



FOR THE YEAR ENDED DECEMBER 31, 1975

**RAIL-HIGHWAY  
GRADE-CROSSING  
ACCIDENTS/INCIDENTS BULLETIN**

**DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
OFFICE OF SAFETY**

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION

PREFACE

This is the forty-first annual statistical report on rail-highway grade crossing accidents/incidents based upon reports of rail carriers filed with the Federal Railroad Administration pursuant to the Accident Reports Act of 1910 (as amended).

The purpose of this report is to direct attention to hazards inherent at public grade crossings, and to provide basic statistical information in support of the overall Department of Transportation program to promote the safety of both rail and highway traffic at crossings.

Data in this report is not such as to identify all factors leading to rail-highway grade crossing accidents; however, the tabular information provides valuable material for use in identifying specific conditions surrounding crossing accidents. Due to a major revision in reporting requirements, effective January 1, 1975, data for 1975 is not comparable to that tabulated in earlier years.

In reference to the tables shown in this report, it should be noted that only Tables A, B, 1 and 20A pertain to rail-highway grade crossing accidents/incidents of all kinds. All of the other tables pertaining to accidents/incidents cover only those situations where motor vehicles were involved. The source of data used in Tables 23 through 29 is the National Rail-Highway Crossing Inventory as of November 30, 1976.

BRUCE M. FLOHR  
Deputy Administrator

SUMMARY

RAIL-HIGHWAY GRADE CROSSING ACCIDENTS OF ALL KINDS

In 1975, there were 11,354 crossing accidents involving pedestrians, automobiles, motortrucks, buses, motorcycles, and other vehicles or machines. The above accidents resulted in 978 deaths and 4,168 injuries.

The following two tables show data for the eleven year period, 1965-1975.

TABLE A SUMMARY OF ALL TYPES OF RAIL-HIGHWAY CROSSING  
ACCIDENTS FOR 11-YEAR PERIOD 1965 THRU 1975

Year	Number of Accidents	.....Total.....		Casualties per Accident	
		Killed	Injured	Casualties	
1965	3,820	1,534	3,801	5,335	1.39
1966	4,097	1,780	4,043	5,823	1.42
1967	3,932	1,632	3,812	5,444	1.38
1968	3,816	1,546	3,774	5,320	1.39
1969	3,774	1,490	3,669	5,159	1.36
1970	3,559	1,440	3,336	4,776	1.34
1971	3,392	1,356	3,332	4,688	1.38
1972	3,379	1,260	3,285	4,545	1.34
1973	3,379	1,185	3,283	4,468	1.32
1974	3,268	1,220	3,249	4,469	1.36
1975 <sub>1</sub>	11,354	978	4,168	5,146	0.45

(1) 1975 figures are not comparable to previous years due to changes in reporting requirements

## GRADE CROSSING ACCIDENTS INVOLVING MOTOR VEHICLES

Of the 11,354 crossing accidents of all kinds in 1975, 10,925 involved collisions between railroad movements and motor vehicles, and resulted in 788 deaths and 3,600 injuries. In 7,736 collisions, or 70.81 percent, trains struck motor vehicles, resulting in 611, or 77.54 percent, of the deaths and in 2,413, or 67.03 percent, of the injuries. In the other 3,189 collisions, or 29.19 percent, motor vehicles struck the sides of train movements resulting in 177, or 22.46 percent, of the deaths and in 1,187, or 32.97 percent, of the injuries.

TABLE B NUMBER OF RAIL-HIGHWAY ACCIDENTS INVOLVING MOTOR VEHICLES FOR 11-YEAR PERIOD 1965 THRU 1975

Year	Number of Accidents	Motor Vehicles Registered (000) <sup>1</sup>	Accidents per Million Vehicles
1965	3,602	76,633	47.00
1966	3,862	80,084	48.22
1967	3,733	82,411	45.30
1968	3,603	85,799	41.99
1969	3,572	88,815	40.22
1970	3,377	92,124	36.66
1971	3,224	96,097	33.55
1972	3,222	100,595	32.03
1973	3,174	129,511	24.51
1974	3,079	135,720	22.69
1975 <sup>2</sup>	10,925	137,918	79.21

- (1) Estimated figures supplied by Federal Highway Administration  
 (2) 1975 figures are not comparable to previous years due to changes in reporting requirements

#### TYPES OF CROSSING PROTECTION PROVIDED

Of the 10,925 collisions, 4,847, or 44.37 percent, occurred at crossings which were protected by one of the following: Gates, flashing lights, wigwags, highway traffic signals, or audible signals. The other 6,078, or 55.63 percent, occurred at crossings not protected by automatic warning devices.

The latest available statistics show a total of 219,161 public rail-highway crossings at grade. Of these crossings, 49,369 or 22.53 percent, were protected by automatic warning devices; 169,792 or 77.47 percent were not.

#### TIMES AND WEATHER CONDITIONS INVOLVED IN MOTOR VEHICLE COLLISIONS

Of the 10,925 crossing collisions, 6,501, or 59.51 percent, occurred in daylight, and 4,424, or 40.49 percent, took place at night. There were 6,884 collisions, or 63.01 percent, in clear weather, and 4,041, or 36.99 percent, under cloudy or inclement weather conditions.

#### TYPES OF MOTOR VEHICLES INVOLVED IN CROSSING ACCIDENTS

Of the 10,925 collisions between rail equipment and motor vehicles, automobiles were involved in 8,130, or 74.42 percent; buses in 22, or 0.20 percent; motortrucks in 2,693, or 24.65 percent; and motor-cycles in 80, or 0.73 percent.

## DEFINITION OF TERMS

CLASSIFICATION OF ACCIDENTS/INCIDENTS. A public rail-highway grade crossing accident/incident is any impact between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, or pedestrian, regardless of whether it resulted in any casualties or damage.

CLASSIFICATION OF CASUALTIES. A reportable casualty is any event arising from the operation of a railroad which results in: (a) Death of one or more persons. (b) Injury to one or more persons other than railroad employees, that requires medical treatment. (c) Injury to one or more employees that requires medical treatment or results in restriction of work or motion for one or more days, one or more lost workdays, transfer to another job, termination of employment, or loss of consciousness. (d) Any occupational illness of a railroad employee, as diagnosed by a physician.

CLASSIFICATION OF CROSSINGS. A public rail-highway grade crossing is a location where one or more railroad tracks cross at grade a public highway, road, or street, including sidewalks and pathways at or associated with the crossing.

The type of signaling device for restricting use of a crossing by trains, highway vehicles, or pedestrians determines whether the crossing is "specially protected" or "not specially protected." "Specially protected" crossings are those protected by: Gates operated 24 hours per day or less; trainmen; watchmen on duty 24 hours per day or less; or devices that indicate the approach of trains. Crossings "not specially protected" are those that merely indicate the proximity of a crossing by fixed signs, and those without stationary signs or other cautionary fixtures.

CLASSIFICATION OF PERSONS. Persons using crossing as a continuation of a street, road, associated sidewalks, etc., other than employees, are divided into two classes, "trespassers" and "non-trespassers". A person, including an employee not on duty, is not reported as a trespasser on a highway grade crossing unless the crossing is protected by gates, or other similar barriers, which were closed when the person went on the crossing, or unless the person attempted to pass over or under trains or cars at the crossing.

There are instances in which persons on trains may be killed or injured. Such persons may be classified as passengers, employees on duty, employees not on duty, nontrespassers, or trespassers.

**CROSSING MEETING MINIMUM STANDARDS.** The Second Annual Report On Highway Safety Improvement Programs, (which is a report from the Secretary of Transportation to Congress), states that a program to sign and mark all crossings is a high priority under the Highway Safety Act of 1973. Further the report states that the National Rail-Highway Crossing inventory "...will allow the states to identify those crossings which are not signed and marked in accordance with the Manual On Uniform Traffic Control Devices (MUTCD)." The Federal Highway Administration has specified the following minimum standards for signing and marking to be in accordance with the MUTCD: An automatic warning device or two reflectorized crossbuck signs, advance warning signs, and pavement markings if the highway approach is paved. In this publication crossings having automatic warning devices are counted as meeting minimum standards.

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TABLE 1 RAIL-HIGHWAY ACCIDENTS/INCIDENTS OF ALL KINDS AND CASUALTIES  
1975

Trains striking or being struck by:	Total accidents		Total Killed		Total Injured	
	#	Pct.	#	Pct.	#	Pct.
Pedestrians	112	0.9	63	6.4	39	0.9
Automobiles	8,130	71.6	560	57.3	2,674	64.2
Buses	22	0.1	2	0.2	28	0.7
Trucks	2,693	23.7	203	20.8	866	20.8
Motorcycles	80	0.7	23	2.4	32	0.8
Miscellaneous	317	2.7	39	4.0	102	2.4
Unknown	---	0.0	88	9.0	427	10.2
Total.....	11,354	100.0	978	100.0	4,168	100.0

TABLE 2-A NATURE OF ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS  
INVOLVING MOTOR VEHICLES, SHOWING NUMBER OF ACCIDENTS, 1975

	Accidents		Killed		Injured	
	#	Pct.	#	Pct.	#	Pct.
Motor vehicle struck by train	7,736	70.8	611	77.5	2,413	67.0
Motor vehicle ran into train	3,189	29.1	177	22.4	1,187	32.9
Total.....	10,925	100.0	788	100.0	3,600	100.0

TABLE 2-B NATURE OF ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS,  
WHERE MOTOR VEHICLE WAS STRUCK BY TRAIN, 1975

Type of Vehicle	Daylight.....			Dark.....		
	Accidents	Killed	Injured	Accidents	Killed	Injured
Passenger automobiles	3,401	302	1,193	2,309	143	619
Motor buses	16	1	27	4	1	0
Motor trucks	1,522	127	450	463	34	119
Motorcycles	13	2	4	8	1	1
Total.....	4,952	432	1,674	2,784	179	739

TABLE 2-C NATURE OF ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS  
WHERE TRAIN WAS RUN INTO BY MOTOR VEHICLE, 1975

Type of Vehicle	Daylight.....			Dark.....		
	Accidents	Killed	Injured	Accidents	Killed	Injured
Passenger automobiles	1,072	50	332	1,348	65	530
Motor buses	1	0	1	1	0	0
Motor trucks	444	30	177	264	12	120
Motorcycles	32	12	14	27	8	13
Total.....	1,549	92	524	1,640	85	663

TABLE 3 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES THAT RAN INTO TRAINS, 1975

Circumstance	Consist		Part of train struck						Other	Daylight	Dark
	struck by hwy user	struck by hwy user	Loco(s)	First quarter	Second quarter	Third quarter	Fourth quarter				
Train(units pulling)	6,343	2,322	1,706	176	113	70	162	95	5,306	3,359	
Train (units pushing)	519	223	96	27	18	10	68	4	383	359	
Train (standing)	16	130	32	31	20	14	27	6	30	116	
Cars(moving)	116	120	24	28	23	11	26	8	111	125	
Cars (standing)	16	42	14	5	5	5	11	2	25	33	
Light Locos(moving)	588	242	216	2	0	1	13	10	458	372	
Light Locos(standing)	3	23	19	0	1	0	3	0	10	16	
Other	135	87	21	1	5	2	34	24	178	44	
Total	7,736	3,189	2,128	270	185	113	344	149	6,501	4,424	

TABLE 4 NATURE OF ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES AND PART OF 24-HOUR PERIOD, 1975

	Accidents		Struck by train		Ran into train	
	#	Pct.	Killed	Injured	Killed	Injured
Dawn	364	3.3	24	78	4	30
Day	6,137	56.1	408	1,596	88	494
Dusk	417	3.8	28	74	5	36
Dark	4,007	36.6	151	665	80	627
Total	10,925	100.0	611	2,413	177	1,187

TABLE 5 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO HOUR, 1975

Hour	Total Accidents	Struck by Train	Ran into Train
Midnight to 12:59 AM	398	229	169
1 to 1:59 AM	349	180	169
2 to 2:59 AM	282	139	143
3 to 3:59 AM	206	109	97
4 to 4:59 AM	122	76	46
5 to 5:59 AM	186	122	64
6 to 6:59 AM	325	217	108
7 to 7:59 AM	449	341	108
8 to 8:59 AM	469	359	110
9 to 9:59 AM	518	374	144
10 to 10:59 AM	567	444	123
11 to 11:59 AM	541	409	132
12 Noon to 12:59 PM	524	393	131
1 to 1:59 PM	598	462	136
2 to 2:59 PM	557	426	131
3 to 3:59 PM	617	481	136
4 to 4:59 PM	680	532	148
5 to 5:59 PM	595	471	124
6 to 6:59 PM	545	383	162
7 to 7:59 PM	544	385	159
8 to 8:59 PM	468	316	152
9 to 9:59 PM	480	309	171
10 to 10:59 PM	461	298	163
11 to 11:59 PM	444	281	163
TOTAL	10,925	7,736	3,189

TABLE 6 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY DAY OF WEEK, 1975

	Total Accidents	Struck by Train	Ran into Train
SUNDAY	1,480	1,035	445
MONDAY	898	630	268
TUESDAY	1,568	1,154	414
WEDNESDAY	1,569	1,102	467
THURSDAY	1,747	1,222	525
FRIDAY	1,729	1,250	479
SATURDAY	1,934	1,343	591
TOTAL	10,925	7,736	3,189

TABLE 7 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY MONTH, 1975

Month	Total Accidents	Struck by Train	Ran into Train
January	1,143	774	369
February	999	717	282
March	919	665	254
April	751	525	226
May	732	524	208
June	726	508	218
July	707	520	187
August	816	575	241
September	842	611	231
October	1,034	735	299
November	1,090	768	322
December	1,166	814	352
Total	10,925	7,736	3,189

TABLE 8 TYPES OF MOTOR VEHICLES INVOLVED IN ACCIDENTS/INCIDENTS  
AT RAIL-HIGHWAY CROSSINGS, 1975

Type of Vehicle	Number of Accidents	Vehicles Registered (000)*	Accidents per million Vehicles	Number occurring in	
				Daylight	Dark
Passenger automobiles	8,130	106,713	76.1	4,473	3,657
Motor buses	22	462	47.6	17	5
Motor trucks	2,693	25,776	104.4	1,966	727
Motorcycles	80	4,967	16.1	45	35
TOTAL	10,925	137,918	79.2	6,501	4,424

\*NOTE: Estimated figures supplied by Federal Highway Administration

TABLE 9 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES BY KIND OF TRAIN INVOLVED, 1975

	Accidents	Train miles (000)	Accidents per mill. miles
Freight	7,548	402,867	18.73
Passenger	474	64,540	7.34
Work	320	4,783	66.90
Yard switching	2,583	194,496	13.28
TOTAL	10,925	666,686	16.38

TABLE 10 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES BY TYPE OF CROSSING PROTECTION, 1975

Crossing Protection	Killed	Injured	Accidents	Number Of		Devices Operating		Not reported	Struck by train		Ran into train	
				Of Crossings	Crossings	Yes	No		Daylight	Dark	Daylight	Dark
Gates	55	197	880	11,992	836	29	15	318	367	69	126	
Flashing lights	222	1,129	3,342	33,985	3,236	67	39	1,512	854	495	481	
Hwy Sgnl WW Bells	31	156	625	3,392	500	40	85	275	167	86	97	
Crossbucks	453	1,988	5,416	141,478	---	---	---	2,514	1,241	825	836	
Stop signs	19	80	264	3,525	---	---	---	140	49	35	40	
Other passive	7	28	169	9,495	---	---	---	65	46	21	37	
None	1	22	229	15,294	---	---	---	128	60	18	23	
Total	786	3,600	10,925	219,161	4,572	136	139	4,952	2,784	1,549	1,640	

NOTE: HWY SGNL - Highway traffic signals  
WW - Wigwags

TABLE 11 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO LOCATION OF CROSSING PROTECTION, 1975

Crossing protection	Number of Accidents	Occurring		Struck by train		Ran into train	
		Daylight	Dark	Daylight	Dark	Daylight	Dark
Automatic, both sides	4,582	2,595	1,987	1,979	1,313	616	674
Automatic, side of approach	196	115	81	86	60	29	21
Automatic, opposite side	45	29	16	27	8	2	8
Automatic, side not reported	24	16	8	13	7	3	1
Manual, both sides	24	12	12	7	6	5	6
Manual, side of approach	32	12	20	8	9	4	11
Manual, opposite side	6	2	4	1	---	1	4
Manual, side not reported	30	15	15	12	9	3	6
Other, both sides	4,870	2,952	1,918	2,192	1,123	760	795
Other, side of approach	550	374	176	306	123	68	53
Other, opposite side	280	197	83	163	50	34	33
Other, side not reported	57	36	21	30	16	6	5
None	226	145	81	127	59	18	22
Not reported	3	1	2	1	1	---	1
Total	10,925	6,501	4,424	4,952	2,784	1,549	1,640

TABLE 12 CROSSING ACCIDENTS/INCIDENTS AFTER DARK INVOLVING MOTOR VEHICLES ACCORDING TO ILLUMINATION OF CROSSING, 1975

Crossing Illumination	Number of Accidents	Struck by Train	Ran into Train	Persons	
				Killed	Injured
Lighted	1,641	1,065	576	77	510
Not-lighted	1,702	1,054	648	132	592
Not reported	1,081	665	416	55	300
Total	4,424	2,784	1,640	264	1,402

TABLE 13 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO SPEED AND TYPE OF TRAIN INVOLVED, 1975

Train Speed (MPH)	Total	Struck By Train		Ran Into Train		Freight		Passenger		Yard(Switching) And Other	
		Daylight	Dark	Daylight	Dark	#	PCT.	#	PCT.	#	PCT.
0-9	3,887	1,454	960	525	948	1,707	22.6	44	10.3	2,136	72.3
10-19	2,221	994	573	319	335	1,619	21.4	43	10.1	559	18.9
20-29	1,919	963	466	307	183	1,690	22.3	70	16.4	159	5.3
30-39	1,365	670	372	216	107	1,253	16.6	48	11.2	64	2.1
40-49	960	549	243	124	44	880	11.6	58	13.6	22	0.7
50-59	391	220	112	44	15	329	4.3	52	12.2	10	0.3
60-69	109	60	40	4	5	62	0.8	47	11.0	---	0.0
70-79	61	32	17	9	3	8	0.1	52	12.2	1	0.0
80-89	4	4	---	---	---	---	0.0	4	0.9	---	0.0
90 and over	8	6	1	1	---	---	0.0	7	1.6	1	0.0
TOTAL	10,925	4,952	2,784	1,549	1,640	7,548	100.0	425	100.0	2,952	100.0

TABLE 14 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO WEATHER CONDITIONS, 1975

Weather	Total Accidents		Struck By Train		Ran into Train	
	#	PCT.	Daylight	Dark	Daylight	Dark
Clear	6,884	63.0	3,331	1,604	959	990
Cloudy	2,419	22.1	1,075	648	342	354
Rain	1,014	9.2	359	337	155	163
Fog	207	1.8	55	65	36	51
Sleet	26	0.2	10	9	1	6
Snow	375	3.4	122	121	56	76
Not Reported	---	0.0	---	---	---	---
Total	10,925	100.0	4,952	2,784	1,549	1,640

TABLE 15 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO NUMBER OF CARS IN TRAIN AND KIND OF TRAIN, 1975

Number of cars in train	Freight		Passenger		Yard(Switching) and others		Total		Number occurring in	
	#	PCT.	#	PCT.	#	PCT.	#	PCT.	Daylight	Dark
None	211	2.7	41	9.6	1,031	34.9	1,283	11.7	767	516
1-9	1,530	20.2	263	61.6	1,162	39.3	2,955	27.0	1,926	1,029
10-19	847	11.2	104	24.6	409	13.8	1,360	12.4	865	495
20-29	575	7.6	4	0.9	145	4.9	724	6.6	429	299
30-39	511	6.7	5	1.1	64	2.1	580	5.3	325	255
40-49	417	5.5	5	1.1	50	1.6	472	4.3	274	198
50-59	425	5.6	3	0.7	32	1.0	460	4.2	246	214
60-69	472	6.2	---	0.0	13	0.4	485	4.4	245	240
70-79	492	6.5	---	0.0	15	0.5	507	4.6	281	226
80-89	481	6.3	---	0.0	10	0.3	491	4.4	273	218
90-99	485	6.4	---	0.0	4	0.1	489	4.4	262	227
100-109	370	4.9	---	0.0	6	0.2	376	3.4	193	183
110-119	273	3.6	---	0.0	2	0.0	275	2.5	168	107
120-129	163	2.1	---	0.0	3	0.1	166	1.5	94	72
130-139	113	1.4	---	0.0	4	0.1	117	1.0	63	54
140-149	84	1.1	---	0.0	1	0.0	85	0.7	43	42
150 and over	98	1.2	---	0.0	1	0.0	99	0.9	51	48
Not reported or unknown	1	0.0	---	0.0	---	0.0	1	0.0	---	1
Total	7,548	100.0	425	100.0	2,952	100.0	10,925	100.0	6,501	4,424

TABLE 16 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES ACCORDING TO SPEED OF MOTOR VEHICLE, 1975

Speed of Vehicle	Total Accidents		Struck by Train			Ran into Train				
	#	Pct.	Daylight	Dark	Dark	Daylight	Dark	Dark		
			#	Kld.	Inj.	#	Kld.	Inj.		
Standing	4,038	37.0	199	965	2,049	109	536	1,253	48	184
1-9	1,880	17.2	79	477	901	58	291	440	19	105
10-19	2,028	18.6	145	685	917	97	332	482	32	181
20-29	1,369	12.5	120	595	571	73	255	331	28	160
30-39	848	7.8	77	423	313	38	140	165	24	59
40-49	422	3.9	66	284	117	28	87	55	8	19
50-59	257	2.4	70	139	73	31	29	41	12	27
60 and over	81	0.7	32	31	11	2	4	17	8	4
Not reported	2	0.0	---	1	---	---	---	---	---	---
Total	10,925	100.0	788	3,600	4,952	432	1,674	2,784	179	739

TABLE 17-A RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES BY STATE, 1975

State	Accidents		Killed		Injured	
	#	Pct.	#	Pct.	#	Pct.
Alabama	369	3.3	24	3.0	128	3.5
Alaska	15	0.1	1	0.1	4	0.1
Arizona	57	0.5	5	0.6	26	0.7
Arkansas	193	1.7	24	3.0	94	2.6
California	619	5.6	51	6.4	134	3.7
Colorado	106	0.9	8	1.0	27	0.7
Connecticut	16	0.1	---	0.0	---	0.0
Delaware	17	0.1	1	0.1	6	0.1
District of Columbia	2	0.0	---	0.0	---	0.0
Florida	415	3.7	62	7.8	189	5.2
Georgia	344	3.1	23	2.9	130	3.6
Hawaii	---	0.0	---	0.0	---	0.0
Idaho	100	0.9	22	2.7	20	0.5
Illinois	761	6.9	71	9.0	290	8.0
Indiana	608	5.5	56	7.1	194	5.3
Iowa	312	2.8	19	2.4	81	2.2
Kansas	249	2.2	17	2.1	95	2.6
Kentucky	245	2.2	14	1.7	70	1.9
Louisiana	325	2.9	16	2.0	153	4.2
Maine	40	0.3	3	0.3	6	0.1
Maryland	61	0.5	2	0.2	20	0.5
Massachusetts	58	0.5	2	0.2	18	0.5
Michigan	454	4.1	15	1.9	130	3.6
Minnesota	276	2.5	16	2.0	48	1.3
Mississippi	259	2.3	18	2.2	111	3.0
Missouri	248	2.2	11	1.3	96	2.6
Montana	62	0.5	7	0.8	20	0.5
Nebraska	165	1.5	18	2.2	45	1.2
Nevada	17	0.1	---	0.0	---	0.0
New Hampshire	16	0.1	---	0.0	2	0.0
New Jersey	92	0.8	5	0.6	21	0.5
New Mexico	31	0.2	---	0.0	18	0.5
New York	154	1.4	11	1.3	38	1.0
North Carolina	274	2.5	21	2.6	125	3.4
North Dakota	75	0.6	5	0.6	23	0.6
Ohio	693	6.3	43	5.4	234	6.5
Oklahoma	235	2.1	19	2.4	89	2.4
Oregon	173	1.5	3	0.3	52	1.4
Pennsylvania	263	2.4	7	0.8	58	1.6
Rhode Island	6	0.0	1	0.1	3	0.0
South Carolina	182	1.6	14	1.7	80	2.2
South Dakota	57	0.5	3	0.3	9	0.2
Tennessee	253	2.3	21	2.6	84	2.3
Texas	1,077	9.8	80	10.1	367	10.1
Utah	79	0.7	4	0.5	15	0.4
Vermont	20	0.1	1	0.1	4	0.1
Virginia	125	1.1	5	0.6	53	1.4
Washington	217	1.9	13	1.6	59	1.6
West Virginia	136	1.2	8	1.0	34	0.9
Wisconsin	351	3.2	15	1.9	88	2.4
Wyoming	23	0.2	3	0.3	9	0.2
Unknown	---	0.0	---	0.0	---	0.0
Total.....	10,925	100.0	788	100.0	3,600	100.0

TABLE 17-B NATURE OF ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS INVOLVING MOTOR VEHICLES BY STATE, 1975

State	Daylight			Dark		
	Accidents	Killed	Injured	Accidents	Killed	Injured
Alabama	246	16	83	123	8	45
Alaska	7	1	1	8	---	3
Arizona	38	4	13	19	1	13
Arkansas	138	19	71	55	5	23
California	338	23	71	281	28	63
Colorado	70	6	18	36	2	9
Connecticut	7	---	---	9	---	---
Delaware	7	---	2	10	1	4
District of Columbia	2	---	---	---	---	---
Florida	319	51	152	96	11	37
Georgia	214	15	86	130	8	44
Hawaii	---	---	---	---	---	---
Idaho	56	13	14	44	9	6
Illinois	387	41	183	374	30	107
Indiana	320	37	102	288	19	92
Iowa	164	9	33	148	10	48
Kansas	145	16	47	104	1	48
Kentucky	158	12	43	87	2	27
Louisiana	207	13	100	118	3	53
Maine	30	3	3	10	---	3
Maryland	28	1	9	33	1	11
Massachusetts	36	1	8	22	1	10
Michigan	237	7	71	217	8	59
Minnesota	161	10	19	115	6	29
Mississippi	175	14	84	84	4	27
Missouri	155	9	66	93	2	30
Montana	38	5	4	24	2	16
Nebraska	108	14	36	57	4	9
Nevada	10	---	---	7	---	---
New Hampshire	15	---	2	1	---	---
New Jersey	42	1	5	50	4	16
New Mexico	10	---	5	21	---	13
New York	90	9	29	64	2	9
North Carolina	184	17	88	90	4	37
North Dakota	44	5	17	31	---	6
Ohio	351	30	113	342	13	121
Oklahoma	145	12	56	90	7	33
Oregon	104	2	27	69	1	25
Pennsylvania	133	3	27	130	4	31
Rhode Island	3	1	---	3	---	3
South Carolina	129	9	52	53	5	28
South Dakota	38	2	4	19	1	5
Tennessee	171	12	68	82	9	16
Texas	702	48	235	375	32	132
Utah	55	3	10	24	1	5
Vermont	13	1	---	7	---	4
Virginia	75	5	31	50	---	22
Washington	111	7	34	106	6	25
West Virginia	77	8	24	59	---	10
Wisconsin	195	6	46	156	9	42
Wyoming	13	3	6	10	---	3
Unknown	---	---	---	---	---	---
Total.....	6,501	524	2,198	4,424	264	1,402



TABLE 18 RAIL-HIGHWAY ACCIDENTS/INCIDENTS BY STATE AND TYPE OF MOTOR VEHICLE INVOLVED, 1975

State	Total			Automobiles			Buses			Motortrucks			Motorcycles		
	#	Kld	Inj	#	Kld	Inj	#	Kld	Inj	#	Kld	Inj	#	Kld	Inj
Alabama	369	24	128	287	17	109	---	---	---	78	7	18	4	---	1
Alaska	15	1	4	7	1	3	---	---	---	8	---	1	---	---	---
Arizona	57	5	26	40	2	19	---	---	---	17	3	7	---	---	---
Arkansas	193	24	94	127	15	44	1	---	5	62	9	43	3	---	2
California	619	51	134	475	41	102	---	---	---	137	8	30	7	2	2
Colorado	106	8	27	81	6	18	1	---	1	23	2	7	1	---	1
Connecticut	16	---	---	12	---	---	---	---	---	4	---	---	---	---	---
Delaware	17	1	6	14	1	6	---	---	---	3	---	---	---	---	---
District of Columbia	2	---	---	2	---	---	---	---	---	---	---	---	---	---	---
Florida	415	62	189	303	45	137	1	---	1	104	16	46	7	1	5
Georgia	344	23	130	234	18	92	1	---	---	108	5	36	1	---	2
Hawaii	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Idaho	100	22	20	56	13	11	1	---	---	41	8	8	2	1	1
Illinois	761	71	290	605	59	195	---	---	---	152	11	93	4	1	2
Indiana	608	56	194	478	39	150	3	2	1	121	12	42	6	3	1
Iowa	312	19	81	249	13	65	1	---	---	57	4	13	5	2	3
Kansas	249	17	95	170	7	70	---	---	---	76	9	25	3	1	---
Kentucky	245	14	70	166	8	53	1	---	---	75	5	16	3	1	1
Louisiana	325	16	153	236	12	115	1	---	4	86	4	32	2	---	2
Maine	40	3	6	23	2	5	---	---	---	17	1	1	---	---	---
Maryland	61	2	20	39	1	18	---	---	---	22	1	2	---	---	---
Massachusetts	58	2	18	46	1	16	---	---	---	12	1	2	---	---	---
Michigan	454	15	130	368	14	110	1	---	3	83	1	17	2	---	---
Minnesota	276	16	48	211	12	33	1	---	1	63	3	14	1	1	---
Mississippi	259	18	111	190	13	84	---	---	---	68	4	27	1	1	---
Missouri	248	11	96	179	8	65	---	---	---	69	3	31	---	---	---
Montana	62	7	20	34	2	15	---	---	---	27	4	5	1	1	---
Nebraska	165	18	45	110	7	31	---	---	---	54	11	14	1	---	---
Nevada	17	---	---	14	---	---	---	---	---	3	---	---	---	---	---
New Hampshire	16	---	2	8	---	1	---	---	---	8	---	1	---	---	---
New Jersey	92	5	21	75	4	17	---	---	---	17	1	4	---	---	---
New Mexico	31	---	18	19	---	12	---	---	---	12	---	6	---	---	---
New York	154	11	38	124	11	26	---	---	---	30	---	12	---	---	---
North Carolina	274	21	125	209	17	96	1	---	---	61	3	28	3	1	1
North Dakota	75	5	23	58	3	19	---	---	---	17	2	4	---	---	---
Ohio	693	43	234	565	35	189	1	---	---	121	7	44	6	1	1
Oklahoma	235	19	89	163	7	59	1	---	---	68	10	28	3	2	2
Oregon	173	3	52	106	---	42	1	---	---	66	3	10	---	---	---
Pennsylvania	263	7	58	202	2	37	---	---	---	56	4	20	5	1	1
Rhode Island	6	1	3	6	1	3	---	---	---	---	---	---	---	---	---
South Carolina	182	14	80	138	11	62	---	---	---	42	2	17	2	1	1
South Dakota	57	3	9	39	2	5	---	---	---	20	1	4	---	---	---
Tennessee	253	21	84	191	15	55	1	---	11	61	6	18	---	---	---
Texas	1,077	80	367	782	62	285	1	---	---	289	18	79	5	---	3
Utah	79	4	15	52	2	7	---	---	---	27	2	8	---	---	---
Vermont	20	1	4	13	---	4	---	---	---	7	1	---	---	---	---
Virginia	125	5	53	95	5	44	---	---	---	30	---	9	---	---	---
Washington	217	13	59	142	10	50	1	---	---	72	1	9	2	2	---
West Virginia	136	8	34	94	3	18	---	---	---	42	5	16	---	---	---
Wisconsin	351	15	88	281	13	73	2	---	1	68	2	14	---	---	---
Wyoming	23	3	9	14	---	4	---	---	---	9	3	5	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	10,925	788	3,600	8,130	560	2,674	22	2	28	2,693	203	866	80	23	32

TABLE 19 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY STATE AND MONTH, 1975

State	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
Alabama	46	31	25	19	28	36	24	30	21	37	38	34	369
Alaska	2	1	1	1	---	1	---	1	1	2	5	---	15
Arizona	3	4	5	2	5	10	5	6	2	5	5	5	57
Arkansas	18	21	18	9	13	17	9	15	16	17	16	24	198
California	56	41	51	51	41	50	42	59	53	50	56	69	619
Colorado	9	10	8	6	8	3	6	6	6	15	13	16	106
Connecticut	1	1	1	1	---	2	2	2	1	---	2	3	16
Delaware	1	4	1	1	1	2	1	1	2	1	1	1	17
District of Columbia	---	1	---	---	---	---	---	---	---	---	1	---	2
Florida	35	55	29	32	28	21	39	36	29	45	32	34	415
Georgia	35	22	41	23	25	25	28	34	29	24	25	33	344
Hawaii	---	---	---	---	---	---	---	---	---	---	---	---	---
Idaho	8	14	10	9	6	4	5	5	10	12	6	11	100
Illinois	89	71	52	60	54	47	38	61	54	85	83	67	761
Indiana	58	51	48	44	47	38	42	52	52	62	61	53	608
Iowa	44	27	37	16	19	18	17	15	15	29	40	35	312
Kansas	35	12	22	18	17	13	18	21	19	22	29	23	249
Kentucky	28	16	23	21	19	14	13	16	19	30	18	28	245
Louisiana	29	27	32	21	23	19	28	35	19	27	26	39	325
Maine	14	3	5	---	4	2	---	2	3	1	1	5	40
Maryland	13	5	2	1	2	5	5	8	3	8	2	7	61
Massachusetts	9	5	6	1	1	5	4	2	3	6	7	9	58
Michigan	44	44	38	35	14	25	22	22	44	42	55	69	454
Minnesota	39	38	30	18	10	12	9	21	27	21	25	26	276
Mississippi	30	21	18	17	15	17	16	20	19	32	31	23	259
Missouri	26	16	33	14	18	12	17	20	16	22	32	22	248
Montana	1	8	3	9	1	5	2	3	5	6	8	11	62
Nebraska	20	16	6	13	12	10	11	9	19	16	22	11	165
Nevada	2	2	2	1	2	1	2	1	1	3	---	---	17
New Hampshire	1	4	1	1	---	---	1	1	1	1	2	3	16
New Jersey	10	12	5	8	5	4	5	7	9	12	5	10	92
New Mexico	3	4	5	2	2	---	2	1	6	---	3	3	31
New York	19	8	12	13	8	10	8	10	9	18	13	26	154
North Carolina	22	29	19	16	27	13	27	20	22	22	29	28	274
North Dakota	11	7	2	6	2	3	1	5	9	6	11	12	75
Ohio	74	58	53	45	53	43	39	52	62	66	62	86	693
Oklahoma	16	29	16	11	11	16	20	16	24	20	26	30	235
Oregon	10	14	13	13	9	12	13	12	12	26	17	22	173
Pennsylvania	40	25	23	14	20	12	13	18	18	19	19	42	263
Rhode Island	---	2	1	1	---	---	1	---	---	---	---	1	6
South Carolina	18	19	14	11	15	13	11	14	14	22	22	9	182
South Dakota	8	3	5	2	2	2	7	5	4	2	10	7	57
Tennessee	23	26	28	26	16	20	14	16	19	21	26	18	253
Texas	92	89	83	83	73	95	86	90	86	88	110	102	1077
Utah	6	6	6	4	8	6	4	2	6	10	10	11	79
Vermont	1	6	3	1	---	1	1	---	3	1	2	1	20
Virginia	14	9	12	11	4	14	11	7	6	9	15	13	125
Washington	26	25	17	12	19	20	11	11	6	27	20	23	217
West Virginia	14	12	14	8	10	8	9	9	11	9	16	16	136
Wisconsin	38	39	40	19	32	20	17	16	23	34	30	43	351
Wyoming	2	6	---	1	3	---	1	1	4	1	2	2	23
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	1143	999	919	751	732	726	707	816	842	1034	1090	1166	10925

TABLE 20-A CASUALTIES IN ALL TYPES OF RAIL-HIGHWAY ACCIDENTS/INCIDENTS  
BY STATE, 1975

State	Accidents	Killed		Injured		Total Casualties	
		#	Pct.	#	Pct.	#	Pct.
Alabama	375	29	3.0	140	3.4	169	3.3
Alaska	17	1	0.1	3	0.1	4	0.1
Arizona	63	7	0.7	28	0.7	35	0.7
Arkansas	199	29	3.0	115	2.8	144	2.6
California	661	72	7.4	184	4.4	256	5.0
Colorado	112	14	1.4	42	1.0	56	1.1
Connecticut	16	---	0.0	---	0.0	---	0.0
Delaware	17	1	0.1	4	0.1	5	0.1
District of Columbia	2	---	0.0	---	0.0	---	0.0
Florida	424	67	6.9	216	5.2	283	5.5
Georgia	350	23	2.4	134	3.2	157	3.1
Hawaii	---	---	0.0	---	0.0	---	0.0
Idaho	103	20	2.0	27	0.6	47	0.9
Illinois	809	102	10.4	341	8.2	443	8.6
Indiana	626	61	6.2	222	5.3	283	5.5
Iowa	327	17	1.7	93	2.2	110	2.1
Kansas	262	21	2.1	104	2.5	125	2.4
Kentucky	253	16	1.6	78	1.9	94	1.8
Louisiana	337	23	2.4	166	4.0	189	3.7
Maine	42	3	0.3	7	0.2	10	0.2
Maryland	63	3	0.3	21	0.5	24	0.5
Massachusetts	59	2	0.2	19	0.5	21	0.4
Michigan	472	19	1.9	140	3.4	159	3.1
Minnesota	293	22	2.2	76	1.8	98	1.9
Mississippi	268	19	1.9	126	3.0	145	2.8
Missouri	255	14	1.4	103	2.5	117	2.3
Montana	67	8	0.8	27	0.6	35	0.7
Nebraska	170	19	1.9	60	1.4	79	1.5
Nevada	17	---	0.0	---	0.0	---	0.0
New Hampshire	16	---	0.0	2	0.0	2	0.0
New Jersey	94	5	0.5	25	0.6	30	0.6
New Mexico	31	---	0.0	24	0.6	24	0.5
New York	165	21	2.1	53	1.3	74	1.4
North Carolina	281	28	3.0	135	3.2	163	3.2
North Dakota	78	5	0.5	25	0.6	30	0.6
Ohio	712	54	5.5	261	6.3	315	6.1
Oklahoma	246	21	2.1	118	2.8	139	2.7
Oregon	187	6	0.6	64	1.5	70	1.4
Pennsylvania	268	9	0.9	65	1.6	74	1.4
Rhode Island	6	1	0.1	3	0.1	4	0.1
South Carolina	191	17	1.7	87	2.1	104	2.0
South Dakota	62	4	0.4	11	0.3	15	0.3
Tennessee	260	24	2.5	90	2.2	114	2.2
Texas	1,115	97	9.9	428	10.3	525	10.2
Utah	81	9	0.9	16	0.4	25	0.5
Vermont	20	1	0.1	4	0.1	5	0.1
Virginia	128	8	0.8	66	1.6	74	1.4
Washington	228	15	1.5	68	1.6	83	1.6
West Virginia	140	12	1.2	42	1.0	54	1.0
Wisconsin	362	25	2.6	96	2.3	121	2.4
Wyoming	24	4	0.4	9	0.2	13	0.2
Unknown	---	---	0.0	---	0.0	---	0.0
Total.....	11,354	978	100.0	4,168	100.0	5,146	100.0

TABLE 20-B CASUALTIES IN RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY STATE AND NUMBER OF AUTOMOBILES REGISTERED, 1975

State	Total Accidents		Killed		Injured		Total		Vehicles Registered (000)*	Casualties per 10,000 Registrations		
	#	Pct.	#	Pct.	#	Pct.	#	Pct.		Killed	Injured	Total
Alabama	369		24	3.0	128	3.5	152	3.4	2,493	0.09	0.51	0.61
Alaska	15		1	0.1	4	0.1	5	0.1	226	0.04	0.18	0.22
Arizona	57		5	0.6	26	0.7	31	0.7	1,459	0.03	0.18	0.21
Arkansas	193		24	3.0	94	2.6	118	2.6	1,283	0.18	0.73	0.92
California	619		51	6.4	134	3.7	185	4.2	13,891	0.03	0.09	0.12
Colorado	106		8	1.0	27	0.7	35	0.7	1,925	0.04	0.14	0.18
Connecticut	16		---	0.0	---	0.0	---	0.0	1,949	0.00	0.00	0.00
Delaware	17		1	0.1	6	0.1	7	0.1	351	0.02	0.17	0.19
District of Columbia	2		---	0.0	---	0.0	---	0.0	255	0.00	0.00	0.00
Florida	415		62	7.8	189	5.2	251	5.7	5,395	0.11	0.35	0.46
Georgia	344		23	2.9	130	3.6	153	3.4	3,211	0.04	0.40	0.47
Hawaii	---		---	0.0	---	0.0	---	0.0	462	0.00	0.00	0.00
Idaho	100		22	2.7	20	0.5	42	0.9	647	0.34	0.31	0.65
Illinois	761		71	9.0	290	8.0	361	8.2	6,344	0.11	0.45	0.56
Indiana	608		56	7.1	194	5.3	250	5.6	3,315	0.17	0.59	0.76
Iowa	312		19	2.4	81	2.2	100	2.2	2,099	0.09	0.38	0.47
Kansas	249		17	2.1	95	2.6	112	2.5	1,805	0.09	0.53	0.62
Kentucky	245		14	1.7	70	1.9	84	1.9	2,245	0.06	0.31	0.37
Louisiana	325		16	2.0	153	4.2	169	3.8	2,188	0.07	0.69	0.76
Maine	40		3	0.3	6	0.1	9	0.2	648	0.05	0.09	0.14
Maryland	61		2	0.2	20	0.5	22	0.5	2,423	0.01	0.07	0.08
Massachusetts	58		2	0.2	18	0.5	20	0.4	3,107	0.01	0.05	0.06
Michigan	454		15	1.9	130	3.6	145	3.3	5,545	0.03	0.23	0.26
Minnesota	276		16	2.0	48	1.3	64	1.4	2,525	0.06	0.19	0.25
Mississippi	259		18	2.2	111	3.0	129	2.9	1,377	0.13	0.80	0.93
Missouri	248		11	1.3	96	2.6	107	2.4	2,866	0.04	0.33	0.37
Montana	62		7	0.8	20	0.5	27	0.6	602	0.12	0.33	0.45
Nebraska	165		18	2.2	45	1.2	63	1.4	1,178	0.15	0.38	0.53
Nevada	17		---	0.0	---	0.0	---	0.0	464	0.00	0.00	0.00
New Hampshire	16		---	0.0	2	0.0	2	0.0	485	0.00	0.04	0.04
New Jersey	92		5	0.6	21	0.5	26	0.5	4,155	0.01	0.05	0.06
New Mexico	31		---	0.0	18	0.5	18	0.4	827	0.00	0.22	0.22
New York	154		11	1.3	38	1.0	49	1.1	7,591	0.01	0.05	0.06
North Carolina	274		21	2.6	125	3.4	146	3.3	3,690	0.06	0.34	0.40
North Dakota	75		5	0.6	23	0.6	28	0.6	551	0.09	0.42	0.51
Ohio	693		43	5.4	234	6.5	277	6.3	7,179	0.06	0.33	0.39
Oklahoma	235		19	2.4	89	2.4	108	2.4	2,113	0.09	0.42	0.51
Oregon	173		3	0.3	52	1.4	55	1.2	1,628	0.02	0.32	0.34
Pennsylvania	263		7	0.8	58	1.6	65	1.4	7,659	0.01	0.08	0.09
Rhode Island	6		1	0.1	3	0.0	4	0.0	563	0.02	0.05	0.07
South Carolina	182		14	1.7	80	2.2	94	2.1	1,772	0.08	0.45	0.53
South Dakota	57		3	0.3	9	0.2	12	0.2	521	0.06	0.17	0.23
Tennessee	253		21	2.6	84	2.3	105	2.3	2,726	0.08	0.31	0.39
Texas	1,077		80	10.1	367	10.1	447	10.1	8,396	0.10	0.44	0.54
Utah	79		4	0.5	15	0.4	19	0.4	845	0.05	0.18	0.23
Vermont	20		1	0.1	4	0.1	5	0.1	287	0.03	0.14	0.17
Virginia	125		5	0.6	53	1.4	58	1.3	3,251	0.02	0.16	0.18
Washington	217		13	1.6	59	1.6	72	1.6	2,540	0.05	0.23	0.28
West Virginia	136		8	1.0	34	0.9	42	0.9	966	0.08	0.35	0.43
Wisconsin	351		15	1.9	88	2.4	103	2.3	2,591	0.06	0.34	0.40
Wyoming	23		3	0.3	9	0.2	12	0.2	337	0.09	0.26	0.35
Unknown	---		---	0.0	---	0.0	---	0.0	---	0.00	0.00	0.00
Total.....	10,925		788	100.0	3,600	100.0	4,388	100.0	132,951	0.06	0.27	0.33

\*NOTE: Figures include passenger automobiles, trucks and buses and are estimates supplied by the Federal Highway Administration.

TABLE 21 CASUALTIES IN ACCIDENTS/INCIDENTS AT RAIL-HIGHWAY CROSSINGS  
BY CAUSE OF ACCIDENT, 1975

Cause	Accidents with Casualties	Total Persons		Employees on duty				Employees not on duty		Passengers		Non- trespassers		Trespassers	
		Killed	Injured	Total	Trainmen	Others	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	
PUBLIC CROSSINGS															
TRAIN ACCIDENTS															
Pedestrian struck by train.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motor vehicle struck by train.....	104	45	143	3	35	3	32	---	3	---	1	37	42	64	7
Other vehicle, machine, or animal struck by train.....	3	1	2	---	1	---	1	---	---	---	---	---	1	1	---
Pedestrian ran into train, pass over, through, or under cars.....	32	14	71	---	9	---	6	---	3	---	---	34	12	25	3
Motor vehicle ran into train.....	6	1	7	---	3	---	---	---	3	---	---	---	1	1	---
Other accident/incident at public rail-highway crossings.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	145	62	223	3	48	3	35	---	9	---	1	72	57	93	10
TRAIN INCIDENTS															
Pedestrian struck by train.....	109	59	80	---	---	---	---	---	---	---	---	2	34	17	35
Motor vehicle struck by train.....	2,385	651	2,607	1	35	---	31	1	4	---	---	20	606	2,470	43
Other vehicle, machine, or animal struck by train.....	28	10	19	---	2	---	1	---	1	---	---	---	9	16	1
Pedestrian ran into train, pass over, through, or under cars.....	13	3	10	---	---	---	---	---	---	---	---	---	---	2	3
Motor vehicle ran into train.....	798	130	914	---	6	---	4	---	2	---	---	---	124	864	6
Other accident/incident at public rail-highway crossings.....	33	7	32	1	12	---	6	1	6	---	---	---	4	18	2
Total.....	3,366	870	3,622	2	55	---	42	2	13	---	---	22	777	3,387	91
NON TRAIN															
Pedestrian struck by train.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motor vehicle struck by train.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Other vehicle, machine, or animal struck by train.....	9	1	8	---	---	---	1	---	---	---	---	---	---	2	1
Pedestrian ran into train, pass over, through, or under cars.....	204	41	232	---	2	---	7	---	1	---	---	---	40	223	1
Motor vehicle ran into train.....	15	4	84	---	12	---	7	---	5	---	---	---	3	69	7
Other accident/incident at public rail-highway crossings.....	258	46	323	---	14	---	8	---	6	---	---	---	2	43	294
Total.....	3,769	978	4,168	5	117	3	89	2	28	---	1	96	877	3,774	95
TOTAL, PUBLIC CROSSINGS															
TRAIN ACCIDENTS.....	3	---	6	---	1	---	4	---	---	---	---	---	---	2	---
TRAIN INCIDENTS.....	25	4	22	---	4	---	1	---	3	---	---	---	4	17	1
NONTRAIN INCIDENTS.....	9	---	9	---	1	---	---	---	1	---	---	---	---	6	---
TOTAL, PRIVATE CROSSINGS.....	37	4	37	---	9	---	5	---	4	---	---	---	4	25	2
GRAND TOTAL.....	3,806	982	4,205	5	126	3	94	2	32	---	1	1	96	3,799	95

TABLE 22 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY KIND OF CROSSING PROTECTION IN 1975

Railroad	Gates	Flashing Lights	Hwy Signals Wigwags Bells	Cross- bucks	Stop Signs	Other Passive	None	Total
Class I RR (Line-Haul)								
Eastern District								
AKRON, CANTON AND YOUNGSTOWN RAILROAD	---	3	---	2	---	---	---	5
ANN ARBOR RAILROAD	---	3	---	8	---	---	---	11
BALTIMORE AND OHIO RAILROAD	11	106	18	178	6	6	2	327
BANGOR AND AROOSTOOK RAILROAD	---	3	---	2	---	---	---	5
BESSEMER AND LAKE ERIE RAILROAD	2	1	---	4	---	---	---	7
BOSTON AND MAINE CORPORATION	7	11	2	1	2	4	1	34
CANADIAN PACIFIC RAILWAY COMPANY	---	---	1	1	---	---	---	2
CENTRAL RAILROAD COMPANY OF NEW JERSEY	1	7	1	15	---	2	---	26
CENTRAL VERMONT	---	2	---	6	---	---	---	8
CHESAPEAKE AND OHIO RAILWAY COMPANY	23	122	4	125	1	1	4	280
CHICAGO AND EASTERN ILLINOIS	4	15	---	15	---	1	---	35
DELAWARE AND HUDSON RAILROAD	---	2	---	---	---	---	---	2
DETROIT AND TOLEDO SHORE LINE RAILROAD	---	1	---	---	---	---	---	1
DETROIT, TOLEDO AND IRONTON RAILROAD	---	8	---	9	3	---	2	22
ELGIN, JOLIET AND EASTERN RAILWAY	3	1	---	3	---	---	---	7
ERIE LACKAWANNA RAILROAD	19	42	8	53	1	13	1	137
GRAND TRUCK WESTERN	18	34	2	24	---	1	---	79
ILLINOIS TERMINAL RAILROAD	---	10	1	5	---	---	1	17
LEHIGH VALLEY RAILROAD	---	1	---	3	---	1	---	10
LONG ISLAND RAILROAD	17	5	---	2	---	---	---	20
MAINE CENTRAL RAILROAD	1	15	1	16	---	---	---	33
MISSOURI-ILLINOIS RAILROAD	---	1	1	6	---	---	---	8
MONOGAHELA RAILWAY	---	1	---	---	---	---	---	1
AMTRAK	17	17	---	30	1	---	1	66
NORFOLK AND WESTERN RAILWAY	40	193	15	249	1	4	4	566
PENN CENTRAL TRANSPORTATION COMPANY	139	377	36	446	12	17	14	1,041
PENNSYLVANIA-READING SEASHORE LINES	2	10	---	18	---	1	---	31
PITTSBURGH AND LAKE ERIE RAILROAD	1	---	---	1	---	---	---	2
READING COMPANY READING	6	25	1	15	---	2	---	49
WESTERN MARYLAND RAILWAY	1	11	1	18	---	---	---	31
SUBTOTAL, Eastern District	313	1,027	92	1,261	27	53	30	2,803
Southern District								
ALABAMA GREAT SOUTHERN RAILROAD	---	14	3	32	---	---	2	51
AUTOTRAIN CORPORATION	1	2	---	6	---	---	---	9
ATLANTA AND WEST POINT RAILROAD COMPANY	---	15	---	11	1	---	---	27
CENTRAL OF GEORGIA RAILROAD COMPANY	1	21	5	58	---	1	3	89
CINCINNATI, NEW ORLEANS & TEXAS PACIFIC	1	6	---	14	---	1	---	22
CLINCHFIELD RAILROAD	---	1	---	6	---	---	---	7
FLORIDA EAST COAST RAILWAY	20	21	---	10	---	---	---	51
GEORGIA RAILROAD	---	5	---	12	---	---	---	17
GEORGIA SOUTHERN & FLORIDA RAILWAY	---	1	2	14	---	---	---	17
ILLINOIS CENTRAL GULF RAILROAD	26	150	16	239	130	7	9	577
LOUISVILLE AND NASHVILLE RAILROAD	26	138	21	271	19	10	38	523
NORFOLK SOUTHERN RAILWAY	---	8	---	21	---	---	3	32
SEABOARD COAST LINE RAILROAD	29	174	6	519	1	3	4	736
SOUTHERN RAILWAY	16	120	24	292	2	9	15	478
SUBTOTAL, Southern District	120	676	77	1,505	153	31	74	2,636
Western District								
ATCHAFALAYA, TDPEKA AND SANTA FE RAILWAY	63	196	36	219	4	4	14	536
BURLINGTON NORTHERN	36	123	46	433	9	6	21	674
CHICAGO AND NORTHWESTERN	47	113	67	219	3	2	7	458
CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC	27	117	32	123	3	16	12	330
CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD	25	80	16	137	---	1	3	262
COLORADO AND SOUTHERN RAILWAY	---	6	4	16	2	1	---	29
DENVER AND RIO GRANDE WESTERN RAILROAD	1	19	1	23	---	2	2	48
DULUTH, MISSAPEG AND IRON RANGE RAILWAY	---	2	---	2	---	---	---	4
DULUTH, WINNIPEG AND PACIFIC RAILWAY	---	1	---	6	---	---	---	7
FORT WORTH AND DENVER RAILWAY	---	11	2	21	---	2	---	35
GREEN BAY AND WESTERN RAILROAD	---	5	---	13	---	---	---	18
KANSAS CITY SOUTHERN RAILWAY	---	31	8	38	---	3	1	81
LAKE SUPERIOR AND ISHPEMING RAILROAD	---	1	---	---	---	---	---	1
MINNEAPOLIS, NORTHFIELD AND SOUTHERN RW	---	3	---	6	---	---	---	9
MISSOURI-KANSAS-TEXAS RAILROAD	---	52	4	87	---	---	1	144
MISSOURI PACIFIC RAILROAD	28	172	11	255	6	12	6	490
NORTHWESTERN PACIFIC RAILROAD	---	2	1	5	2	---	---	10
ST. LOUIS-SAN FRANCISCO RAILWAY	13	84	7	172	4	10	---	290
ST. LOUIS SOUTHWESTERN RAILWAY COMPANY	7	41	12	49	2	---	4	115
SOOLINE RAILROAD	6	72	2	58	1	---	---	139
SOUTHERN PACIFIC TRANSPORTATION COMPANY	121	173	140	260	28	7	23	752
SPOKANE INTERNATIONAL COMPANY	---	3	---	1	---	---	---	4
TEXAS AND PACIFIC RAILWAY	4	52	---	49	---	1	4	110
TEXAS MEXICAN RAILWAY COMPANY	---	4	---	7	---	---	---	11
TOLEDO, PEORIA AND WESTERN RAILROAD	---	8	---	2	---	1	---	11
UNION PACIFIC RAILROAD	20	84	15	228	10	2	8	367
WESTERN PACIFIC	7	14	8	34	---	---	---	63
SUBTOTAL, Western District	406	1,468	412	2,463	74	70	106	4,999
Class I RR (Switching and Terminal)								
Eastern District								
ALTON AND SOUTHERN RAILROAD	---	5	2	2	---	---	---	9
BALTIMORE AND OHIO CHICAGO TERMINAL RR	5	3	---	4	---	---	---	12
BELT RAILWAY COMPANY OF CHICAGO	3	3	---	1	---	---	---	7
CONEMAUGH AND BLACK LICK RAILROAD	---	---	---	1	---	---	---	1
CUYAHOGA VALLEY RAILWAY COMPANY	---	---	4	---	---	---	---	4
INDIANA HARBOR BELT RAILROAD	23	4	---	4	---	1	3	35
INDIANAPOLIS UNION RAILWAY	---	4	3	1	---	---	1	9
LAKEFRONT DOCK AND RAILROAD TERMINAL	---	---	---	1	---	---	---	1
LAKE TERMINAL RAILROAD COMPANY	---	---	---	1	---	---	---	1
PATAPSCO AND BACK RIVERS RAILROAD	---	---	---	1	---	---	---	1
PORTLAND TERMINAL COMPANY "MAINE"	---	1	---	---	---	---	---	1

(CONT.)

TABLE 22 RAIL-HIGHWAY ACCIDENTS/INCIDENTS INVOLVING MOTOR VEHICLES  
BY KIND OF CROSSING PROTECTION IN 1975

Railroad	Gates	Flashing Lights	Hwy Signals Wiwags Bells	Cross- bucks	Stop Signs	Other Passive	None	Total
Eastern District (CONT.)								
RIVER TERMINAL RAILWAY	---	2	---	---	---	---	---	2
UNION RAILROAD "PENNA."	---	1	---	---	---	---	---	1
SUBTOTAL,Eastern District	31	23	9	16	---	1	4	84
Southern District								
BIRMINGHAM SOUTHERN RAILROAD	---	1	---	2	---	---	---	3
KENTUCKY AND INDIANA TERMINAL RAILROAD	---	7	---	2	---	---	---	9
SUBTOTAL,Southern District	---	8	---	4	---	---	---	12
Western District								
HOUSTON BELT AND TERMINAL RAILWAY	2	26	2	12	---	3	1	46
PORTLAND TERMINAL (OREGON)	---	4	1	1	---	3	---	9
PORT TERMINAL RAILROAD ASSOCIATION	1	12	---	8	---	---	---	21
TERM. RAILROAD ASSOCIATION OF ST. LOUIS	6	3	---	6	---	---	---	15
TX PAC-MO PAC. TERM RR OF NEW ORLEANS	---	---	---	3	---	---	---	3
SUBTOTAL,Western District	9	45	3	30	---	6	1	94
Class II Railroads								
SUBTOTAL,Class II Railroads	19	114	32	173	11	8	15	372
RECAPITULATION								
ALL DISTRICTS								
Class I RR (Line-Haul)	821	3,152	581	5,193	253	154	209	10,363
Class I RR (Switching and Terminal)	40	76	12	50	---	7	5	190
Class II Railroads	19	114	32	173	11	8	15	372
Rapid Transit	---	---	---	---	---	---	---	---
Total.....	880	3,342	625	5,416	264	169	229	10,925

TABLE 23 CROSSINGS BY STATE AND TYPE

State	Public At Grade	Public Grade Separation	Private	Pedestrian	Total
Alabama	4,803	688	2,594	28	8,113
Alaska	221	10	74	---	305
Arizona	1,060	136	740	6	1,942
Arkansas	4,089	308	1,978	16	6,391
California	9,482	1,425	5,767	240	16,914
Colorado	2,354	287	1,465	10	4,116
Connecticut	570	612	536	56	1,774
Delaware	263	95	170	6	534
District of Columbia	70	68	16	13	167
Florida	5,964	294	2,495	76	8,829
Georgia	6,930	829	3,121	41	10,921
Hawaii	6	---	---	---	6
Idaho	2,071	145	1,775	7	3,998
Illinois	13,896	3,047	8,081	429	25,453
Indiana	10,145	1,208	4,190	134	15,677
Iowa	9,066	1,106	6,460	62	16,694
Kansas	9,851	591	5,022	34	15,498
Kentucky	3,692	950	3,776	104	8,522
Louisiana	4,928	343	4,412	56	9,739
Maine	1,119	206	1,068	13	2,406
Maryland	1,123	534	889	27	2,573
Massachusetts	1,230	1,254	602	99	3,185
Michigan	8,457	770	3,836	97	13,160
Minnesota	8,104	1,003	5,398	82	14,587
Mississippi	3,581	349	2,760	21	6,711
Missouri	6,650	1,200	4,979	102	12,931
Montana	2,296	273	3,365	22	5,956
Nebraska	5,580	422	4,143	25	10,170
Nevada	358	83	316	2	759
New Hampshire	717	247	564	20	1,548
New Jersey	2,202	1,291	780	125	4,398
New Mexico	869	142	616	4	1,631
New York	4,450	2,247	4,032	225	10,954
North Carolina	5,444	808	4,539	77	10,868
North Dakota	5,744	173	2,783	34	8,734
Ohio	9,963	2,470	6,018	111	18,562
Oklahoma	5,775	480	2,456	19	8,730
Oregon	2,969	465	3,407	90	6,931
Pennsylvania	6,764	3,727	4,277	339	15,107
Rhode Island	142	140	82	4	368
South Carolina	4,452	532	1,883	19	6,886
South Dakota	3,393	174	2,184	7	5,758
Tennessee	4,166	1,006	2,454	34	7,660
Texas	14,616	1,558	7,429	45	23,648
Utah	1,372	171	901	6	2,450
Vermont	594	162	799	51	1,606
Virginia	2,806	1,062	3,923	67	7,858
Washington	4,290	807	4,423	116	9,636
West Virginia	2,460	662	2,935	110	6,167
Wisconsin	7,339	869	4,822	178	13,208
Wyoming	620	129	954	6	1,709
Puerto Rico	55	---	2	---	57
Total.....	219,161	37,558	142,291	3,495	402,505



TABLE 24 CROSSINGS BY RAILROAD AND TYPE

Railroad	Public At Grade	Public Grade Separation	Private	Pedestrian	Total
<b>LINE HAUL - EASTERN DISTRICT</b>					
Akron, Canton and Youngstown	222	28	150	---	400
Ann Arbor Railroad	393	33	194	8	628
Baltimore and Ohio Railroad	5,518	1,525	3,763	134	10,940
Bangor and Aroostook Railroad	214	33	491	3	741
Bessemer and Lake Erie Railroad	167	86	105	2	360
Boston and Maine Corporation	1,253	766	710	62	2,791
Canadian Pacific Railway Company	108	27	164	41	340
Central RR Company of New Jersey	403	204	171	9	787
Central Vermont	224	109	280	10	623
Chesapeake and Ohio Railway	4,583	846	4,193	143	9,765
Chicago and Eastern Illinois	540	59	291	1	891
Delaware and Hudson Railroad	545	203	690	28	1,466
Detroit and Toledo Shore Line	75	12	17	---	104
Detroit, Toledo and Ironton	533	66	476	4	1,079
Elgin, Joliet and Eastern	265	62	103	---	430
Erie Lackawanna Railroad	2,364	1,372	1,696	133	5,565
Grand Trunk Western	1,430	237	728	13	2,408
Illinois Terminal Railroad	197	48	109	1	355
Lehigh Valley Railroad	684	284	576	32	1,576
Long Island Railroad	313	---	82	7	402
Maine Central Railroad	661	114	470	9	1,254
Missouri-Illinois Railroad	167	20	180	1	368
Monongahela Railway	96	73	135	1	305
Amtrak	---	---	---	---	---
Norfolk and Western Railway	7,846	1,753	6,064	112	15,775
Penn Central Transportation Co.	19,801	7,182	9,993	470	37,446
Pennsylvania-Reading Seashore	587	99	129	16	831
Pittsburg and Lake Erie Railroad	105	73	111	18	307
Reading Company Reading	1,312	871	677	75	2,935
Richmond Fredericksburg Potomac	118	70	63	20	271
Western Maryland Railway	514	155	526	10	1,205
<b>SUBTOTAL, EASTERN</b>	<b>51,238</b>	<b>16,410</b>	<b>33,337</b>	<b>1,363</b>	<b>102,348</b>
<b>LINE HAUL - SOUTHERN DISTRICT</b>					
Alabama Great Southern Railroad	---	---	---	---	---
Autotrain Corporation	---	---	---	---	---
Atlanta and West Point Railroad	152	34	22	6	214
Central of Georgia Railroad	---	---	---	---	---
Cinn., N.O. & Texas Pacific	---	---	---	---	---
Clinchfield Railroad	143	114	234	4	495
Florida East Coast Railway	865	40	128	13	1,046
Georgia Railroad	407	64	126	4	601
Georgia Southern & Florida	---	---	---	---	---
Illinois Central Gulf Railroad	10,306	1,601	7,068	206	19,181
Louisville and Nashville	7,997	1,349	4,978	207	14,531
Norfolk Southern Railway	---	---	---	---	---
Seaboard Coast Line Railroad	11,884	1,077	5,749	127	18,837
Southern Railway	13,080	2,107	8,149	73	23,409
<b>SUBTOTAL, SOUTHERN</b>	<b>44,834</b>	<b>6,386</b>	<b>26,454</b>	<b>640</b>	<b>78,314</b>
<b>LINE HAUL - WESTERN DISTRICT</b>					
Atchison, Topeka and Santa Fe	12,124	1,257	7,209	86	20,676
Burlington Northern	20,733	2,267	16,134	291	39,425
Chicago and Northwestern	11,170	1,538	7,575	211	20,494
Chi., Milw., St. Paul & Pacific	9,322	1,238	6,895	133	17,588
Chicago, Rock Island & Pacific	6,968	938	4,049	27	11,982
Colorado and Southern Railway	427	59	298	3	787
Denver and Rio Grande Western	1,108	185	498	4	1,795
Duluth, Missabe and Iron Range	253	62	182	8	505
Duluth, Winnipeg and Pacific	99	27	30	---	156
Fort Worth and Denver Railway	938	54	456	---	1,448
Green Bay and Western Railroad	314	11	245	---	570
Kansas City Southern Railway	1,030	164	467	2	1,663
Lake Superior and Ishpeming	88	7	44	---	139
Minneapolis, Northfield and So.	122	44	9	1	176
Missouri-Kansas-Texas Railroad	2,239	288	1,245	7	3,779
Missouri Pacific Railroad	10,208	854	6,887	112	18,061
Northwestern Pacific Railroad	181	36	298	5	520
St. Louis-San Francisco Railway	5,510	511	2,817	42	8,880
St. Louis Southwestern Railway	1,426	101	506	---	2,033
Soo Line	4,359	307	2,752	45	7,463
Southern Pacific Trans. Company	11,834	1,599	7,998	236	21,667
Spokane International Company	---	---	---	---	---
Texas and Pacific Railway	1,694	241	859	9	2,803
Texas Mexican Railway Company	216	9	205	---	430
Toledo, Peoria and Western	292	10	201	6	509
Union Pacific Railroad	7,687	826	6,207	48	14,768
Western Pacific	663	131	366	10	1,170
<b>SUBTOTAL, WESTERN</b>	<b>111,005</b>	<b>12,764</b>	<b>74,432</b>	<b>1,286</b>	<b>199,487</b>
<b>SWITCHING - EASTERN DISTRICT</b>					
Aliquippa and Southern Railroad	---	3	---	---	3
Alton and Southern Railroad	27	5	27	---	59
Balt. and Ohio Chicago	150	114	38	7	309
Belt Railway Company of Chicago	38	70	79	1	188
Chicago, Union Station	1	13	---	---	14
Conemaugh and Black Lick	6	4	7	---	17
Cuyahoga Valley Railway Company	---	---	---	---	---

(CONT.)

TABLE 24 CROSSINGS BY RAILROAD AND TYPE

Railroad	Public At Grade	Public Grade Separation	Private	Pedestrian	Total
Indiana Harbor Belt Railroad	114	75	50	6	245
Indianapolis Union Railway	45	36	---	---	81
Lakefront Dock and Railroad	---	---	---	---	---
Lake Terminal Railroad Company	2	---	6	1	9
Monongahela Connecting Railroad	---	2	---	1	3
Patapsco and Back Rivers	5	5	57	---	67
Phila., Bethlehem and New Eng.	---	8	16	---	24
Portland Terminal Company	89	16	11	---	116
River Terminal Railway	7	---	2	---	9
South Buffalo Railway	2	6	37	---	45
Union Railroad 'Penna.	17	54	67	16	154
Washington Terminal	---	9	---	---	9
SUBTOTAL, EASTERN	503	420	397	32	1,352
SWITCHING - SOUTHERN DISTRICT					
Birmingham Southern Railroad	41	14	10	---	65
Kentucky and Indiana Terminal	75	19	12	---	106
SUBTOTAL, SOUTHERN	116	33	22	---	171
SWITCHING - WESTERN DISTRICT					
Houston Belt and Terminal Railway	282	29	47	5	363
Kansas City Terminal Railway	47	69	23	6	145
Ogden Union Railway and Depot	---	---	---	---	---
Peoria and Pekin Union Railway	34	5	13	---	52
Portland Terminal RR 'Oregon'	99	7	29	2	137
Port Terminal RR Assoc.	58	10	85	1	154
Terminal Railroad Association	171	84	15	1	271
Texas Pacific-Missouri Pacific	---	---	---	---	---
SUBTOTAL, WESTERN	691	204	212	15	1122
RECAPITULATION					
LINE HAUL - EASTERN DISTRICT	51,238	16,410	33,337	1,363	102,348
LINE HAUL - SOUTHERN DISTRICT	44,834	6,386	26,454	640	78,314
LINE HAUL - WESTERN DISTRICT	111,005	12,764	74,432	1,286	199,487
SWITCHING - EASTERN DISTRICT	503	420	397	32	1,352
SWITCHING - SOUTHERN DISTRICT	116	33	22	---	171
SWITCHING - WESTERN DISTRICT	691	204	212	15	1122
TOTAL CLASS I - LINE HAUL	207,077	35,560	134,223	3,289	380,149
TOTAL CLASS I - SWITCHING	1,310	657	631	47	2,645
RAPID TRANSIT	---	---	---	---	---
CLASS II RAILROADS	10,774	1,341	7,437	159	19,711
TOTAL:	219,161	37,558	142,291	3,495	402,505

TABLE 25-A PUBLIC AT GRADE CROSSINGS BY  
TYPICAL DAILY TRAIN MOVEMENTS AND AVERAGE DAILY TRAFFIC  
CROSSINGS WITH TRAIN ACTIVATED WARNING DEVICES

TRAFFIC	TRAIN MOVEMENTS						TOTAL
	0 TO 2	3 TO 5	6 TO 10	11 TO 20	21 TO 40	>40	
0 TO 250	1,480	1,053	1,743	1,698	1,212	345	7,531
251 TO 500	1,008	741	1,187	1,039	764	265	5,004
501 TO 1,000	1,575	1,068	1,570	1,540	1,043	334	7,130
1001 TO 5,000	4,840	2,766	3,666	3,587	2,482	859	18,200
5001 TO 10,000	1,824	979	1,325	1,348	857	370	6,703
MORE THAN 10,000	1,370	764	913	948	514	292	4,801
TOTAL:	2,097	7,371	10,404	10,160	6,872	2,465	49,369

TABLE 25-B PUBLIC AT GRADE CROSSINGS BY  
TYPICAL DAILY TRAIN MOVEMENTS AND AVERAGE DAILY TRAFFIC  
CROSSINGS WITHOUT TRAIN ACTIVATED WARNING DEVICES

TRAFFIC	TRAIN MOVEMENTS					TOTAL	
	0 TO 2	3 TO 5	6 TO 10	11 TO 20	21 TO 40		
0 TO 250	56,329	17,377	18,036	10,526	5,171	709	108,148
251 TO 500	10,401	3,104	3,000	1,658	761	113	19,037
501 TO 1,000	8,579	2,481	2,064	1,260	522	108	15,014
1001 TO 5,000	12,797	3,236	2,548	1,564	572	115	20,832
5001 TO 10,000	3,122	655	417	214	66	39	4,513
MORE THAN 10,000	1,621	307	203	80	28	9	2,248
TOTAL:	92,849	27,160	26,268	15,302	7,120	1,093	169,792

TABLE 26 PUBLIC AT GRADE CROSSINGS BY STATE AND HIGHEST PROTECTION LEVEL

State	Crossings Meeting Minimum Standards		Gates	Flashing Lights	Sig. WW Bells	Highest Protection Level				None	Total
	On FA System	Off FA System				Special Prot	Cross-bucks	Stop Signs	Other Signs		
Alabama	421	317	84	587	24	51	3,517	75	10	455	4,803
Alaska	40	6	1	44	---	18	142	2	1	13	221
Arizona	154	158	115	133	16	96	615	8	---	77	1,060
Arkansas	356	215	102	414	30	97	2,947	20	1	478	4,089
California	2,361	3,367	2,186	1,506	611	217	4,410	97	21	434	9,482
Colorado	189	315	64	376	42	345	1,389	21	2	115	2,354
Connecticut	67	186	47	186	8	105	85	10	3	126	570
Delaware	99	18	30	85	---	48	81	2	---	17	263
District of Columbia	3	---	---	3	---	12	25	6	---	24	70
Florida	889	1,237	649	971	14	200	3,548	47	112	423	5,964
Georgia	605	385	192	640	24	166	5,383	18	6	501	6,930
Hawaii	---	1	---	---	---	---	6	---	---	---	6
Idaho	153	90	15	192	11	18	1,740	7	2	86	2,071
Illinois	1,746	2,982	1,512	2,885	243	363	8,264	12	2	615	13,896
Indiana	1,575	1,624	611	2,351	183	290	5,852	92	16	750	10,145
Iowa	1,127	736	275	1,078	171	83	7,112	6	1	340	9,066
Kansas	761	535	230	811	118	271	8,089	4	1	327	9,851
Kentucky	457	400	171	625	38	140	2,119	8	1	590	3,692
Louisiana	369	438	101	686	18	85	2,878	311	26	823	4,928
Maine	152	289	58	327	39	171	504	---	4	16	1,119
Maryland	184	121	68	192	36	90	484	15	4	194	1,123
Massachusetts	317	342	164	442	43	247	283	2	2	47	1,230
Michigan	1,638	1,144	544	1,890	89	286	5,344	20	48	236	8,457
Minnesota	806	593	128	921	20	45	6,684	18	2	286	8,104
Mississippi	256	133	21	345	19	59	397	2,371	25	344	3,581
Missouri	845	682	170	946	178	162	4,697	8	4	485	6,650
Montana	155	138	60	205	10	22	1,768	4	1	226	2,296
Nebraska	592	315	185	513	65	70	4,447	4	23	273	5,580
Nevada	54	50	21	65	5	9	219	---	7	32	358
New Hampshire	109	87	25	154	16	180	303	9	4	26	717
New Jersey	332	709	356	637	32	414	635	6	3	119	2,202
New Mexico	107	82	51	116	12	13	638	---	6	33	869
New York	784	1,362	674	1,299	104	536	1,547	3	56	231	4,450
North Carolina	896	834	156	807	10	262	3,643	7	24	535	5,444
North Dakota	347	54	58	218	2	---	5,070	2	---	394	5,744
Ohio	1,806	2,537	682	2,305	97	116	6,235	15	17	496	9,963
Oklahoma	443	396	81	694	59	173	4,555	4	11	198	5,775
Oregon	389	415	208	194	86	112	1,898	100	12	359	2,969
Pennsylvania	748	1,333	498	1,385	112	801	2,829	78	450	611	6,764
Rhode Island	19	31	6	25	19	37	28	5	2	20	142
South Carolina	738	155	118	323	5	384	3,322	1	18	281	4,452
South Dakota	208	55	1	191	5	---	3,074	---	1	121	3,393
Tennessee	209	423	104	486	17	305	2,424	36	2	792	4,166
Texas	1,514	2,246	519	2,755	150	481	9,545	32	16	1,118	14,616
Utah	121	174	30	232	14	76	865	6	51	98	1,372
Vermont	77	85	12	143	7	57	346	1	7	21	594
Virginia	466	327	218	456	47	245	1,486	1	12	341	2,806
Washington	497	523	94	547	60	63	2,975	21	12	518	4,290
West Virginia	227	188	51	292	20	50	1,689	8	6	344	2,460
Wisconsin	1,150	773	226	1,206	455	294	4,911	1	3	243	7,339
Wyoming	76	68	16	100	8	1	431	1	1	62	620
Puerto Rico	2	3	4	1	---	50	---	---	---	---	55
Total.....	27,636	29,757	11,992	33,985	3,392	8,416	141,478	3,525	1,079	15,294	219,161

FOOTNOTE:

FA - Federal Aid  
 Sig - Highway Traffic Signals  
 WW - Wigwags  
 Special Prot - Special warning device not train activated, e.g., crossing flagged by train crew

TABLE 27 PUBLIC AT GRADE CROSSINGS BY RAILROAD AND HIGHEST PROTECTION LEVEL

Railroad	Crossings Meeting Minimum Standards		Gates	Flashing Lights	Sig. WW Bells	Highest Protection Level					None	Total
	On FA System	Off FA System				Special Prot	Cross-bucks	Stop Signs	Other Signs			
<b>LINE HAUL - EASTERN DISTRICT</b>												
Akron, Canton and Youngstown	59	68	1	67	2	3	145	1	2	1	222	
Ann Arbor Railroad	76	33	6	71	8	---	298	---	1	9	393	
Baltimore and Ohio Railroad	740	919	199	1,174	46	117	3,641	18	7	316	5,518	
Bangor and Aroostook Railroad	40	56	6	82	7	13	102	---	---	4	214	
Bessemer and Lake Erie Railroad	23	29	13	34	---	6	111	---	---	3	167	
Boston and Maine Corporation	257	243	176	288	33	254	444	4	4	50	1,253	
Canadian Pacific Railway Company	21	22	3	35	3	12	49	---	---	6	108	
Central RR Company of New Jersey	41	67	23	83	1	---	249	---	---	47	403	
Central Vermont	26	63	9	79	1	2	121	2	2	8	224	
Chesapeake and Ohio Railway	741	531	230	901	18	81	3,034	6	2	311	4,583	
Chicago and Eastern Illinois	66	69	39	93	3	---	390	3	---	12	540	
Delaware and Hudson Railroad	96	232	128	180	8	21	165	2	21	20	545	
Detroit and Toledo Shore Line	22	30	24	14	---	1	36	---	---	---	75	
Detroit, Toledo and Ironton	94	110	17	109	---	10	382	1	---	14	533	
Elgin, Joliet and Eastern	56	85	62	78	1	14	109	---	---	1	265	
Erie Lackawanna Railroad	486	723	335	728	83	198	930	1	1	88	2,364	
Grand Trunk Western	335	332	245	372	13	117	673	2	---	8	1,430	
Illinois Terminal Railroad	35	24	5	50	---	---	122	2	---	18	197	
Lehigh Valley Railroad	126	140	64	178	13	88	266	---	5	70	684	
Long Island Railroad	47	257	273	30	---	---	9	---	---	1	313	
Maine Central Railroad	89	185	29	209	32	66	317	---	2	6	661	
Missouri-Illinois Railroad	19	8	1	24	---	---	140	---	---	2	167	
Monongahela Railway	10	7	---	13	1	---	72	1	---	9	96	
Amtrak	---	---	---	---	---	---	---	---	---	---	---	
Norfolk and Western Railway	1,256	1,513	505	1,639	153	193	4,952	18	12	374	7,846	
Penn Central Transportation Co.	3,118	3,923	1,440	4,655	317	1,323	9,760	159	510	1,637	19,801	
Pennsylvania-Reading Seashore	58	185	37	194	1	90	233	6	1	25	587	
Pittsburg and Lake Erie Railroad	4	23	14	10	2	2	63	---	---	14	105	
Reading Company Reading	184	374	160	389	4	221	381	3	6	148	1,312	
Richmond Fredericksburg Potomac	20	8	21	12	5	68	14	---	---	8	118	
Western Maryland Railway	98	79	22	137	12	28	269	2	17	27	514	
<b>SUBTOTAL, EASTERN</b>	<b>8,243</b>	<b>10,338</b>	<b>4,087</b>	<b>11,918</b>	<b>767</b>	<b>2,928</b>	<b>27,477</b>	<b>231</b>	<b>593</b>	<b>3,237</b>	<b>51,238</b>	
<b>LINE HAUL - SOUTHERN DISTRICT</b>												
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---	---	---	
Autotrain Corporation	---	---	---	---	---	---	---	---	---	---	---	
Atlanta and West Point Railroad	14	25	10	26	3	34	74	---	---	5	152	
Central of Georgia Railroad	---	---	---	---	---	---	---	---	---	---	---	
Cinn., N.O. & Texas Pacific	---	---	---	---	---	---	---	---	---	---	---	
Clinchfield Railroad	13	11	2	19	2	10	102	---	---	8	143	
Florida East Coast Railway	119	456	340	169	---	3	332	---	1	20	865	
Georgia Railroad	28	48	10	57	5	61	263	2	---	9	407	
Georgia Southern & Florida	---	---	---	---	---	---	---	---	---	---	---	
Illinois Central Gulf Railroad	1,042	1,052	402	1,352	193	181	5,007	2,422	17	732	10,306	
Louisville and Nashville	768	935	244	1,345	56	221	4,969	81	15	1,067	7,997	
Norfolk Southern Railway	---	---	---	---	---	---	---	---	---	---	---	
Seaboard Coast Line Railroad	2,002	1,362	602	1,541	29	556	8,514	37	11	594	11,884	
Southern Railway	1,264	1,126	302	1,480	36	638	8,753	35	37	1,799	13,080	
<b>SUBTOTAL, SOUTHERN</b>	<b>5,250</b>	<b>5,015</b>	<b>1,911</b>	<b>5,989</b>	<b>324</b>	<b>1,704</b>	<b>28,014</b>	<b>2,577</b>	<b>81</b>	<b>4,234</b>	<b>44,834</b>	
<b>LINE HAUL - WESTERN DISTRICT</b>												
Atchison, Topeka and Santa Fe	1,519	1,935	910	1,723	358	1,009	7,881	8	13	222	12,124	
Burlington Northern	1,942	1,470	611	1,921	202	195	16,182	118	28	1,476	20,733	
Chicago and Northwestern	1,423	1,176	394	1,434	499	160	8,253	4	6	420	11,170	
Chi., Milw. St. Paul & Pacific	1,116	829	231	1,221	166	269	6,916	5	8	506	9,322	
Chicago, Rock Island & Pacific	760	681	402	828	54	12	5,312	8	2	350	6,968	
Colorado and Southern Railway	43	47	4	73	9	2	299	3	---	37	427	
Denver and Rio Grande Western	94	166	30	216	2	5	766	4	2	83	1,108	
Duluth, Missabe and Iron Range	44	19	4	19	---	4	192	---	---	---	253	
Duluth, Winnipeg and Pacific	13	7	---	19	---	5	75	---	---	---	99	
Fort Worth and Denver Railway	100	45	7	105	---	3	703	---	2	118	938	
Green Bay and Western Railroad	54	9	1	57	2	---	244	---	---	10	314	
Kansas City Southern Railway	87	106	11	165	10	---	714	2	---	128	1,030	
Lake Superior and Ishpeming	10	10	---	14	---	5	36	---	32	1	88	
Minneapolis, Northfield and So.	8	26	---	30	---	11	76	---	---	5	122	
Missouri-Kansas-Texas Railroad	196	251	31	334	54	4	1,616	1	1	198	2,239	
Missouri Pacific Railroad	992	934	203	1,504	57	152	7,307	21	6	958	10,208	
Northwestern Pacific Railroad	39	71	35	39	16	---	88	---	1	2	181	
St. Louis-San Francisco Railway	501	400	81	707	60	22	4,003	117	3	317	5,510	
St. Louis Southwestern Railway	165	153	58	237	---	2	1,059	9	---	61	1,426	
Soo Line	440	240	39	544	32	1	3,630	1	1	111	4,359	
Southern Pacific Trans. Company	2,199	3,037	1,976	1,648	529	31	6,609	84	24	933	11,834	
Spokane International Company	---	---	---	---	---	---	---	---	---	---	---	
Texas and Pacific Railway	164	223	65	301	4	1	1,141	2	---	180	1,694	
Texas Mexican Railway Company	23	21	---	44	---	---	161	2	---	9	216	
Toledo, Peoria and Western	50	43	---	90	---	---	194	---	---	6	292	
Union Pacific Railroad	752	658	253	838	91	359	5,576	20	56	494	7,687	
Western Pacific	139	168	127	126	21	3	323	11	1	51	663	
<b>SUBTOTAL, WESTERN</b>	<b>12,873</b>	<b>12,725</b>	<b>5,473</b>	<b>14,270</b>	<b>2,166</b>	<b>2,457</b>	<b>79,356</b>	<b>420</b>	<b>187</b>	<b>6,676</b>	<b>111,005</b>	
<b>SWITCHING - EASTERN DISTRICT</b>												
Alliquippa and Southern Railroad	---	---	---	---	---	---	---	---	---	---	---	
Alton and Southern Railroad	10	3	4	9	---	---	12	---	---	2	27	
Balt. and Ohio Chicago	14	83	43	50	2	24	22	1	---	8	150	
Belt Railway Company of Chicago	3	13	6	10	---	1	20	---	---	1	38	
Chicago, Union Station	---	1	1	---	---	---	---	---	---	---	1	
Coneaugh and Black Lick	3	---	1	2	---	---	3	---	---	---	6	
Cuyahoga Valley Railway Company	---	---	---	---	---	---	---	---	---	---	---	
Indiana Harbor Belt Railroad	19	44	34	29	---	38	10	---	---	3	114	
Indianapolis Union Railway	13	15	1	18	9	1	10	---	4	2	45	
Lakefront Dock and Railroad	---	---	---	---	---	---	---	---	---	---	---	
Lake Terminal Railroad Company	---	---	---	---	---	---	1	---	---	---	2	
Monongahela Connecting Railroad	---	---	---	---	---	---	---	---	---	---	---	
Patapsco and Back Rivers	2	1	---	---	---	1	4	---	---	---	5	
Phila., Bethlehem and New Eng.	---	---	---	---	---	---	---	---	---	---	---	
Portland Terminal Company	12	13	11	14	---	62	1	---	---	1	89	
River Terminal Railway	---	2	---	2	---	---	5	---	---	---	7	
South Buffalo Railway	---	---	---	---	---	2	---	---	---	---	2	
South Union Railway	2	15	3	14	---	---	---	---	---	---	17	
Union Railroad, Penna.	---	---	---	---	---	---	---	---	---	---	---	
Washington Terminal	---	---	---	---	---	---	---	---	---	---	---	
<b>SUBTOTAL, EASTERN</b>	<b>78</b>	<b>190</b>	<b>104</b>	<b>148</b>	<b>12</b>	<b>133</b>	<b>84</b>	<b>5</b>	<b>---</b>	<b>17</b>	<b>503</b>	
<b>SWITCHING - SOUTHERN DISTRICT</b>												

(CONT.)

TABLE 27 PUBLIC AT GRADE CROSSINGS BY RAILROAD AND HIGHEST PROTECTION LEVEL

Railroad	Crossings Meeting		Gates	Flashing Lights	Sig, WW Bells	Highest Protection Level				None	Total
	Minimum On FA System	Standards Off FA System				Special Prot	Cross-bucks	Stop Signs	Other Signs		
Birmingham Southern Railroad	14	6	---	20	---	---	21	---	---	---	41
Kentucky and Indiana Terminal	7	30	---	37	---	1	30	---	---	7	75
SUBTOTAL, SOUTHERN	21	36	---	57	---	1	51	---	---	7	116
SWITCHING - WESTERN DISTRICT											
Houston Belt and Terminal Railway	8	97	6	97	2	---	139	---	---	38	282
Kansas City Terminal Railway	2	6	---	8	---	---	11	---	1	27	47
Ogden Union Railway and Depot	---	---	---	---	---	---	---	---	---	---	---
Peoria and Pekin Union Railway	2	19	---	21	---	13	---	---	---	---	34
Portland Terminal RR 'Oregon'	1	1	---	2	---	81	---	1	---	15	99
Port Terminal RR Assoc.	1	22	---	23	---	---	26	---	---	9	58
Terminal Railroad Association	15	46	42	16	3	73	34	---	---	3	171
Texas Pacific-Missouri Pacific	---	---	---	---	---	---	---	---	---	---	---
SUBTOTAL, WESTERN	29	191	48	167	5	167	210	1	1	92	691
RECAPITULATION											
LINE HAUL - EASTERN	8,243	10,338	4,087	11,918	767	2,928	27,477	231	593	3,237	51,238
LINE HAUL - SOUTHERN	5,250	5,015	1,911	5,989	324	1,704	28,014	2,577	81	4,234	44,834
LINE HAUL - WESTERN	12,873	12,725	5,473	14,270	2,166	2,457	79,356	420	187	6,676	111,005
SWITCHING - EASTERN	78	190	104	148	12	133	84	5	---	17	503
SWITCHING - SOUTHERN	21	36	---	57	---	1	51	---	---	7	116
SWITCHING - WESTERN	29	191	48	167	5	167	210	1	1	92	691
RAPID-TRANSIT	---	---	---	---	---	---	---	---	---	---	---
CLASS II	---	---	369	1,436	118	1,026	6,286	291	217	1,031	10,774
TOTAL:	26,494	28,495	11,992	33,985	3,392	8,416	141,478	3,525	1,079	15,294	219,161

FOOTNOTE:

FA - Federal Aid  
 Sig - Highway Traffic Signals  
 WW - Wigwags  
 Special Prot - Special warning device not train activated, e.g., crossing flagged by train crew

TABLE 28 PUBLIC AT GRADE CROSSINGS  
SELECTED STATISTICS

Average number of daily train movements:		
Thru	5.3	
Switching	1.6	
Average maximum timetable speed: 31.2 mph		
Average speed range: 13.2 mph to 29.7 mph		
Track characteristics:		
Main line track:		86.0%
Another railroad on separate track:		2.5%
Another railroad on same track:		6.0%
Commercial power available:		90.0%
Speed selector:		2.5%
Automatic or interlocking signals:		28.0%
Type of development:		
Open space	40%	
Residential	23%	
Commercial	20%	
Industrial	15%	
Institutional	2%	
Crossings on state system: 17%		
Urban crossings: 49.7%		
Percent trucks:		
0 to 5	44.1%	
6 to 10	35.4%	
11 to 15	9.2%	
16 to 20	4.6%	
21 to 40	5.6%	
Over 40	0.8%	
TOTAL	100.0%	
Smallest crossing angle:		
0 to 29 degrees	3.5%	
30 to 59 degrees	16.3%	
60 to 90 degrees	80.1%	
TOTAL	100.0%	
Number of traffic lanes crossing railroad:		
1 lane	17.6%	
2	76.6%	
3	0.5%	
4	4.6%	
5	0.2%	
6	0.2%	
> 6	0.0%	
TOTAL	100.0%	
Truck pullout lanes present: 1.26%		
Roadway approach paved: 68%		
Pavement markings (Paved crossing approaches):		
Stoplines only	2.2%	
RR crossing symbol only	2.0%	
Both stoplines and rr symbol	10.0%	
No markings	85.5%	
TOTAL	100.0%	
Railroad advance warning signs present: 39%		
Crossing surface:		
Sectional treated timber	14%	
Full wood plank	16%	
Asphalt	54%	
Unconsolidated	14%	
Other	2%	
Concrete		
Rubber		
Metal		
Miscellaneous		
Track runs down a street: 3.2%		
Crossing within 75 feet of the intersection of two or more roadways: 36%		
Jurisdiction of crossings:		
FA primary	5%	
FA secondary		
state	6%	
local	8%	
State highway (non-FA)	4%	
Local rural roads	41%	
Local city streets	33%	
FA urban	3%	

TABLE 29 PRIVATE AT GRADE CROSSINGS  
SELECTED STATISTICS

Crossing type:

Farm:	66.5%
Residential:	11.6%
Recreational:	1.5%
Industrial:	20.4%

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