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama.....	5	---	2	---	---	---	3	---	1	2	---	2
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	1	---	---	---	---	---	---	---	---	1	---	---
Arkansas.....	7	1	---	---	---	---	2	---	---	3	---	3
California.....	22	2	5	---	---	---	3	---	1	7	---	3
Colorado.....	4	---	---	---	---	---	---	---	---	---	---	---
Connecticut.....	1	---	---	1	---	---	1	---	---	---	---	---
Delaware.....	1	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	4	2	5	2	1	---	2	---	1	1	---	1
Georgia.....	8	---	2	---	---	---	4	---	---	1	---	---
Idaho.....	4	3	1	---	---	---	1	---	---	---	---	---
Illinois.....	6	1	---	---	---	---	12	---	3	2	---	---
Indiana.....	12	---	4	---	---	---	2	---	---	1	---	1
Iowa.....	5	---	---	---	---	---	1	---	---	---	---	---
Kansas.....	2	---	---	---	---	---	2	---	---	2	---	---
Kentucky.....	22	---	6	---	---	---	1	---	---	2	---	1
Louisiana.....	12	1	1	---	---	---	4	---	---	3	---	2
Maine.....	2	1	---	---	---	---	1	---	---	1	---	---
Maryland.....	2	---	---	---	---	---	1	---	---	1	---	---
Massachusetts....	1	---	---	2	---	---	2	---	1	---	---	---
Michigan.....	8	1	1	---	---	---	14	---	---	4	---	---
Minnesota.....	3	---	1	---	---	---	3	---	---	---	---	---
Mississippi.....	3	---	5	1	1	---	---	---	---	---	---	---
Missouri.....	14	3	6	2	---	---	1	---	---	1	---	---
Montana.....	2	---	1	1	1	1	2	---	---	1	---	---
Nebraska.....	7	---	1	---	---	---	2	---	---	4	---	---
Nevada.....	1	---	---	---	---	---	1	---	1	2	---	1
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	3	---	1	3	---	1	6	---	---	1	---	1
New Mexico.....	2	---	1	1	---	---	---	---	---	---	---	---
New York.....	8	1	5	5	---	2	5	---	1	2	---	1
North Carolina...	12	---	4	1	---	1	2	---	---	2	---	---
North Dakota.....	1	---	---	---	---	---	1	---	---	1	---	---
Ohio.....	17	---	8	1	---	---	6	---	2	3	---	---
Oklahoma.....	6	2	1	---	---	---	---	---	---	---	---	---
Oregon.....	6	---	2	1	---	---	1	---	---	2	---	---
Pennsylvania.....	19	2	4	---	---	---	---	---	---	4	---	---
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	---	---	---	---	---	---	3	---	1	---	---	---
South Dakota.....	1	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	10	3	1	---	---	---	4	---	---	2	---	---
Texas.....	29	---	12	---	---	---	7	---	---	8	---	1
Utah.....	2	---	---	---	---	---	1	---	---	2	---	---
Vermont.....	1	1	1	---	---	---	---	---	---	---	---	---
Virginia.....	30	1	10	3	---	---	3	---	---	4	---	5
Washington.....	9	1	1	---	---	---	5	---	---	3	---	---
West Virginia....	15	---	4	---	---	---	3	---	---	4	---	3
Wisconsin.....	6	---	---	---	---	---	6	---	1	1	---	2
Wyoming.....	4	---	3	---	---	---	1	---	---	1	---	2
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	340	26	99	24	3	5	119	---	13	79	---	29

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

State	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama.....	---	1	---	1	2	---	---	6	10
Alaska.....	---	---	---	---	---	---	---	---	---
Arizona.....	---	---	1	---	---	---	---	1	2
Arkansas.....	---	---	---	---	6	---	---	6	12
California.....	1	1	2	---	3	17	---	8	32
Colorado.....	---	---	---	---	3	---	1	---	4
Connecticut.....	---	---	---	---	2	1	---	---	3
Delaware.....	---	1	---	---	---	---	---	---	1
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida.....	---	---	---	---	7	1	---	1	9
Georgia.....	---	---	---	3	6	---	---	4	13
Idaho.....	---	---	1	---	1	---	---	3	5
Illinois.....	---	---	---	---	5	2	2	11	20
Indiana.....	1	---	---	2	6	---	1	5	15
Iowa.....	1	---	---	1	---	2	---	2	6
Kansas.....	---	---	---	1	1	---	---	4	6
Kentucky.....	---	1	---	---	4	1	1	18	25
Louisiana.....	---	---	---	4	5	1	---	9	19
Maine.....	---	---	---	---	---	---	---	4	4
Maryland.....	---	---	---	---	---	---	1	3	4
Massachusetts....	1	1	---	1	1	---	---	1	5
Michigan.....	---	7	---	1	1	2	3	12	26
Minnesota.....	---	---	---	1	1	1	---	3	6
Mississippi.....	---	---	---	---	1	---	---	3	4
Missouri.....	---	1	---	---	9	---	1	7	18
Montana.....	---	---	---	1	1	---	---	4	6
Nebraska.....	---	---	3	1	2	1	---	6	13
Nevada.....	---	---	---	---	1	3	---	---	4
New Hampshire.....	---	---	---	---	---	---	---	---	---
New Jersey.....	1	2	---	4	2	1	1	2	13
New Mexico.....	---	---	---	---	2	---	---	1	3
New York.....	---	2	---	1	3	2	3	9	20
North Carolina...	1	---	---	1	10	1	---	4	17
North Dakota.....	---	---	---	---	1	---	---	2	3
Ohio.....	1	4	1	1	8	---	1	11	27
Oklahoma.....	---	---	---	---	4	---	---	2	6
Oregon.....	---	1	---	---	4	1	---	4	10
Pennsylvania.....	---	1	---	3	8	2	4	5	23
Rhode Island.....	---	---	---	---	---	---	---	---	---
South Carolina...	---	---	---	2	---	---	---	1	3
South Dakota.....	---	---	---	---	---	1	---	---	1
Tennessee.....	---	---	---	2	2	---	---	12	16
Texas.....	---	1	1	1	19	3	---	19	44
Utah.....	---	---	---	---	3	---	1	1	5
Vermont.....	---	---	---	---	---	---	---	1	1
Virginia.....	---	---	1	2	12	5	---	20	40
Washington.....	---	---	2	---	5	1	---	9	17
West Virginia....	---	1	---	2	6	---	---	13	22
Wisconsin.....	---	1	---	1	4	2	---	5	13
Wyoming.....	---	---	1	---	1	1	1	2	6
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	7	26	13	37	162	52	21	244	562

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

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.....	261	43.57	17	51.52	76	48.72	14	50
Truck.....	189	31.55	11	33.33	50	32.05	11	43
Truck-trailer....	111	18.53	1	3.03	20	12.82	1	19
Bus.....	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	1	.17	---	---	---	---	---	---
Pedestrian.....	2	.33	2	6.06	---	---	2	---
Other.....	35	5.84	2	6.06	10	6.41	2	5
Total.....	599	100.00	33	100.00	156	100.00	30	117

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

Warning Device	--Drove Around-- -Or Thru Gate--			--Stopped And-- -Then Proceeded			-Did Not Stop--			-----Other-----			-----Unknown-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	1	---	---	1	---	---	1	---	1	4	---	2	---	---	---	7	---	3
Cantilever flashrs	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Standard flashers	---	---	---	3	---	---	15	---	2	8	---	4	---	---	---	26	---	6
Hwy Sig,W W,Bells	---	---	---	---	---	---	9	2	3	3	---	---	1	---	---	13	2	3
Special Devices..	---	---	---	7	---	1	22	---	2	8	---	---	---	---	---	37	---	3
Crossbucks.....	---	---	---	7	---	2	85	11	25	69	---	15	1	---	---	162	11	42
Stopsigns.....	---	---	---	3	---	1	27	1	12	14	---	3	8	---	---	52	1	16
Other Signs.....	---	---	---	1	---	1	12	1	4	8	---	1	---	---	---	21	1	6
No Signs Or Signl	---	---	---	9	1	---	110	10	39	116	3	26	9	---	2	244	14	67
Total.....	1	---	---	31	1	5	281	25	88	230	3	51	19	---	2	562	29	146

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

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

Speed Of Consist	VISIBILITY												Total					
	Dawn			Day			Dusk			Dark			A/I	Kld	Inj			
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj						
RAIL CONSIST STRUCK HIGHWAY USER																		
Standing.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9.....	5	---	---	117	---	8	4	---	---	50	---	9	176	---	17			
10-19.....	1	---	---	50	---	13	1	---	---	20	---	4	72	---	17			
20-29.....	3	---	1	46	2	33	4	---	5	23	---	8	76	2	47			
30-39.....	2	---	---	38	5	16	2	---	1	28	1	8	70	6	25			
40-49.....	---	---	---	41	7	10	1	1	---	28	1	6	70	9	16			
50-59.....	1	---	---	10	5	8	1	1	---	10	---	1	22	6	9			
60-69.....	---	---	---	9	1	3	---	---	---	3	---	---	12	1	3			
70-79.....	---	---	---	2	2	1	---	---	---	2	1	---	4	3	1			
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Total.....	12	---	1	313	22	92	13	2	6	164	3	36	502	27	135			
HIGHWAY USER STRUCK RAIL CONSIST																		
Standing.....	---	---	---	1	---	---	---	---	---	4	---	1	5	---	1			
1-9.....	1	---	---	17	---	2	4	---	1	12	---	2	34	---	5			
10-19.....	---	---	---	4	---	---	1	---	1	2	---	1	7	---	2			
20-29.....	---	---	---	5	---	1	---	---	---	1	---	---	6	---	1			
30-39.....	---	---	---	---	---	---	1	---	1	2	---	---	3	---	1			
40-49.....	---	---	---	4	1	1	---	---	---	---	---	---	4	1	1			
50-59.....	---	---	---	1	1	---	---	---	---	---	---	---	1	1	---			
60-69.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
70-79.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Total.....	1	---	---	32	2	4	6	---	3	21	---	4	60	2	11			
GRAND TOTAL																		
Standing.....	---	---	---	1	---	---	---	---	---	4	---	1	5	---	1			
1-9.....	6	---	---	134	---	10	8	---	1	62	---	11	210	---	22			
10-19.....	1	---	---	54	---	13	2	---	1	22	---	5	79	---	19			
20-29.....	3	---	1	51	2	34	4	---	5	24	---	8	82	2	48			
30-39.....	2	---	---	38	5	16	3	---	2	30	1	8	73	6	26			
40-49.....	---	---	---	45	8	11	1	1	---	28	1	6	74	10	17			
50-59.....	1	---	---	11	6	8	1	1	---	10	---	1	23	7	9			
60-69.....	---	---	---	9	1	3	---	---	---	3	---	---	12	1	3			
70-79.....	---	---	---	2	2	1	---	---	---	2	1	---	4	3	1			
80-89.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Total.....	13	---	1	345	24	96	19	2	9	185	3	40	562	29	146			

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

WARNING DEVICE CATEGORY

Railroad	WARNING DEVICE CATEGORY								Total
	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	---	---	---	---	10	1	1	5	17
Atchison, Topeka and Santa Fe Railway Co..	---	---	---	---	11	1	---	5	17
Baltimore and Ohio Railroad Company.....	---	1	---	3	6	1	---	10	21
Bangor And Aroostook Railroad Company.....	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	1	---	---	1	1	---	---	---	3
Burlington Northern.....	---	1	7	3	23	2	1	35	72
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	---	---	1	---	---	---	---	1
Central of Georgia Railroad Company.....	---	---	---	1	1	---	---	1	3
Central Vermont Railway Incorporated.....	---	---	---	---	---	---	---	---	---
Chesapeake and Ohio Railway Company.....	---	5	1	---	9	4	1	16	36
Chicago and Northwestern Transportation Co	---	---	---	---	1	5	1	5	12
Chicago And Illinois Midland Railway Co...	---	---	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	---	---	---	1	---	---	---	---	1
Chicago, Milwaukee, St. Paul & Pacific RR.	1	---	---	2	1	1	---	2	7
Cincinnati, New Orleans & Texas Pacific RR	---	---	---	---	2	---	---	1	3
Consolidated Rail Corporation.....	2	7	---	9	18	4	11	24	75
Delaware and Hudson Railroad Company.....	---	---	---	---	---	---	---	---	---
Denver and Rio Grande Western Railroad Co.	---	---	---	---	---	---	2	---	2
Detroit, Toledo and Ironton Railroad Co...	---	---	---	---	---	---	1	1	2
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company.....	---	---	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company.....	---	3	---	---	---	---	---	4	7
Green Bay And Western Railroad.....	---	---	---	---	---	---	---	---	---
Illinois Central Gulf Railroad.....	---	---	---	2	3	2	2	7	16
Kansas City Southern Railway Company.....	---	---	---	1	5	---	---	3	9
Louisiana & Arkansas Railway Company.....	---	---	---	1	1	---	---	2	4
Maine Central Railroad Company.....	---	---	---	---	---	---	---	4	4
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	---	2	---	1	8	---	---	11	22
Missouri-Kansas-Texas Railroad Company....	---	---	---	---	1	2	---	2	5
Monogahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	1	1	1	2	14	3	---	30	52
Northwestern Pacific Railroad.....	---	---	---	---	---	3	---	---	3
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Providence And Worcester Railroad Company.	---	1	---	---	---	---	---	---	1
Richmond, Frederickburg And Potomac.....	---	---	---	---	2	---	---	---	2
Seaboard System Railroad.....	---	1	---	3	23	3	---	21	51
Soo Line Railroad.....	---	---	---	---	---	---	---	3	3
Southern Pacific Transportation Company...	1	2	3	---	8	15	---	17	46
Southern Railway Company.....	---	---	---	2	4	---	---	13	19
Spokane International Railroad.....	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company....	---	---	---	---	5	---	---	2	7
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Toledo, Peoria And Western Railroad.....	---	---	---	---	---	1	---	---	1
Union Pacific Railroad.....	---	---	---	1	7	2	---	10	20
Western Maryland Railway.....	---	---	---	---	---	---	---	---	---
Western Pacific Railroad Company.....	---	---	1	---	2	---	---	---	3
All Other Railroads.....	1	2	---	3	6	2	2	14	30
Total.....	7	26	13	37	172	52	22	248	577

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

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

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

Railroad	-----Motor Vehicle-----			-----Other Highway Users-----			-----Total-----		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	---	---
Amtrak (National Railroad Passenger Corp.)	17	---	---	---	---	---	17	---	---
Atchison, Topeka and Santa Fe Railway Co..	17	---	4	1	---	---	18	---	4
Baltimore and Ohio Railroad Company.....	21	---	6	1	---	---	22	---	6
Bangor And Aroostook Railroad Company.....	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Company.....	---	---	---	---	---	---	---	---	---
Boston and Maine Corporation.....	3	---	---	---	---	---	3	---	---
Burlington Northern.....	72	7	14	5	---	1	77	7	15
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	1	---	1	---	---	---	1	---	1
Central of Georgia Railroad Company.....	3	---	1	---	---	---	3	---	1
Central Vermont Railway Incorporated.....	---	---	---	---	---	---	---	---	---
Chesapeake and Ohio Railway Company.....	36	2	10	---	---	---	36	2	10
Chicago and Northwestern Transportation Co	12	---	3	1	---	---	13	---	3
Chicago And Illinois Midland Railway Co...	---	---	---	1	---	---	1	---	---
Chicago South Shore And South Bend RR....	1	---	---	---	---	---	1	---	---
Chicago, Milwaukee, St. Paul & Pacific RR.	7	---	---	1	---	---	8	---	---
Cincinnati, New Orleans & Texas Pacific RR	3	---	1	---	---	---	3	---	1
Consolidated Rail Corporation.....	75	3	17	---	---	---	75	3	17
Delaware and Hudson Railroad Company.....	---	---	---	---	---	---	---	---	---
Denver and Rio Grande Western Railroad Co.	2	---	---	1	---	---	3	---	---
Detroit, Toledo and Ironton Railroad Co...	2	---	---	---	---	---	2	---	---
Duluth Winnipeg And Pacific Railway Co....	---	---	---	---	---	---	---	---	---
Duluth, Missabe and Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet and Eastern Railway Company.	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Company.....	---	---	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	---	---	---	---	---	---	---	---	---
Grand Trunk Western Railroad Company.....	7	---	---	2	1	---	9	1	---
Green Bay And Western Railroad.....	---	---	---	---	---	---	---	---	---
Illinois Central Gulf Railroad.....	16	1	8	2	---	1	18	1	9
Kansas City Southern Railway Company.....	9	---	---	---	---	---	9	---	1
Louisiana & Arkansas Railway Company.....	4	---	---	---	---	---	4	---	---
Maine Central Railroad Company.....	4	1	---	2	---	---	6	1	---
Michigan Interstate Railroad.....	---	---	---	---	---	---	---	---	---
Missouri Pacific Railroad Company.....	22	3	5	2	1	---	24	4	5
Missouri-Kansas-Texas Railroad Company....	5	---	5	---	---	---	5	---	5
Monongahela Railway.....	---	---	---	---	---	---	---	---	---
Norfolk and Western Railway Company.....	52	---	23	4	---	1	56	---	24
Northwestern Pacific Railroad.....	3	1	3	---	---	---	3	1	3
Pittsburgh & Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---
Providence And Worcester Railroad Company.	1	---	1	---	---	---	1	---	1
Richmond, Frederickburg And Potomac.....	2	---	---	---	---	---	2	---	---
Seaboard System Railroad.....	51	3	14	3	1	---	54	4	14
Soo Line Railroad.....	3	---	---	---	---	---	3	---	---
Southern Pacific Transportation Company...	46	---	9	4	1	6	50	1	15
Southern Railway Company.....	19	3	5	2	---	---	21	3	5
Spokane International Railroad.....	---	---	---	---	---	---	---	---	---
St. Louis Southwestern Railway Company....	7	2	3	2	---	---	9	2	3
Texas Northern Railroad Company.....	---	---	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---	---	---
Toledo, Peoria And Western Railroad.....	1	---	---	---	---	---	1	---	---
Union Pacific Railroad.....	20	1	4	---	---	---	20	1	4
Western Maryland Railway.....	---	---	---	---	---	---	---	---	---
Western Pacific Railroad Company.....	3	1	1	---	---	---	3	1	1
All Other Railroads.....	30	1	7	3	---	1	33	1	8
Total.....	577	29	146	37	4	10	614	33	156

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

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