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Office of Safety**

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NOTICE

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INTRODUCTION

Railroads are required to file monthly accident/incident reports with the Federal Railroad Administration's (FRA) Office of Safety in accordance with 49 CFR 225.

Bulletin 158 summarizes reportable accidents/incidents that occurred in the United States during 1989.

The reporting threshold that determines which accidents must be reported is adjusted to reflect the effect of inflation on damage costs. Between 1957 and 1974, any train accident exceeding \$750 in damages to railroad on-track equipment, signals, track or track structures, and roadbed had to be reported. Since the reporting threshold remained the same during this period, the rise in damage costs due to inflation contributed to an increasing number of reported accidents. In 1975, the FRA implemented new rules for reporting railroad accidents. The reporting threshold was raised to \$1,750; and the threshold was adjusted every 2 years to reflect inflationary changes. The reporting threshold in 1989 was \$5,700.

While this revision improved the comparability of the data, comparisons are valid only for those years when the threshold was adjusted. Generally, the number of reported accidents is higher in a year following an adjustment. Biennial adjustments not only make year-to-year statistical comparisons difficult, but also impose an unnecessary reporting burden to the railroads. To get a clearer picture of annual trends, it is necessary to adjust the second year of a threshold. This was done by limiting the count of accidents in 1984 to those over \$4,700, in 1986 to those over \$5,050, and in 1988 to those over \$5,452. For all other years, the actual number of accidents is reported.

To better assess the impact of increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. Therefore, the 1989 Accident/Incident Bulletin gives data for train accidents and train incidents by billions of revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

The tables appearing in the bulletin have retained their basic format since 1975. In 1983 the tables were renumbered so that the sequence that they appear in the bulletin and the table number would be in agreement. A cross reference table appears on page viii that provides a bridge between the previous table numbers and those appearing in this publication.

The heading "Nonfatal Casualties" indicates that both injuries and occupational illnesses are included. In all other cases, nonfatal illnesses are shown separately.

Information about casualties and accidents at rail-highway crossings are shown in this Bulletin. However, detailed information is available in the Rail-Highway Crossing Accident/Incident and Inventory Bulletin published annually by the FRA Office of Safety.

EMPLOYEE INJURIES

In order to gain a better understanding of the significance of certain statistics involving employee injuries, it is important that the reader be familiar with the basic reporting rules in this area. There are three main principles associated with the reporting of employee injuries. These are:

- 1) Any event or activity that causes an employee physical harm while in the work-environment is considered to be work-related. This means that an injury may occur in a derailment or it may be associated with routine activity, such as, the throwing of switches.
- 2) All employees, regardless of occupation or location of work assignment are covered by the rules. This includes every employee; from members of train crews and maintenance workers, to employees who work in office environments.
- 3) The physical harm sustained by an employee does not need to be major in nature, but there are certain consequences that must occur in order for an injury to be reportable. These are:
 - i) treatment beyond first aid was required (24.6% in 1989);
 - ii) the injury caused the employee to be absent from work for at least one day (67.3% in 1989);
 - iii) the injury caused the employee to be restricted in the performance of his work (8.1% in 1989).

An example of the types of injuries reported can be found in this year's bulletin. In 1989, 48% of all injuries were sprains and strains, 18% were bruises and contusions, and 11% were cuts and lacerations. These injuries accounted for 71% of the total. Approximately 22% of these injuries were minor in nature and only required simple medical treatment, after which the employee was able to return to work the same day.

All eye injuries are potentially serious since they involve an extremely sensitive part of the body. Dust or other foreign particle in the eye accounted for 5.8% of the total employee injuries. In 55.5% of the eye injuries, the employee was treated and returned to work without any restriction. Serious injuries such as amputations and fractures accounted for .3% and 6.8%, respectively, of all injuries reported in 1989.

There is a common perception that most employee injuries occur in connection with the movement of on-track equipment. Approximately 84%, however, involve other circumstances. There were 18,294 employees hurt in 1989 in incidents where moving on-track equipment was not a factor. The majority of these injuries occurred while the employee was performing maintenance work. Employees in maintenance of way and maintenance of equipment occupational categories sustained 63% of the injuries that did not involve moving on-track equipment.

The severity of an injury can be measured to some extent by whether or not the injury caused the employee to miss one or more days of work, resulted in restriction while at work, or only required medical treatment. The length of time that an injury prevented the employee from performing his normally assigned duties is an additional indicator of seriousness. The following two tables provide insights concerning the severity of injuries to employees.

EMPLOYEE INJURIES BY TYPE INJURY

Injury	Total Cases	.....Absent From Work.....|					Restricted Duty	Other
		Cases	-----Number of Days Off -----|					
			1-5	6-10	11-15	>= 16		
INJURIES ASSOCIATED WITH TRAIN MOVEMENTS								
Bruise/contusion, unspecified	911	725	230	147	57	291	54	132
Sprain/strain, unspecified	1,445	1,224	297	203	78	646	75	146
Cut/abrasion, unspecified	290	185	73	33	14	65	10	95
Puncture wound, unspecified	14	9	3	2	---	4	---	5
Electric shock/burn, unspecified	5	4	1	---	1	2	1	---
Other burn, unspecified	19	13	6	3	---	4	---	6
Dislocation, unspecified	24	21	3	3	1	14	1	2
Fracture, unspecified	203	180	20	17	11	132	8	15
Dental related	5	4	1	---	---	3	---	1
Amputation, unspecified	24	24	---	2	1	21	---	---
Object in eye	352	179	146	12	8	13	15	158
Hernia	4	3	---	---	2	1	---	1
Concussion	12	11	1	3	1	6	1	---
Nervous shock	6	5	4	---	---	1	1	---
Internal injury	12	11	2	1	---	8	---	1
Skin reaction, unspecified	6	3	---	1	1	1	---	3
Unspecified injury	166	123	54	16	5	48	3	40
Subtotal	3,498	2,724	841	443	180	1,260	169	605
INJURIES RESULTING FROM OTHER EVENTS								
Bruise/contusion, unspecified	2,956	1,930	763	328	150	689	305	721
Sprain/strain, unspecified	9,037	6,943	2,083	1,162	593	3,105	780	1,314
Cut/abrasion, unspecified	2,187	801	358	164	63	216	175	1,211
Puncture wound, unspecified	326	131	63	24	11	33	17	178
Electric shock/burn, unspecified	89	49	24	8	2	15	8	32
Other burn, unspecified	303	147	75	25	15	32	28	128
Dislocation, unspecified	98	70	12	10	4	44	7	21
Fracture, unspecified	1,272	859	127	103	63	566	182	231
Dental related	84	18	9	4	1	4	1	65
Amputation, unspecified	40	32	6	3	4	19	5	3
Object in eye	919	322	274	32	4	12	49	548
Hernia	142	128	6	9	5	108	7	7
Concussion	28	25	7	2	2	14	---	3
Nervous shock	5	3	---	---	2	1	---	2
Internal injury	26	20	6	2	1	11	1	5
Skin reaction, unspecified	101	36	25	5	2	4	3	62
Unspecified injury	681	423	199	58	27	139	31	227
Subtotal	18,294	11,937	4,037	1,939	949	5,012	1,599	4,758
Total	21,792	14,661	4,878	2,382	1,129	6,272	1,768	5,363

Note: The majority of cases appearing in the "Other" category are injuries that only required medical treatment.

EMPLOYEE INJURIES BY JOB

Job*	Total Cases	| .....Absent From Work.....|					Restricted Duty Other	
		Cases	-----Number of Days Off -----|					
			1-5	6-10	11-15	>= 16		
INJURIES ASSOCIATED WITH TRAIN MOVEMENTS								
1	17	12	1	1	---	10	1	4
2	17	12	4	2	1	5	1	4
3	250	166	46	24	9	87	20	64
4	145	84	31	14	9	30	21	40
5	193	161	43	40	10	68	2	30
6	2,876	2,289	716	362	151	1,060	124	463
Sub	3,498	2,724	841	443	180	1,260	169	605
INJURIES RESULTING FROM OTHER EVENTS								
1	63	34	9	4	4	17	1	28
2	1,030	689	304	110	36	239	53	288
3	6,285	3,548	1,214	539	256	1,539	693	2,044
4	5,216	3,064	1,055	516	268	1,225	575	1,577
5	509	381	142	60	35	144	13	115
6	5,191	4,221	1,313	710	350	1,848	264	706
Sub	18,294	11,937	4,037	1,939	949	5,012	1,599	4,758
Total	21,792	14,661	4,878	2,382	1,129	6,272	1,768	5,363

- * 1 = Executives, officials, and staff assistants
- 2 = Professional and administrative
- 3 = Maintenance of way and structures
- 4 = Maintenance of equipment and stores
- 5 = Transportation, other than train and engine
- 6 = Transportation, train and engine

1. HISTORICAL TRENDS, LAST 6 YEARS

OPERATIONS

TABLE 1. RAILROAD OPERATIONAL PROFILE

Year	Man-Hours	Motor Train-Miles	Yard Switching Miles	Locomotive Miles	Total Train Miles
1984	742,802	31,798	126,465	434,336	592,599
1985	696,911	32,457	117,059	421,395	570,911
1986	644,351	34,015	108,258	424,825	567,098
1987	618,992	34,077	101,955	445,282	581,314
1988	608,086	34,877	105,325	469,132	609,334
1989	578,410	35,542	104,330	483,727	620,599

NOTE: All figures shown in thousands

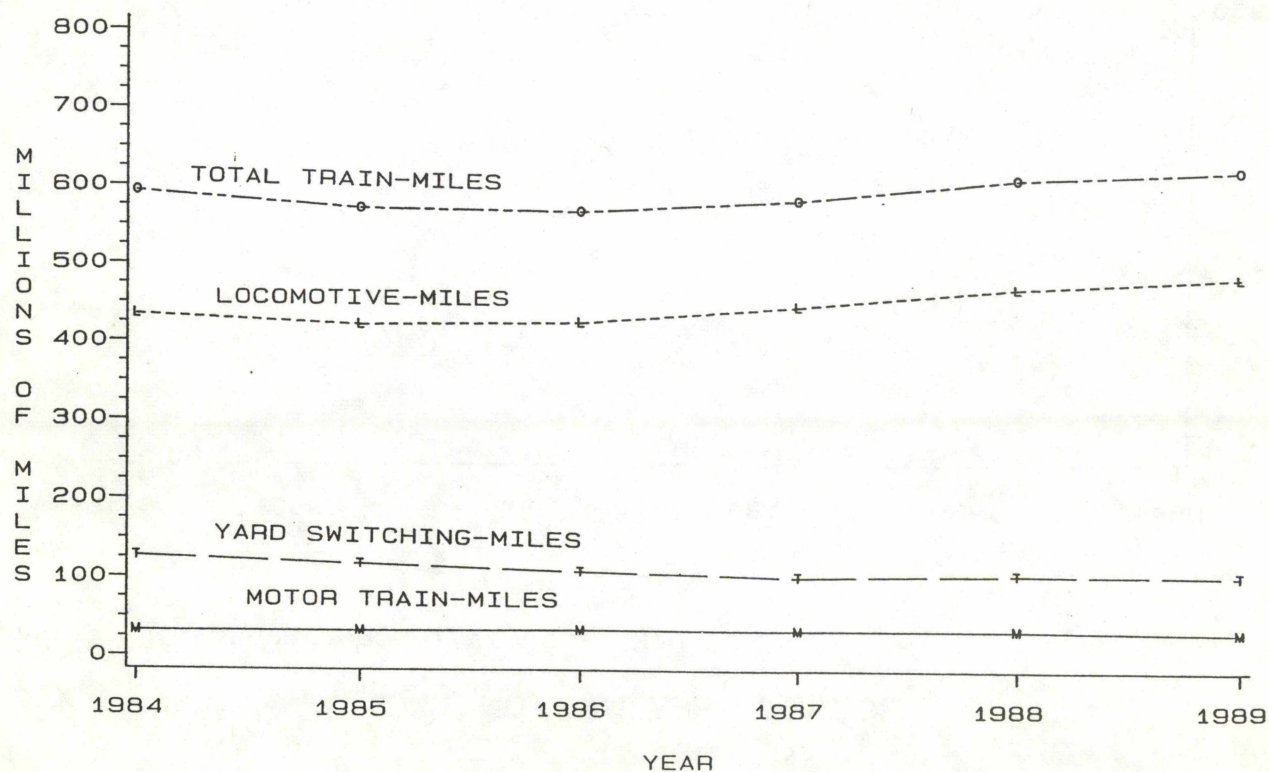
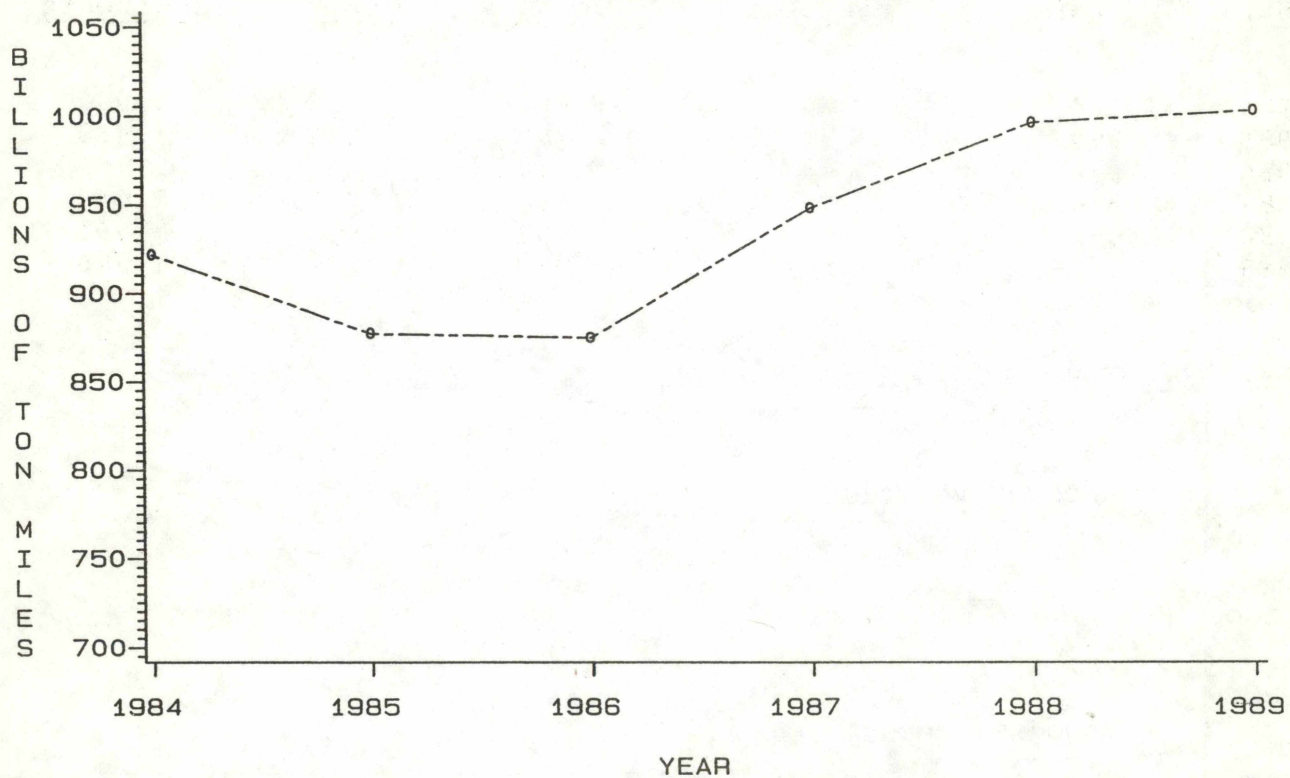


FIGURE 1. RAILROAD TRAIN-MILES

**TABLE 2. REVENUE TON-MILES
(BILLIONS)**

1984	921.2
1985	877.0
1986	874.6
1987	948.0
1988	996.2
1989	1,003.3

1989 figures are preliminary



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES

TRAIN ACCIDENTS

TABLE 3. TRAIN ACCIDENT CAUSES

<u>Year</u>	<u>Human Factors</u>	<u>Mechanical & Electrical Failures</u>	<u>Track Defects</u>	<u>Other</u>	<u>Total Accidents</u>
1984	1,100	661	1,481	658	3,900
1985	999	559	1,280	592	3,430
1986	816	433	1,016	496	2,761
1987	856	430	938	423	2,647
1988	1,031	512	952	556	3,051
1989	982	501	1,019	578	3,080

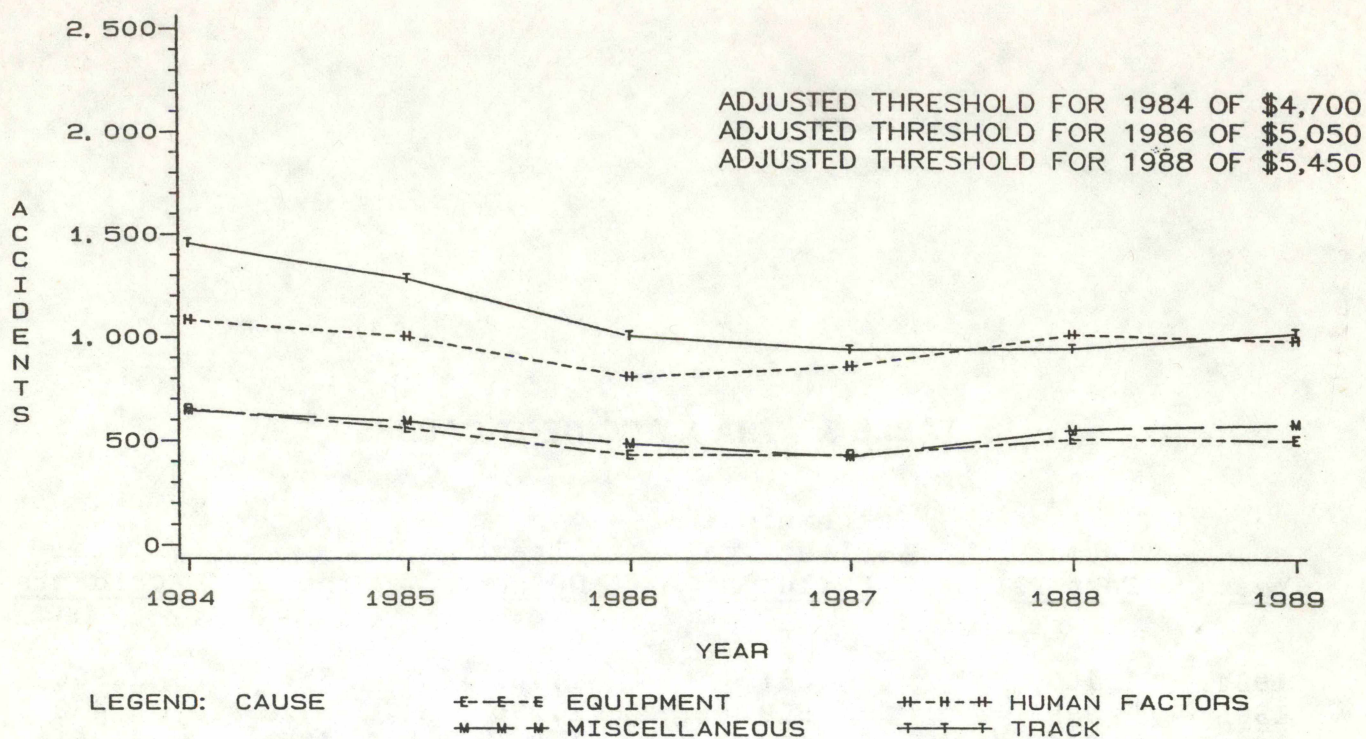


FIGURE 3A. ACCIDENT CAUSES - ADJUSTED

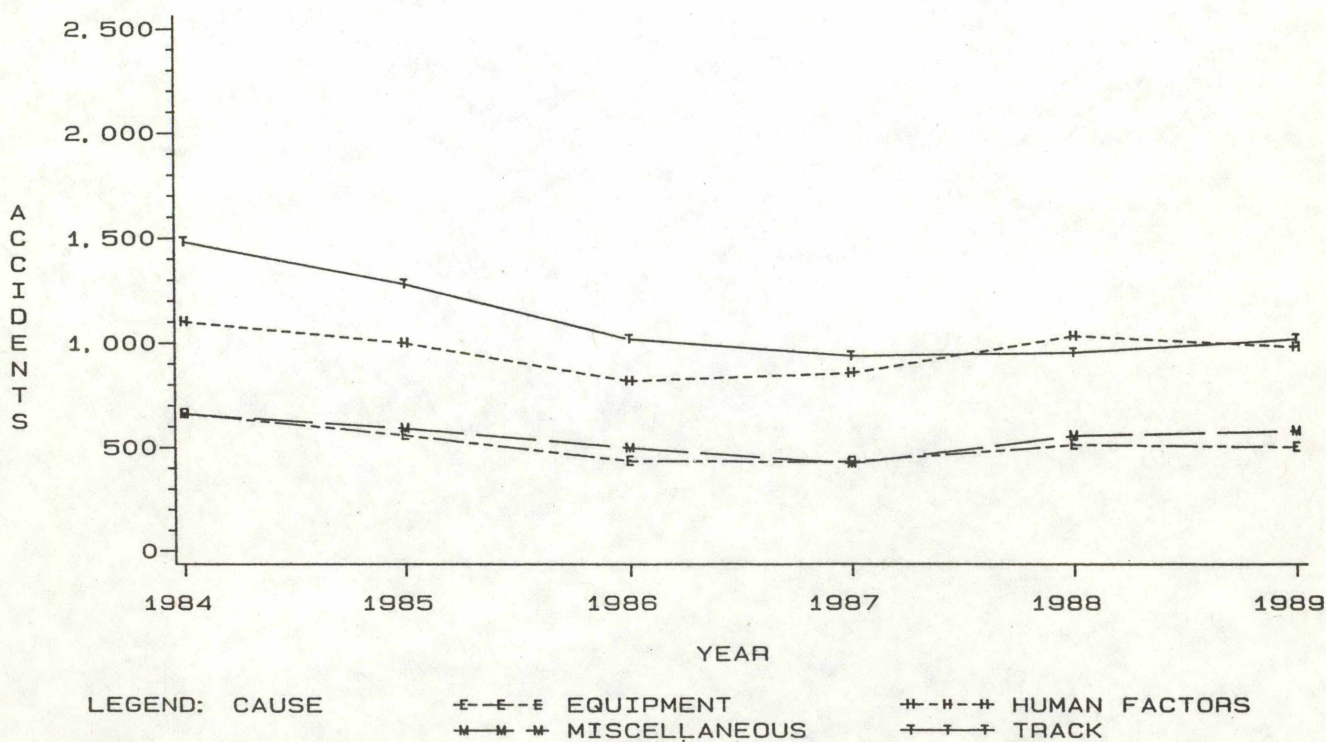


FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED

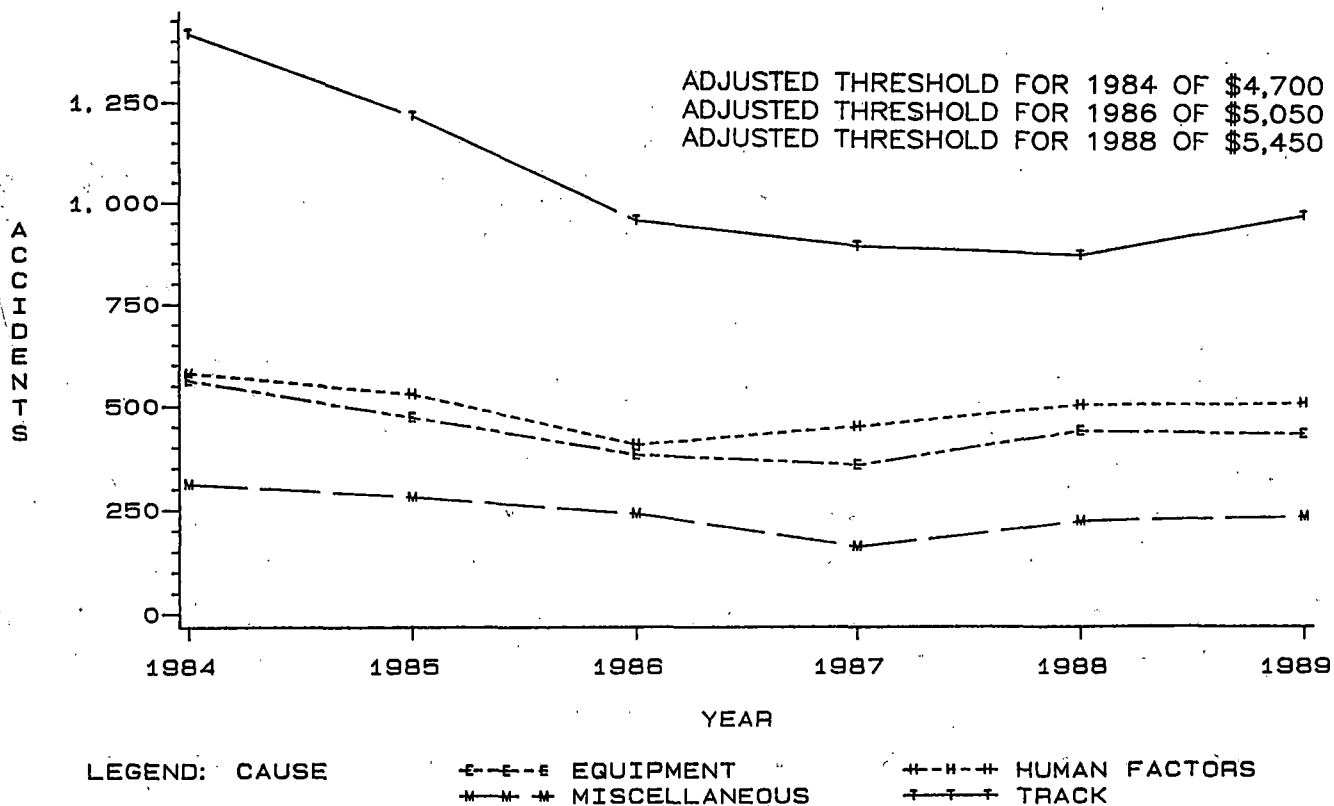


FIGURE 4A. DERAILMENT CAUSES - ADJUSTED

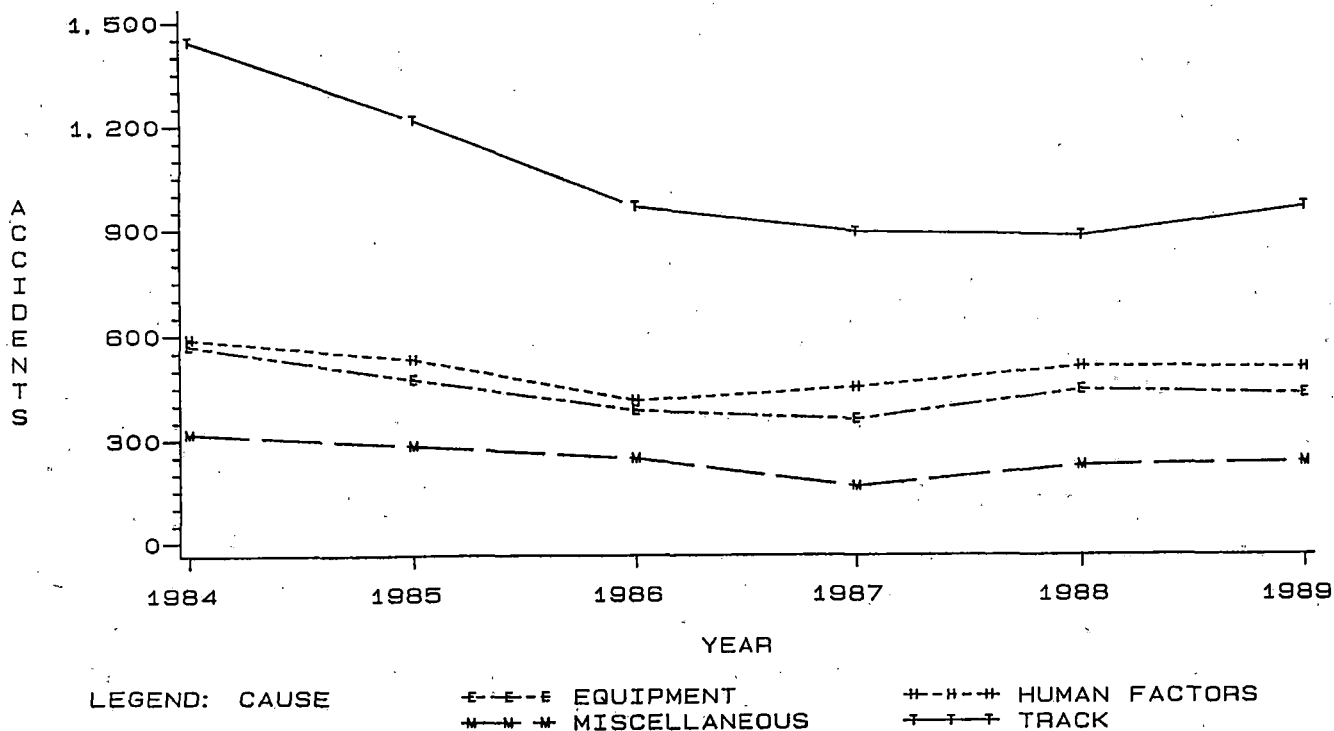


FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED

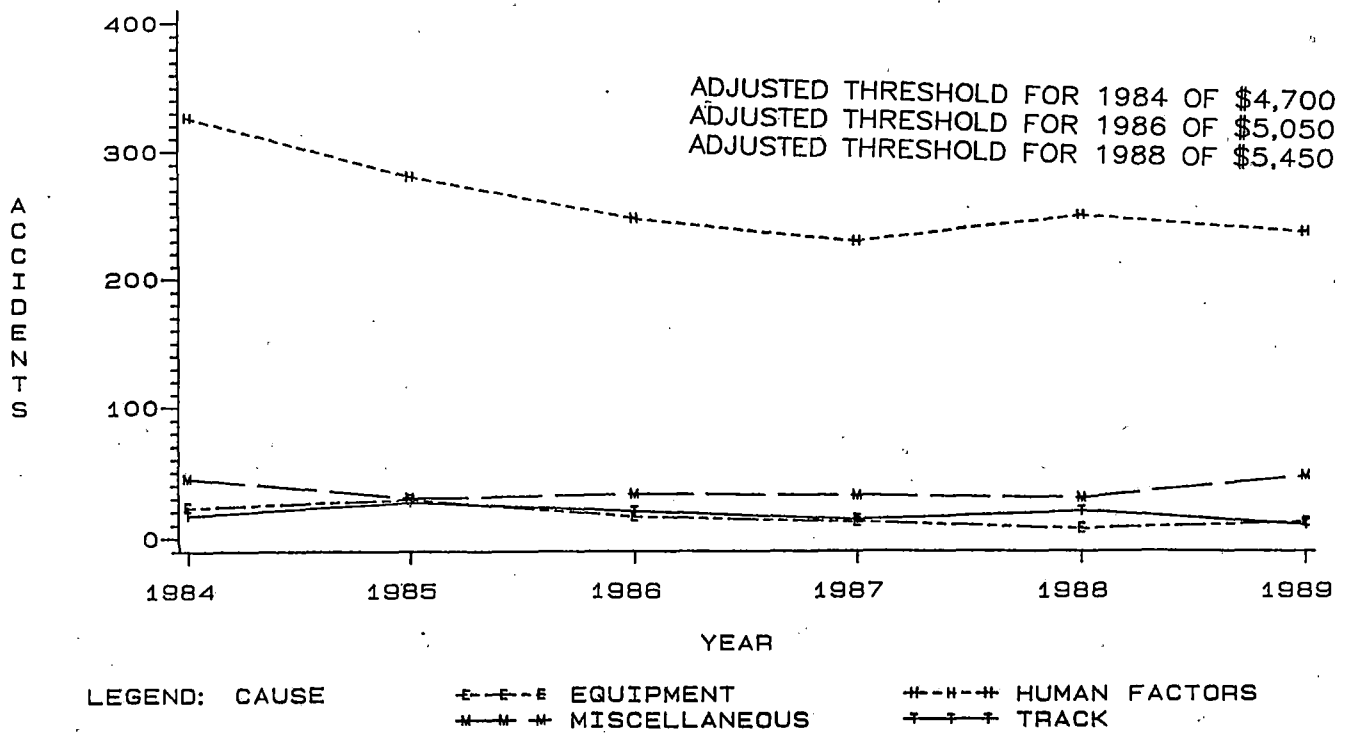


FIGURE 5A. COLLISION CAUSES - ADJUSTED

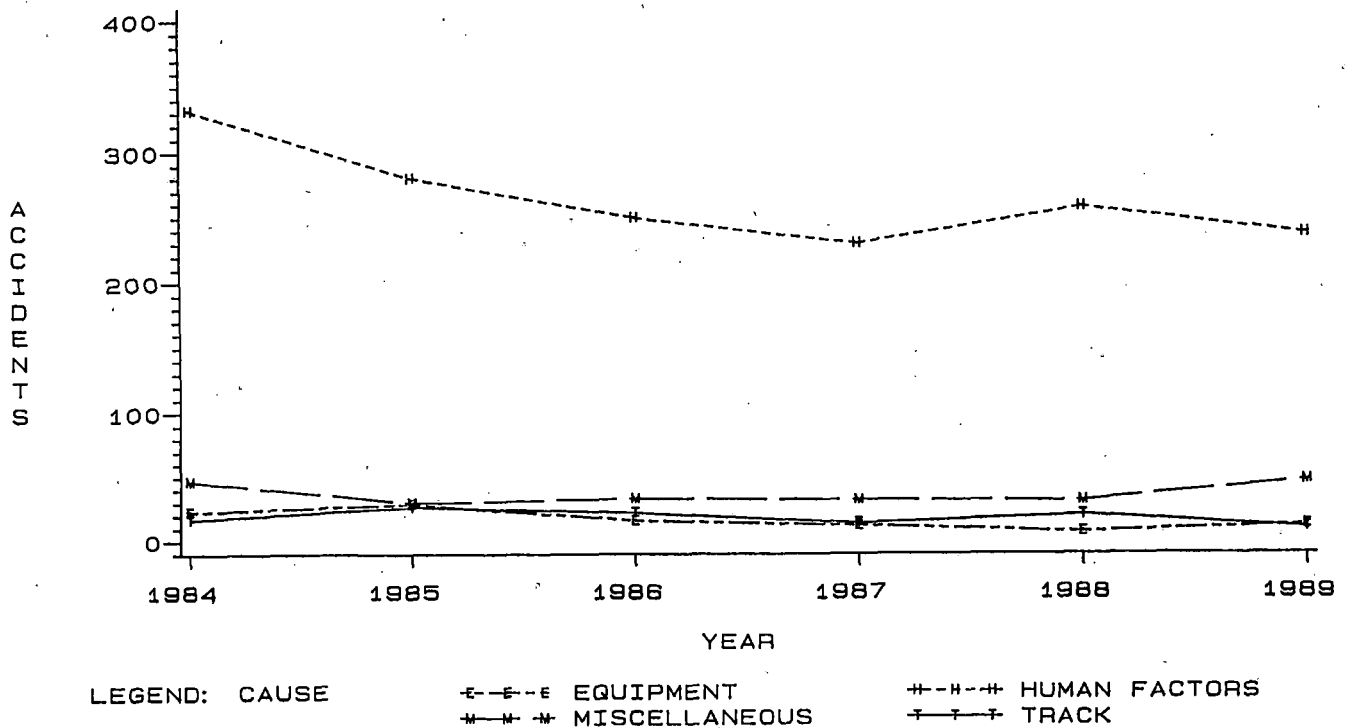
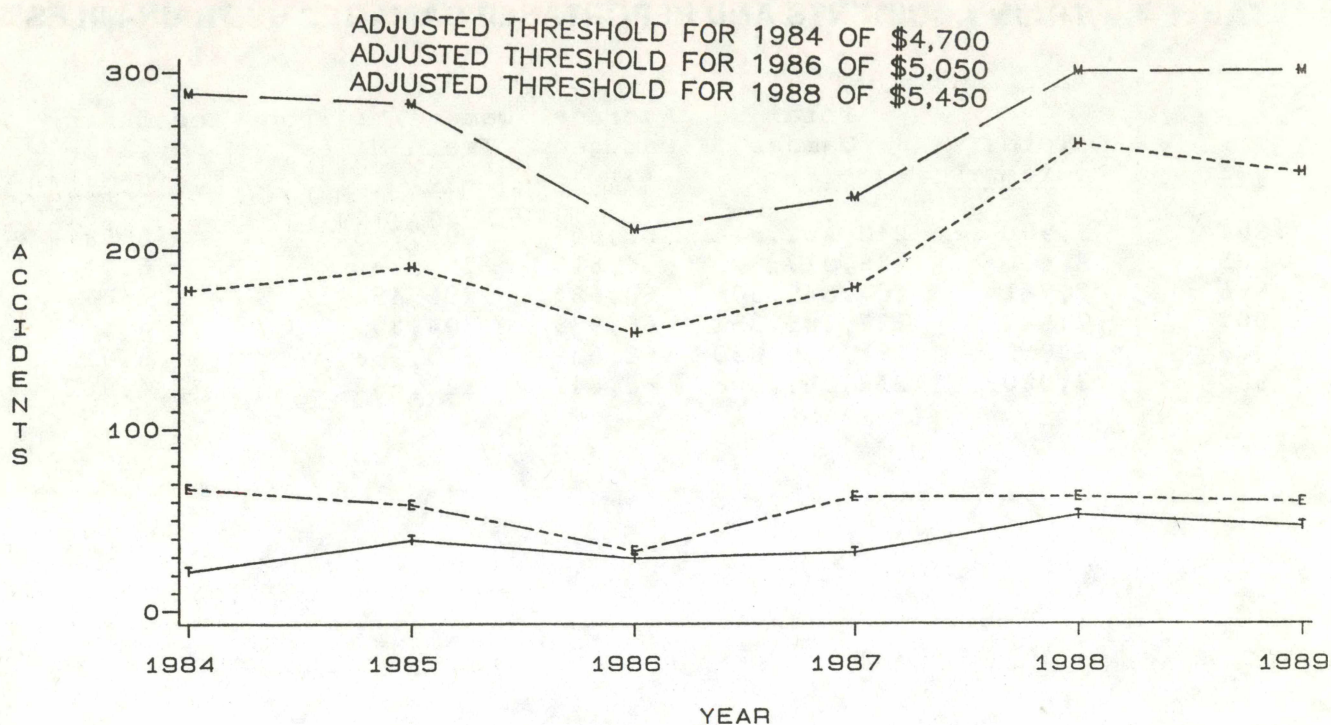


FIGURE 5B. COLLISION CAUSES - UNADJUSTED



LEGEND: CAUSE

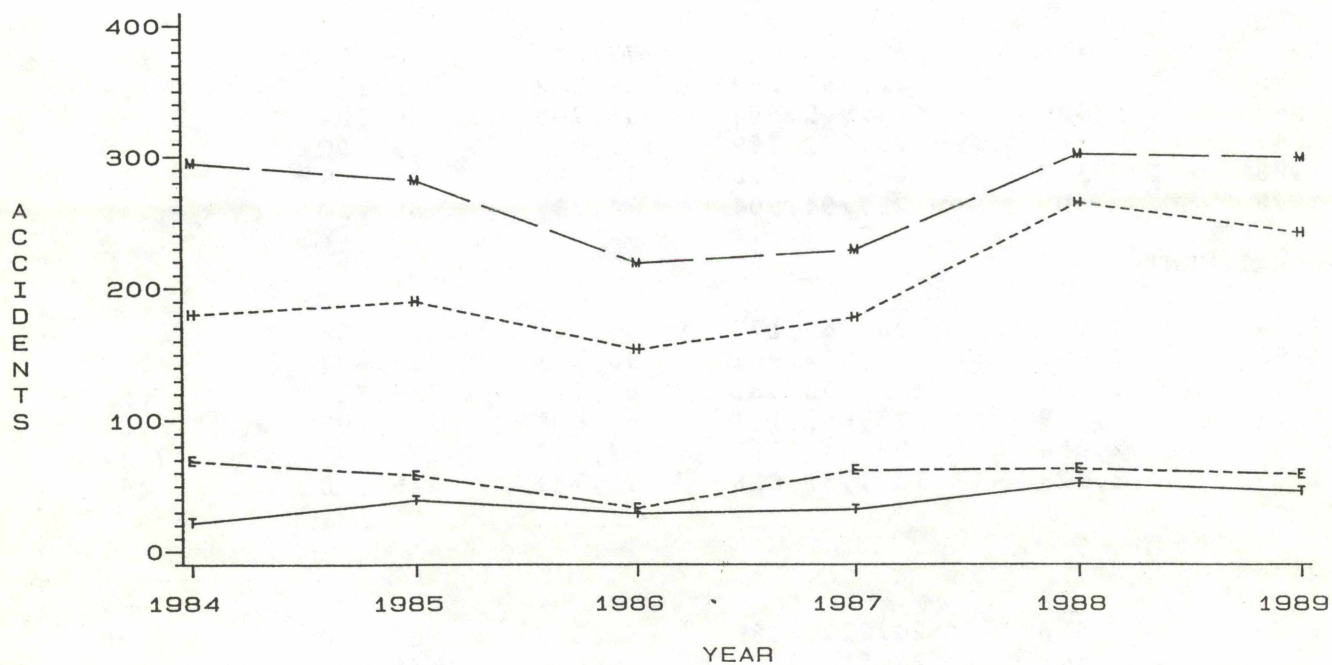
- - - - - EQUIPMENT

- * - * - MISCELLANEOUS

- - - - - HUMAN FACTORS

- - - - - TRACK

FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - ADJUSTED



LEGEND: CAUSE

- - - - - EQUIPMENT

- * - * - MISCELLANEOUS

- - - - - HUMAN FACTORS

- - - - - TRACK

FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - UNADJUSTED

TABLE 4. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRAIN-MILES

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accidents/ Million Train-Miles</u>
1984	3,900	240,462,514	61,657	405,775	6.58
1985	3,430	188,017,822	54,816	329,330	6.01
1986	2,761	167,549,306	60,684	295,450	4.87
1987	2,647	177,185,352	66,938	304,801	4.55
1988	3,051	191,110,633	62,639	313,638	5.01
1989	3,080	212,047,308	68,847	341,682	4.962

TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accident/ Million Train-Miles</u>
COLLISIONS					
1984	419	30,185,019	72,041	50,937	.71
1985	366	21,785,209	59,522	38,159	.64
1986	320	14,945,554	46,705	26,308	.56
1987	287	29,001,769	101,051	49,890	.49
1988	315	23,245,428	73,795	38,149	.52
1989	305	22,794,904	74,737	36,730	.49
DERAILMENTS					
1984	2,915	190,265,177	65,271	321,068	4.92
1985	2,495	145,634,901	58,371	255,092	4.37
1986	2,006	135,903,081	67,748	239,224	3.54
1987	1,859	125,683,151	67,608	216,205	3.20
1988	2,054	139,410,287	67,873	228,791	3.37
1989	2,129	152,735,826	71,741	246,110	3.43
OTHER					
1984	566	20,012,318	35,357	33,770	.96
1985	569	20,597,712	36,200	36,079	1.00
1986	435	16,700,671	38,392	29,397	.77
1987	501	22,500,432	44,911	38,706	.86
1988	682	28,454,918	41,723	46,698	1.12
1989	646	36,516,578	56,527	58,841	1.04

TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accident/ Million Train-Miles</u>
HUMAN FACTORS					
1984	1,100	54,963,882	49,967	92,750	1.86
1985	999	46,566,550	46,613	81,565	1.75
1986	816	36,994,772	45,337	65,235	1.44
1987	856	53,381,979	63,362	91,830	1.47
1988	1,031	52,946,735	51,355	88,893	1.69
1989	982	63,358,368	64,520	102,092	1.58
EQUIPMENT FAILURES					
1984	661	56,137,827	84,929	94,731	1.12
1985	559	47,584,553	85,124	83,349	.98
1986	433	42,162,233	97,372	74,216	.76
1987	430	38,129,194	88,673	65,591	.74
1988	512	46,491,145	90,803	76,298	.84
1989	501	43,355,891	86,539	69,861	.81
TRACK DEFECTS					
1984	1,481	84,215,013	56,864	142,111	2.50
1985	1,280	59,720,068	46,656	104,605	2.24
1986	1,016	48,459,373	47,696	85,301	1.79
1987	938	60,162,651	64,139	103,494	1.61
1988	952	58,291,881	61,231	95,665	1.56
1989	1,019	57,624,951	56,550	92,854	1.64
OTHER					
1984	658	45,145,792	68,611	76,183	1.11
1985	592	34,146,651	57,680	59,811	1.04
1986	496	39,932,928	80,510	70,292	.87
1987	423	25,511,528	60,311	43,886	.73
1988	556	33,380,872	60,038	54,782	.91
1989	578	47,708,098	82,540	76,874	.93

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

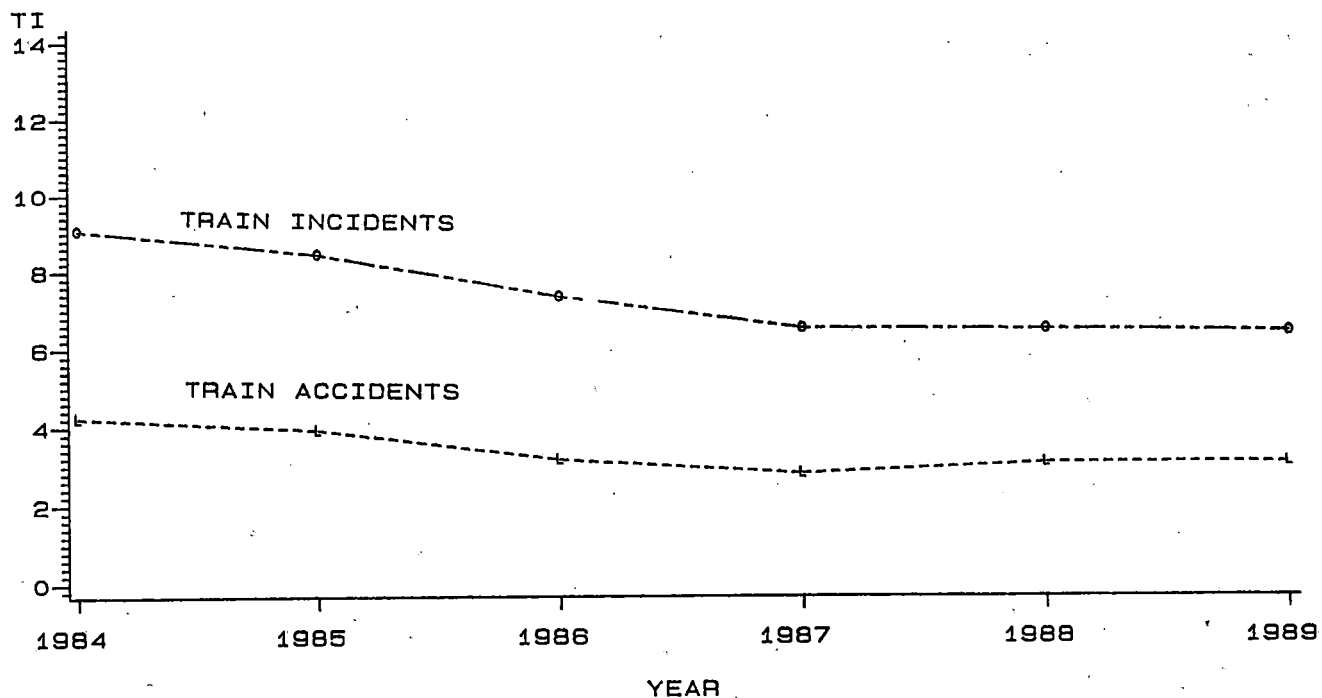


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

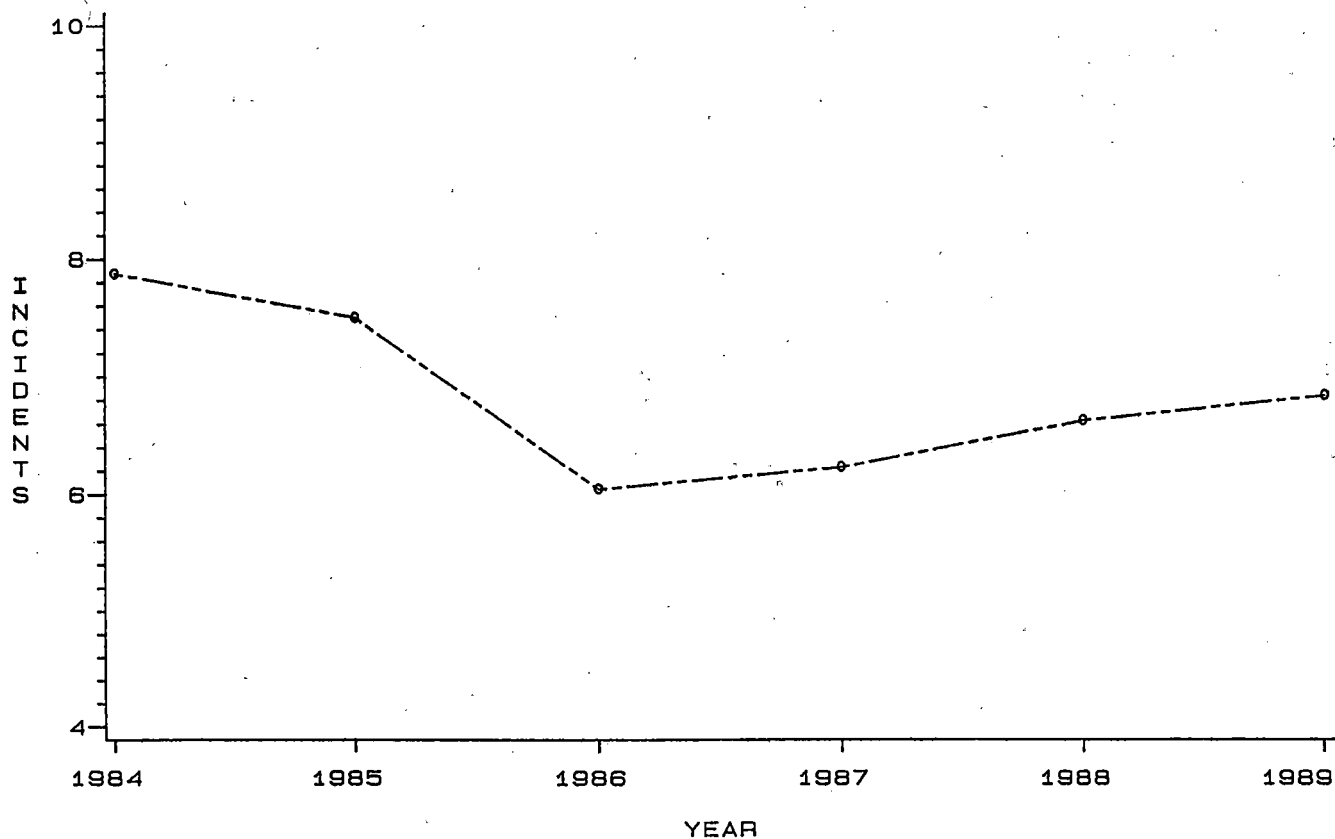


FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE 7. TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1984	3,900	8,346	29,256	41,502
1985	3,430	7,418	26,146	36,994
1986	2,761	6,407	19,455	26,623
1987	2,647	6,179	19,289	28,115
1988	3,051	6,465	20,141	27,054
1989	3,080	6,431	19,758	29,269

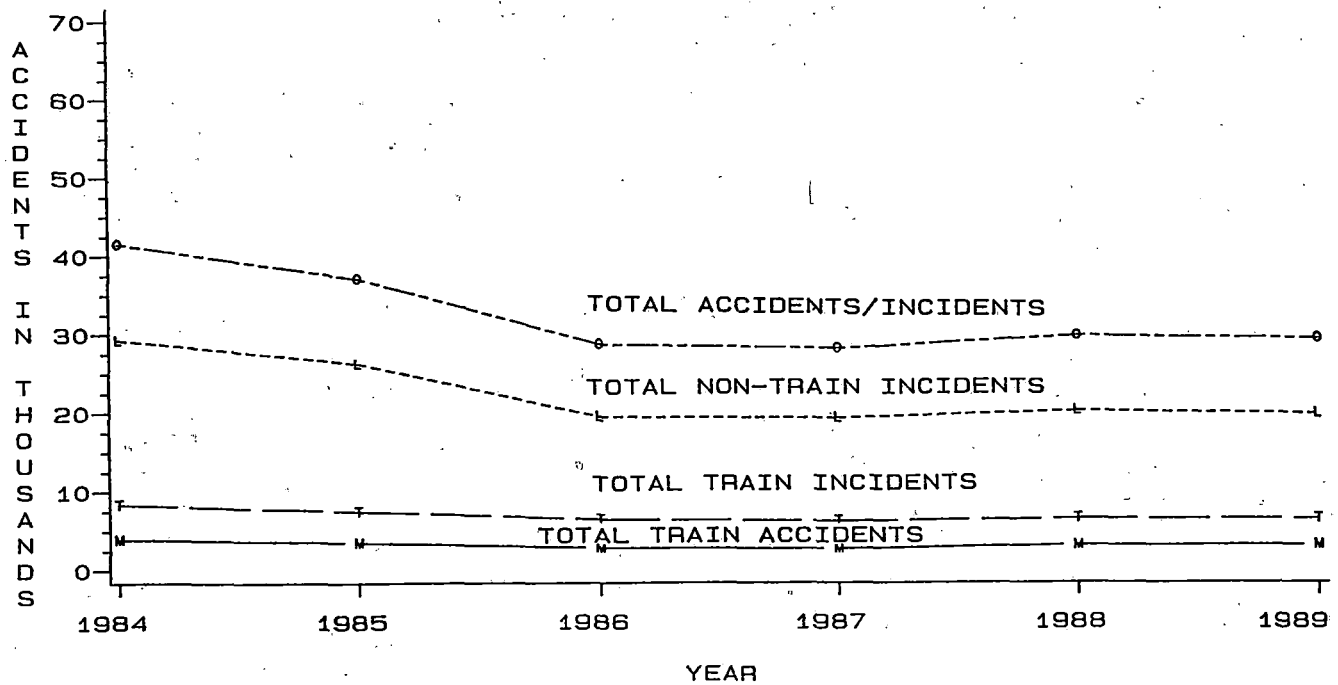


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS

CASUALTIES**TABLE 8. CASUALTIES IN ACCIDENTS/INCIDENTS**

Class of Acc/Inc by Year	.....Casualties.....			Accidents	Casualties per Million Train Miles
	Fatal	Nonfatal	Total		
TRAIN ACCIDENTS					
1984	63	893	956	3,900	1.61
1985	52	647	699	3,430	1.13
1986	51	1,117	1,168	2,761	2.06
1987	66	609	675	2,647	1.16
1988	72	622	694	3,051	1.14
1989	87	571	658	3,080	1.06
TRAIN INCIDENTS					
1984	1,118	8,245	9,363	8,346	15.80
1985	930	7,384	8,314	7,418	14.56
1986	980	6,256	7,236	6,407	12.74
1987	1,047	5,996	7,043	6,179	12.12
1988	1,073	6,291	7,364	6,465	12.09
1989	1,187	6,229	7,416	6,431	11.95
NONTRAIN INCIDENTS					
1984	66	29,432	29,498	29,256	49.78
1985	54	26,273	26,327	26,146	46.11
1986	60	19,550	19,610	19,455	34.52
1987	52	19,428	19,480	19,280	33.51
1988	54	20,141	20,195	19,878	33.14
1989	50	19,915	19,965	19,758	32.17
ALL ACCIDENTS					
1984	1,247	38,570	39,817	41,502	67.19
1985	1,036	34,304	35,340	36,994	61.90
1986	1,091	26,923	28,014	26,623	49.31
1987	1,165	26,033	27,198	28,115	46.79
1988	1,199	27,054	28,253	29,394	46.37
1989	1,324	26,715	28,039	29,269	45.18

TABLE 9. CASUALTIES BY TYPE OF PERSON

Year	Employees On Duty		Employees Not On Duty		Passengers On Trains		Nontrespassers		Trespassers		Contractor Employees	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
1984	59	33,364	5	444	12	1,000	576	2,881	588	773	7	108
1985	46	29,822	2	419	3	657	507	2,562	474	734	4	110
1986	57	22,387	2	384	4	686	505	2,639	519	706	4	121
1987	55	21,982	1	396	16	475	506	2,354	584	673	3	153
1988	43	22,573	1	427	2	337	554	2,575	598	920	1	222
1989	49	22,183	1	407	8	399	621	2,579	641	898	4	249

NOTE: "Contractor employee" casualties are shown separately in this table. In other tables they are included with "Nontrespassers".
"Inj" columns include occupational illnesses.

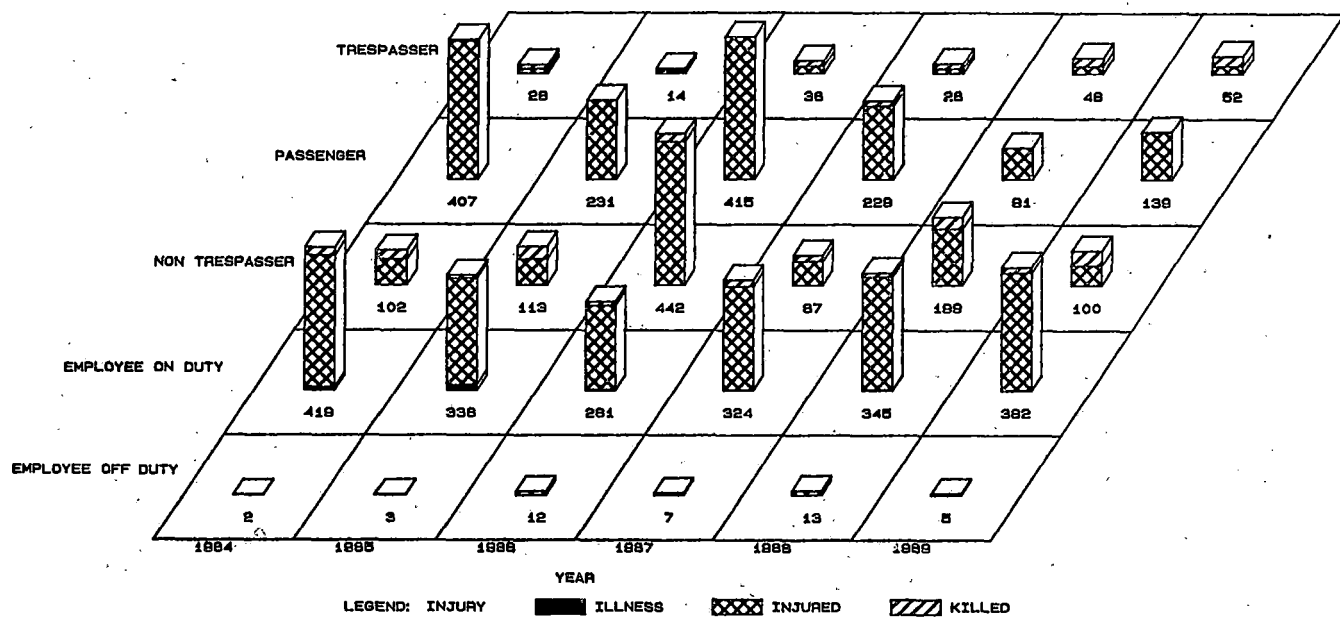


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS

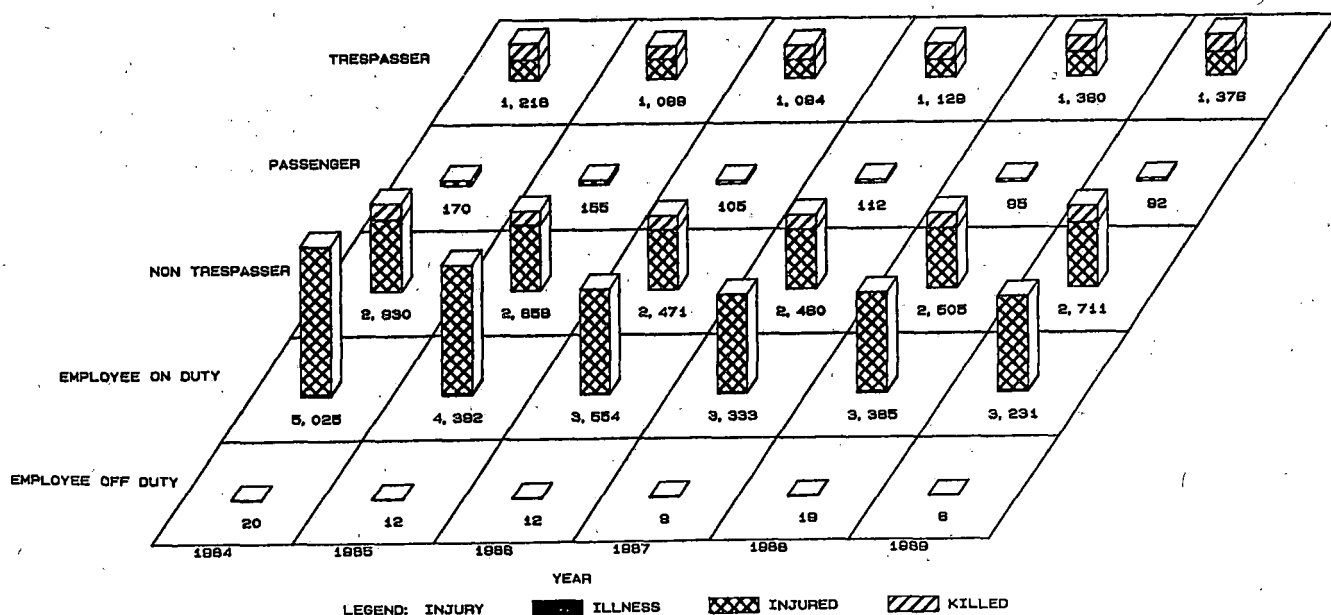


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS

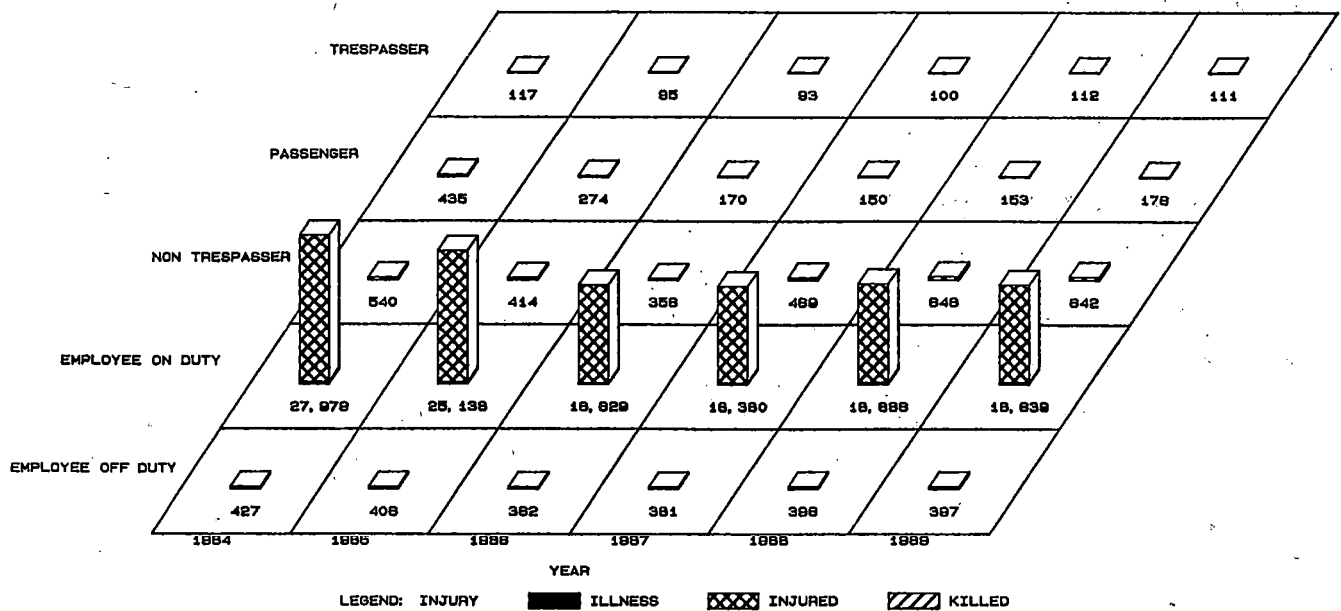


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS

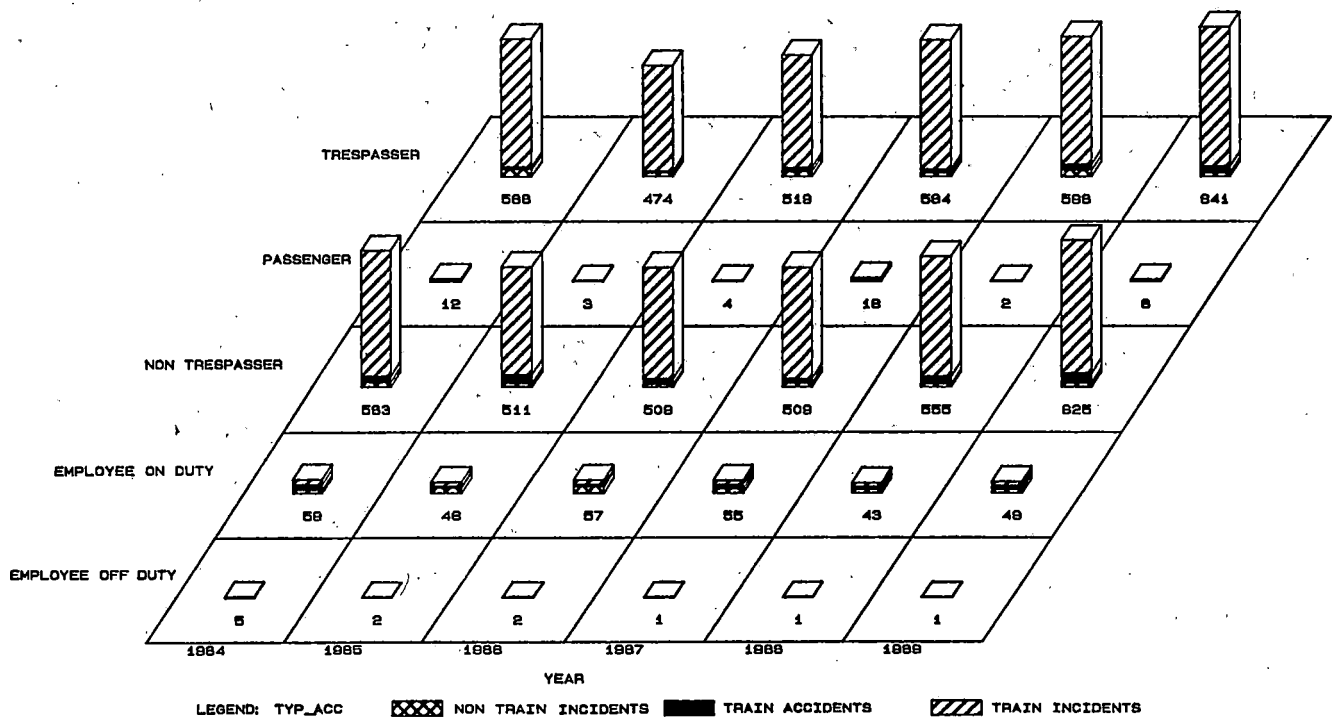


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS

2. OVERVIEW OF 1989 DATA

SPEED FACTOR IN ACCIDENTS

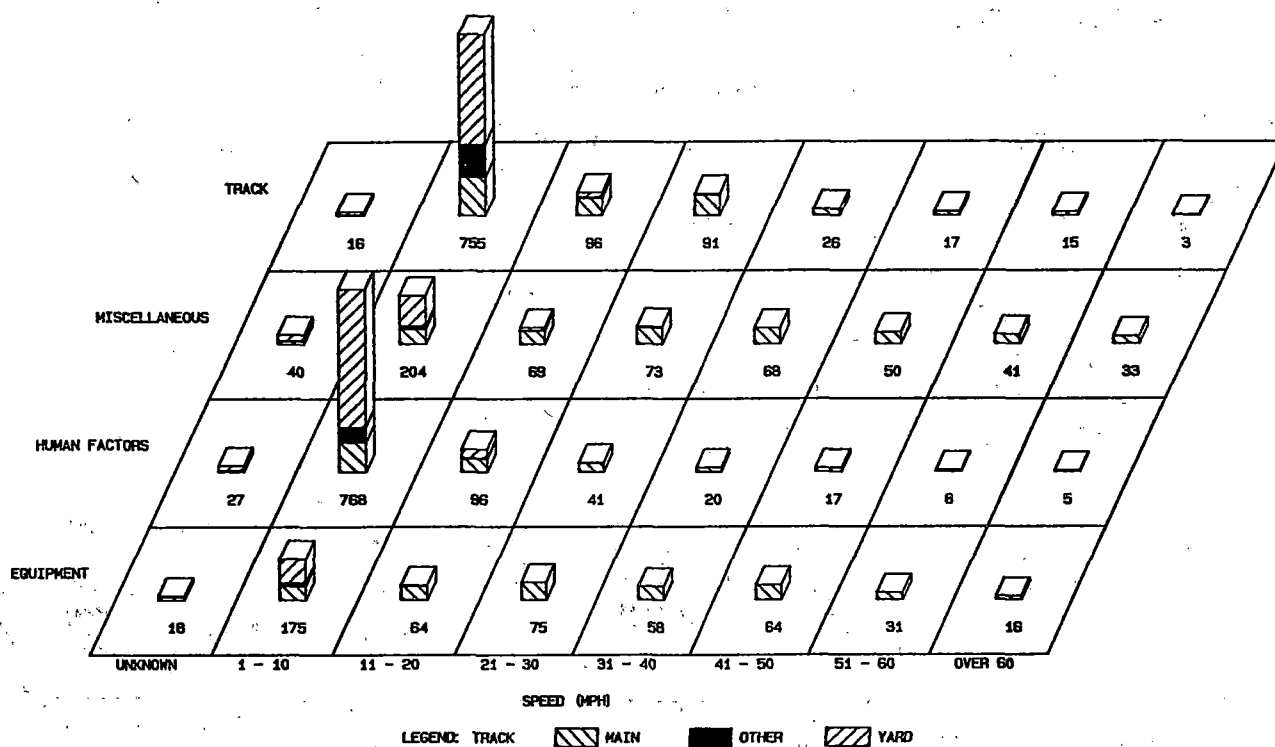


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

TABLE 10. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
ACCIDENTS ON MAIN LINE TRACK											
UNKNOWN	29	690,808	432,777	258,031	0	14	15	6	12	2	9
1-10	400	14,769,978	10,262,198	4,507,780	25	326	49	160	57	122	61
11-20	239	19,420,152	13,046,979	6,373,173	21	185	33	71	58	54	56
21-30	268	33,196,932	24,411,648	8,785,284	12	208	48	87	75	36	70
31-40	171	25,038,023	19,855,821	5,182,202	10	102	59	26	58	20	67
41-50	145	25,210,080	18,472,748	6,737,332	9	91	45	16	64	16	49
51-60	95	22,609,599	18,940,882	3,668,717	4	47	44	15	31	8	41
61-70	33	12,456,483	11,607,776	848,707	0	13	20	2	9	4	18
71-80	16	4,549,407	4,403,547	145,860	0	0	16	1	3	0	12
81-90	5	9,874,280	9,847,780	26,500	1	1	3	0	2	1	2
>=91	3	87,000	78,500	8,500	0	0	3	0	2	0	1
TOTAL	1,404	167,902,742	131,360,656	36,542,086	82	987	335	384	371	263	386
ACCIDENTS ON YARD TRACK											
UNKNOWN	59	921,567	833,824	87,743	7	20	32	10	5	20	24
1-10	1,268	30,612,289	21,337,438	9,274,851	180	865	223	459	102	579	128
11-20	69	2,520,106	1,988,445	531,661	16	34	19	19	3	36	11
21-30	5	665,042	616,042	49,000	2	1	2	0	0	4	1
31-40	1	512,018	447,018	65,000	0	0	1	0	0	0	1
41-50	1	17,280	16,500	780	0	0	1	0	0	1	0
TOTAL	1,403	35,248,302	25,239,267	10,009,035	205	920	278	488	110	640	165
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	13	451,163	405,027	46,136	3	6	4	0	1	5	7
1-10	234	4,849,321	3,762,665	1,086,656	15	195	24	136	16	67	15
11-20	17	1,329,765	1,065,965	263,800	0	15	2	6	3	6	2
21-30	7	2,233,633	1,810,633	423,000	0	5	2	4	0	1	2
41-50	2	32,382	30,882	1,500	0	1	1	1	0	0	1
TOTAL	273	8,896,264	7,075,172	1,821,092	18	222	33	147	20	79	27
FINAL	3,080	212,047,308	163,675,095	48,372,213	305	2,129	646	1,019	501	982	578

In those accidents that involve more than one moving consist, the highest reported speed appears in this table.

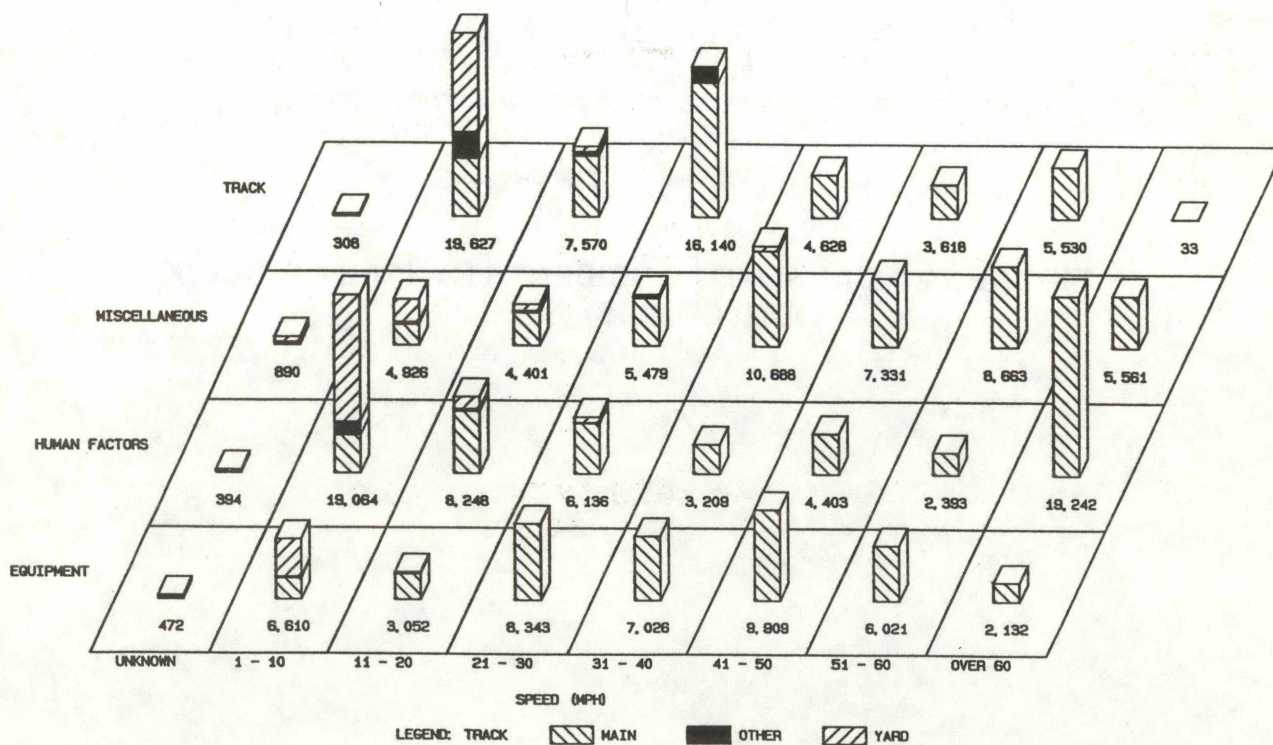


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

ACCIDENTS AND TRACK TYPE

TABLE 11. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

TRACK CLASS	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
?	193	5,424,112	3,722,808	1,701,304	33	125	35	63	18	85	27
1	1,375	35,535,676	25,729,781	9,805,895	160	988	227	559	112	546	158
2	533	30,951,456	23,377,391	7,574,065	54	383	96	188	77	176	92
3	429	55,128,584	44,755,644	10,372,940	22	304	103	139	102	74	114
4	453	65,083,153	48,977,490	16,105,663	28	283	142	59	158	87	149
5	84	18,128,064	15,438,049	2,690,015	6	44	34	9	28	13	34
6	13	1,796,263	1,673,932	122,331	2	2	9	2	6	1	4
FINAL	3,080	212,047,308	163,675,095	48,372,213	305	2,129	646	1,019	501	982	578

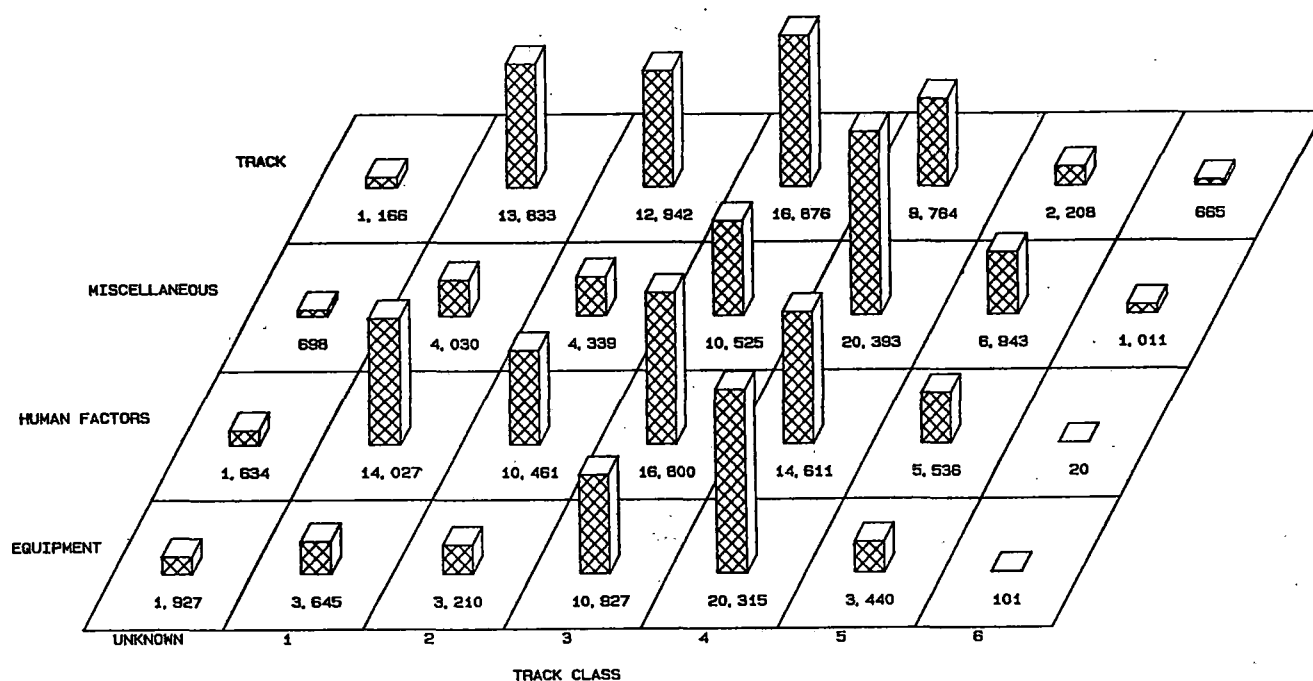


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

CAUSE BY TYPE OF ACCIDENT

TABLE 12. REPORTABLE DAMAGES IN TRAIN ACCIDENTS BY TYPE AND CAUSE

Type of Accident	...Track Caused...		...Equipment Caused...		...Human Factors...		...Other Causes...		.....Total Damage.....	
	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg
Derailement	14,955,720	41,647,388	17,081,516	23,375,597	6,346,844	33,720,848	4,501,269	11,106,644	42,885,349	109,850,477
Head on collision	---	---	---	---	97,584	3,203,707	166,500	1,069,125	264,084	4,272,832
Rear end collision	---	---	---	---	383,233	6,164,382	9,000	739,507	592,233	6,903,689
Side collision	6,400	199,483	13,450	350,156	482,396	5,054,442	43,567	1,482,622	545,813	7,086,703
Raking collision	---	---	8,500	35,988	5,176	489,219	78,560	2,267,070	92,236	2,792,277
Broken trn collisin	---	---	---	139,500	450	19,500	---	27,587	450	186,587
Rail-hwy crossing	---	---	---	---	---	---	1,913,466	19,940,283	1,913,466	19,940,283
RR grade crossing	---	---	---	---	11,500	246,500	---	---	11,500	246,500
Obstruction	23,300	16,350	34,591	24,098	136,205	1,759,345	282,969	1,695,616	477,065	3,495,409
Explosion-detonatin	---	---	---	---	---	---	---	28,000	---	28,000
Fire/violent ruptre	---	---	260,779	1,327,145	3,800	10,200	28,100	552,306	292,679	1,889,651
Other	236,440	539,870	104,716	599,855	694,576	4,528,461	461,606	1,314,501	1,497,338	6,982,687
TOTAL.....	15,221,860	42,403,091	17,503,552	25,852,339	8,161,764	55,196,604	7,485,037	40,223,061	48,372,213	163,675,095

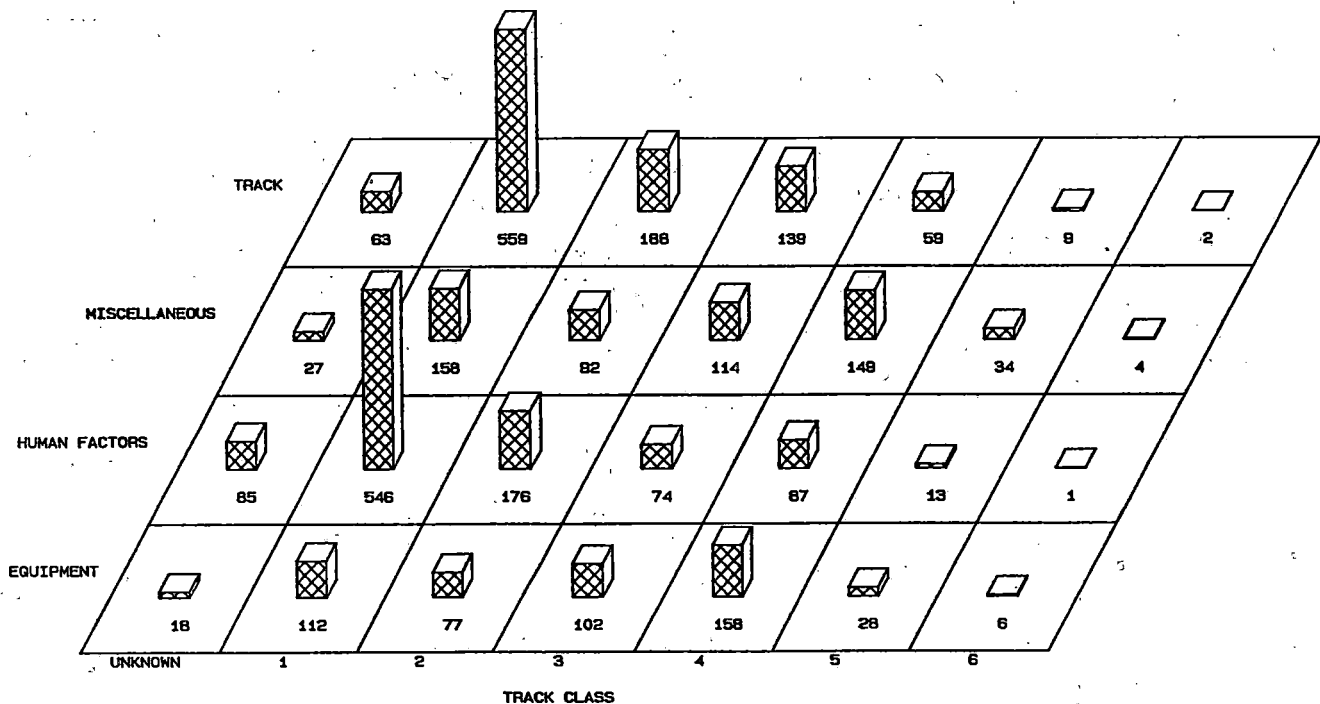


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

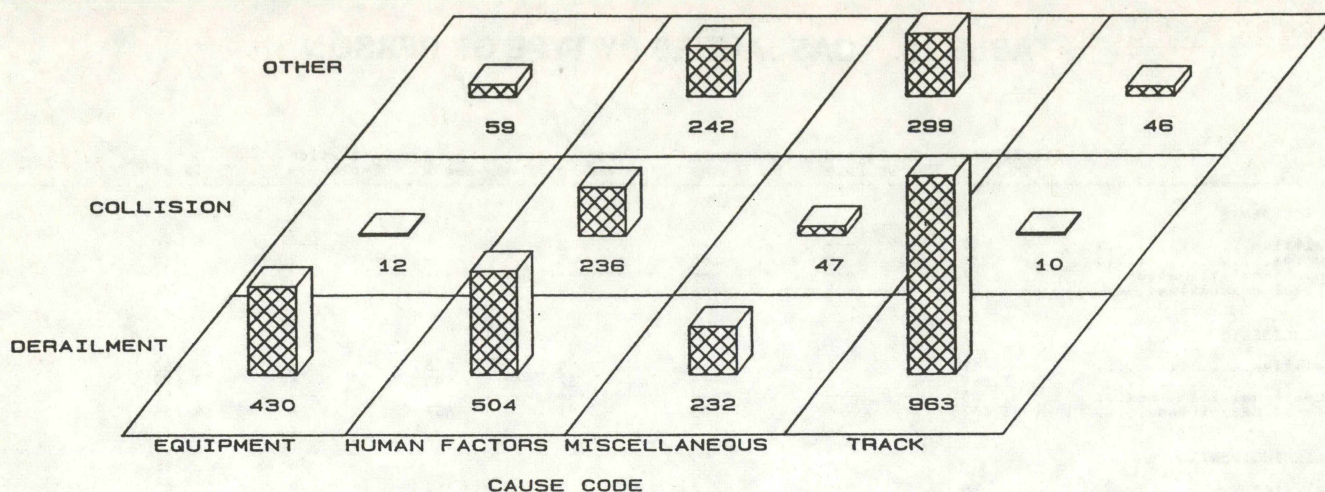
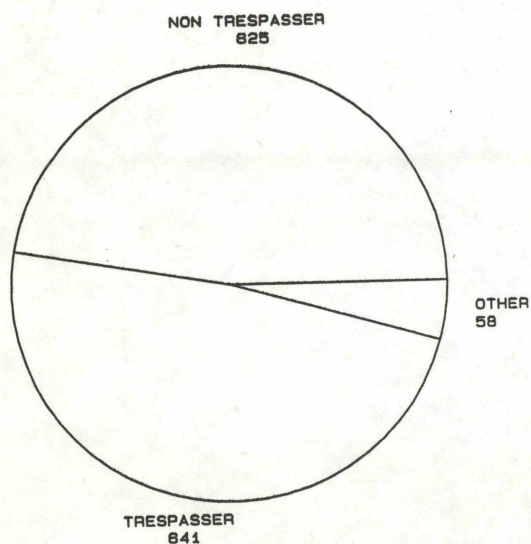
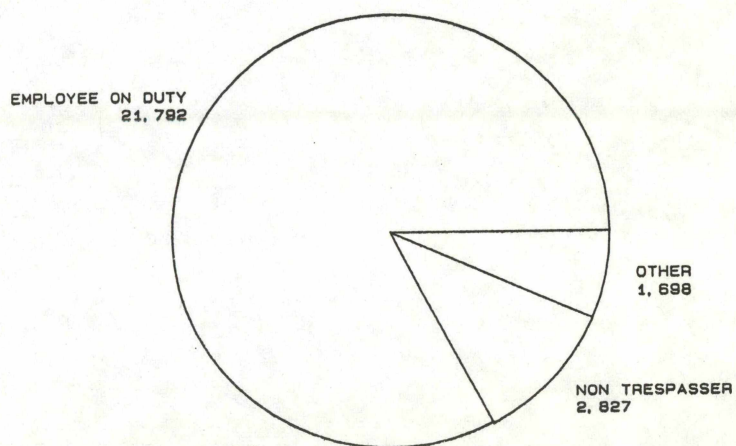


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON



**FIGURE 19A.
FATALITIES BY TYPE OF PERSON**



**FIGURE 19B.
INJURIES BY TYPE OF PERSON**

TABLE 13. CASUALTIES BY TYPE OF PERSON

	Employees On Duty	Employees Not On Duty	Passengers On Trains	Non- trespassers	Trespassers	Contractor Employees	Total
TRAIN ACCIDENTS							
Fatalities.....	12	---	---	3	1	---	16
Injuries.....	231	5	66	6	---	2	310
Occupational illnesses...	1	---	---	---	---	---	1
Total casualties.....	244	5	66	9	1	2	327
TRAIN INCIDENTS							
Fatalities.....	17	1	6	14	425	2	465
Injuries.....	3,060	5	79	37	442	6	3,629
Occupational illnesses...	60	---	---	---	---	---	60
Total casualties.....	3,137	6	85	51	867	8	4,154
NONTRAIN INCIDENTS							
Fatalities.....	16	---	2	7	15	2	42
Injuries.....	18,293	391	174	329	86	238	19,511
Occupational illnesses...	329	6	---	---	---	1	336
Total casualties.....	18,638	397	176	336	101	241	19,889
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities.....	4	---	---	597	200	---	801
Injuries.....	208	---	80	2,207	370	2	2,867
Occupational illnesses...	1	---	---	---	---	---	1
Total casualties.....	213	---	80	2,804	570	2	3,669
GRAND TOTAL							
Fatalities.....	49	1	8	621	641	4	1,324
Injuries.....	21,792	401	399	2,579	898	248	26,317
Occupational illnesses...	391	6	---	---	---	1	398
Total casualties.....	22,232	408	407	3,200	1,539	253	28,039

Contractor employees are included with nontrespassers in all other tables in this publication.

Rail-highway crossing accidents/incidents may be classified as train accidents, train incidents, or nontrain incidents. In this table these casualties are shown separately.

TABLE 14. TOTAL FATALITIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS						
Collisions	7	7	---	---	---	---
Derailments	7	4	---	---	3	---
Rail-highway x-ing	71	4	---	---	39	28
Miscellaneous	2	1	---	---	---	1
Total.....	87	16	16	---	42	29
TRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	1	1	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---
Operating hand brakes.....	1	1	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	1	1	---	---	---	---
Getting on or off cars or locomotives.....	6	1	---	---	1	3
Collisions, derailments, etc. (<= \$5,701).....	14	1	---	---	4	9
Rail-highway crossing accidents/incidents.....	722	---	---	---	550	172
Struck by/ran into loco/car(not at rr-hwy x-ing).	410	4	2	6	9	394
Servicing or maintenance of equipment.....	---	---	---	---	---	---
Maintenance of way and structures.....	---	---	---	---	---	---
Freight, baggage, express or mail.....	2	1	---	---	---	1
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	8	---	---	---	5	3
Flying or falling objects, burns, etc., N.O.C....	2	---	---	---	---	1
Operation of on-track work equipment.....	3	---	3	---	---	---
Assault.....	---	---	---	---	---	---
Other occurrences.....	17	1	1	2	---	14
Total.....	1,187	11	6	17	6	597
NONTRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	1	1	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,701).....	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	8	---	---	---	8	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	2	---	---	---	---	2
Servicing or maintenance of equipment.....	3	---	2	2	1	---
Maintenance of way and structures.....	5	---	5	5	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	2	---	---	---	1	1
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	5	---	1	1	2	1
Flying or falling objects, burns, etc., N.O.C....	9	---	---	---	1	8
Operation of on-track work equipment.....	---	---	---	---	---	---
Assault.....	2	---	2	2	---	---
Other occurrences.....	13	---	5	5	1	3
Total.....	50	1	15	16	2	15
Grand total.....	1,324	28	21	49	8	641

TABLE 15. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Injured	...Employees On Duty...	Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS									
Collisions	119	81	11		92	---	25	2	---
Derailments	134	74	15		89	5	35	5	---
Rail-highway x-ing	260	92	22		114	---	73	50	23
Miscellaneous	58	42	9		51	---	6	1	---
Total.....	571	289	57		346	5	139	58	23
TRAIN INCIDENTS									
Coupling and uncoupling locomotives or cars.....	204	197	7		204	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	39	37	2		39	---	---	---	---
Operating on or on locomotives.....	756	737	19		756	---	---	---	---
Operating rail motorcars.....	17	10	7		17	---	---	---	---
Operating hand brakes.....	103	94	9		103	---	---	---	---
Operating switches or derails.....	29	29	---		29	---	---	---	---
Contacting fixed objects while on locos or cars..	80	71	7		78	---	1	1	---
Getting on or off cars or locomotives.....	739	647	25		672	---	22	2	43
Collisions, derailments, etc. (<= \$5,701).....	124	82	30		112	1	2	1	8
Rail-highway crossing accidents/incidents.....	2,540	78	16		94	---	7	2,102	337
Struck by/ran into loco/car(not at rr-hwy x-ing).	431	33	18		51	1	---	19	360
Servicing or maintenance of equipment.....	92	4	88		92	---	---	---	---
Maintenance of way and structures.....	100	2	96		98	---	---	2	---
Freight, baggage, express or mail.....	19	7	9		16	---	3	---	---
Windows, doors, etc., on on-track equipment.....	91	65	22		87	---	4	---	---
Passenger car doors.....	4	1	1		2	---	2	---	---
Stumbling, slipping, falling, caught, N.O.C.....	249	132	68		200	---	28	5	16
Flying or falling objects, burns, etc., N.O.C....	171	142	19		161	---	3	5	2
Operation of on-track work equipment.....	73	7	65		72	---	---	1	---
Assault.....	62	56	6		62	---	---	---	---
Other occurrences.....	306	215	54		269	3	14	7	13
Total.....	6,229	2,646	568		3,214	5	86	2,145	779
NONTRAIN INCIDENTS									
Coupling and uncoupling locomotives or cars.....	493	468	25		493	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	264	216	48		264	---	---	---	---
Operating on or on locomotives.....	572	498	74		572	---	---	---	---
Operating rail motorcars.....	20	3	17		20	---	---	---	---
Operating hand brakes.....	395	366	29		395	---	---	---	---
Operating switches or derails.....	1,089	988	101		1,089	---	---	---	---
Contacting fixed objects while on locos or cars..	24	13	10		23	---	1	---	---
Getting on or off cars or locomotives.....	1,066	798	171		969	5	79	10	3
Collisions, derailments, etc. (<= \$5,701).....	---	---	---		---	---	---	---	---
Rail-highway crossing accidents/incidents.....	68	1	---		1	---	---	57	10
Struck by/ran into loco/car(not at rr-hwy x-ing).	13	2	---		2	---	---	---	11
Servicing or maintenance of equipment.....	4,648	101	4,458		4,559	48	---	41	---
Maintenance of way and structures.....	5,713	30	5,613		5,643	32	---	38	---
Freight, baggage, express or mail.....	79	20	53		73	1	2	3	---
Windows, doors, etc., on on-track equipment.....	337	149	165		314	4	6	12	1
Passenger car doors.....	13	2	6		8	---	5	---	---
Stumbling, slipping, falling, caught, N.O.C.....	2,230	873	864		1,737	172	61	236	24
Flying or falling objects, burns, etc., N.O.C....	417	212	138		350	8	2	49	8
Operation of on-track work equipment.....	87	3	84		87	---	---	---	---
Assault.....	206	50	118		168	13	6	17	2
Other occurrences.....	2,181	477	1,379		1,856	114	12	162	37
Total.....	19,915	5,270	13,353		18,623	397	174	625	96
Grand total.....	26,715	8,205	13,978		22,183	407	399	2,828	898

TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

Type Of Accident/Incident	.....Accidents/Incidents.....		
	Total	Fatal	Nonfatal
TRAIN ACCIDENTS *			
Collisions.....	305	6	39
Deraillments.....	2,129	4	56
Rail-highway crossing.....	182	55	61
Miscellaneous.....	464	2	31
Total.....	3,080	67	187
TRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	204	1	203
Coupling/uncoupling air/steam hose, safety chains.	39	---	39
Operating or on locomotives.....	733	---	733
Operating rail motorcars.....	17	---	17
Operating hand brakes.....	104	1	103
Operating switches or derails.....	29	---	29
Contacting fixed objects while on locos or cars..	81	1	80
Getting on or off cars or locomotives.....	741	6	735
Collisions, deraillments, etc. (<= \$5,701).....	100	13	87
Rail-highway crossing accidents/incidents.....	2,394	587	1,807
Struck by/ran into loco/car(not at rr-hwy x-ing).	813	400	413
Servicing or maintenance of equipment.....	92	---	92
Maintenance of way and structures.....	97	---	97
Freight, baggage, express or mail.....	21	2	19
Windows, doors, etc., on on-track equipment.....	91	---	91
Passenger car doors.....	4	---	4
Stumbling, slipping, falling, caught, N.O.C.....	255	7	248
Flying or falling objects, burns, etc., N.O.C....	166	2	164
Operation of on-track work equipment.....	73	3	70
Assault.....	62	---	62
Other occurrences.....	315	17	298
Total.....	6,431	1,040	5,391
NONTRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	492	---	492
Coupling/uncoupling air/steam hose, safety chains.	262	---	262
Operating or on locomotives.....	561	---	561
Operating rail motorcars.....	20	---	20
Operating hand brakes.....	394	---	394
Operating switches or derails.....	1,087	---	1,087
Contacting fixed objects while on locos or cars..	25	1	24
Getting on or off cars or locomotives.....	1,062	---	1,062
Collisions, deraillments, etc. (<= \$5,701).....	---	---	---
Rail-highway crossing accidents/incidents.....	58	6	52
Struck by/ran into loco/car(not at rr-hwy x-ing).	12	2	10
Servicing or maintenance of equipment.....	4,637	3	4,634
Maintenance of way and structures.....	5,706	5	5,701
Freight, baggage, express or mail.....	78	---	78
Windows, doors, etc., on on-track equipment.....	338	2	336
Passenger car doors.....	13	---	13
Stumbling, slipping, falling, caught, N.O.C.....	2,226	5	2,221
Flying or falling objects, burns, etc., N.O.C....	404	5	399
Operation of on-track work equipment.....	87	---	87
Assault.....	204	2	202
Other occurrences.....	2,092	13	2,079
Total.....	19,758	44	19,714
Grand total.....	29,269	1,151	25,292

NOTE: Train accidents do not require a casualty to be reportable.
See definition in Appendix A.

The total number of rail-highway accidents in the TRAIN ACCIDENT category only includes those that exceed the monetary threshold for reporting. Those in the TRAIN INCIDENT and NONTRAIN INCIDENT categories only include those accidents/incidents that resulted in reportable casualties.

For more information concerning rail-highway crossing accidents/incidents, refer to the "RAIL-HIGHWAY CROSSING AND INVENTORY BULLETIN."

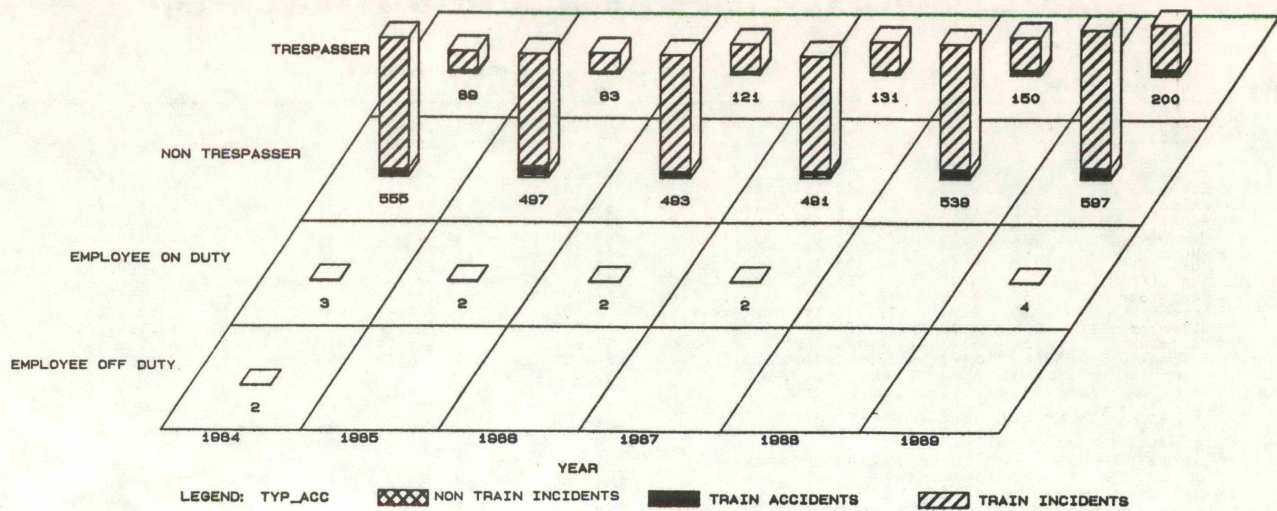


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON

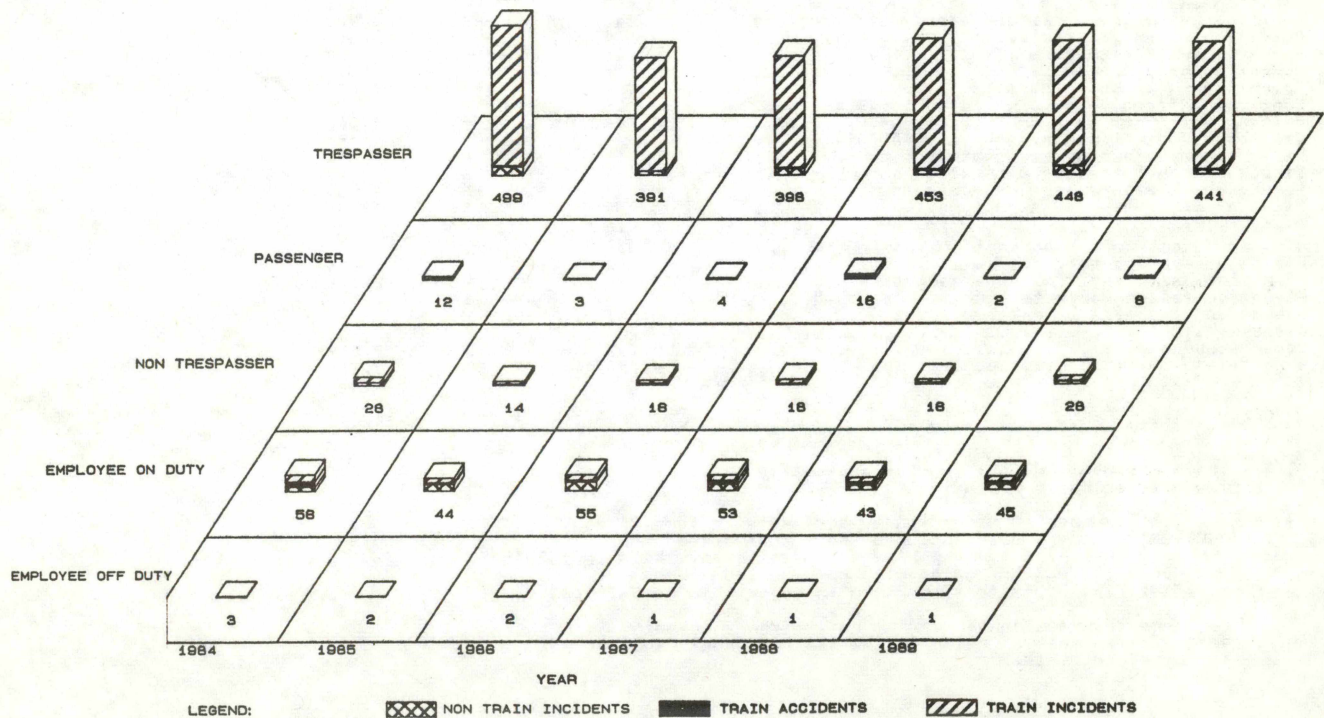


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS

TABLE 17. TRAIN ACCIDENTS BY MONTH

Month	Accs		Total Damage	Damage Per MTM	Train Miles			
	Accs	Per MTM			Locomotive	Motor	Yard Switching	Total
January	248	4.77	14,871,433	\$285,928.61	41,003,758	2,492,640	8,514,965	52,011,363
February	247	4.89	26,040,451	\$515,672.92	39,702,921	2,377,905	8,417,492	50,498,318
March	273	5.16	18,074,999	\$341,682.40	41,157,697	2,660,192	9,082,315	52,900,204
April	267	5.19	21,356,730	\$415,129.07	39,153,238	2,633,777	9,658,860	51,445,875
May	267	5.13	28,791,151	\$553,101.61	40,558,148	2,803,497	8,692,710	52,054,355
June	273	5.39	17,698,602	\$349,374.28	39,339,903	2,868,396	8,449,882	50,658,181
July	278	5.62	11,392,241	\$230,392.97	38,295,011	2,921,871	8,525,160	49,447,242
August	256	4.92	15,765,798	\$302,937.92	40,395,317	2,709,721	8,242,344	49,641,399
September	256	5.16	16,498,021	\$332,346.67	41,804,312	2,768,662	8,795,673	53,368,647
October	250	4.31	12,218,783	\$228,949.07	41,653,832	2,730,219	8,800,555	53,184,606
November	254	4.78	11,924,369	\$224,205.49	41,973,712	2,747,703	8,624,566	53,345,981
December	231	4.33	17,414,730	\$326,448.66	483,727,183	32,541,654	104,330,103	620,598,940
Total...	3,080	4.96	212,047,308	\$341,681.68				

NOTE: "MTM" = Million train miles

TABLE 18. TRAIN ACCIDENTS BY TYPE AND MONTH

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	177	170	194	179	189	187	200	189	182	138	165	159	2,129
Head on collision	2	1	1	---	4	2	1	2	4	2	3	3	25
Rear end collision	6	4	1	3	2	1	2	2	6	7	2	2	38
Side collision	13	16	14	19	16	21	18	14	13	24	16	17	201
Raking collision	3	2	5	3	4	4	3	1	2	3	3	1	34
Broken train collision	2	1	---	---	---	---	---	---	---	1	1	---	5
Rail-hwy crossing	7	12	16	15	12	20	12	10	15	25	25	13	182
RR grade crossing	---	---	---	---	---	---	---	1	---	1	---	---	2
Obstruction	4	6	7	1	5	8	5	4	2	6	12	5	65
Explosion-detonation	---	---	---	---	---	---	---	---	1	---	---	---	1
Fire or violent rupture	3	2	5	3	5	6	4	5	3	1	4	3	44
Other	32	33	30	44	30	24	33	28	28	22	23	27	354
Total	249	247	273	267	267	273	278	256	256	230	254	230	3,080

3. ACCIDENTS: DETAILS OF 1989 OCCURRENCES

TABLE 19. TRAIN ACCIDENTS AND DAMAGES BY PRINCIPAL CAUSES AND SUBCAUSES

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
TRACK, ROADBED AND STRUCTURES						
Roadbed defects	52	6,435,675	---	49	3	---
Track geometry defects	428	20,076,938	1	419	8	---
Rail and joint bar defects	230	21,370,126	3	226	1	---
Frogs, switches and track appliances	278	9,054,161	5	259	14	---
Other way and structure	16	326,660	---	3	13	---
Signal and communication failures	15	361,391	1	7	7	---
Subtotal.....	1,019	57,624,951	10	963	46	---
MECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
Brakes	3	206,656	2	1	---	---
Body	---	---	---	---	---	---
Coupler and draft system	---	---	---	---	---	---
Truck components	3	21,635	---	3	---	---
Axles and journal bearings	4	444,890	---	4	---	---
Wheels	5	105,686	---	4	1	---
Locomotives	20	1,525,438	1	3	16	---
Doors	---	---	---	---	---	---
General mechanical and electrical failures	4	97,500	---	---	4	---
Subtotal (Locomotives)...	39	2,401,805	3	15	21	---
CAR FAILURE						
Brakes	53	4,122,889	1	46	6	---
Trailer or container on flat car	5	229,811	2	2	1	---
Body	39	3,172,565	1	29	9	---
Coupler and draft system	55	4,380,070	4	43	8	---
Truck components	92	5,917,741	1	90	1	---
Axles and journal bearings	94	12,270,585	---	92	2	---
Wheels	101	9,664,411	---	100	1	---
Doors	6	376,441	---	6	---	---
General mechanical and electrical failures	17	819,573	---	7	10	---
Subtotal (cars).....	462	40,954,086	9	415	38	---
TOTAL EQUIPMENT FAILURES....	501	43,355,891	12	430	59	---
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of	144	7,978,834	56	51	37	---
Employee physical condition	6	1,631,438	4	---	2	---
Flagging, fixed, hand and radio signals	33	4,230,219	14	9	10	---
Other rules and instructions	252	10,764,490	98	57	97	---
Speed	93	22,249,200	16	54	23	---
Switches, use of	146	3,580,484	25	100	21	---
Miscellaneous	308	12,923,703	23	233	52	---
Subtotal.....	982	63,358,368	236	504	242	---
MISCELLANEOUS FACTORS						
Collision with highway user at crossing site	181	21,778,749	---	---	---	181
Emergency brake application to avoid accident	8	510,670	---	7	1	---
Vandalism	46	2,857,476	6	32	8	---
Interference with rr operation, not vandals	13	248,863	4	5	4	---
Load shifted	13	2,003,525	3	9	1	---
Load fell from car	4	169,612	---	3	1	---
Overloaded car	5	170,920	---	5	---	---
Improperly loaded car	11	1,401,775	---	11	---	---
Oversized load, misrouted	10	451,740	4	---	6	---
Object on or fouling track	32	1,264,927	---	12	20	---
Equipment on or fouling track	13	272,800	3	2	7	1
Trail/container tiedown eqp impr applied	3	74,500	---	1	2	---
Overload/improper loaded container etc.	4	149,555	1	3	---	---
Interaction of lateral/vertical forces	80	6,556,014	1	78	1	---
Failure to control car spd with hand brk	3	192,100	---	2	1	---
Snow, ice, or mud on track	6	95,104	---	5	1	---
Other acts of God	15	2,553,006	2	10	3	---
Fire, not due to vandalism	22	573,406	---	---	22	---
Hump retarder failed to slow car	44	996,879	17	11	16	---
Switch fouled by lading chains, etc.	2	32,920	---	2	---	---
Other causes	63	5,353,557	6	34	23	---
Subtotal.....	578	47,708,098	47	232	117	182
GRAND TOTAL.....	3,080	212,047,308	305	2,129	464	182

**TABLE 20. TRAIN ACCIDENTS RESULTING FROM HUMAN FACTORS
BY SPECIFIC CAUSES**

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
BRAKES, USE OF						
500 Automatic brake, improper use	16	2,095,160	2	13	1	---
501 Dynamic brake, improper use	4	575,450	---	4	---	---
502 Failure to secure engine (R.R. emp.)	16	1,319,385	10	2	4	---
503 Failure to secure hnd brk (R.R. emp.)	31	979,876	14	6	11	---
504 Failure to apply sufficient hand brake	28	606,204	15	3	10	---
505 Failure to apply hnd brk on car (emp.)	17	437,145	9	4	4	---
506 Fail. to secure eng/car (Non R.R. emp.)	4	104,069	3	1	---	---
507 Independent (eng.) brake, improper use	11	383,934	1	10	---	---
508 Fail. to control spd/hnd brk (R.R. emp.)	5	120,268	---	1	4	---
509 Other causes involving use of brakes	12	1,357,343	2	7	3	---
SUBTOTAL.....	144	7,978,834	56	51	37	---
EMPLOYEE PHYSICAL CONDITION						
510 Impairment due to alcohol or drugs	2	68,300	---	---	2	---
513 Employee falling asleep	4	1,563,138	4	---	---	---
SUBTOTAL.....	6	1,631,438	4	---	2	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
519 Fixed signal improperly displayed	1	56,000	---	1	---	---
52A Block signal, failure to comply	5	2,201,620	4	1	---	---
52B Interlocking signal, failure to comply	1	212,500	1	---	---	---
52C Automatic cab signal, failure to compl	---	1,800	---	---	---	---
520 Fixed signal, failure to comply	5	1,371,402	4	1	---	---
524 Hand signal improper	1	50,678	---	---	1	---
525 Hand signal, failure to give/receive	1	22,000	1	---	---	---
526 Radio communication, failure to comply	3	62,640	---	---	3	---
527 Radio communication, improper	4	33,250	1	2	1	---
528 Radio comm., failure to give/receive	11	197,579	3	3	5	---
529 Flagging, fixed, hand & radio (other)	1	20,750	---	1	---	---
SUBTOTAL.....	33	4,230,219	14	9	10	---
OTHER RULES AND INSTRUCTIONS						
530 Car(s) shoved out & left out of clear	11	399,747	4	1	6	---
531 Cars left foul	33	442,399	8	7	18	---
532 Derail, failure to apply or remove	13	281,134	---	12	1	---
533 Failure to stop train in clear	21	358,770	12	3	6	---
535 Instruction to trn/yard crew improper	11	708,857	9	1	1	---
536 Mtr car/on-trk eqp rules, fail to comply	16	1,833,244	2	---	14	---
537 Equip move without authority (RR emp.)	7	246,609	5	---	2	---
538 Shoving move, missing man at lead	76	1,760,127	32	18	26	---
539 Shoving movement, fail to control	27	511,941	11	6	10	---
540 Skate, failure to remove or place	3	24,000	---	1	2	---
541 Special op. instr., failure to comply	12	603,075	3	5	4	---
542 Trn ord/timetable auth, fail to comply	2	22,099	2	---	---	---
543 Trn ord(radio)err in prep/trans/deliv	1	2,697,500	1	---	---	---
549 Rules and instructions, other	19	854,988	9	3	7	---
SUBTOTAL.....	252	10,764,490	98	57	97	---

TABLE 20. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
SPEED						
550 Coupling speed excessive	38	1,209,130	5	21	12	---
553 Switch movement, excessive speed	16	2,208,760	4	8	4	---
554 Trn inside yrd limit, excess speed	11	752,681	6	3	2	---
555 Trn out yrd limit,clear blk,excess spd	15	13,218,721	1	13	1	---
559 Other Causes involving excessive speed	13	4,859,908	---	9	4	---
SUBTOTAL.....	93	22,249,200	16	54	23	---
SWITCHES, USE OF						
560 Spring switch not clear before reverse	6	107,220	---	6	---	---
561 Switch improperly lined	74	1,887,198	21	35	18	---
562 Switch not latched or locked	10	150,775	---	10	---	---
563 Switch previously run through	42	923,102	2	40	---	---
569 Use of switches, other	14	512,189	2	9	3	---
SUBTOTAL.....	146	3,580,484	25	100	21	---
MISCELLANEOUS						
570 Buffing or slack action excessive	144	5,412,112	2	132	10	---
571 Failure to couple	6	75,300	2	3	1	---
572 Lateral drawbar force on curve excess	35	1,979,010	---	34	1	---
573 Moving car,loading ramp not positioned	1	19,000	---	---	1	---
574 Passed couplers	39	1,128,024	1	26	12	---
575 Retarder, improper manual operation	19	439,514	2	9	8	---
576 Retarder yard skate improperly applied	5	101,860	2	1	2	---
599 Other train operation/human factors	59	3,768,883	14	28	17	---
SUBTOTAL.....	308	12,923,703	23	233	52	---
GRAND TOTAL.....	982	63,358,368	236	504	242	---

TABLE 21. TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
BRAKES						
400 Air hose uncoupled or burst	11	462,144	---	11	---	---
402 Broken brake pipe or connections	1	34,000	---	1	---	---
403 Obstructed brake pipe	2	58,086	---	2	---	---
404 Other brake component failure, etc.	3	117,941	---	3	---	---
405 Brk valve malfn (undesired emergency)	3	619,475	---	3	---	---
406 Brake valve malfunction/stuck brake/etc	5	120,379	---	4	1	---
407 Rigging down or dragging	12	1,215,912	---	11	1	---
408 Hand brake/gear broken or defective	1	28,550	---	---	1	---
408L Hand brk/gear broken/defective - loco	1	182,856	1	---	---	---
409 Hand brk linkage/connections failure	4	64,700	1	1	2	---
410 Other brake failure(not on locomotive)	11	1,401,702	---	10	1	---
410L Other brake failure - locomotive	2	23,800	1	1	---	---
SUBTOTAL.....	56	4,329,545	3	47	6	---
TRAILER OR CONTAINER ON FLAT CAR						
411 Broken or defective tiedown equipment	1	55,661	---	1	---	---
412 Broken or defective container	1	19,400	1	---	---	---
413 Broken or defective trailer	1	81,750	1	---	---	---
419 Oth trailer/container on flat car fail	2	73,000	---	1	1	---
SUBTOTAL.....	5	229,811	2	2	1	---
BODY						
420 Body bolster broken or defective	2	129,670	---	2	---	---
421 Center sill broken or bent	10	1,239,685	---	6	4	---
422 Draft sill broken or bent	3	47,967	---	1	2	---
423 Center plate broken or defective	4	1,032,750	---	4	---	---
424 Center plate disengaged from truck	14	572,638	---	13	1	---
425 Center pin broken or missing	2	17,067	---	2	---	---
426 Center plate attachment defective	1	100,000	---	1	---	---
427 Side sill broken	1	15,000	---	---	1	---
429 Other causes due to body (not loco)	2	17,788	1	---	1	---
SUBTOTAL.....	39	3,172,565	1	29	9	---
COUPLER AND DRAFT SYSTEM						
430 Knuckle broken or defective	10	665,279	3	5	2	---
431 Coupler mismatch, high/low	8	119,954	---	5	3	---
432 Coupler drawhead broken or defective	3	33,460	1	1	1	---
433 Coupler retainer pin/cross key missing	6	1,039,211	---	6	---	---
434 Draft gear/mechanism broken/defective	11	271,471	---	10	1	---
435 Coupler carrier broken or defective	3	70,200	---	3	---	---
436 Coupler shank broken or defective	5	1,020,084	---	4	1	---
439 Other coupler and draft system causes	9	1,160,411	---	9	---	---
SUBTOTAL.....	55	4,380,070	4	43	8	---
TRUCK COMPONENTS						
440 Side bearing clearance improper	31	2,415,245	---	31	---	---
441 Side bearing(s) broken	2	99,416	---	2	---	---
442 Side bearing(s) missing	1	20,000	---	1	---	---
443L Truck bolster broken - locomotive	1	6,000	---	1	---	---
445 Truck (stiff/improper lateral)	37	1,812,215	1	35	1	---
445L Truck (stiff/improper lateral) - loco	1	6,198	---	1	---	---
446 Defective snubbing	3	222,609	---	3	---	---
447 Broken/missing/defective springs	2	130,221	---	2	---	---
447L Broken/missing/defective springs-loco	1	9,437	---	1	---	---
449 Other truck component causes	16	1,218,035	---	16	---	---
SUBTOTAL.....	95	5,939,376	1	93	1	---

TABLE 21. (CONTINUED)

Cause Of Accident	Accidents	Damage	Collisions	Derailments	Other	Rail Hwy Crossing
AXLES AND JOURNAL BEARINGS						
450 Broken or bent between wheel seats	3	372,709	---	3	---	---
450L Broken/bent between wheel seats-loco	1	409,590	---	1	---	---
451 Journal (plain) failure - overheating	21	2,919,671	---	19	2	---
451L Journal (plain) failure-overheat(loco)	1	13,000	---	1	---	---
452 Journal (R. B.) failure - overheating	61	7,957,867	---	61	---	---
453 Journal fractured, new cold break	2	75,400	---	2	---	---
454 Journal fract., cold brk(prev. O.heat)	2	174,100	---	2	---	---
459 Axles and journal bearings (other)	5	770,838	---	5	---	---
459L Axles/journal bearings (other) - loco	2	22,300	---	2	---	---
SUBTOTAL.....	98	12,715,475	---	96	2	---
WHEELS						
460 Broken flange	4	372,200	---	4	---	---
461 Broken rim	19	3,592,054	---	19	---	---
461L Broken rim - locomotive	1	41,600	---	---	1	---
462 Broken plate	12	2,465,997	---	12	---	---
463 Broken hub	4	104,212	---	4	---	---
464 Horn flange	23	721,925	---	22	1	---
464L Horn flange - locomotive	2	35,200	---	2	---	---
465 Horn thread	3	100,150	---	3	---	---
465L Horn thread - locomotive	1	20,000	---	1	---	---
466 Damaged flange or tread, flat	5	103,851	---	5	---	---
467 Loose wheel	8	1,297,550	---	8	---	---
468 Thermal crack, flange or tread	3	111,218	---	3	---	---
469 Other causes involving wheels-not loco	20	795,254	---	20	---	---
469L Other causes involving wheel - loco	1	8,886	---	1	---	---
SUBTOTAL.....	106	9,770,097	---	104	2	---
LOCOMOTIVES						
470L Running gear failure - locomotive	1	20,000	---	1	---	---
471L Traction motor failure - locomotive	3	290,500	---	1	2	---
472L Crank case/air box explosion - loco	1	30,500	---	---	1	---
473L Oil fire - locomotive	2	233,768	---	---	2	---
474L Electrically caused fire - locomotive	6	874,677	---	---	6	---
479L Other causes involving locomotives	7	75,993	1	1	5	---
SUBTOTAL.....	20	1,525,438	1	3	16	---
DOORS						
485 Bottom outlet car door open	2	25,500	---	2	---	---
486 Bottom outlet car door attach defect.	3	334,441	---	3	---	---
489 Other causes involving doors	1	16,500	---	1	---	---
SUBTOTAL.....	6	376,441	---	6	---	---
GENERAL MECHANICAL AND ELECTRICAL FAILURES						
499 General mech/elect failures-not loco	17	819,573	---	7	10	---
499L General mech/elect failures - loco	4	97,500	---	---	4	---
SUBTOTAL.....	21	917,073	---	7	14	---
GRAND TOTAL.....	501	43,355,891	12	430	59	---

TABLE 22. TRAIN ACCIDENTS RESULTING FROM DEFECTS IN TRACK, ROADBED, AND STRUCTURES

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
ROADBED DEFECTS						
101 Roadbed settled or soft	26	2,379,872	---	26	---	---
102 Washout/rain/slide/ice,etc. dmg to trk	18	3,367,984	---	16	2	---
109 Other roadbed defects	8	687,819	---	7	1	---
SUBTOTAL.....	52	6,435,675	---	49	3	---
TRACK GEOMETRY DEFECTS						
110 Wide gage (defect/missing crossties)	208	4,901,418	1	203	4	---
111 Wide gage (def/missing rail fasteners)	23	1,149,218	---	23	---	---
112 Wide gage (involving gage rods)	4	74,379	---	3	1	---
113 Wide gage due to worn rail	14	272,837	---	14	---	---
114 Track alignment irregular	22	1,622,102	---	20	2	---
115 Track alignment irregular (buckled)	31	2,903,100	---	31	---	---
116 Track profile improper	2	313,540	---	2	---	---
117 Superelevation incorrect	9	1,369,862	---	9	---	---
118 Superelevation runoff improper	4	463,732	---	4	---	---
119 Cross level irregular at joints	44	2,250,175	---	43	1	---
120 Cross level irregular not at joints	42	2,586,502	---	42	---	---
129 Other track geometry defects	25	2,170,073	---	25	---	---
SUBTOTAL.....	428	20,076,938	1	419	8	---
RAIL AND JOINT BAR DEFECTS						
130 Bolt hole crack or break	16	2,218,190	---	16	---	---
131 Broken base of rail	37	2,027,143	---	37	---	---
132 Broken weld, field	3	535,713	---	3	---	---
133 Broken weld, plant	1	117,505	---	1	---	---
134 Detail fracture fm shelling/head check	15	3,945,978	---	14	1	---
136 Head/web sep.(outside joint bar limit)	24	1,298,068	---	24	---	---
137 Head/web sep.(within joint bar limits)	8	403,433	---	8	---	---
138 Horizontal split head	8	827,052	---	8	---	---
139 Piped rail	1	8,000	---	1	---	---
141 Transverse/compound fissure	48	5,278,297	1	47	---	---
142 Vertical split head	21	1,755,492	---	21	---	---
143 Worn rail	14	664,401	1	13	---	---
144 Mismatched rail-head contour	4	86,394	---	4	---	---
146 Joint bar broken, insulated	1	9,000	---	1	---	---
147 Joint bar broken, noninsulated	6	1,216,250	---	6	---	---
148 Joint bolts, broken or missing	3	95,730	---	3	---	---
149 Other rail and joint bar defects	20	883,480	1	19	---	---
SUBTOTAL.....	230	21,370,126	3	226	1	---

TABLE 22. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
FROGS, SWITCHES AND TRACK APPLIANCES						
160	Guard rail loose/broken/etc.	3	154,208	---	3	---
161	Switch damaged/out of adjustment	84	1,974,941	---	82	2
162	Switch stand failure (hand oper.)	12	317,235	1	11	---
163	Switch connecting/oper. rod fail.	3	1,376,681	---	3	---
164	Stock rail worn/broken/disconnect	8	309,306	---	8	---
165	Switch point worn or broken	120	3,292,039	1	114	5
166	Switch rod worn/bent/broken/etc.	4	587,342	---	4	---
167	Frog, rigid, worn or broken	2	25,400	---	2	---
168	Frog, spring, worn or broken	1	45,775	---	1	---
169	Frog, self guarded, worn/broken	2	17,400	---	2	---
173	Retarder worn/broken/malfunction	4	48,431	1	2	1
174	Spring/power switch mech. malfunction	10	405,577	---	6	4
175	Retarder yard skate defective	2	79,780	1	1	---
176	Switch out of adjust.(insuf rail anch)	7	115,555	1	6	---
179	Other frog/switches/track appl. causes	16	304,491	---	14	2
SUBTOTAL.....		278	9,054,161	5	259	14
OTHER WAY AND STRUCTURES						
180	Bridge misalignment or failure	1	11,200	---	---	1
181	Flangeway clogged	2	64,427	---	1	1
189	Other way and structure causes	13	251,033	---	2	11
SUBTOTAL.....		16	326,660	---	3	13
SIGNAL AND COMMUNICATION FAILURES						
200	Fix sig. improperly displayed (defect)	1	33,150	---	1	---
201	Radio communication equipment failure	1	59,941	---	1	---
202	Other communication equipment failure	5	46,500	---	1	4
209	Signal & communication failure N.O.C.	8	221,800	1	4	3
SUBTOTAL.....		15	361,391	1	7	7
GRAND TOTAL.....		1,019	57,624,951	10	963	46

TABLE 23. TRAIN ACCIDENTS RESULTING FROM MISCELLANEOUS CAUSES BY SPECIFIC CAUSE

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
MISC CAUSES NOT OTHERWISE LISTED						
700 Collision with hwy user at grade xing	181	21,778,749	---	---	---	181
701 Emergency brk appl to avoid accident	8	510,670	---	7	1	---
702 Vandalism	46	2,857,476	6	32	8	---
703 Interference with RR oper.-not vandals	13	248,863	4	5	4	---
704 Load shifted	13	2,003,525	3	9	1	---
705 Load fell from car	4	169,612	---	3	1	---
706 Overloaded car	5	170,920	---	5	---	---
707 Improperly loaded car	11	1,401,775	---	11	---	---
708 Oversized load, misrouted	10	451,740	4	---	6	---
709 Object on or fouling track	32	1,264,927	---	12	20	---
710 Equipment on or fouling track	13	272,800	3	2	7	1
711 Trail/container tiedown eqp-impr applied	3	74,500	---	1	2	---
712 Overload/improper loaded container etc	4	149,555	1	3	---	---
713 Interaction of lateral/vertical forces	80	6,556,014	1	78	1	---
714 Failure to control spd with hand brake	3	192,100	---	2	1	---
715 Snow, ice, or mud on track	6	95,104	---	5	1	---
716 Other acts of God	15	2,553,006	2	10	3	---
717 Fire, other than vandalism, involving	22	573,406	---	---	22	---
718 Hump retarder failed to sufficiently s	44	996,879	17	11	16	---
719 Objects such as lading chains or strap	2	32,920	---	2	---	---
799 Other miscellaneous causes	63	5,353,557	6	34	23	---
SUBTOTAL.....	578	47,708,098	47	232	117	182
GRAND TOTAL.....	578	47,708,098	47	232	117	182

TABLE 24. DAMAGES TO RAIL EQUIPMENT IN TRAIN ACCIDENTS BY CONSIST TYPE

Type of consist	....Collisions....		...Derailments....		.....Other.....		..Rail-Hwy X-ing..		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Freight train....	168	14,453,617	1,512	97,539,431	157	4,041,210	114	13,348,812	1,951	129,383,070
Passenger train..	14	419,897	23	4,027,482	58	2,602,437	47	5,739,488	142	12,789,304
Mixed train.....	1	4,325	1	17,650	---	---	---	---	2	21,975
Work train.....	5	288,918	12	304,140	---	---	2	6,000	19	599,058
Single car.....	33	515,375	13	160,878	76	1,716,055	3	93,000	125	2,485,308
Cut of cars.....	102	1,901,174	78	1,116,469	68	1,352,341	2	15,500	250	4,385,484
Yard/switching...	168	2,357,523	466	6,461,510	150	2,277,879	5	90,577	789	11,187,489
Light loco(s)....	57	1,547,759	22	222,917	27	405,825	5	646,906	111	2,823,407
Unknown.....	---	---	---	---	---	---	---	---	---	---
Total.....	548	21,488,588	2,127	109,850,477	536	12,395,747	178	19,940,283	3,389	163,675,095

NOTE: "Number" represents the number of consists sustaining damage

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

The information in this section represents only those accidents involving consists that contained at least one car carrying hazardous materials. The number of accidents, resulting damages, or casualties may or may not be attributable to the presence of these cars in the consists. While this does not represent a complete accounting of all hazardous materials releases, it does provide some insight into the extent of hazardous materials car involvement in train accidents.

TABLE 25. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	.....Cars..... In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
Derailement	404	28,200	2,848	527	74	10,002	30,051,947
Head on collision	4	395	79	---	---	---	1,071,200
Rear end collision	6	468	27	4	3	3,500	2,307,398
Side collision	37	2,153	154	33	1	95	780,304
Raking collision	8	530	36	6	2	---	979,600
Broken train collision	2	274	6	---	---	---	139,500
Rail-hwy crossing	22	1,563	159	23	---	250	5,510,759
RR grade crossing	1	116	17	1	---	---	35,000
Obstruction	3	233	25	---	---	---	40,785
Explosion-detonation	1	5	1	1	1	35	28,000
Fire or violent rupture	2	197	4	---	---	---	47,000
Other	40	2,171	133	41	3	40	739,923
Total	530	36,305	3,489	636	84	13,922	41,731,416

TABLE 26. TRAIN ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

Year	Total Number Of Accidents	Accidents In Which A Hazmat Car Was Damaged Or Derailed	Accidents In Which There Was A Release Of Hazardous Materials	Accident Which Resulted In Evacuation
1984	436	237	54	17
1985	415	245	54	22
1986	364	185	51	32
1987	351	186	50	28
1988	475	237	44	32
1989	517	251	55	28

NOTE: An accident may appear in pre than one column. For example, an accident that resulted in a release would also be included in the count of accidents that resulted in a hazardous materials car being damaged or destroyed.

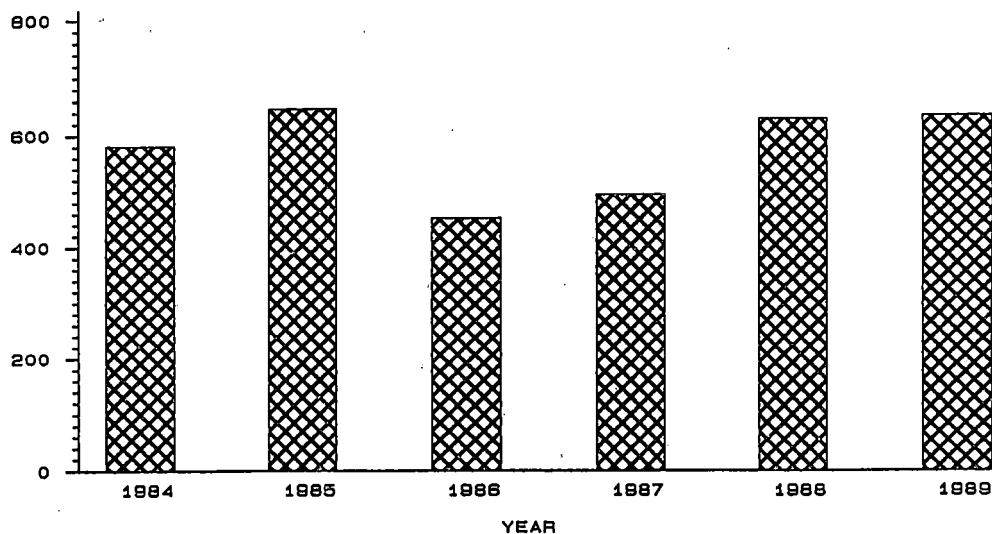


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED

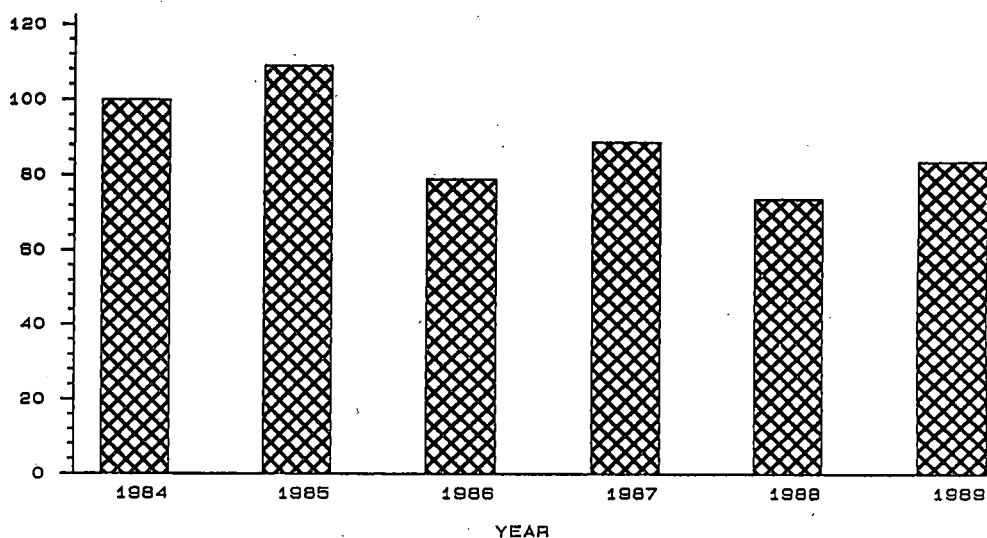


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIALS BY YEAR

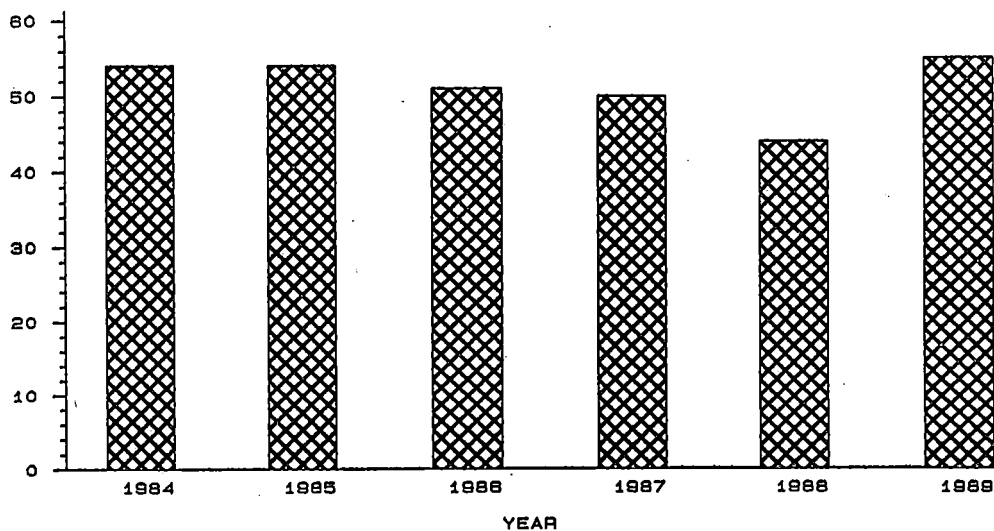


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS

TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

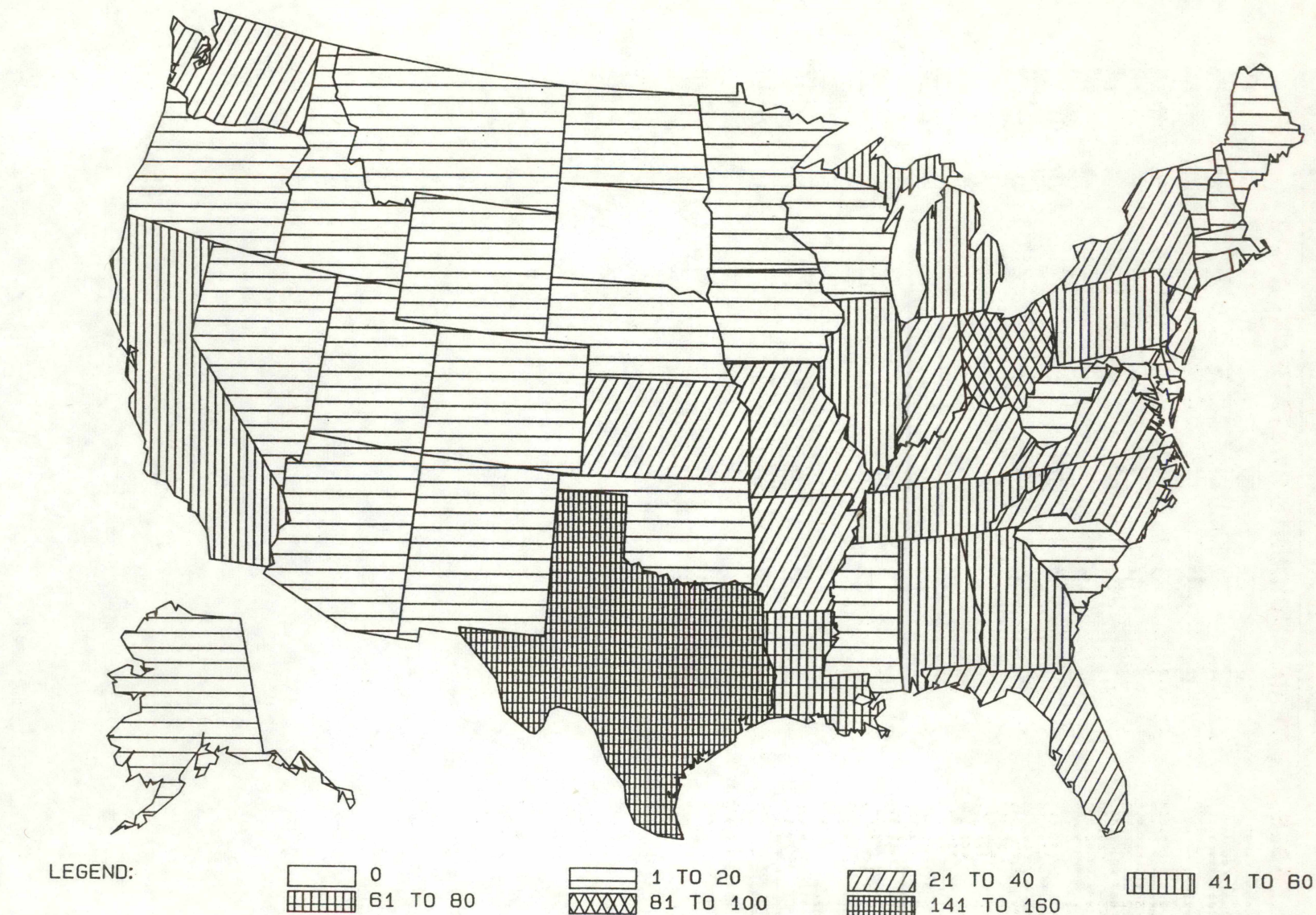
Cause	Consists Carrying	..... In Consist	..... Containing Hazmat	..... Cans Damaged N/Hazmat	..... Releasing Hazmat	People Evacuated	Damage To Equipment
TRACK, ROADBED AND STRUCTURES							
Roadbed defects	10	546	60	10	1	---	1,246,720
Track geometry defects	67	3,820	544	125	15	830	2,144,177
Rail and joint bar defects	39	2,531	226	58	10	440	5,938,163
Frogs, switches and track appliances	56	3,437	485	75	7	150	1,402,609
Other way and structure	---	---	---	---	---	---	---
Signal and communication failures	1	106	4	2	---	---	18,000
Subtotal.....	173	10,440	1,319	270	33	1,420	10,749,669
MECHANICAL AND ELECTRICAL FAILURES							
Brakes	11	1,216	67	3	1	---	763,100
Trailer on container on flat car	1	61	5	---	---	---	23,000
Body	10	1,037	106	19	6	25	1,277,450
Coupler and draft system	12	1,251	81	6	---	---	1,161,950
Truck components	21	1,395	294	35	5	1,500	1,977,918
Axles and journal bearings	30	2,496	195	34	7	1,900	2,250,806
Wheels	21	1,674	123	16	2	---	1,059,115
Locomotives	---	---	---	---	---	---	---
Doors	4	336	16	7	---	20	409,096
General mechanical and electrical failures	---	---	---	---	---	---	---
Subtotal.....	110	9,466	887	120	21	3,445	8,922,435
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of	30	1,628	121	26	3	3,517	1,463,722
Employee physical condition	1	121	1	1	---	---	710,138
Flagging, fixed, hand and radio signals	9	663	46	3	---	---	1,728,657
Other rules and instructions	42	2,657	242	43	5	95	985,421
Speed	11	637	40	17	7	600	3,832,236
Switches, use of	17	840	62	8	1	---	135,391
Miscellaneous	43	2,927	191	35	1	40	1,150,392
Subtotal.....	153	9,473	703	133	17	4,252	10,005,957
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site	22	1,563	159	23	---	250	5,510,759
Emergency brake application to avoid accident	3	416	91	7	---	---	81,200
Vandalism	7	370	26	5	---	20	495,088
Interference with rr operation, not vandals	---	---	---	---	---	---	---
Load shifted	5	480	23	7	1	3,500	245,830
Load fell from car	1	69	3	---	---	---	15,077
Overloaded car	2	125	3	1	1	---	18,820
Improperly loaded car	6	472	19	1	---	---	720,504
Oversized load, misrouted	3	238	8	---	---	---	47,000
Object on or fouling track	2	177	24	---	---	---	23,997
Equipment on or fouling track	1	115	1	1	---	---	13,750
Trail/container tiedown eqp impr applied	---	---	---	---	---	---	---
Overload/improper loaded container etc.	1	84	1	---	---	---	800
Interaction of lateral/vertical forces	17	1,444	90	29	3	---	2,163,228
Failure to control car spd with hand brk	---	---	---	---	---	---	---
Snow, ice, or mud on track	2	118	3	---	---	---	22,544
Other acts of God	5	445	61	16	3	---	1,527,184
Fire, not due to vandalism	1	134	2	---	---	---	12,000
Hump retarder failed to slow car	5	105	6	4	1	---	193,200
Switch fouled by lading chains, etc.	1	83	5	1	---	---	9,300
Other causes	10	488	55	18	4	1,035	953,074
Subtotal.....	94	6,926	580	113	13	4,805	12,053,355
GRAND TOTAL.....	530	36,305	3,489	636	84	13,922	41,731,416

TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	Consists Carrying	In Consist	Containing Hazmat	Cars Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
Alabama.....	5	457	61	7	---	---	275,358
Alaska.....	---	---	---	---	---	---	---
Arizona.....	6	442	31	5	1	800	478,200
Arkansas.....	12	692	75	38	4	600	1,063,146
California.....	21	1,321	68	38	3	150	3,673,586
Colorado.....	4	275	25	7	2	---	3,019,350
Connecticut.....	4	238	5	3	---	---	36,550
Delaware.....	---	---	---	---	---	---	---
Dist of Columbia.....	---	---	---	---	---	---	---
Florida.....	11	675	115	15	2	350	757,611
Georgia.....	20	1,572	94	7	2	---	530,983
Idaho.....	9	579	45	10	---	---	816,537
Illinois.....	64	4,276	293	43	6	170	2,983,398
Indiana.....	14	940	55	8	1	---	778,768
Iowa.....	6	471	40	6	---	---	1,227,796
Kansas.....	9	747	46	10	2	---	1,156,948
Kentucky.....	10	669	69	19	1	55	116,203
Louisiana.....	32	2,225	420	51	4	375	3,643,935
Maine.....	4	195	14	10	---	300	76,500
Maryland.....	4	160	4	2	---	---	69,900
Massachusetts.....	3	168	3	---	---	---	78,226
Michigan.....	10	598	92	23	3	1,042	888,450
Minnesota.....	10	738	144	11	1	---	390,302
Mississippi.....	15	1,444	248	26	2	1,100	1,876,860
Missouri.....	19	1,456	72	11	1	---	744,816
Montana.....	9	427	45	18	8	3,500	1,567,400
Nebraska.....	4	350	37	4	---	---	180,364
Nevada.....	1	63	2	---	---	---	35,000
New Hampshire.....	1	49	2	2	---	---	40,000
New Jersey.....	6	153	5	4	2	40	34,078
New Mexico.....	9	566	58	5	2	---	316,300
New York.....	13	1,043	76	15	3	3,500	1,143,804
North Carolina.....	11	1,037	42	7	---	---	229,503
North Dakota.....	3	355	36	8	5	50	694,203
Ohio.....	23	2,176	143	28	5	1,500	1,983,345
Oklahoma.....	14	604	69	6	---	20	547,886
Oregon.....	8	401	45	3	1	---	478,817
Pennsylvania.....	17	1,135	150	39	7	30	1,171,484
Rhode Island.....	---	---	---	---	---	---	---
South Carolina.....	5	396	31	8	---	---	79,800
South Dakota.....	---	---	---	---	---	---	---
Tennessee.....	9	516	21	8	1	190	1,110,100
Texas.....	67	4,216	529	103	7	100	2,804,666
Utah.....	2	75	6	6	---	---	12,450
Vermont.....	4	253	19	---	---	---	634,046
Virginia.....	15	955	91	14	6	---	1,154,301
Washington.....	4	118	9	2	---	---	55,600
West Virginia.....	---	---	---	---	---	---	---
Wisconsin.....	10	841	42	2	2	---	2,237,946
Wyoming.....	5	238	12	4	---	50	536,900
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	530	36,305	3,489	636	84	13,922	41,731,416

TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

Railroad	Consists Carrying	Cars				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.	31	1,825	186	19	1	120	1,854,433
Springfield Terminal Railway Company	8	448	26	12	1	3,500	215,726
Burlington Northern Incorporated	59	4,445	284	36	10	50	4,649,698
Chicago And North Western	4	264	10	9	---	---	726,911
Consolidated Rail Corporation	28	2,183	127	48	6	40	268,240
CSX Transportation	105	8,744	738	115	14	3,065	7,485,052
Delaware And Hudson Railway	3	207	10	---	---	---	923,000
Denver And Rio Grande Western RR Co.	1	62	6	6	2	---	3,000,000
Elgin, Joliet And Eastern Railway Co.	2	65	13	---	---	---	21,850
Florida East Coast Railway Co.	1	11	1	---	---	---	2,360
Grand Trunk Western Railroad Co.	3	168	5	4	---	17	216,450
Illinois Central Railroad Co.	12	1,182	247	24	1	---	674,150
Kansas City Southern Railway Co.	1	5	4	3	---	---	8,230
Louisiana And Arkansas Rwy Company	6	453	33	14	---	100	2,540,777
Norfolk Southern Corporation	21	1,430	112	23	6	150	1,542,255
Soo Line Railroad Company	17	1,254	94	16	5	50	1,174,368
Southern Pacific Transportation Co.	49	3,007	287	97	5	1,025	4,063,174
St. Louis Southwestern Railway Co.	7	519	40	12	3	600	598,996
Union Pacific Railroad Co.	76	4,563	683	123	13	---	5,200,428
Total Class I Railroads.....	434	30,835	2,906	561	67	8,717	35,166,100
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	1	87	1	1	---	300	44,000
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine	---	---	---	---	---	---	---
Central Vermont Railway Inc.	4	288	10	---	---	---	647,046
Chicago And Illinois Midland Rwy Co.	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co.	2	128	128	6	---	---	27,238
Duluth, Winnipeg And Pacific Rwy Co.	---	---	---	---	---	---	---
Green Bay And Western Railroad	---	---	---	---	---	---	---
Ann Arbor Railroad (formerly MIRR)	---	---	---	---	---	---	---
Monongahela Railway	---	---	---	---	---	---	---
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Pittsburg And Lake Erie Railroad Co.	1	16	1	1	---	---	600
Richmond, Frederickburg And Potomac	4	171	26	3	1	---	37,251
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	1	145	3	---	---	---	1,500
Total Class II Railroads.....	13	835	169	11	1	300	757,635
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	434	30,835	2,906	561	67	8,717	35,166,100
Class II Railroads	13	835	169	11	1	300	757,635
Class III Railroads	83	4,635	414	64	16	4,905	5,807,681
Total All Railroads.....	530	36,305	3,489	636	84	13,922	41,731,416

**Note:**

Any unintentional release of hazardous material that occurred in connection with its transport by rail is reportable to the Materials Transportation Bureau. This includes packaging failures to inner containers, such as steel drums, boxes, cylinders, etc., where the material did not escape from the railroad car.

FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES, MATERIALS TRANSPORTATION BUREAU

5. ACCIDENTS AND CASUALTIES BY STATE

TABLE 30. TRAIN ACCIDENTS BY STATE AND TYPE

State	.....Collisions.....		...Derailments....		.....Other.....		..Rail-Hwy X-ing..		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	5	1,278,832	32	1,094,591	2	41,550	2	25,800	41	2,440,773
Alaska.....	---	---	5	291,521	---	---	---	---	5	291,521
Arizona.....	3	618,410	16	2,567,967	---	---	1	65,000	20	3,251,377
Arkansas.....	12	237,152	64	4,677,640	10	289,665	4	100,379	90	5,304,836
California.....	18	1,300,831	112	19,137,097	21	1,497,236	10	2,215,424	161	24,150,588
Colorado.....	3	84,750	19	5,567,425	5	214,700	1	32,500	28	5,899,375
Connecticut.....	2	42,000	5	158,883	15	527,120	1	49,500	23	777,503
Delaware.....	1	8,000	---	---	---	---	1	10,350	2	18,350
Dist of Columbia.....	1	9,588	6	95,510	4	167,069	---	---	11	272,167
Florida.....	5	135,475	44	2,198,348	9	151,075	9	168,027	67	2,652,925
Georgia.....	18	454,055	55	2,798,238	6	176,390	8	490,495	87	3,919,178
Idaho.....	5	66,600	38	3,921,351	3	368,229	4	95,680	50	4,451,860
Illinois.....	44	3,496,935	207	8,439,340	62	1,793,934	15	1,694,471	328	15,424,680
Indiana.....	2	29,812	55	1,611,570	8	151,554	8	803,217	73	2,596,153
Iowa.....	6	574,052	84	5,968,176	8	159,287	2	190,500	100	6,892,015
Kansas.....	8	1,119,611	53	3,095,512	5	51,625	6	1,189,347	72	5,456,095
Kentucky.....	9	400,554	35	2,842,119	6	496,850	2	14,773	52	3,754,296
Louisiana.....	9	505,967	55	2,597,744	8	140,566	9	2,429,665	81	5,673,942
Maine.....	---	---	12	544,990	---	---	1	45,000	13	589,990
Maryland.....	6	483,685	12	522,237	6	121,500	2	46,799	26	1,174,221
Massachusetts.....	2	60,250	14	490,715	4	126,926	1	19,500	21	697,391
Michigan.....	2	20,700	32	1,999,150	17	321,426	7	562,770	58	2,904,046
Minnesota.....	11	183,972	75	7,760,878	9	121,987	3	343,100	98	8,409,937
Mississippi.....	3	1,343,974	40	3,236,215	3	144,850	3	148,000	49	4,873,039
Missouri.....	4	55,082	69	4,213,473	16	411,452	5	269,400	94	4,949,407
Montana.....	3	984,500	47	5,805,052	10	473,089	---	---	60	7,262,641
Nebraska.....	---	---	33	1,532,236	39	988,475	4	43,582	76	2,564,293
Nevada.....	2	39,000	9	710,200	2	64,779	2	2,012,894	15	2,826,873
New Hampshire.....	---	---	1	41,200	1	9,800	1	6,100	3	57,100
New Jersey.....	1	12,578	13	260,645	14	590,260	4	190,000	32	1,053,483
New Mexico.....	1	70,000	17	628,794	3	143,335	1	7,475	22	849,604
New York.....	13	1,328,079	45	1,725,571	22	470,322	3	65,693	83	3,589,665
North Carolina.....	13	292,264	24	2,042,723	9	101,600	5	59,850	51	2,496,437
North Dakota.....	---	---	18	2,441,209	4	1,111,850	1	903,500	23	4,456,559
Ohio.....	9	412,962	71	4,798,446	10	110,916	11	435,452	101	5,757,776
Oklahoma.....	1	6,750	42	2,354,659	11	282,562	3	27,923	57	2,671,894
Oregon.....	6	250,271	59	2,939,347	10	139,722	1	20,000	76	3,349,340
Pennsylvania.....	4	1,159,493	75	3,078,705	11	217,862	9	156,930	99	4,612,990
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina.....	6	271,600	17	718,460	4	81,100	6	677,288	33	1,748,448
South Dakota.....	---	---	13	550,378	2	48,000	---	---	15	598,378
Tennessee.....	7	168,050	46	3,353,852	16	421,155	1	773,500	70	4,716,557
Texas.....	27	2,349,842	209	9,559,334	27	846,710	17	2,320,293	280	15,076,179
Utah.....	7	122,662	11	729,581	---	---	2	39,700	20	891,943
Vermont.....	1	37,000	9	1,187,882	---	---	1	40,000	11	1,264,882
Virginia.....	6	894,747	71	6,697,631	5	205,360	2	1,433,713	84	9,231,451
Washington.....	2	1,245,702	36	1,541,456	19	415,314	1	1,030,952	58	4,233,424
West Virginia.....	6	76,235	27	2,713,642	2	66,710	1	16,000	36	2,872,587
Wisconsin.....	3	303,642	39	2,972,628	12	247,907	1	583,207	55	4,107,384
Wyoming.....	8	259,240	58	8,521,505	4	151,010	---	---	70	8,931,755
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	305	22,794,904	2,129	152,735,826	464	14,662,829	182	21,853,749	3,080	212,047,308

TABLE 31. TRAIN ACCIDENTS BY STATE AND CAUSE

State	Track		Equipment		Human Factors		Miscellaneous		Total	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	16	397,021	9	382,412	9	439,140	7	1,222,200	41	2,440,773
Alaska.....	4	146,521	---	---	---	---	1	145,000	5	291,521
Arizona.....	8	1,636,479	4	243,400	2	576,910	6	794,588	20	3,251,377
Arkansas.....	29	1,137,087	17	865,152	24	1,864,154	20	1,438,443	90	5,304,836
California.....	40	4,581,857	22	3,346,250	58	12,108,281	41	4,114,200	161	24,150,588
Colorado.....	7	634,857	1	12,500	13	5,109,768	7	142,250	28	5,899,375
Connecticut.....	9	191,300	3	135,220	5	141,583	6	309,400	23	777,503
Delaware.....	---	---	---	---	---	---	2	18,350	2	18,350
Dist of Columbia.....	3	58,548	3	38,840	3	138,768	2	36,011	11	272,167
Florida.....	24	617,709	10	1,160,501	20	653,888	13	220,827	67	2,652,925
Georgia.....	15	1,356,753	14	307,989	39	1,437,448	19	816,988	87	3,919,178
Idaho.....	13	1,089,870	11	930,772	16	1,314,361	10	1,116,857	50	4,451,860
Illinois.....	104	3,557,780	34	2,387,382	132	4,841,187	58	4,638,331	328	15,424,680
Indiana.....	31	858,191	3	39,600	20	251,620	19	1,446,742	73	2,596,153
Iowa.....	50	2,965,461	17	1,664,501	23	1,710,863	8	551,190	100	6,892,015
Kansas.....	22	1,162,161	13	1,353,235	29	1,654,702	10	1,285,997	72	5,456,095
Kentucky.....	18	1,569,032	8	330,873	16	783,534	13	1,070,857	52	3,754,296
Louisiana.....	30	1,400,516	9	632,442	29	979,572	13	2,661,412	81	5,673,942
Maine.....	5	102,850	3	84,540	2	93,800	3	308,800	13	589,990
Maryland.....	7	255,102	6	306,125	6	470,685	7	142,309	26	1,174,221
Massachusetts.....	6	73,115	5	132,000	5	161,776	5	330,500	21	697,391
Michigan.....	12	753,776	7	530,276	25	540,372	14	1,079,622	58	2,904,046
Minnesota.....	43	3,024,586	15	3,244,145	21	1,451,663	19	689,543	98	8,409,937
Mississippi.....	28	2,211,035	9	930,745	6	1,453,459	6	277,800	49	4,873,039
Missouri.....	33	2,015,968	17	1,549,375	26	602,343	18	781,721	94	4,949,407
Montana.....	10	1,161,481	14	3,651,540	31	1,844,731	5	604,889	60	7,262,641
Nebraska.....	23	603,839	15	491,657	30	1,113,214	8	355,583	76	2,564,293
Nevada.....	---	---	6	356,556	4	418,223	5	2,052,094	15	2,826,873
New Hampshire.....	---	---	1	41,200	1	9,800	1	6,100	3	57,100
New Jersey.....	7	157,307	8	391,512	8	153,866	9	350,798	32	1,053,483
New Mexico.....	8	210,289	4	201,750	2	100,600	8	336,965	22	849,604
New York.....	22	667,903	17	558,378	24	1,525,370	20	838,014	83	3,589,665
North Carolina.....	10	1,696,613	9	310,791	22	368,937	10	120,096	51	2,496,437
North Dakota.....	11	1,305,905	3	755,800	4	1,331,304	5	1,063,550	23	4,456,559
Ohio.....	30	1,865,131	16	2,050,144	29	929,036	26	913,465	101	5,757,776
Oklahoma.....	17	685,322	9	857,212	20	530,573	11	598,787	57	2,671,894
Oregon.....	24	1,420,076	20	451,583	21	887,376	11	590,305	76	3,349,340
Pennsylvania.....	40	1,690,614	13	265,344	23	1,055,949	23	1,601,083	99	4,612,990
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina.....	8	559,250	1	17,084	12	382,326	12	789,788	33	1,748,448
South Dakota.....	8	325,423	3	188,000	4	84,955	---	---	15	598,378
Tennessee.....	24	1,021,244	8	318,918	21	1,631,355	17	1,745,040	70	4,716,557
Texas.....	107	5,253,952	41	2,730,039	94	3,499,820	38	3,592,368	280	15,076,179
Utah.....	4	56,050	3	82,843	11	713,350	2	39,700	20	891,943
Vermont.....	5	1,090,746	---	---	4	78,136	2	96,000	11	1,264,882
Virginia.....	34	1,688,599	14	591,823	25	5,083,714	11	1,867,315	84	9,231,451
Washington.....	20	761,857	7	696,784	19	335,984	12	2,438,799	58	4,233,424
West Virginia.....	14	1,476,943	7	187,275	9	1,089,119	6	119,250	36	2,872,587
Wisconsin.....	22	800,858	10	951,127	16	707,281	7	1,648,118	55	4,107,384
Wyoming.....	14	1,327,974	32	6,600,256	19	703,472	5	300,033	70	8,931,755
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	1,019	57,624,951	501	43,355,891	982	63,358,368	578	47,708,098	3,080	212,047,308

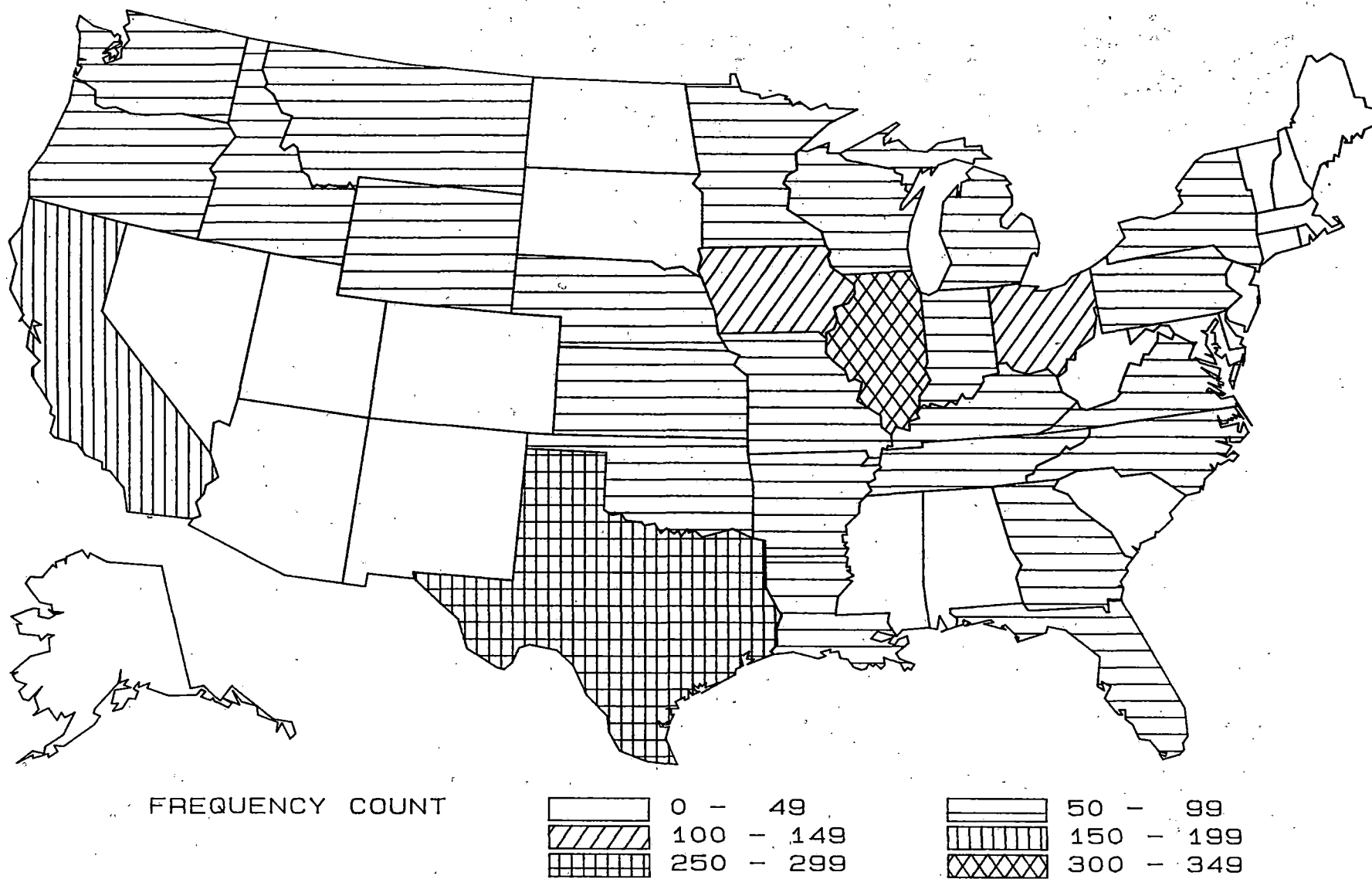


FIGURE 25. TRAIN ACCIDENTS BY STATE

TABLE 32. TRAIN ACCIDENTS BY STATE AND MONTH





	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama.....	5	3	5	3	5	2	5	4	3	2	2	2	41
Alaska.....	---	---	---	1	---	---	---	1	1	2	---	---	5
Arizona.....	1	2	1	1	1	2	4	3	2	3	---	---	20
Arkansas.....	8	6	7	6	8	9	13	9	5	5	9	5	90
California.....	10	11	13	16	8	22	18	15	13	14	9	12	161
Colorado.....	---	5	2	3	1	3	1	2	2	1	5	3	28
Connecticut.....	1	1	3	3	1	3	---	---	2	3	5	1	23
Delaware.....	---	1	1	---	---	---	---	---	---	---	---	---	2
Dist of Columbia.	---	2	2	---	---	---	1	1	2	---	---	---	11
Florida.....	2	7	8	5	2	4	9	2	8	2	4	14	67
Georgia.....	3	5	8	11	12	14	7	4	4	7	7	5	87
Idaho.....	3	6	4	2	7	2	4	6	7	3	3	3	50
Illinois.....	35	26	39	28	26	27	26	22	31	23	16	29	328
Indiana.....	7	6	10	5	1	5	7	2	7	10	6	7	73
Iowa.....	10	10	10	12	12	9	7	9	5	6	4	6	100
Kansas.....	5	8	5	5	9	2	7	8	7	4	7	5	72
Kentucky.....	1	4	5	4	3	4	6	---	7	4	7	7	52
Louisiana.....	6	9	4	6	8	4	5	6	1	3	10	14	81
Maine.....	1	---	2	2	---	2	1	---	6	4	---	---	13
Maryland.....	1	3	1	2	4	4	2	3	2	---	2	2	26
Massachusetts.....	1	1	1	1	---	2	3	1	1	3	5	2	21
Michigan.....	6	4	8	4	3	2	4	5	5	4	7	6	58
Minnesota.....	3	7	5	10	5	13	4	13	8	11	10	9	98
Mississippi.....	6	6	3	3	5	2	4	5	6	4	4	1	49
Missouri.....	8	9	7	8	8	10	8	13	6	6	6	5	94
Montana.....	8	4	6	4	7	4	5	6	4	1	7	4	60
Nebraska.....	3	8	7	9	11	5	6	6	7	2	5	7	76
Nevada.....	1	1	---	1	1	2	3	1	2	3	---	---	15
New Hampshire.....	1	---	---	---	---	1	1	---	---	---	---	---	3
New Jersey.....	3	3	5	---	5	1	1	3	3	2	2	4	32
New Mexico.....	1	3	2	3	2	1	4	2	---	3	1	---	22
New York.....	10	5	6	5	9	9	9	7	2	10	5	6	83
North Carolina...	6	2	2	5	7	2	8	3	3	5	5	3	51
North Dakota.....	2	3	1	2	2	3	2	4	---	2	2	---	23
Ohio.....	10	8	7	10	7	7	12	9	5	11	9	6	101
Oklahoma.....	6	---	4	8	3	4	5	8	6	2	7	4	57
Oregon.....	3	8	12	7	10	6	3	5	4	7	8	3	76
Pennsylvania.....	6	7	6	10	5	11	10	8	4	9	17	6	99
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	2	3	1	4	1	5	3	1	4	2	3	4	33
South Dakota.....	---	1	---	1	3	2	1	---	1	1	3	2	15
Tennessee.....	5	6	5	6	5	4	6	5	9	4	9	6	70
Texas.....	32	16	18	25	29	29	27	32	26	17	18	11	280
Utah.....	5	2	2	1	---	2	1	---	4	---	1	2	20
Vermont.....	---	1	2	1	3	1	---	---	---	2	---	1	11
Virginia.....	6	6	9	5	12	7	8	6	9	6	3	7	84
Washington.....	2	3	6	5	6	7	6	3	10	4	4	2	58
West Virginia....	1	4	7	4	---	1	2	1	2	4	7	3	36
Wisconsin.....	8	4	5	4	7	6	4	4	2	3	6	2	55
Wyoming.....	5	7	6	6	3	6	5	8	8	6	4	6	70
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	249	247	273	267	267	273	278	256	256	230	254	230	3,080

TABLE 33. CASUALTIES BY STATE AND CLASS OF ACCIDENT/INCIDENT

State	.....Train Accidents.....			.....Train Incidents.....			...Nontrain Incidents...			.....Total.....		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
Alabama.....	2	2	---	29	121	---	1	271	---	32	394	---
Alaska.....	---	---	---	---	6	---	---	46	---	---	52	1
Arizona.....	---	3	---	18	50	1	1	114	---	19	167	1
Arkansas.....	2	5	---	37	138	---	---	393	3	39	536	3
California.....	11	50	---	74	321	7	3	1,000	25	88	1,371	32
Colorado.....	1	7	---	8	103	---	---	266	4	9	376	4
Connecticut.....	---	---	1	4	20	1	1	198	9	5	218	11
Delaware.....	---	1	---	4	11	---	---	68	---	4	80	---
Dist of Columbia.....	---	7	---	2	6	---	1	92	---	3	105	---
Florida.....	6	9	---	55	178	---	2	310	2	63	497	2
Georgia.....	4	14	---	37	205	---	1	454	3	42	673	3
Idaho.....	1	4	---	8	63	1	---	172	1	9	239	2
Illinois.....	11	81	---	97	410	---	2	1,367	12	110	1,858	12
Indiana.....	1	3	---	53	206	6	2	461	4	56	670	10
Iowa.....	---	5	---	10	111	---	2	507	14	12	623	14
Kansas.....	2	11	---	25	105	1	---	393	8	27	509	9
Kentucky.....	1	3	---	14	123	2	2	531	1	17	657	3
Louisiana.....	3	14	---	30	230	2	---	298	2	33	542	4
Maine.....	---	---	---	2	30	---	---	75	1	2	105	1
Maryland.....	1	4	---	8	58	---	---	243	2	9	305	2
Massachusetts.....	---	3	---	12	43	---	---	226	2	12	272	2
Michigan.....	2	23	---	38	169	---	1	497	5	41	689	5
Minnesota.....	---	10	---	21	139	1	3	552	7	24	701	8
Mississippi.....	1	16	---	17	126	---	1	112	4	19	254	4
Missouri.....	1	6	---	35	151	---	---	600	17	36	757	17
Montana.....	---	11	---	5	57	2	1	307	4	6	375	6
Nebraska.....	2	---	---	22	104	3	---	746	34	24	850	37
Nevada.....	2	7	---	4	16	1	---	51	---	6	74	1
New Hampshire.....	---	1	---	---	3	---	---	15	---	---	19	---
New Jersey.....	4	8	---	24	128	---	4	815	14	32	951	14
New Mexico.....	---	4	---	11	45	---	---	95	2	11	144	2
New York.....	2	15	---	54	263	9	4	1,942	57	60	2,220	66
North Carolina.....	2	5	---	36	147	---	2	245	1	40	397	1
North Dakota.....	1	12	---	5	47	---	1	122	2	7	181	2
Ohio.....	4	24	---	78	310	8	2	713	9	84	1,047	17
Oklahoma.....	---	4	---	34	126	1	2	200	5	36	330	6
Oregon.....	---	4	---	9	92	1	2	254	7	11	350	8
Pennsylvania.....	1	50	---	35	209	4	1	1,116	23	37	1,375	27
Rhode Island.....	---	---	---	1	4	---	---	12	---	1	16	---
South Carolina.....	1	10	---	23	90	---	---	187	1	24	287	1
South Dakota.....	---	1	---	2	20	---	---	42	1	2	63	1
Tennessee.....	---	1	---	24	106	---	1	315	3	25	422	3
Texas.....	12	28	---	122	709	6	6	1,108	11	140	1,845	17
Utah.....	---	1	---	2	44	---	---	145	---	2	190	---
Vermont.....	---	---	---	---	11	---	---	24	---	---	35	---
Virginia.....	2	76	---	19	124	---	---	486	3	21	686	3
Washington.....	1	16	---	19	167	2	---	528	15	20	711	17
West Virginia.....	1	6	---	5	43	2	---	296	10	6	345	12
Wisconsin.....	1	2	---	13	118	---	---	347	6	14	467	6
Wyoming.....	1	3	---	2	62	---	1	222	1	4	287	1
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	87	570	1	1,187	6,168	61	50	19,579	336	1,324	26,317	398

TABLE 34. TRAIN ACCIDENT AND TRAIN INCIDENT FATALITIES TO TRESPASSERS AND NON-TRESPASSERS BY STATE

State	Trespassers.....				Nontrespassers.....				Total.....			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama.....	1	7	---	8	1	21	---	22	2	28	---	30
Alaska.....	---	6	9	15	---	3	---	3	---	9	---	9
Arizona.....	---	5	1	7	9	23	---	32	10	28	1	39
Arkansas.....	1	31	16	49	2	17	11	30	4	48	27	79
California.....	2	3	3	6	---	3	---	3	---	6	3	9
Colorado.....	---	3	1	4	---	---	---	---	---	3	1	4
Connecticut.....	---	2	1	3	1	---	---	1	1	2	1	4
Delaware.....	---	1	---	2	---	---	---	---	---	1	---	1
Dist of Columbia.....	1	1	---	2	---	---	---	---	---	---	---	---
Florida.....	5	37	11	53	---	8	---	8	5	45	11	61
Georgia.....	2	14	---	16	3	21	---	24	5	35	---	40
Idaho.....	1	1	---	2	3	4	---	7	4	5	---	9
Illinois.....	4	37	21	62	1	36	6	43	5	73	27	105
Indiana.....	---	22	2	24	2	24	4	30	2	46	6	54
Iowa.....	---	2	---	2	---	6	2	8	---	8	2	10
Kansas.....	2	7	1	10	---	15	1	16	2	22	2	26
Kentucky.....	1	10	---	11	---	3	---	3	1	13	---	14
Louisiana.....	---	6	---	6	2	21	4	27	2	27	4	33
Maine.....	---	---	---	---	---	1	---	1	---	1	---	1
Maryland.....	---	7	1	8	---	1	---	1	---	8	1	9
Massachusetts.....	1	6	1	8	1	3	---	4	2	9	1	12
Michigan.....	1	7	2	10	---	26	3	29	1	33	5	39
Minnesota.....	---	8	1	9	---	10	1	11	---	18	2	20
Mississippi.....	---	3	2	5	1	9	3	13	1	12	5	18
Missouri.....	1	11	1	13	1	20	2	23	2	31	3	36
Montana.....	---	3	---	3	---	2	---	2	---	5	---	5
Nebraska.....	---	8	---	8	2	13	---	15	2	21	---	23
Nevada.....	---	3	2	5	---	---	---	---	---	3	2	5
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	1	17	10	28	---	---	---	---	1	17	10	28
New Mexico.....	---	1	2	3	---	3	5	8	---	4	7	11
New York.....	2	39	10	51	---	2	---	2	2	41	10	53
North Carolina.....	1	18	4	23	---	15	---	15	1	33	4	38
North Dakota.....	---	---	---	---	---	5	---	5	---	5	---	5
Ohio.....	2	19	1	22	3	49	4	56	5	68	5	78
Oklahoma.....	3	9	1	13	2	15	4	21	5	24	5	34
Oregon.....	---	7	1	8	---	1	---	1	---	8	1	9
Pennsylvania.....	2	17	5	24	---	9	1	10	2	26	6	34
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	---	10	3	13	---	11	---	11	---	21	3	24
South Dakota.....	---	---	---	---	---	2	---	2	---	2	---	2
Tennessee.....	---	12	1	13	---	10	1	11	---	22	2	24
Texas.....	2	33	1	36	6	71	16	93	8	104	17	129
Utah.....	1	1	---	2	---	---	---	---	1	1	---	2
Vermont.....	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	---	11	4	15	---	4	---	4	---	15	4	19
Washington.....	1	9	3	13	---	6	---	6	1	15	3	19
West Virginia.....	---	5	---	5	---	---	---	---	---	5	---	5
Wisconsin.....	1	6	---	7	---	5	1	6	1	11	1	13
Wyoming.....	---	1	---	1	---	1	---	1	---	2	---	2
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	39	465	122	626	40	499	69	608	79	964	191	1,234

	0 - 19
	40 - 59
	80 - 99
	140 - 159







	20 - 39
	60 - 79
	100 - 119

FIGURE 26. FATALITIES BY STATE

**TABLE 35. TRAIN ACCIDENT AND TRAIN INCIDENT INJURIES TO TRESPASSERS
AND NON-TRESPASSERS BY STATE**

State	Trespassers.....				Nontrespassers.....				Total.....			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama.....	---	10	1	11	4	62	---	66	4	72	1	77
Alaska.....	---	---	---	---	---	3	---	3	---	3	---	3
Arizona.....	1	10	1	12	---	7	1	8	1	17	2	20
Arkansas.....	---	12	---	12	6	53	1	60	6	65	1	72
California.....	5	61	18	84	3	34	23	60	8	95	41	144
Colorado.....	---	5	2	7	2	8	1	11	2	13	3	18
Connecticut.....	1	4	2	7	---	---	1	1	1	4	3	8
Delaware.....	---	1	---	1	---	1	3	4	---	2	3	5
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	3	57	6	66	1	43	---	44	4	100	6	110
Georgia.....	1	25	---	26	6	77	---	83	7	102	---	109
Idaho.....	1	2	---	3	1	13	---	14	2	15	---	17
Illinois.....	11	48	11	70	10	96	35	141	21	144	46	211
Indiana.....	3	28	3	34	7	78	18	103	10	106	21	137
Iowa.....	5	6	5	16	2	34	11	47	7	40	16	63
Kansas.....	3	9	1	13	7	32	9	48	10	41	10	61
Kentucky.....	---	11	---	11	10	41	5	56	10	52	5	67
Louisiana.....	1	8	4	13	21	76	47	144	22	84	51	157
Maine.....	2	4	---	6	2	8	---	10	4	12	---	16
Maryland.....	2	6	---	8	---	5	1	6	2	11	1	14
Massachusetts.....	---	5	7	12	1	4	1	6	1	9	8	18
Michigan.....	1	21	5	27	7	78	6	91	8	99	11	118
Minnesota.....	1	8	---	9	3	39	5	47	4	47	5	56
Mississippi.....	---	3	1	4	---	27	65	92	---	30	66	96
Missouri.....	1	5	---	6	7	49	2	58	8	54	2	64
Montana.....	---	5	---	5	1	4	1	6	1	9	1	11
Nebraska.....	2	7	1	10	1	23	3	27	3	30	4	37
Nevada.....	1	7	---	8	---	2	---	2	1	9	---	10
New Hampshire.....	---	---	---	---	1	1	---	2	1	1	---	2
New Jersey.....	2	5	1	8	---	5	5	10	2	10	6	18
New Mexico.....	---	5	2	7	1	8	5	14	1	13	7	21
New York.....	3	27	4	34	3	30	4	37	6	57	8	71
North Carolina.....	3	25	1	29	7	61	1	69	10	86	2	98
North Dakota.....	---	---	---	---	---	12	---	12	---	12	---	12
Ohio.....	6	18	1	25	14	131	8	153	20	149	9	178
Oklahoma.....	1	9	---	10	4	56	12	72	5	65	12	82
Oregon.....	3	15	3	21	1	13	1	15	4	28	4	36
Pennsylvania.....	6	23	12	41	3	21	6	30	9	44	18	71
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	1	23	1	25	1	38	---	39	2	61	1	64
South Dakota.....	---	1	---	1	1	6	5	12	1	7	5	13
Tennessee.....	3	11	---	14	4	37	6	47	7	48	6	61
Texas.....	6	60	6	72	41	225	45	311	47	285	51	383
Utah.....	---	---	---	---	1	11	---	12	1	11	---	12
Vermont.....	---	---	---	---	---	2	1	3	---	2	1	3
Virginia.....	---	13	3	16	1	28	---	29	1	41	3	45
Washington.....	1	7	1	9	1	22	5	28	2	29	6	37
West Virginia.....	1	4	---	5	---	6	3	9	1	10	3	14
Wisconsin.....	---	3	---	3	6	40	10	56	6	43	10	59
Wyoming.....	1	---	---	1	---	4	1	5	1	4	1	6
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	82	617	103	802	192	1,654	357	2,203	274	2,271	460	3,005

	0 - 499
	1000 - 1499
	2000 - 2499

	500 - 999
	1500 - 1999

FIGURE 27. INJURIES BY STATE

6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD

TABLE 36. SUMMARY OF TRAIN-MILES OPERATED

Railroad	Locomotive Train Miles	Motor Train Miles	Yard Switching Train Miles	Total Train Miles
CLASS I RAILROADS				
Amtrak (National RR Passenger Corp)	33,048,265	3,474,897	2,453,388	38,976,550
Atchison, Topeka And Santa Fe Rwy Co.	46,200,466	---	4,061,688	50,262,154
Springfield Terminal Railway Company	1,199,743	---	149,837	1,349,580
Burlington Northern Incorporated	73,993,648	---	13,980,184	87,973,832
Chicago And North Western	15,015,755	---	3,546,228	18,561,983
Consolidated Rail Corporation	36,308,606	---	11,845,242	48,153,848
CSX Transportation	53,717,865	---	14,287,464	68,005,329
Delaware And Hudson Railway	1,426,000	---	58,500	1,484,500
Denver And Rio Grande Western RR Co.	6,319,710	---	738,777	7,058,487
Elgin, Joliet And Eastern Railway Co.	436,171	---	1,224,172	1,660,343
Florida East Coast Railway Co.	2,493,172	---	726,137	3,219,309
Grand Trunk Western Railroad Co.	3,898,941	---	1,910,862	5,809,803
Illinois Central Railroad Co.	5,999,438	---	3,108,884	9,108,322
Kansas City Southern Railway Co.	9,225,080	---	1,237,451	10,462,531
Louisiana And Arkansas Rwy Company	4,110,355	---	780,406	4,890,761
Norfolk Southern Corporation	40,297,719	---	11,091,240	51,388,959
Soo Line Railroad Company	6,754,395	---	1,925,676	8,680,071
Southern Pacific Transportation Co.	34,900,924	---	7,951,629	42,852,553
St. Louis Southwestern Railway Co.	8,332,221	---	801,265	9,133,486
Union Pacific Railroad Co.	65,811,850	---	7,730,744	73,542,594
Total Class I Railroads.....	449,490,324	3,474,897	89,609,774	542,574,995
CLASS II RAILROADS				
Bangor And Aroostook Railroad Co.	376,048	---	68,880	444,928
Bessemer And Lake Erie Railroad Co.	342,106	---	22,368	364,474
Canadian Pacific Lines In Maine	379,267	---	---	379,267
Central Vermont Railway Inc.	234,831	---	26,736	261,567
Chicago And Illinois Midland Rwy Co.	65,831	---	25,194	91,025
Chicago South Shore And South Bend RR	69,941	612,531	---	682,472
Duluth, Missabe And Iron Range Rwy Co.	471,770	---	142,453	614,223
Duluth, Winnipeg And Pacific Rwy Co.	405,075	---	144,800	549,875
Green Bay And Western Railroad	183,575	---	105,020	288,595
Ann Arbor Railroad (formerly MIRR)	---	---	39,810	39,810
Monogahela Railway	250,018	---	---	250,018
Northwestern Pacific Railroad	100,880	---	---	100,880
Pittsburg And Lake Erie Railroad Co.	91,880	---	120,632	212,512
Richmond, Fredericksburg And Potomac	1,294,238	---	514,774	1,809,012
Texas And Northern Railway Company	11,430	---	10,710	22,140
Texas, Mexican Railway Company	129,308	---	112,356	241,664
Total Class II Railroads.....	4,406,198	612,531	1,333,733	6,352,462
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
Class I Railroads	449,490,324	3,474,897	89,609,774	542,574,995
Class II Railroads	4,406,198	612,531	1,333,733	6,352,462
Class III Railroads	29,830,661	28,454,226	13,386,596	71,671,483
Total All Railroads.....	483,727,183	32,541,654	104,330,103	620,598,940

TABLE 37. INVOLVEMENT IN TRAIN ACCIDENTS BY RAILROAD, TYPE, AND CAUSE

Railroad	Collisions					Damages	Derailments					Damages
	Human	Equip	Track	Other	Total		Human	Equip	Track	Other	Total	
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	7	2	---	2	11	345,473	9	6	7	---	22	2,110,393
Atchison, Topeka And Santa Fe Rwy Co.	19	1	1	2	23	2,099,950	19	15	37	13	84	7,057,231
Springfield Terminal Railway Company	1	---	---	---	1	30,000	3	4	13	2	22	554,776
Burlington Northern Incorporated	10	1	---	1	12	785,600	49	57	96	37	239	21,904,314
Chicago And North Western	23	---	---	2	25	509,797	21	15	43	8	87	3,176,301
Consolidated Rail Corporation	16	1	---	4	21	450,718	47	21	44	4	116	3,369,277
CSX Transportation	44	3	1	13	61	5,093,424	73	59	129	49	310	23,215,310
Delaware And Hudson Railway	1	---	---	---	1	874,970	3	---	3	1	7	455,479
Denver And Rio Grande Western RR Co.	2	---	---	---	2	56,500	2	---	1	---	3	3,121,500
Elgin, Joliet And Eastern Railway Co.	2	---	---	---	2	29,812	1	---	6	1	8	316,564
Florida East Coast Railway Co.	---	---	---	---	---	---	3	1	6	---	10	385,834
Grand Trunk Western Railroad Co.	1	---	---	---	1	21,200	10	3	7	5	25	1,229,732
Illinois Central Railroad Co.	5	---	---	1	6	3,137,554	5	9	18	5	37	1,895,240
Kansas City Southern Railway Co.	---	---	---	---	---	---	1	1	7	---	9	246,654
Louisiana And Arkansas Rwy Company	2	---	---	---	2	169,150	3	---	6	---	9	1,016,269
Norfolk Southern Corporation	21	---	3	2	26	482,046	33	25	37	7	102	3,573,844
Soo Line Railroad Company	6	---	2	2	10	362,782	16	8	46	9	79	4,688,711
Southern Pacific Transportation Co.	6	1	---	---	7	832,458	31	28	78	28	165	21,395,997
St. Louis Southwestern Railway Co.	1	---	---	---	1	145,000	13	11	13	5	42	2,377,343
Union Pacific Railroad Co.	58	2	3	13	76	4,240,847	110	113	175	33	431	28,197,609
Total Class I Railroads.....	225	11	10	42	288	19,587,281	452	376	772	207	1,807	130,288,378
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	206	11	9	38	264	19,587,281	422	361	726	199	1,708	130,288,378
Class II Railroads	1	---	---	---	1	12,497	6	7	26	7	46	2,552,190
Class III Railroads	29	1	1	9	40	3,195,126	76	62	211	26	375	19,895,258
Total All Railroads.....	236	12	10	47	305	22,794,904	504	430	963	232	2,129	152,735,826

TABLE 37. (CONTINUED)

Railroad	Human	Equip	Track	Other	Accidents Total	Damages	Accs.	Total Rate*	Damages
CLASS I RAILROADS									
Amtrak (National RR Passenger Corp)	6	14	---	45	65	5,999,844	98	2.51	8,455,710
Atchison, Topeka And Santa Fe Rwy Co.	5	1	1	8	15	294,336	122	2.42	9,451,517
Springfield Terminal Railway Company	2	---	---	3	5	141,226	28	20.74	726,002
Burlington Northern Incorporated	65	7	8	40	120	6,495,993	371	4.21	29,105,907
Chicago And North Western	15	---	---	5	20	1,012,706	132	7.11	4,698,804
Consolidated Rail Corporation	15	---	---	25	40	483,921	177	3.67	4,303,916
CSX Transportation	23	6	1	43	73	2,561,955	444	6.52	30,870,689
Delaware And Hudson Railway	1	---	---	1	2	11,000	10	6.75	1,341,449
Denver And Rio Grande Western RR Co.	1	---	---	---	1	162,000	6	0.84	3,340,000
Elgin, Joliet And Eastern Railway Co.	---	---	---	2	2	15,850	12	7.22	362,226
Florida East Coast Railway Co.	2	---	---	---	2	34,588	12	3.72	420,422
Grand Trunk Western Railroad Co.	11	---	3	3	17	248,642	43	7.40	1,499,574
Illinois Central Railroad Co.	7	1	6	10	24	403,631	67	7.35	5,436,425
Kansas City Southern Railway Co.	2	---	---	---	2	27,500	11	1.05	274,154
Louisiana And Arkansas Rwy Company	3	---	---	2	5	2,001,539	16	3.27	3,186,958
Norfolk Southern Corporation	7	4	---	18	29	1,880,119	157	3.05	5,936,009
Soo Line Railroad Company	---	2	---	3	5	82,450	94	10.82	5,133,943
Southern Pacific Transportation Co.	9	2	---	23	34	4,152,632	206	4.80	26,381,087
St. Louis Southwestern Railway Co.	1	1	1	11	14	1,130,098	57	6.24	3,652,441
Union Pacific Railroad Co.	46	13	10	35	104	3,947,315	611	8.30	36,385,771
Total Class I Railroads.....	221	51	30	277	579	31,087,345	2,674	4.92	180,963,004
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads	214	47	30	254	545	31,087,345	2,517	4.63	180,963,004
Class II Railroads	2	1	1	9	13	589,390	60	9.44	3,154,077
Class III Railroads	26	11	15	36	88	4,839,843	503	7.01	27,930,227
Total All Railroads.....	242	59	46	299	646	36,516,578	3,080	4.96	212,047,308

* Accident rate per million train miles.

The reporting rules require that when multiple railroads are involved in an accident, each railroad must prepare a report that describes the extent of their involvement. An example of this would be when a train of one railroad derailed on track maintained by another railroad. In all other tables these situations appear as a single count. In this table, when an accident involves Class I railroads, a count is made against each railroad involved. This duplication does not appear in the total for Class I railroads shown in the recapitulation.

TABLE 38. FATALITIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

Railroad	Train Accident						Train Incident					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	3	---	---	1	15	19	1	---	6	13	97	117
Atchafson, Topeka And Santa Fe Rwy Co.	2	---	---	3	---	5	1	---	---	49	24	74
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	---	---	---	---
Burlington Northern Incorporated	1	---	---	4	2	7	2	---	---	79	53	134
Chicago And North Western	1	---	---	2	---	3	1	---	---	11	18	30
Consolidated Rail Corporation	---	---	---	2	1	3	---	---	---	51	60	111
CSX Transportation	3	---	---	6	---	9	4	---	---	63	63	130
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	---	---	1	1
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---	---	---	2	---	2
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---	---	23	23
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---	14	1	15
Illinois Central Railroad Co.	1	---	---	---	---	1	---	---	---	7	4	11
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	6	2	8
Louisiana And Arkansas Rwy Company	---	---	---	1	---	1	---	---	---	4	---	4
Norfolk Southern Corporation	---	---	---	6	1	7	1	---	---	88	70	159
See Line Railroad Company	---	---	---	---	---	---	1	---	---	5	8	14
Southern Pacific Transportation Co.	2	---	---	6	3	11	2	1	---	43	38	84
St. Louis Southwestern Railway Co.	---	---	---	---	1	1	---	---	---	34	7	41
Union Pacific Railroad Co.	3	---	---	9	---	12	---	---	---	72	57	129
Total Class I Railroads.....	16	---	---	40	23	79	13	1	6	541	526	1,087
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	16	---	---	40	23	79	13	1	6	541	526	1,087
Class II Railroads	---	---	---	1	---	1	1	---	---	---	4	5
Class III Railroads	---	---	---	1	6	7	3	---	---	25	67	95
Total All Railroads.....	16	---	---	42	29	87	17	1	6	566	597	1,187

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Nontrespasser
 TRES = Trespasser

TABLE 38. (CONTINUED)

Railroad	Nontrain Incident						Total					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	1	---	1	---	3	5	5	---	7	14	115	141
Atchison, Topeka And Santa Fe Rwy Co.	2	---	---	---	---	2	5	---	---	52	24	81
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	---	---	---	---
Burlington Northern Incorporated	2	---	---	2	1	5	5	---	---	85	56	146
Chicago And North Western	---	---	---	---	---	---	2	---	---	13	18	33
Consolidated Rail Corporation	---	---	---	3	---	3	---	---	---	56	61	117
CSX Transportation	2	---	---	2	---	4	9	---	---	71	63	143
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	---	---	1	1
Elgin, Joliet And Eastern Railway Co.	1	---	---	---	---	1	1	---	---	2	---	3
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---	---	23	23
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---	14	1	15
Illinois Central Railroad Co.	---	---	---	---	---	---	1	---	---	7	4	12
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	6	2	8
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	5	---	5
Norfolk Southern Corporation	---	---	---	3	---	3	1	---	---	97	71	169
Soo Line Railroad Company	---	---	---	---	2	2	1	---	---	5	10	16
Southern Pacific Transportation Co.	1	---	---	---	5	6	5	1	---	49	46	101
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---	---	---	34	8	42
Union Pacific Railroad Co.	2	---	---	4	1	7	5	---	---	85	58	148
Total Class I Railroads.....	11	---	1	14	12	38	40	1	7	595	561	1,204
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	11	---	1	14	12	38	40	1	7	595	561	1,204
Class II Railroads	---	---	---	---	---	---	1	---	---	1	4	6
Class III Railroads	5	---	1	3	3	12	8	---	1	29	76	114
Total All Railroads.....	16	---	2	17	15	50	49	1	8	625	641	1,324

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Nontrespasser
 TRES = Trespasser

TABLE 39. NONFATAL CASUALTIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

Railroad	.....Train Accident.....						.....Train Incident.....					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	65	---	61	2	7	135	206	2	34	10	55	307
Atchison, Topeka And Santa Fe Rwy Co.	20	---	---	1	---	21	185	---	---	110	35	330
Springfield Terminal Railway Company	---	---	---	---	---	---	14	---	---	4	9	27
Burlington Northern Incorporated	49	---	1	5	---	55	490	1	1	219	42	753
Chicago And North Western	6	---	---	1	---	7	31	---	1	77	15	124
Consolidated Rail Corporation	15	---	---	5	5	25	239	---	---	155	76	470
CSX Transportation	49	5	---	8	---	62	359	---	---	290	92	741
Delaware And Hudson Railway	2	---	---	---	---	2	7	---	---	2	---	9
Denver And Rio Grande Western RR Co.	2	---	---	---	---	2	27	---	---	8	---	35
Elgin, Joliet And Eastern Railway Co.	---	---	---	1	---	1	12	---	---	10	---	22
Florida East Coast Railway Co.	1	---	---	---	---	1	3	---	---	1	43	47
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	36	---	---	54	2	92
Illinois Central Railroad Co.	17	---	---	1	---	18	57	---	---	91	4	152
Kansas City Southern Railway Co.	---	---	---	---	---	---	36	---	---	14	2	52
Louisiana And Arkansas Rwy Company	4	---	---	---	---	4	28	---	---	26	3	57
Norfolk Southern Corporation	13	---	---	6	---	19	186	2	1	321	101	611
Soo Line Railroad Company	5	---	---	---	---	5	94	---	---	34	19	147
Southern Pacific Transportation Co.	15	---	---	10	4	29	195	---	---	146	80	421
St. Louis Southwestern Railway Co.	8	---	---	1	---	9	17	---	---	40	10	67
Union Pacific Railroad Co.	40	---	---	4	---	44	409	---	---	308	99	816
Total Class I Railroads.....	311	5	62	45	16	439	2,631	5	37	1,920	687	5,280
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	311	5	62	45	16	439	2,631	5	37	1,920	687	5,280
Class II Railroads	3	---	---	2	---	5	56	---	---	2	11	73
Class III Railroads	32	---	77	11	7	127	527	---	47	214	88	876
Total All Railroads.....	346	5	139	58	23	571	3,214	5	86	2,145	779	6,229

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Nontrespasser
 TRES = Trespasser

TABLE 39. (CONTINUED)

Railroad	Nontrain Incident						Total					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	936	56	23	35	6	1,056	1,207	58	118	47	68	1,498
Atchison, Topeka And Santa Fe Rwy Co.	842	14	---	5	3	864	1,047	14	---	116	38	1,215
Springfield Terminal Railway Company	102	2	---	---	---	104	116	2	---	4	9	131
Burlington Northern Incorporated	2,802	30	---	15	6	2,853	3,341	31	2	239	48	3,661
Chicago And North Western	455	5	7	11	3	481	492	5	8	89	18	612
Consolidated Rail Corporation	1,554	53	---	30	8	1,645	1,808	53	---	190	89	2,140
CSX Transportation	2,246	72	---	12	4	2,334	2,654	77	---	310	96	3,137
Delaware And Hudson Railway	35	---	---	---	---	35	44	---	---	2	---	46
Denver And Rio Grande Western RR Co.	91	---	---	---	---	91	120	---	---	8	---	128
Elgin, Joliet And Eastern Railway Co.	59	1	---	1	---	61	71	1	---	12	---	84
Florida East Coast Railway Co.	9	---	---	---	---	9	13	---	---	1	43	57
Grand Trunk Western Railroad Co.	238	1	---	1	---	240	274	1	---	55	2	332
Illinois Central Railroad Co.	216	3	---	---	1	221	290	3	---	93	5	391
Kansas City Southern Railway Co.	77	---	---	---	---	77	113	---	---	14	2	129
Louisiana And Arkansas Rwy Company	25	---	---	---	---	25	57	---	---	26	3	86
Norfolk Southern Corporation	1,150	45	1	152	9	1,357	1,349	47	2	479	110	1,987
Seo Line Railroad Company	423	5	---	---	3	431	522	5	---	34	22	583
Southern Pacific Transportation Co.	803	8	3	12	8	834	1,013	8	3	168	92	1,284
St. Louis Southwestern Railway Co.	94	3	---	---	1	98	119	3	---	41	11	174
Union Pacific Railroad Co.	2,186	40	---	32	13	2,271	2,635	40	---	344	112	3,131
Total Class I Railroads.....	14,343	338	34	307	65	15,087	17,285	348	133	2,272	768	20,806
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	14,343	338	34	307	65	15,087	17,285	348	133	2,272	768	20,806
Class II Railroads	337	1	6	17	1	362	396	1	8	30	5	440
Class III Railroads	3,943	58	134	301	30	4,466	4,502	58	258	526	125	5,469
Total All Railroads.....	18,623	397	174	625	96	19,915	22,183	407	399	2,828	898	26,715

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Nontrespasser
 TRES = Trespasser

TABLE 40. INJURIES TO EMPLOYEES ON DUTY BY TYPE OF INJURY AND RAILROAD

Railroad	Amputations					Fractures						
	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total		
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	---	1	---	1	---	2	7	23	16	6	9	61
Atchison, Topeka And Santa Fe Rwy Co.	---	4	---	1	---	5	15	37	20	5	25	102
Springfield Terminal Railway Company	---	---	---	1	---	1	2	---	4	3	3	12
Burlington Northern Incorporated	---	4	2	1	---	7	27	56	35	26	30	174
Chicago And North Western	---	4	---	---	1	5	2	21	9	3	8	43
Consolidated Rail Corporation	---	1	2	---	---	3	20	72	27	13	22	154
CSX Transportation	---	7	3	3	---	13	30	65	55	9	34	193
Delaware And Hudson Railway	---	1	---	---	---	1	2	2	1	---	---	5
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	2	1	---	---	2	5
Elgin, Joliet And Eastern Railway Co.	---	1	---	---	---	1	3	---	2	1	---	6
Florida East Coast Railway Co.	---	---	---	---	---	---	---	1	---	---	---	2
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	4	2	1	1	2	10
Illinois Central Railroad Co.	---	---	1	---	---	1	5	8	4	4	4	25
Kansas City Southern Railway Co.	---	---	---	---	---	---	2	---	2	---	1	5
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	---	1	1
Norfolk Southern Corporation	---	4	1	---	---	5	19	29	33	3	21	105
Soo Line Railroad Company	---	---	---	---	---	---	12	17	4	3	4	40
Southern Pacific Transportation Co.	---	---	---	---	---	---	14	20	25	10	17	86
St. Louis Southwestern Railway Co.	---	---	2	---	---	2	1	2	3	1	8	15
Union Pacific Railroad Co.	---	5	---	1	---	6	21	53	24	15	35	148
Total Class I Railroads.....	---	32	11	8	1	52	188	409	266	103	226	1,192
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	---	32	11	8	1	52	188	409	266	103	226	1,192
Class II Railroads	---	---	---	---	---	---	7	10	6	2	6	31
Class III Railroads	---	10	---	2	---	12	38	90	42	35	47	252
Total All Railroads.....	---	42	11	10	1	64	233	509	314	140	279	1,475

TABLE 40. (CONTINUED)

RailroadOther Injuries.....										Total	Total
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other				
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)	303	503	156	12	27	6	44	92	1,143	1,206		
Atchison, Topeka And Santa Fe Rwy Co.	171	489	125	---	12	9	60	64	930	1,037		
Springfield Terminal Railway Company	21	46	22	3	3	---	2	4	101	114		
Burlington Northern Incorporated	551	1,757	317	---	32	17	171	227	3,072	3,253		
Chicago And North Western	67	235	60	---	3	3	24	38	430	478		
Consolidated Rail Corporation	298	796	202	5	31	7	100	149	1,588	1,745		
CSX Transportation	452	1,356	260	7	32	14	108	200	2,429	2,635		
Delaware And Hudson Railway	6	12	10	---	1	1	3	5	38	44		
Denver And Rio Grande Western RR Co.	19	61	17	---	---	---	11	7	115	120		
Elgin, Joliet And Eastern Railway Co.	23	30	5	1	---	---	1	4	64	71		
Florida East Coast Railway Co.	1	4	4	---	---	---	1	1	11	13		
Grand Trunk Western Railroad Co.	46	158	20	1	4	---	10	25	264	274		
Illinois Central Railroad Co.	54	137	29	2	3	---	20	15	260	286		
Kansas City Southern Railway Co.	25	49	9	---	2	3	10	7	105	110		
Louisiana And Arkansas Rwy Company	15	26	3	---	3	---	3	4	54	55		
Norfolk Southern Corporation	230	633	187	3	17	13	52	95	1,230	1,340		
Soo Line Railroad Company	92	275	38	2	7	2	19	41	476	516		
Southern Pacific Transportation Co.	152	434	146	2	21	3	68	69	895	981		
St. Louis Southwestern Railway Co.	29	43	10	---	2	2	4	9	99	116		
Union Pacific Railroad Co.	396	1,431	234	6	32	15	121	212	2,447	2,601		
Total Class I Railroads.....	2,951	8,475	1,854	44	232	95	832	1,268	15,751	16,995		
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	2,951	8,475	1,854	44	232	95	832	1,268	15,751	16,995		
Class II Railroads	51	194	32	2	16	2	34	26	357	388		
Class III Railroads	865	1,813	591	48	74	25	405	324	4,145	4,409		
Total All Railroads.....	3,867	10,482	2,477	94	322	122	1,271	1,618	20,253	21,792		

TABLE 41. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

Railroad	..Collisions..		...Derailments...		.....Other.....		.....Total.....		Rate*	Train Miles
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured		
CLASS I RAILROADS										
Amtrak (National RR Passenger Corp)	1	10	---	42	18	83	19	135	3.95	38,976,550
Atchafalaya, Topeka And Santa Fe Rwy Co.	2	16	---	1	3	4	5	21	0.51	50,262,154
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	0.00	1,349,580
Burlington Northern Incorporated	---	2	---	16	7	37	7	55	0.70	87,973,832
Chicago And North Western	---	3	---	2	3	2	3	7	0.53	18,561,983
Consolidated Rail Corporation	---	4	---	4	3	17	3	25	0.58	48,153,848
CSX Transportation	1	13	1	22	7	27	9	62	1.04	68,005,329
Delaware And Hudson Railway	---	2	---	---	---	---	---	2	1.34	1,484,500
Denver And Rio Grande Western RR Co.	---	---	---	2	---	---	---	2	0.28	7,058,487
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	1	---	1	0.60	1,660,343
Florida East Coast Railway Co.	---	---	---	1	---	---	---	1	0.31	3,219,309
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	0.00	5,809,803
Illinois Central Railroad Co.	1	11	---	3	---	4	1	18	2.08	9,108,322
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	0.00	10,462,531
Louisiana And Arkansas Rwy Company	---	---	---	1	1	3	1	4	1.02	4,890,761
Norfolk Southern Corporation	---	1	---	3	7	15	7	19	0.50	51,388,959
Soo Line Railroad Company	---	---	---	5	---	---	---	5	0.57	8,680,071
Southern Pacific Transportation Co.	---	2	4	10	7	17	11	29	0.93	42,852,553
St. Louis Southwestern Railway Co.	---	1	---	1	1	7	1	9	1.09	9,133,486
Union Pacific Railroad Co.	2	17	2	7	8	20	12	44	0.76	73,542,594
Total Class I Railroads.....	7	82	7	120	65	237	79	439	0.95	542,574,995
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	7	82	7	120	65	237	79	439	0.95	542,574,995
Class II Railroads	---	---	---	1	1	4	1	5	0.94	6,352,462
Class III Railroads	---	37	---	13	7	77	7	127	1.86	71,671,483
Total All Railroads.....	7	119	7	134	73	318	87	571	1.06	620,598,940

NOTE: Injured columns include nonfatal occupational illnesses.
Rate is frequency per 1,000,000 train miles.

**TABLE 42. CASUALTIES TO EMPLOYEES ON DUTY BY JOB
CATEGORY AND RAILROAD**

Railroad	I. Exec Office Staff II. Prof, Clerical, General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS									
Amtrak (National RR Passenger Corp)	---	124	---	1	247	1	---	325	---
Atchison, Topeka And Santa Fe Rwy Co.	---	49	---	1	370	1	---	254	5
Springfield Terminal Railway Company	---	6	---	---	35	---	---	30	2
Burlington Northern Incorporated	---	95	6	1	922	20	1	799	32
Chicago And North Western	---	15	---	---	140	8	---	159	2
Consolidated Rail Corporation	---	119	2	---	541	20	---	356	2
CSX Transportation	1	101	---	2	686	17	1	711	1
Delaware And Hudson Railway	---	1	---	---	12	---	---	9	---
Denver And Rio Grande Western RR Co.	---	2	---	---	30	---	---	25	---
Elgin, Joliet And Eastern Railway Co.	---	17	---	1	23	---	---	6	---
Florida East Coast Railway Co.	---	---	---	---	4	---	---	3	---
Grand Trunk Western Railroad Co.	---	12	---	---	58	---	---	84	---
Illinois Central Railroad Co.	---	2	---	---	61	3	---	50	---
Kansas City Southern Railway Co.	---	1	---	---	39	---	---	29	---
Louisiana And Arkansas Rwy Company	---	---	---	---	14	1	---	5	---
Norfolk Southern Corporation	---	53	---	---	420	2	---	380	2
Soo Line Railroad Company	---	7	---	---	207	5	---	57	1
Southern Pacific Transportation Co.	---	97	2	2	291	8	---	200	5
St. Louis Southwestern Railway Co.	---	10	1	---	24	1	---	30	---
Union Pacific Railroad Co.	1	158	10	1	776	8	---	488	4
Total Class I Railroads.....	2	869	21	9	4,900	95	3	4,000	56
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads	2	869	21	9	4,900	95	3	4,000	56
Class II Railroads	---	12	---	---	127	6	1	133	---
Class III Railroads	1	246	10	3	1,508	34	2	1,228	19
Total All Railroads.....	3	1,127	31	12	6,535	135	6	5,361	75

TABLE 42. (CONTINUED)

Railroad	V. Transportation Not train, engine			VI Transportation Train and Engine		
	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS						
Amtrak (National RR Passenger Corp)	---	307	---	4	203	---
Atchison, Topeka And Santa Fe Rwy Co.	---	8	---	5	356	4
Springfield Terminal Railway Company	---	2	---	---	41	---
Burlington Northern Incorporated	---	40	5	3	1,397	25
Chicago And North Western	---	16	1	2	148	3
Consolidated Rail Corporation	---	76	3	---	653	36
CSX Transportation	---	44	---	5	1,093	1
Delaware And Hudson Railway	---	1	---	---	21	---
Denver And Rio Grande Western RR Co.	---	---	---	---	63	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	25	---
Florida East Coast Railway Co.	---	---	---	---	6	---
Grand Trunk Western Railroad Co.	---	8	---	---	112	---
Illinois Central Railroad Co.	---	3	---	1	170	1
Kansas City Southern Railway Co.	---	---	---	---	41	3
Louisiana And Arkansas Rwy Company	---	---	---	---	36	1
Norfolk Southern Corporation	---	24	---	1	463	5
Soo Line Railroad Company	---	11	---	1	234	---
Southern Pacific Transportation Co.	---	17	---	3	376	17
St. Louis Southwestern Railway Co.	---	1	---	---	51	1
Union Pacific Railroad Co.	---	29	3	3	1,150	9
Total Class I Railroads.....	---	587	12	26	6,639	106
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)						
Class I Railroads	---	587	12	26	6,639	106
Class II Railroads	---	4	---	---	112	2
Class III Railroads	---	111	---	2	1,316	30
Total All Railroads.....	---	702	12	28	8,067	138

**TABLE 43. CASUALTY RATES FOR EMPLOYEES ON DUTY
BY RAILROAD**

Railroad	Fatalities #	Fatalities Rate	Injuries #	Injuries Rate	Illnesses #	Illnesses Rate	...Total... #	...Total... Rate	Employee Manhours
Amtrak (National RR Passenger Corp)	5	0.02	1,206	5.25	1	0.00	1,212	5.27	45,957,927
Atchison, Topeka And Santa Fe Rwy Co.	5	0.03	1,037	6.17	10	0.06	1,052	6.26	33,622,543
Springfield Terminal Railway Company	---	0.00	114	7.07	2	0.12	116	7.19	3,224,991
Burlington Northern Incorporated	5	0.02	3,253	10.34	88	0.28	3,346	10.64	62,903,840
Chicago And North Western	2	0.02	478	5.84	14	0.17	494	6.03	16,372,153
Consolidated Rail Corporation	---	0.00	1,745	6.21	63	0.22	1,808	6.43	56,243,865
CSX Transportation	9	0.02	2,635	7.12	19	0.05	2,663	7.19	74,037,540
Delaware And Hudson Railway	---	0.00	44	5.09	---	0.00	44	5.09	1,730,000
Denver And Rio Grande Western RR Co.	---	0.00	120	5.15	---	0.00	120	5.15	4,661,419
Elgin, Joliet And Eastern Railway Co.	1	0.08	71	5.62	---	0.00	72	5.70	2,526,422
Florida East Coast Railway Co.	---	0.00	13	1.10	---	0.00	13	1.10	2,356,142
Grand Trunk Western Railroad Co.	---	0.00	274	7.70	---	0.00	274	7.70	7,113,288
Illinois Central Railroad Co.	1	0.03	286	7.50	4	0.10	291	7.63	7,624,738
Kansas City Southern Railway Co.	---	0.00	110	10.28	3	0.28	113	10.56	2,140,482
Louisiana And Arkansas Rwy Company	---	0.00	55	5.70	2	0.21	57	5.90	1,930,631
Norfolk Southern Corporation	1	0.00	1,340	4.79	9	0.03	1,350	4.83	55,922,791
Soo Line Railroad Company	1	0.02	516	11.64	6	0.14	523	11.80	8,863,563
Southern Pacific Transportation Co.	5	0.03	981	5.41	32	0.18	1,018	5.61	36,260,580
St. Louis Southwestern Railway Co.	---	0.00	116	4.73	3	0.12	119	4.85	4,908,576
Union Pacific Railroad Co.	5	0.02	2,601	8.39	34	0.11	2,640	8.52	61,992,016
Total Class I Railroads.....	40	0.02	16,995	6.93	290	0.12	17,325	7.07	490,393,507
Class I Railroads	40	0.02	16,995	6.93	290	0.12	17,325	7.07	490,393,507
Class II Railroads	1	0.02	388	8.79	8	0.18	397	8.99	8,831,508
Class III Railroads	8	0.02	4,409	11.14	93	0.23	4,510	11.39	79,184,723
Total All Railroads.....	49	0.02	21,792	7.54	391	0.14	22,232	7.69	578,409,738

"Rate" is the frequency per 200,000 manhours

TABLE 44. SUMMARY OF NONFATAL INJURIES TO EMPLOYEES ON DUTY BY RAILROAD

Railroad	Total Cases	Cases With Total Cases	Days Away From Work Lost Day Cases	From Work Restricted Cases	Or Days Of Days Away From Work	Restriction Days Of Restriction	Other Cases
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp)	1,206	916	879	37	38,999	732	290
Atchison, Topeka And Santa Fe Rwy Co.	1,037	720	556	164	10,193	3,666	317
Springfield Terminal Railway Company	114	90	48	42	951	449	24
Burlington Northern Incorporated	3,253	2,619	2,250	369	110,644	9,197	634
Chicago And North Western	478	329	313	16	16,788	301	149
Consolidated Rail Corporation	1,745	1,311	1,230	81	84,252	2,104	434
CSX Transportation	2,635	2,160	2,133	27	47,094	497	475
Delaware And Hudson Railway	44	36	34	2	511	14	8
Denver And Rio Grande Western RR Co.	120	91	75	16	1,552	319	29
Elgin, Joliet And Eastern Railway Co.	71	31	25	6	583	22	40
Florida East Coast Railway Co.	13	8	6	2	155	25	5
Grand Trunk Western Railroad Co.	274	224	187	37	4,213	433	50
Illinois Central Railroad Co.	286	207	207	---	5,175	1	79
Kansas City Southern Railway Co.	110	87	87	---	3,148	---	23
Louisiana And Arkansas Rwy Company	55	50	50	---	1,828	180	5
Norfolk Southern Corporation	1,340	974	863	111	16,364	1,089	366
Soo Line Railroad Company	516	377	321	56	10,193	830	139
Southern Pacific Transportation Co.	981	685	592	93	14,490	1,568	296
St. Louis Southwestern Railway Co.	116	90	82	8	2,271	360	26
Union Pacific Railroad Co.	2,601	1,962	1,577	385	55,527	7,974	639
Total Class I Railroads.....	16,995	12,967	11,515	1,452	424,931	29,761	4,028
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	39	32	32	---	554	---	7
Bessemer And Lake Erie Railroad Co.	16	4	2	2	11	3	12
Canadian Pacific Lines In Maine	5	2	2	---	279	---	3
Central Vermont Railway Inc.	18	14	14	---	282	---	4
Chicago And Illinois Midland Rwy Co.	31	18	18	---	699	50	13
Chicago South Shore And South Bend RR	21	14	14	---	401	---	7
Duluth, Missabe And Iron Range Rwy Co.	45	28	13	15	268	175	17
Duluth, Winnipeg And Pacific Rwy Co.	9	6	3	3	24	42	3
Green Bay And Western Railroad	13	13	13	---	142	---	---
Ann Arbor Railroad (formerly MIRR)	3	3	3	---	18	---	---
Monogahela Railway	27	25	25	---	595	---	2
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Pittsburg And Lake Erie Railroad Co.	56	32	28	4	755	100	24
Richmond, Fredericksburg And Potomac	49	40	40	---	620	---	9
Texas And Northern Railway Company	2	2	1	1	139	10	---
Texas, Mexican Railway Company	54	45	42	3	896	18	9
Total Class II Railroads.....	388	278	250	28	5,683	398	110
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	16,995	12,967	11,515	1,452	424,931	29,761	4,028
Class II Railroads	388	278	250	28	5,683	398	110
Class III Railroads	4,409	3,184	2,896	288	48,053	5,232	1,225
Total All Railroads.....	21,792	16,429	14,661	1,768	478,667	35,391	5,363

TABLE 45. SUMMARY OF EMPLOYEE ON DUTY CASUALTIES BY REPORTABILITY CRITERIA AND RAILROAD

Railroad	Total Cases	Fatalities	Total Injuries	Injuries Reported For Days Away From Work	Restricted Activity	Following Medical Treatment	Medical Treatment	Occupational Illness
CLASS I RAILROADS								
Amtrak (National RR Passenger Corp)	1,212	5	1,206	879	37	122	168	1
Atchafalaya, Topeka And Santa Fe Rwy Co.	1,052	5	1,037	556	164	84	233	10
Springfield Terminal Railway Company	116	---	114	48	42	7	17	2
Burlington Northern Incorporated	3,346	5	3,253	2,250	369	168	466	88
Chicago And North Western	494	2	478	313	16	85	64	14
Consolidated Rail Corporation	1,808	---	1,745	1,230	81	179	255	63
CSX Transportation	2,663	9	2,635	2,133	27	181	294	19
Delaware And Hudson Railway	44	---	44	34	2	---	8	---
Denver And Rio Grande Western RR Co.	120	---	120	75	16	---	29	---
Elgin, Joliet And Eastern Railway Co.	72	1	71	25	6	---	40	---
Florida East Coast Railway Co.	13	---	13	6	2	---	5	---
Grand Trunk Western Railroad Co.	274	---	274	187	37	---	50	---
Illinois Central Railroad Co.	291	1	286	207	---	---	79	4
Kansas City Southern Railway Co.	113	---	110	87	---	---	23	3
Louisiana And Arkansas Rwy Company	57	---	55	50	---	---	5	2
Norfolk Southern Corporation	1,350	1	1,340	863	111	15	351	9
Soo Line Railroad Company	523	1	516	321	56	47	92	6
Southern Pacific Transportation Co.	1,018	5	981	592	93	---	296	32
St. Louis Southwestern Railway Co.	119	---	116	82	8	---	26	3
Union Pacific Railroad Co.	2,640	5	2,601	1,577	385	298	341	34
Total Class I Railroads.....	17,325	40	16,995	11,515	1,452	1,186	2,842	290
RECAPITULATION								
Class I Railroads	17,325	40	16,995	11,515	1,452	1,186	2,842	290
Class II Railroads	397	1	388	250	28	48	62	8
Class III Railroads	4,510	8	4,409	2,896	288	300	925	93
Total All Railroads.....	22,232	49	21,792	14,661	1,768	1,534	3,829	391

7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

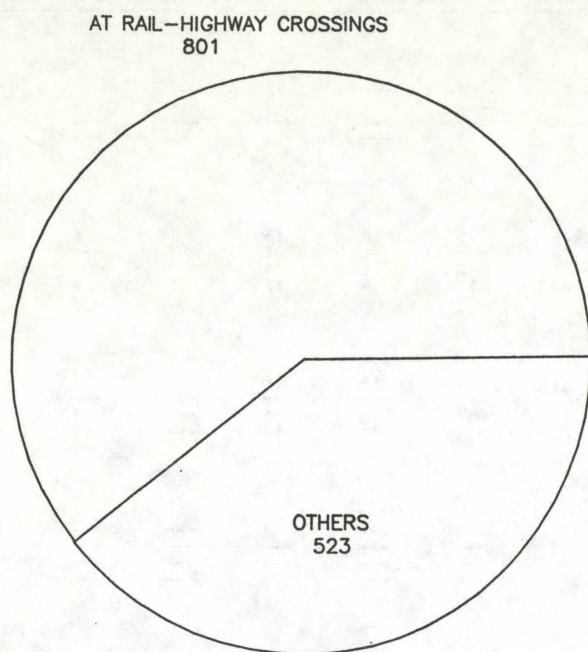


FIGURE 28. FATALITIES: RAIL-HIGHWAY CROSSINGS AND OTHER

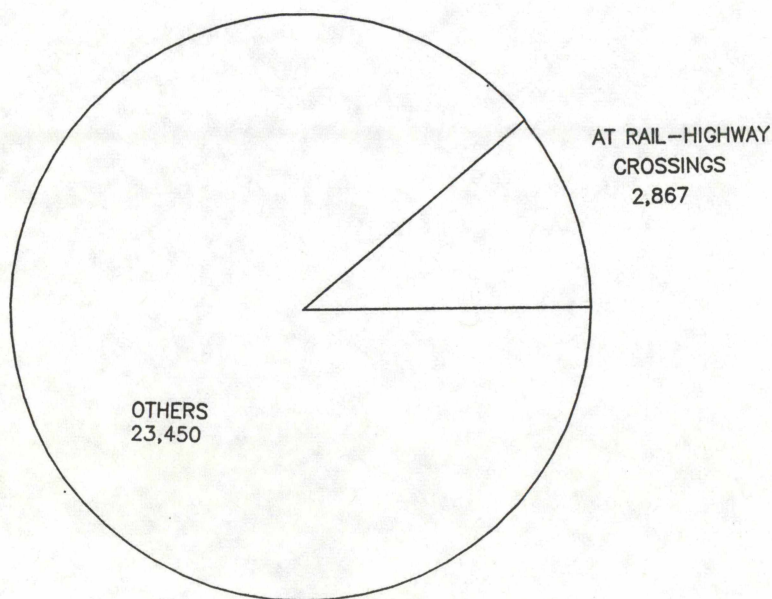


FIGURE 29. INJURIES: RAIL-HIGHWAY CROSSINGS AND OTHER

**TABLE 46. FATALITIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD,
AND TYPE OF PERSON**

Type Of Accident/Incident	Total A/I W. Cas	Fatal A/I	Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
				Trainmen	Other	Total			
TRAIN ACCIDENTS									
Class I Railroads.....	118	12	16	12	---	12	---	3	1
Class II Railroads.....	2	---	---	---	---	---	---	---	---
Class III Railroads.....	18	---	---	---	---	---	---	---	---
Total All Railroads.....	138	12	16	12	---	12	---	3	1
TRAIN INCIDENTS									
Class I Railroads.....	3,296	392	404	9	4	13	1	15	369
Class II Railroads.....	62	3	3	---	1	1	---	---	2
Class III Railroads.....	679	58	58	2	1	3	---	1	54
Total All Railroads.....	4,037	453	465	11	6	17	1	16	425
NONTRAIN INCIDENTS									
Class I Railroads.....	14,786	27	31	1	10	11	---	7	12
Class II Railroads.....	359	---	---	---	---	---	---	---	---
Class III Railroads.....	4,555	11	11	---	5	5	---	2	3
Total All Railroads.....	19,700	38	42	1	15	16	---	9	15
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	2,287	608	753	4	---	4	---	570	179
Class II Railroads.....	14	2	3	---	---	---	---	1	2
Class III Railroads.....	267	38	45	---	---	---	---	26	19
Total All Railroads.....	2,568	648	801	4	---	4	---	597	200
GRAND TOTAL									
Class I Railroads.....	20,487	1,039	1,204	26	14	40	1	595	561
Class II Railroads.....	437	5	6	---	1	1	---	1	4
Class III Railroads.....	5,519	107	114	2	6	8	---	29	76
Total All Railroads.....	26,443	1,151	1,324	28	21	49	1	625	641

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

**TABLE 47. INJURIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD,
AND TYPE OF PERSON**

Type Of Accident/Incident	Total A/I W. Cas	Injury A/I	Total Injured	...Employees On Duty...		Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS										
Class I Railroads.....	118	106	253	174	34	208	5	33	7	---
Class II Railroads.....	2	2	2	2	---	2	---	---	---	---
Class III Railroads.....	18	17	55	20	1	21	---	33	1	---
Total All Railroads.....	138	125	310	196	35	231	5	66	8	---
TRAIN INCIDENTS										
Class I Railroads.....	3,296	2,865	2,974	2,065	435	2,500	5	37	26	406
Class II Railroads.....	62	58	58	34	17	51	---	2	3	2
Class III Railroads.....	679	609	597	412	97	509	---	40	14	34
Total All Railroads.....	4,037	3,532	3,629	2,511	549	3,060	5	79	43	442
NONTRAIN INCIDENTS										
Class I Railroads.....	14,786	14,521	14,789	4,246	9,854	14,100	334	34	260	61
Class II Railroads.....	359	352	355	73	257	330	1	6	17	1
Class III Railroads.....	4,555	4,460	4,367	871	2,992	3,863	56	134	290	24
Total All Railroads.....	19,700	19,333	19,511	5,190	13,103	18,293	391	174	567	86
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,287	1,679	2,495	154	33	187	---	29	1,978	301
Class II Railroads.....	14	12	17	3	2	5	---	---	10	2
Class III Railroads.....	267	229	355	13	3	16	---	51	221	67
Total All Railroads.....	2,568	1,920	2,867	170	38	208	---	80	2,209	370
GRAND TOTAL										
Class I Railroads.....	20,487	19,171	20,511	6,639	10,356	16,995	344	133	2,271	768
Class II Railroads.....	437	424	432	112	276	388	1	8	30	5
Class III Railroads.....	5,519	5,315	5,374	1,316	3,093	4,409	56	258	526	125
Total All Railroads.....	26,443	24,910	26,317	8,067	13,725	21,792	401	399	2,827	898

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

TABLE 48. ILLNESSES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Illness A/I	Total Illness	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
				Trainmen	Other	Total			
TRAIN ACCIDENTS									
Class I Railroads.....	118	---	---	---	---	---	---	---	---
Class II Railroads.....	2	---	---	---	---	---	---	---	---
Class III Railroads.....	18	1	1	1	---	1	---	---	---
Total All Railroads.....	138	1	1	1	---	1	---	---	---
TRAIN INCIDENTS									
Class I Railroads.....	3,296	39	47	44	3	47	---	---	---
Class II Railroads.....	62	1	1	1	---	1	---	---	---
Class III Railroads.....	679	12	12	12	---	12	---	---	---
Total All Railroads.....	4,037	52	60	57	3	60	---	---	---
NONTRAIN INCIDENTS									
Class I Railroads.....	14,786	238	247	61	181	242	4	---	1
Class II Railroads.....	359	7	7	1	6	7	---	---	---
Class III Railroads.....	4,555	84	82	17	63	80	2	---	---
Total All Railroads.....	19,700	329	336	79	250	329	6	---	1
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	2,287	---	1	1	---	1	---	---	---
Class II Railroads.....	14	---	---	---	---	---	---	---	---
Class III Railroads.....	267	---	---	---	---	---	---	---	---
Total All Railroads.....	2,568	---	1	1	---	1	---	---	---
GRAND TOTAL									
Class I Railroads.....	20,487	277	295	106	184	290	4	---	1
Class II Railroads.....	437	8	8	2	6	8	---	---	---
Class III Railroads.....	5,519	97	95	30	63	93	2	---	---
Total All Railroads.....	26,443	382	398	138	253	391	6	---	1

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

TABLE 49. NATURE OF INJURIES BY TYPE OF ACCIDENT/INCIDENT

Type of Accident/Incident	Amputations						Fractures					
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
TRAIN ACCIDENTS												
Collisions	---	---	---	---	---	---	6	---	3	---	5	14
Derailements	---	---	---	---	---	---	1	1	---	---	3	5
Rail-highway x-ing	1	---	---	---	---	1	---	---	9	---	20	29
Miscellaneous	---	---	---	---	---	---	---	---	---	---	2	2
Total	1	---	---	---	---	1	7	1	12	---	30	50
TRAIN INCIDENTS												
Coupling and uncoupling locomotives or	---	3	---	1	---	4	4	4	---	4	1	13
Coupling/uncoupling air/steam hose, saf	---	---	1	---	---	1	1	1	---	---	---	2
Operating on or on locomotives	---	---	---	---	---	---	5	6	1	---	7	19
Operating rail motorcars	---	---	---	---	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	2	2	---	4	2	2	2	1	3	10
Operating switches or derails	---	---	---	---	---	---	---	---	---	---	---	---
Contacting fixed objects while on loco	---	---	---	---	---	---	2	1	2	1	4	10
Getting on or off cars or locomotives	---	---	19	4	---	23	16	2	29	3	11	61
Collisions, derailements, etc. (<= \$5.7	---	---	1	---	---	1	---	---	---	---	2	2
Rail-highway crossing accidents/incide	2	---	3	---	---	5	57	---	83	---	153	293
Struck by/ran into loco/car(not at rr-	18	8	80	6	4	116	22	1	32	2	23	80
Servicing or maintenance of equipment	---	2	---	---	---	2	---	2	---	1	1	4
Maintenance of way and structures	---	---	---	---	---	---	---	3	5	1	3	12
Freight, baggage, express or mail	---	---	---	1	---	1	---	---	---	---	2	2
Windows, doors, etc., on on-track equi	---	---	---	---	---	---	1	10	---	---	1	12
Passenger car doors	---	---	---	---	---	---	---	---	---	---	1	1
Stumbling, slipping, falling, caught,	1	1	3	---	---	5	10	3	3	---	9	25
Flying or falling objects, burns, etc.	---	---	---	---	---	---	---	---	---	2	---	2
Operation of on-track work equipment	---	1	---	---	---	1	---	1	1	---	1	3
Assault	---	---	---	---	---	---	---	1	---	---	2	3
Other occurrences	---	---	4	1	---	5	4	4	2	---	10	20
Total	21	15	113	15	4	168	124	41	160	15	234	574
NONTRAIN INCIDENTS												
Coupling and uncoupling locomotives or	---	---	1	---	---	1	4	5	4	2	6	21
Coupling/uncoupling air/steam hose, saf	---	---	---	---	---	---	5	5	1	---	4	15
Operating on or on locomotives	---	---	---	1	---	1	9	9	2	1	4	25
Operating rail motorcars	---	---	---	---	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	6	14	1	1	5	27
Operating switches or derails	---	---	---	---	---	---	3	12	2	9	9	35
Contacting fixed objects while on loco	---	---	---	---	---	---	---	1	---	---	---	1
Getting on or off cars or locomotives	---	---	---	---	---	---	10	12	34	3	14	73
Collisions, derailements, etc. (<= \$5.7	---	---	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	---	---	---	---	---	---	2	---	1	---	2	5
Struck by/ran into loco/car(not at rr-	---	---	---	---	---	---	---	---	1	1	---	3
Servicing or maintenance of equipment	---	14	1	2	---	17	45	161	51	46	48	351
Maintenance of way and structures	1	15	---	1	1	18	58	198	115	58	64	493
Freight, baggage, express or mail	1	---	---	---	---	1	---	2	1	---	---	3
Windows, doors, etc., on on-track equi	---	1	---	---	---	1	2	26	2	---	5	35
Passenger car doors	---	---	---	---	---	---	---	1	---	---	---	1
Stumbling, slipping, falling, caught,	---	2	---	---	---	2	51	14	88	6	46	205
Flying or falling objects, burns, etc.	---	---	---	---	---	---	1	3	8	2	---	14
Operation of on-track work equipment	---	1	---	---	---	1	1	2	1	1	2	7
Assault	---	---	---	---	---	---	3	1	2	---	9	15
Other occurrences	---	2	1	1	---	4	19	19	28	5	42	113
Total	2	35	3	5	1	46	219	485	343	135	260	1,442
Grand Total	24	50	116	20	5	215	350	527	515	150	524	2,066

TABLE 49. (CONTINUED)

Type of Accident/Incident	.....Other Injuries.....								Total	Total Injured
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- cation	Object In Eye	Other		
TRAIN ACCIDENTS										
Collisions	33	34	9	---	---	---	---	29	105	119
Deraillments	60	46	6	---	1	2	---	14	129	134
Rail-highway x-ing	92	65	25	---	1	1	1	45	230	260
Miscellaneous	16	28	8	---	---	---	---	3	55	5
Total.....	201	173	48	---	2	3	1	91	519	570
TRAIN INCIDENTS										
Coupling and uncoupling locomotives or	46	107	19	---	---	3	8	4	187	204
Coupling/uncoupling air/steam hose, saf	12	7	10	1	---	---	4	1	35	38
Operating or on locomotives.....	131	232	40	1	4	1	207	85	701	720
Operating rail motorcars.....	5	6	2	---	---	---	3	1	17	17
Operating hand brakes.....	23	53	10	---	---	1	---	2	89	103
Operating switches or derails.....	5	12	2	---	---	---	5	3	27	27
Contacting fixed objects while on loco	43	13	10	---	---	---	1	3	70	80
Getting on or off cars or locomotives.	159	402	63	1	---	10	1	19	655	739
Collisions, derailments, etc. (<= \$5,7	31	67	11	---	---	---	---	12	121	124
Rail-highway crossing accidents/incide	572	247	562	1	4	15	---	840	2,241	2,539
Struck by/ran into loco/car(not at rr-	49	17	85	---	---	1	---	82	234	430
Servicing or maintenance of equipment.	28	41	9	1	---	1	1	5	86	92
Maintenance of way and structures.....	25	39	14	---	1	2	---	7	88	100
Freight, baggage, express or mail.....	5	4	5	---	---	---	2	---	16	19
Windows, doors, etc., on on-track equi	24	39	13	---	---	---	1	2	79	91
Passenger car doors.....	---	1	2	---	---	---	---	---	3	4
Stumbling, slipping, falling, caught,	82	88	32	---	5	3	3	6	219	249
Flying or falling objects, burns, etc.	11	7	6	2	6	---	106	18	156	158
Operation of on-track work equipment..	23	34	9	---	---	1	---	2	69	73
Assault.....	18	3	19	---	---	---	10	8	58	61
Other occurrences.....	99	112	30	---	3	---	3	28	275	300
Total.....	1,391	1,531	953	7	23	38	355	1,128	5,426	6,168
NONTRAIN INCIDENTS										
Coupling and uncoupling locomotives or	68	329	33	---	1	3	7	27	468	490
Coupling/uncoupling air/steam hose, saf	62	105	44	---	3	1	15	17	247	262
Operating or on locomotives.....	94	239	46	4	9	2	60	71	525	555
Operating rail motorcars.....	4	10	3	1	---	---	---	2	20	20
Operating hand brakes.....	55	265	27	---	---	2	7	11	367	394
Operating switches or derails.....	89	884	24	---	1	7	7	39	1,051	1,086
Contacting fixed objects while on loco	9	9	4	---	---	---	---	1	23	24
Getting on or off cars or locomotives.	228	629	83	3	1	12	3	33	992	1,065
Collisions, derailments, etc. (<= \$5,7	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	14	4	21	---	---	---	---	24	63	68
Struck by/ran into loco/car(not at rr-	3	2	1	1	---	---	---	3	10	13
Servicing or maintenance of equipment.	721	1,952	694	42	139	20	391	256	4,215	4,583
Maintenance of way and structures.....	822	2,569	880	32	112	35	242	423	5,115	5,626
Freight, baggage, express or mail.....	19	47	5	---	---	---	1	3	75	79
Windows, doors, etc., on on-track equi	73	125	79	2	---	1	6	14	300	336
Passenger car doors.....	3	6	3	---	---	---	---	---	12	13
Stumbling, slipping, falling, caught,	492	1,233	182	1	2	23	2	85	2,020	2,227
Flying or falling objects, burns, etc.	41	17	32	12	32	---	181	60	375	389
Operation of on-track work equipment..	15	53	9	---	---	---	---	2	79	87
Assault.....	68	48	54	---	1	1	3	16	191	206
Other occurrences.....	333	885	213	2	14	7	31	458	1,943	2,060
Total.....	3,213	9,411	2,437	100	315	114	956	1,545	18,091	19,579
Grand Total.....	4,805	11,115	3,438	107	340	155	1,312	2,764	24,036	26,317

TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON

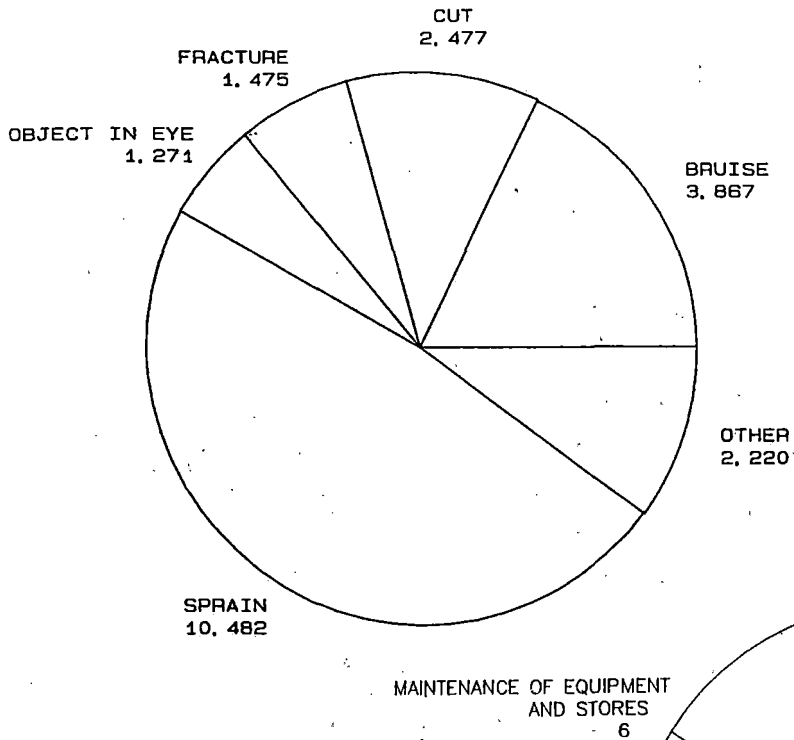
Type Person	Amputations					Fractures						
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
EMPLOYEES ON DUTY												
YARD SERVICE:												
Engineers and Motormen	---	---	---	---	---	---	5	5	---	1	3	14
Firemen and Helpers	---	---	---	---	---	---	1	---	---	---	---	1
Conductors and Foremen	---	1	1	2	---	4	8	15	14	5	11	53
Brakemen and Helpers	---	2	5	1	---	8	11	16	16	10	22	75
Total.....	---	3	6	3	---	12	25	36	30	16	36	143
FREIGHT SERVICE:												
Engineers and Motormen	---	1	---	---	---	1	10	5	10	1	13	39
Firemen and Helpers	---	---	---	---	---	---	---	1	---	---	---	1
Conductors and Foremen	---	2	1	---	---	3	14	15	14	3	23	69
Brakemen and Helpers	---	---	2	1	---	3	29	29	30	6	29	123
Total.....	---	3	3	1	---	7	53	50	54	10	65	232
PASSENGER SERVICE:												
Engineers and Motormen	---	---	---	---	---	---	1	2	3	1	2	9
Firemen and Helpers	---	---	---	---	---	---	---	---	1	---	---	1
Conductors and Foremen	---	---	---	---	---	---	1	2	1	2	6	12
Baggagemen	---	---	---	---	---	---	---	---	---	---	---	---
Brakemen and Helpers	---	1	---	---	---	1	1	3	2	---	---	6
Total.....	---	1	---	---	---	1	3	7	7	3	8	28
HOSTLERS												

--SUMMARY--												
Total employees on duty	---	42	11	10	1	64	233	509	314	140	279	1,475
Employees not on duty	---	1	---	---	---	1	11	3	18	2	9	43
Passengers	---	---	1	---	---	1	9	3	11	3	18	44
Nontrespassers	5	1	3	1	---	10	65	11	109	2	168	355
Trespassers	19	6	101	9	4	139	32	1	63	3	50	149
Grand total	24	50	116	20	5	215	350	527	515	150	524	2,066

TABLE 50. (CONTINUED)

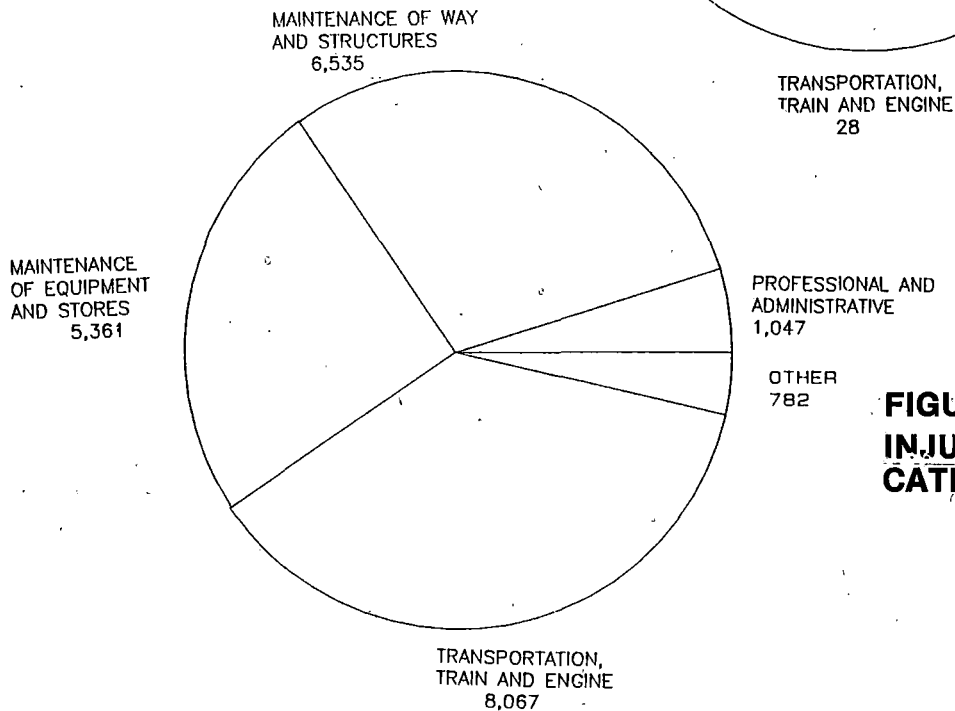
Type Person	.....Other Injuries.....								Total	Total Injured
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- cation	Object In Eye	Other		
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen	67	188	26	---	1	1	48	27	358	372
Firemen and Helpers	1	6	1	---	---	---	---	1	9	10
Conductors and Foremen	130	359	65	1	3	6	55	38	657	714
Brakemen and Helpers	322	945	123	---	6	10	131	70	1,607	1,690
Total.....	520	1,498	215	1	10	17	234	136	2,631	2,786
FREIGHT SERVICE:										
Engineers and Motormen	150	466	53	2	7	1	79	101	859	899
Firemen and Helpers	9	11	3	---	---	---	1	---	24	25
Conductors and Foremen	267	644	98	---	8	12	74	103	1,206	1,278
Brakemen and Helpers	409	1,167	126	2	8	14	113	147	1,986	2,112
Total.....	835	2,288	280	4	23	27	267	351	4,075	4,314
PASSENGER SERVICE:										
Engineers and Motormen	29	83	18	2	---	1	34	13	180	189
Firemen and Helpers	9	16	1	---	1	---	4	3	34	35
Conductors and Foremen	110	262	37	3	1	1	40	30	484	496
Baggagemen	1	---	---	---	---	---	---	---	1	1
Brakemen and Helpers	15	35	12	1	1	---	8	7	79	86
Total.....	164	396	68	6	3	2	86	53	778	807
HOSTLERS										
	28	65	6	---	---	1	4	9	113	113
--SUMMARY--										
Total employees on duty	3,867	10,482	2,477	94	322	122	1,271	1,618	20,253	21,792
Employees not on duty	85	176	42	---	7	2	10	35	357	401
Passengers	130	84	67	1	1	7	4	60	354	399
Nontrespassers	593	339	642	2	8	21	27	830	2,462	2,827
Trespassers	130	34	210	10	2	3	---	221	610	898
Grand total	4,805	11,115	3,438	107	340	155	1,312	2,764	24,036	26,317

EMPLOYEE CASUALTIES



**FIGURE 30.
INJURIES TO EMPLOYEES
ON DUTY**

**FIGURE 31A.
FATALITIES BY EMPLOYEE JOB
CATEGORY**



**FIGURE 31B.
INJURIES BY EMPLOYEE JOB
CATEGORY**

TABLE 51. EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

Type/Location Of Casualty	Total Cases	Cases With Days Away Total Cases	From Work Lost Day Cases	Or Days Of Restricted Days Away Cases	Restriction Days Of Restriction	Other Cases
I N J U R I E S						
Bruise - Contusion--Arm or hand.	688	503	428	75	11,937	1,198
Fingers.....	391	221	170	51	2,058	485
Leg or foot.	1,215	973	865	108	19,875	1,435
Toes.....	102	75	57	18	648	103
Torso.....	1,016	873	798	75	28,306	1,424
Other parts.	458	369	337	32	10,301	412
Sprain - Strain--Arm or hand.	874	686	573	113	15,525	2,017
Fingers.....	134	98	79	19	2,452	504
Leg or foot.	2,390	2,125	1,942	183	57,960	4,955
Toes.....	20	17	16	1	509	20
Torso.....	6,298	5,459	4,976	483	201,066	11,743
Other parts.	766	637	581	56	21,907	969
Cut or Laceration--Arm or hand.	491	224	187	37	3,496	400
Fingers.....	783	368	273	95	4,167	1,150
Leg or foot.	360	212	190	22	3,761	261
Toes.....	15	11	11	---	80	---
Head or Face	748	309	283	26	5,642	339
Torso.....	47	32	29	3	556	17
Other parts.	33	15	13	2	172	48
Electrical burn or shock.....	34	62	53	9	1,109	50
Other burns.....	322	188	160	28	2,115	492
Dislocation.....	122	99	91	8	6,104	418
Fracture--Arm or hand.	253	205	177	28	9,156	904
Fingers.....	509	365	263	102	8,426	2,062
Leg or foot.	314	296	285	11	16,422	709
Toes.....	140	117	89	28	2,834	427
Head or Face	55	42	42	---	1,381	78
Torso.....	201	184	165	19	8,290	708
Other parts.	23	20	18	2	1,074	144
Amputation--Arm or hand.	---	---	---	---	---	---
Fingers.....	42	40	35	5	1,594	172
Leg or foot.	11	11	11	---	1,978	---
Toes.....	10	9	9	---	595	30
Other parts.	1	1	1	---	25	---
Dust or other object in eye.....	1,271	565	501	64	2,407	209
Hernia.....	146	138	131	7	5,356	476
Concussion.....	40	37	36	1	1,975	90
Nervous shock.....	11	9	8	1	94	4
Internal injuries.....	38	32	31	1	1,146	61
Loss of eye.....	---	---	---	---	---	---
Puncture type wound.....	340	157	140	17	2,714	110
Dental related injuries.....	89	23	22	1	424	6
Skin reaction (one-time exposure)	107	42	39	3	460	28
Not otherwise classified.....	847	580	546	34	14,570	733
Total nonfatal injuries.....	21,792	16,429	14,661	1,768	478,667	35,391
I L L N E S S E S						
Skin diseases or disorders.....	86	26	24	2	407	156
Dust diseases of the lungs.....	4	1	1	---	15	---
Respiratory conditions.....	87	49	48	1	969	1
Poisoning.....	8	5	4	1	19	6
Disorders due to physical agents	49	27	25	2	184	26
Disorders due to repeated trauma	96	50	39	11	1,986	111
All other occupational illnesses	61	39	35	4	1,432	116
Total nonfatal illnesses.....	391	197	176	21	5,012	416
F A T A L I T I E S						
Fatal injuries.....	49	---	---	---	---	---
Fatal illnesses.....	---	---	---	---	---	---
Total fatalities..	49	---	---	---	---	---

TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

	Killed	Injured	Illness	Total
EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS				
Executives and general officers.....	1	7	1	9
Corporate staff managers.....	---	4	---	4
Regional and division officers, assistants and staff assistants....	---	16	---	16
Transportation officers/managers.....	---	53	2	55
Subtotal.....	1	80	3	84
PROFESSIONAL AND ADMINISTRATIVE				
Professional.....	---	21	---	21
Subprofessionals.....	---	15	---	15
Auditors, traveling auditors or accountants.....	---	6	---	6
General and administrative supervisors.....	---	44	1	45
Sales and traffic representatives and agents.....	---	27	---	27
Freight and other claim agents and investigators.....	---	5	1	6
Supervising and chief claim agents.....	---	5	---	5
Lieutenants and sergeants of police.....	1	43	---	44
Police officers, watchmen and guards (except crossing & bridge)....	1	220	7	228
Inspectors, (except MOW & MOE), other investigators, examiners, etc	---	10	1	11
Buyers, and sales agents.....	---	22	---	22
Clerical technicians and clerical specialists.....	---	45	3	48
Office machine and data equipment operators.....	---	33	2	35
Secretaries, stenographers, and typists.....	---	29	1	30
General and other clerks (except yard clerk and crew dispatcher)...	---	318	11	329
Building and office attendants.....	---	75	---	75
Messengers and office persons.....	---	12	---	12
Motor vehicle operators.....	---	117	1	118
Subtotal.....	2	1,047	28	1,077
MAINTENANCE OF WAY AND STRUCTURES				
Supervisors, maintenance of way, structures, communication & signals	---	91	1	92
Maintenance of way, structures, comm. & signals, & scale inspectors	2	84	3	89
Bridge and building gang foreman.....	1	117	1	119
Bridge and building carpenters.....	---	265	8	273
Bridge and building ironworkers.....	---	106	4	110
Bridge and building painters.....	---	52	---	52
Masons, bricklayers, plasterers, and plumbers.....	1	269	7	277
Bridge and building helpers and apprentices.....	---	111	1	112
Bridge and building gang and bridge and building dept laborers.....	---	107	---	107
Track gang foremen (extra gang work train laborers).....	---	142	5	147
Gang or section foreman.....	1	420	10	431
Extra gang laborers.....	---	515	14	529
Section laborers.....	2	2,276	39	2,317
Machine operators.....	1	1,106	14	1,121
Gang foremen, communications and signals.....	---	44	2	46
Signalmen and signal maintainers.....	4	546	16	566
Linemen and groundmen and communications craftsman.....	---	182	9	191
Assistant signalmen and assistant signal maintainers.....	---	63	---	63
Signal helpers and signal maintainer helpers.....	---	29	1	30
Camp car cooks.....	---	10	---	10
Subtotal.....	12	6,535	135	6,682

TABLE 52. (CONTINUED)

	Killed	Injured	Illness	Total
MAINTENANCE OF EQUIPMENT AND STORES				
Maintenance of equipment and stores (miscellaneous).....	---	2	---	2
Supervisors and general foremen, maintenance of equipment.....	---	62	1	63
Supervisors and general foremen, materials and stores.....	---	11	---	11
Equipment, shop, electrical inspectors.....	1	31	---	32
Materials and supplies inspectors.....	---	1	---	1
Storekeeper.....	---	32	1	33
Gang foremen, maintenance of equipment.....	---	114	2	116
Blacksmiths.....	---	27	---	27
Boilermakers.....	---	79	1	80
Carmen (freight).....	4	1,433	18	1,455
Carmen (other).....	---	668	8	676
Electrical workers (A).....	---	533	13	546
Electrical workers (B).....	---	23	---	23
Electrical workers (C).....	---	9	1	10
Machinists.....	---	1,069	12	1,081
Sheet metal workers.....	---	196	4	200
Skilled trades, helpers, maintenance of equipment and stores.....	---	177	---	177
Apprentices, maintenance of equipment and stores.....	---	45	---	45
Coach cleaners.....	---	181	---	181
Laborers: shops, enginehouses and power plants.....	---	535	14	549
Gang foremen, materials and stores.....	---	11	---	11
Equipment operators and general laborers, materials and stores.....	1	115	---	116
Stationary engineers.....	---	3	---	3
Stationary firemen.....	---	4	---	4
Subtotal.....	6	5,361	75	5,442
TRANSPORTATION, OTHER THAN TRAIN AND ENGINE				
Transportation supervisor and chief train dispatcher.....	---	11	---	11
Train dispatchers.....	---	13	1	14
Station, freight and passenger agents.....	---	20	---	20
Chief operators and wire chiefs.....	---	1	---	1
Clerk operators, towermen, train directors.....	---	46	2	48
Station masters & assts, supervising bag. agents, bag. agents, etc.	---	10	---	10
Baggage, parcel room and station attendants.....	---	61	---	61
General & asst gnrl foremen, stations, warehouses, grain elev., docks.	---	7	---	7
Gang foremen, stations, warehouses, grain elevators and docks.....	---	5	---	5
Grain elevator, and dock laborers.....	---	66	---	66
Station, and warehouse laborers.....	---	37	1	38
Truckers (station, warehouse and platforms).....	---	11	---	11
Food and lodging manager, supervisors.....	---	30	---	30
Transportation and dining-service inspectors.....	---	1	---	1
Waiters and kitchen helpers (restaurant and dining car).....	---	24	---	24
Chefs and cooks (restaurant and dining car).....	---	24	---	24
Marine officers and workers and shore workers.....	---	3	---	3
Train attendants.....	---	185	---	185
Bridge operators and helpers.....	---	1	1	2
Bridge and crossing flagmen and gatemen.....	---	1	---	1
Yards clerks.....	---	75	2	77
Crew dispatchers.....	---	12	3	15
Yardmasters and assistant yardmasters.....	---	48	2	50
Subtotal.....	---	702	12	714
TRANSPORTATION, TRAIN AND ENGINE				
Transportation, train and engine (miscellaneous).....	---	1	---	1
Switchtenders.....	---	23	---	23
Car retarder operators and ground service employees.....	---	5	1	6
Outside hostlers.....	1	81	1	83
Outside hostler helpers.....	---	32	---	32
Inside hostler.....	---	18	---	18
Road passenger conductors.....	---	353	6	359
Assistant road passenger conductors and ticket collectors.....	---	143	3	146
Road freight conductors (through freight).....	6	751	16	773
Road freight conductors (local and way freight).....	1	527	8	536
Road passenger baggage person.....	---	1	---	1
Road Passenger brakemen and flagmen.....	---	86	2	88
Road freight brakemen and flagmen (through freight).....	5	1,225	11	1,241
Road freight brakemen and flagmen (local and way freight).....	---	887	6	893
Yard conductors and yard foremen.....	2	714	7	723
Yard brakemen and yard helpers.....	4	1,690	31	1,725
Road passenger engineers and motormen.....	1	189	8	198
Road freight engineers (through freight).....	3	628	15	646
Road freight engineers (local and way freight).....	2	271	13	286
Yard engineers.....	1	372	9	382
Road passenger firemen and helpers.....	2	35	---	37
Road freight firemen and helpers (through freight).....	---	14	---	14
Road freight firemen and helpers (local and way freight).....	---	11	---	11
Yard firemen and helpers.....	---	10	1	11
Subtotal.....	28	8,067	138	8,233
Total.....	49	21,792	391	22,232

ITEMS RETRIEVED 22232

TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	---	---	---	7	7
Derailments	---	---	---	---	---	4	4
Rail-highway x-ing	---	---	---	---	---	4	4
Miscellaneous	---	---	---	---	---	1	1
Total	---	---	---	---	---	16	16
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	1	1
Operating hand brakes	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	1	1
Contacting fixed objects while on locos or cars	---	---	---	---	---	1	1
Getting on or off cars or locomotives	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	4	6
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	2	---	---	---	---
Servicing or maintenance of equipment	---	---	---	---	---	---	---
Maintenance of way and structures	---	---	---	---	---	1	1
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C.	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	2	1	---	---	3
Assault	---	---	---	---	---	---	---
Other occurrences	---	---	---	1	---	1	2
Total	---	---	4	2	---	11	17
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	1	1
Getting on or off cars or locomotives	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	---	---	2	---	---	2
Maintenance of way and structures	---	---	5	---	---	---	5
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	1	---	---	---	---	---	1
Flying or falling objects, burns, etc., N.O.C.	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	2	---	---	---	---	2
Other occurrences	---	---	3	2	---	---	5
Total	1	2	8	4	---	1	16
Grand total	1	2	12	6	---	28	49

NOTE: I = Executives, officials, and staff assistants
 II = Professional, clerical, and general
 III = Maintenance of way and structures
 IV = Maintenance of equipment and stores
 V = Transportation (other than train, engine, and yard)
 VI = Transportation (train and engine)

TABLE 54. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	6	---	5	81	92
Deraillments	---	---	2	1	12	74	89
Rail-highway x-ing	1	---	3	---	17	92	114
Miscellaneous	2	---	5	1	1	41	50
Total	3	---	16	3	35	288	345
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	1	---	2	1	3	197	204
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	2	36	38
Operating or on locomotives	5	---	---	9	4	702	720
Operating rail motorcars	1	---	5	---	1	10	17
Operating hand brakes	1	---	3	3	2	94	103
Operating switches or derrails	---	---	---	---	---	27	27
Contacting fixed objects while on locos or cars	2	---	---	1	4	71	78
Getting on or off cars or locomotives	1	1	4	10	9	647	672
Collisions, derailments, etc. (<= \$5,701)	---	---	14	10	6	82	112
Rail-highway crossing accidents/incidents	---	---	12	1	3	77	93
Struck by/ran into loco/car(not at rr-hwy x-ing)	1	4	8	4	1	32	50
Servicing or maintenance of equipment	---	---	7	74	7	4	92
Maintenance of way and structures	---	---	92	3	1	2	98
Freight, baggage, express or mail	---	---	---	---	9	7	16
Windows, doors, etc., on on-track equipment	---	2	5	5	10	65	87
Passenger car doors	---	---	---	1	---	1	2
Stumbling, slipping, falling, caught, N.O.C.	---	1	6	3	58	132	200
Flying or falling objects, burns, etc., N.O.C.	---	4	3	2	9	130	148
Operation of on-track work equipment	---	---	64	---	1	7	72
Assault	---	3	3	---	---	55	61
Other occurrences	2	2	6	15	28	210	263
Total	14	17	234	142	158	2,588	3,153
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	1	---	6	17	1	465	490
Coupling/uncoupling air/steam hose, safety chains.	1	---	1	43	3	214	262
Operating or on locomotives	4	3	6	56	4	478	551
Operating rail motorcars	---	---	16	1	---	3	20
Operating hand brakes	2	1	2	21	3	365	394
Operating switches or derrails	8	3	37	43	10	985	1,086
Contacting fixed objects while on locos or cars	---	---	---	9	1	13	23
Getting on or off cars or locomotives	7	16	24	100	24	797	968
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	1	1
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	2	2
Servicing or maintenance of equipment	1	63	306	3,987	38	99	4,494
Maintenance of way and structures	6	73	5,087	339	23	29	5,557
Freight, baggage, express or mail	1	10	1	1	40	20	73
Windows, doors, etc., on on-track equipment	1	11	37	100	15	149	313
Passenger car doors	---	1	---	3	2	2	8
Stumbling, slipping, falling, caught, N.O.C.	7	182	265	272	137	871	1,734
Flying or falling objects, burns, etc., N.O.C.	3	38	21	41	23	196	322
Operation of on-track work equipment	---	2	74	7	1	3	87
Assault	1	90	7	12	8	50	168
Other occurrences	20	537	395	164	176	449	1,741
Total	63	1,030	6,285	5,216	509	5,191	18,294
Grand total	80	1,047	6,535	5,361	702	8,067	21,792

NOTE: I = Executives, officials, and staff assistants
 II = Professional, clerical, and general
 III = Maintenance of way and structures
 IV = Maintenance of equipment and stores
 V = Transportation (other than train, engine, and yard)
 VI = Transportation (train and engine)

**TABLE 55. LOST WORKDAYS RESULTING FROM NONFATAL INJURIES TO
EMPLOYEES ON DUTY**

Type of Occurrence	Total Cases	Cases With Total Cases	Days Away From Work Lost Day Cases	Or Days Of Restriction Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
TRAIN ACCIDENTS							
Collisions	92	75	74	1	3,162	20	17
Derailments	89	83	80	3	3,895	86	6
Rail-highway x-ing	114	110	109	1	5,564	263	4
Miscellaneous	50	47	47	---	4,661	68	3
Total.....	345	315	310	5	17,282	437	30
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	204	179	161	18	6,372	403	25
Coupling/uncoupling air/steam hose, safety chains.	38	30	30	---	890	29	8
Operating or on locomotives.....	720	545	523	22	15,829	521	175
Operating rail motorcars.....	17	14	12	2	120	9	3
Operating hand brakes.....	103	94	87	7	3,377	281	9
Operating switches or derails.....	27	21	21	---	319	11	6
Contacting fixed objects while on locos or cars..	78	68	61	7	2,203	86	10
Getting on or off cars or locomotives.....	672	605	559	46	23,051	1,260	67
Collisions, derailments, etc. (<= \$5,701).....	112	95	93	2	3,265	75	17
Rail-highway crossing accidents/incidents.....	93	83	80	3	3,585	84	10
Struck by/ran into loco/car(not at rr-hwy x-ing).	50	43	42	1	2,298	21	7
Servicing or maintenance of equipment.....	92	62	52	10	1,407	194	30
Maintenance of way and structures.....	98	76	66	10	3,747	155	22
Freight, baggage, express or mail.....	16	13	13	---	349	---	3
Windows, doors, etc., on on-track equipment.....	87	66	61	5	1,276	36	21
Passenger car doors.....	2	---	---	---	---	---	2
Stumbling, slipping, falling, caught, N.O.C.....	200	174	167	7	7,947	191	26
Flying or falling objects, burns, etc., N.O.C....	148	84	75	9	1,043	48	64
Operation of on-track work equipment.....	72	53	49	4	2,681	108	19
Assault.....	61	48	47	1	726	49	13
Other occurrences.....	263	225	215	10	8,125	363	38
Total.....	3,153	2,578	2,414	164	88,610	3,924	575
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	490	429	393	36	16,663	1,137	61
Coupling/uncoupling air/steam hose, safety chains.	262	222	202	20	5,287	349	40
Operating or on locomotives.....	551	438	413	25	13,997	571	113
Operating rail motorcars.....	20	14	13	1	492	5	6
Operating hand brakes.....	394	346	323	23	11,103	673	48
Operating switches or derails.....	1,086	973	910	63	33,766	1,716	113
Contacting fixed objects while on locos or cars..	23	17	15	2	512	140	6
Getting on or off cars or locomotives.....	968	840	780	60	26,802	1,419	128
Collisions, derailments, etc. (<= \$5,701).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	1	1	1	---	71	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	2	2	2	---	216	---	---
Servicing or maintenance of equipment.....	4,494	3,101	2,615	486	70,774	8,474	1,393
Maintenance of way and structures.....	5,557	3,743	3,125	618	98,576	9,961	1,814
Freight, baggage, express or mail.....	73	58	54	4	2,182	15	15
Windows, doors, etc., on on-track equipment.....	313	224	186	38	4,631	918	89
Passenger car doors.....	8	5	5	---	139	2	3
Stumbling, slipping, falling, caught, N.O.C.....	1,734	1,514	1,403	111	49,330	2,902	220
Flying or falling objects, burns, etc., N.O.C....	322	211	196	15	2,739	398	111
Operation of on-track work equipment.....	87	59	53	6	2,600	80	28
Assault.....	168	138	131	7	2,619	266	30
Other occurrences.....	1,741	1,201	1,117	84	30,276	2,004	540
Total.....	18,294	13,536	11,937	1,599	372,775	31,030	4,758
Grand total.....	21,792	16,429	14,661	1,768	478,667	35,391	5,363

TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	---	---	---	---	---
Derailments	---	---	---	---	---	---	---
Rail-highway x-ing	---	---	---	---	---	---	---
Miscellaneous	---	---	---	---	---	1	1
Total	---	---	---	---	---	1	1
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	1	1
Operating or on locomotives	1	---	---	---	---	35	36
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	2	2
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	1	1
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	1	1
Servicing or maintenance of equipment	---	---	---	---	---	---	---
Maintenance of way and structures	---	---	---	---	---	---	---
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C.	---	---	1	---	---	12	13
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	---	---	---	---	1	1
Other occurrences	---	---	1	---	---	5	6
Total	1	---	2	---	---	58	61
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	3	3
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	2	2
Operating or on locomotives	---	1	---	---	---	20	21
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	1	1
Operating switches or derails	---	---	---	---	---	3	3
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	---	3	60	---	2	65
Maintenance of way and structures	---	2	81	2	---	1	86
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	1	---	---	---	1
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	1	---	2	3
Flying or falling objects, burns, etc., N.O.C.	1	4	---	3	4	16	28
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	---
Other occurrences	1	21	48	9	8	28	115
Total	2	28	133	75	12	79	329
Grand total	3	28	135	75	12	138	391

NOTE: I = Executives, officials, and staff assistants
 II = Professional, clerical, and general
 III = Maintenance of way and structures
 IV = Maintenance of equipment and stores
 V = Transportation (other than train, engine, and yard)
 VI = Transportation (train and engine)

**TABLE 57. SUMMARY OF NONFATAL EMPLOYEE ON DUTY
INJURIES DUE TO ASSAULT**

	.....Struck By Thrown Or Otherwise.....				...Other Assaults...		Grand Total
Railroad	On Locomotive	On Caboose	On Cars	Not On Consist	On Consists	Not On Consists	
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp)	---	---	---	---	4	36	40
Atchison, Topeka And Santa Fe Rwy Co.	---	---	---	---	---	1	1
Springfield Terminal Railway Company	---	---	---	---	---	5	7
Burlington Northern Incorporated	1	1	---	---	---	3	3
Chicago And North Western	---	---	---	---	---	7	16
Consolidated Rail Corporation	7	---	---	2	---	7	14
CSX Transportation	5	2	---	---	---	1	1
Delaware And Hudson Railway	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	---	---	---	---	1	1	2
Illinois Central Railroad Co.	---	---	---	---	---	1	1
Kansas City Southern Railway Co.	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---
Norfolk Southern Corporation	3	---	---	---	---	2	5
Soo Line Railroad Company	---	---	---	---	---	---	---
Southern Pacific Transportation Co.	7	2	---	---	---	6	15
St. Louis Southwestern Railway Co.	1	---	---	---	---	---	1
Union Pacific Railroad Co.	9	1	---	---	---	6	16
Total Class I Railroads.....	33	6	---	2	5	76	122
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)							
Class I Railroads	33	6	---	2	5	76	122
Class II Railroads	1	---	---	---	---	1	2
Class III Railroads	5	---	6	---	10	84	105
Total All Railroads.....	39	6	6	2	15	161	229

CASUALTIES IN TRAIN ACCIDENTS

TABLE 58. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

Cause	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MISC CAUSES NOT OTHERWISE LISTED						
700 Collision with hwy user at grade xing	71	4	---	---	39	28
702 Vandalism	1	1	---	---	---	---
704 Load shifted	1	1	---	---	---	---
710 Equipment on or fouling track	1	---	---	---	---	1
713 Interaction of lateral/vertical forces	1	1	---	---	---	---
716 Other acts of God	1	1	---	---	---	---
799 Other miscellaneous causes	4	4	---	---	---	---
SUBTOTAL.....	80	12	---	---	39	29
GRAND TOTAL.....	80	12	---	---	39	29

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 59. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MISC CAUSES NOT OTHERWISE LISTED						
700 Collision with hwy user at grade xing	259	92	22	114	73	49
701 Emergency brk appl to avoid accident	4	4	---	---	---	23
702 Vandalism	33	8	---	8	---	---
704 Load shifted	3	3	---	3	---	---
707 Improperly loaded car	1	1	---	1	---	---
708 Oversized load, misrouted	1	1	---	1	---	---
709 Object on or fouling track	4	4	---	4	---	---
710 Equipment on or fouling track	1	---	---	---	1	---
713 Interaction of lateral/vertical forces	2	2	---	2	---	---
715 Snow, ice, or mud on track	1	1	---	1	---	---
716 Other acts of God	4	2	2	4	---	---
799 Other miscellaneous causes	9	6	1	7	1	---
SUBTOTAL.....	322	124	25	149	99	51
GRAND TOTAL.....	322	124	25	149	99	51

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 60. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

Cause		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
OTHER RULES AND INSTRUCTIONS								
532	Derail, failure to apply or remove	1	1	---	1	---	---	---
536	Mtr car/on-trk eqp rules, fail to comply	1	1	---	1	---	---	---
SUBTOTAL.....		2	2	---	2	---	---	---
SPEED								
555	Trn out yrd limit, clear blk, excess spd	4	2	---	2	---	2	---
SUBTOTAL.....		4	2	---	2	---	2	---
MISCELLANEOUS								
570	Buffing or slack action excessive	1	---	---	---	---	1	---
599	Other train operation/human factors	1	1	---	1	---	---	---
SUBTOTAL.....		2	1	---	1	---	1	---
GRAND TOTAL.....		8	5	---	5	---	3	---

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

**TABLE 61. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY HUMAN FACTORS**

Cause		Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
BRAKES, USE OF							
500	Automatic brake, improper use	2	1	1	2	---	---
502	Failure to secure engine (R.R. emp.)	1	1	---	1	---	---
503	Failure to secure hnd brk (R.R. emp.)	1	1	---	1	---	---
504	Failure to apply sufficient hand brake	1	1	---	1	---	---
505	Failure to apply hnd brk on car (emp.)	1	1	---	1	---	---
509	Other causes involving use of brakes	3	3	---	3	---	---
SUBTOTAL.....		9	8	1	9	---	---
EMPLOYEE PHYSICAL CONDITION							
510	Impairment due to alcohol or drugs	3	2	1	3	---	---
513	Employee falling asleep	7	4	3	7	---	---
SUBTOTAL.....		10	6	4	10	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS							
52A	Block signal, failure to comply	14	14	---	14	---	---
52B	Interlocking signal, failure to comply	2	2	---	2	---	---
520	Fixed signal, failure to comply	11	11	---	11	---	---
524	Hand signal improper	2	2	---	2	---	---
527	Radio communication, improper	1	---	1	1	---	---
528	Radio comm., failure to give/receive	1	1	---	1	---	---
SUBTOTAL.....		31	30	1	31	---	---
OTHER RULES AND INSTRUCTIONS							
533	Failure to stop train in clear	4	4	---	4	---	---
535	Instruction to trn/yard crew improper	9	9	---	9	---	---
536	Mtr car/on-trk eqp rules, fail to comply	12	6	4	10	2	---
538	Shoving move, missing man at lead	5	3	1	4	1	---
539	Shoving movement, fail to control	1	1	---	1	---	---
541	Special op. instr., failure to comply	7	7	---	7	---	---
542	Trn ord/timetable auth, fail to comply	6	1	5	6	---	---
543	Trn ord(radio)err in prep/trans/deliv	4	4	---	4	---	---
549	Rules and instructions, other	4	4	---	4	---	---
SUBTOTAL.....		52	39	10	49	3	---
SPEED							
550	Coupling speed excessive	3	3	---	3	---	---
553	Switch movement, excessive speed	35	---	6	6	29	---
554	Trn inside yrd limit, excess speed	4	4	---	4	---	---
555	Trn out yrd limit, clear blk, excess spd	7	3	---	3	4	---
559	Other Causes involving excessive speed	4	1	3	4	---	---
SUBTOTAL.....		53	11	9	20	29	4
SWITCHES, USE OF							
561	Switch improperly lined	8	7	1	8	---	---
SUBTOTAL.....		8	7	1	8	---	---
MISCELLANEOUS							
571	Failure to couple	1	1	---	1	---	---
599	Other train operation/human factors	20	15	1	16	4	---
SUBTOTAL.....		21	16	1	17	4	---
GRAND TOTAL.....		184	117	27	144	33	7

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

**TABLE 62. FATALITIES IN ACCIDENTS RESULTING FROM
MECHANICAL/ELECTRICAL FAILURES**

There were no fatalities reported in connection with train accidents caused by mechanical or electrical failures.

**TABLE 63. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY MECHANICAL/ELECTRICAL FAILURES**

Cause		Total Injured	...Employees On Trainmen Other	Duty... Total	Emp. Not On Duty	Passen- gers	Nontres- passers	Tres- passers
BODY								
423	Center plate broken or defective	1	1	---	1	---	---	---
424	Center plate disengaged from truck	1	1	---	1	---	---	---
SUBTOTAL.....		2	2	---	2	---	---	---
TRUCK COMPONENTS								
440	Side bearing clearance improper	1	1	---	1	---	---	---
445	Truck (stiff/improper lateral)	2	2	---	2	---	---	---
449	Other truck component causes	6	1	---	1	5	---	---
SUBTOTAL.....		9	4	---	4	5	---	---
WHEELS								
464	Worn flange	1	1	---	1	---	---	---
SUBTOTAL.....		1	1	---	1	---	---	---
GRAND TOTAL.....		12	7	---	7	5	---	---

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

**TABLE 64. FATALITIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY DEFECTS IN TRACK, ROADBED AND STRUCTURES**

Cause	Total Killed	...Employees On Trainmen Other	Duty... Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
ROADBED DEFECTS							
102 Washout/rain/slide/ice, etc. dmg to trk	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
GRAND TOTAL.....	1	1	---	1	---	---	---

**TABLE 65. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY DEFECTS IN TRACK, ROADBED AND STRUCTURES**

Cause	Total Injured	...Employees On Trainmen Other	Duty... Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
ROADBED DEFECTS							
102 Washout/rain/slide/ice, etc. dmg to trk	9	9	---	9	---	---	---
SUBTOTAL.....	9	9	---	9	---	---	---
TRACK GEOMETRY DEFECTS							
110 Wide gage (defect/missing crossties)	6	6	---	6	---	---	---
111 Wide gage (def/missing rail fasteners)	1	1	---	1	---	---	---
114 Track alignment irregular	10	4	---	4	6	---	---
SUBTOTAL.....	17	11	---	11	6	---	---
RAIL AND JOINT BAR DEFECTS							
141 Transverse/compound fissure	3	3	---	3	---	---	---
142 Vertical split head	3	3	---	3	---	---	---
144 Mismatched rail-head contour	2	2	---	2	---	---	---
149 Other rail and joint bar defects	3	3	---	3	---	---	---
SUBTOTAL.....	16	16	---	16	---	---	---
FROGS, SWITCHES AND TRACK APPLIANCES							
161 Switch damaged/out of adjustment	2	2	---	2	---	---	---
165 Switch point worn or broken	3	3	---	3	---	---	---
179 Other frog/switches/track appl. causes	5	---	5	5	---	---	---
SUBTOTAL.....	10	5	5	10	---	---	---
OTHER WAY AND STRUCTURES							
189 Other way and structure causes	1	---	---	---	1	---	---
SUBTOTAL.....	1	---	---	---	1	---	---
SIGNAL AND COMMUNICATION FAILURES							
209 Signal & communication failure N.O.C.	5	5	---	5	---	---	---
SUBTOTAL.....	5	5	---	5	---	---	---
GRAND TOTAL.....	58	46	5	51	7	---	---

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

CASUALTIES IN TRAIN INCIDENTS

TABLE 66. FATALITIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
007T	Striking parts of body against equipment - equipment moving	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
OPERATING HAND BRAKES								
207T	Losing hold, slipping, or falling - equipment moving	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
508T	Slipping/falling while boarding/alighting fm passenger eqp (moving)	1	---	---	---	---	---	1
511T	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	1	1	---	1	---	---	---
513T	Jumping from equipment - equipment moving	2	---	---	---	1	1	---
519T	Other acc/inc while getting on or off cars or locos - equipment mov	2	---	---	---	---	---	2
	SUBTOTAL.....	6	1	---	1	1	1	3
COLLISIONS, DERAILMENTS, ETC.(=< \$5,701)								
601T	Casualty resulting fm a collision which did not satisfy \$ threshold	1	---	---	---	---	---	1
602T	Casualty resulting fm a derailment which did not satisfy \$ threshold	1	1	---	1	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	12	---	---	---	---	4	8
	SUBTOTAL.....	14	1	---	1	---	4	9
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	682	---	---	---	---	513	169
610T	Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	40	---	---	---	---	37	3
	SUBTOTAL.....	722	---	---	---	---	550	172
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	143	2	---	2	1	2	138
702T	Crossing track at private rail-highway crossing - equipment moving	3	---	---	---	---	1	2
703T	Crossing track not at a crossing - equipment moving	40	1	---	1	---	1	38
705T	On bridges or trestles - equipment moving	20	---	---	---	---	---	20
706T	Sitting or lying on track or near track, not in clear - eqp moving	150	---	---	---	---	2	148
707T	While working on or along track - equipment moving	8	1	2	3	---	2	3
708T	Passing over, through, or under cars - equipment moving	6	---	---	---	---	---	6
709T	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	40	---	---	---	---	1	39
	SUBTOTAL.....	410	4	2	6	1	9	394

TABLE 66. (CONTINUED)

Occurrence		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
902T	Struck or caught by shifted lading-eqp moving	2	1	---	1	---	---	1
	SUBTOTAL.....	2	1	---	1	---	---	1
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
934T	Slip/fall, etc. between loco/car and other cars and struct-eqp mov	1	---	---	---	---	---	1
935T	From bridges of trestles-equipment moving	1	---	---	---	---	---	1
938T	While on locomotive or car-equipment moving	5	---	---	---	---	---	1
939T	Other, stumbling, slipping, falling, caught, etc. - equipment moving	1	---	---	---	1	---	---
	SUBTOTAL.....	8	---	---	---	5	---	3
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
941T	Struck by flying or falling object (except assaults)-eqp mov	1	---	---	---	---	1	---
947T	Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	---	---	---	---	---	1
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
	SUBTOTAL.....	2	---	---	---	---	1	---
OPERATION OF ON-TRACK WORK EQUIPMENT								
951T	Collision with other on-track work equipment	2	---	2	2	---	---	---
959T	Other A/I involving on-track work equipment - equipment moving	1	---	1	1	---	---	---
	SUBTOTAL.....	3	---	3	3	---	---	---
OTHER OCCURRENCES								
975T	Slack action, other	1	---	1	1	---	---	---
989T	Other accidents/incidents-equipment moving	16	1	---	1	---	1	14
	SUBTOTAL.....	17	1	1	2	---	1	14
	GRAND TOTAL.....	1,187	11	6	17	1	566	597

NOTE: Contractor employees are included with nontrespassers

**TABLE 67. INJURIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE
AND TYPE OF PERSON**

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
001T Adjusting coupler, equipment moving unexpectedly	14	14	---	---	---	---
002T Adjusting coupler - equipment moving	12	12	---	---	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	5	5	---	---	---	---
005T Use of uncoupling lever - equipment moving	52	50	2	---	---	---
006T Use of uncoupling lever - equipment moving unexpectedly	1	1	---	---	---	---
007T Striking parts of body against equipment - equipment moving	37	35	2	---	---	---
008T Stumbled, slipped, fell, etc. on foreign obj/irreg surface-eqp moving	49	47	2	---	---	---
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	34	33	1	---	---	---
SUBTOTAL.....	204	197	7	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	9	9	---	---	---	---
054T Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp moving	4	4	---	---	---	---
055T Defective equipment - equipment moving	1	1	---	---	---	---
056T Burned by hot water or steam from hose - equipment moving	1	---	1	---	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	23	22	1	---	---	---
SUBTOTAL.....	38	36	2	---	---	---
OPERATING OR ON LOCOMOTIVES						
101T Burn or electrical shock - equipment moving	2	2	---	---	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	44	43	1	---	---	---
103T Struck by tools or other objects falling - equipment moving	14	14	---	---	---	---
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	48	45	3	---	---	---
105T Checking, oiling, servicing locomotive, etc. - equipment moving	2	2	---	---	---	---
106T Unexpected movement of locomotive, other than slack action	63	59	4	---	---	---
107T Slack action in locomotive	68	68	---	---	---	---
108T Striking parts of body against equipment due to sudden stop of loco	64	63	1	---	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	38	37	1	---	---	---
110T Defective locomotive seat - equipment moving	45	44	1	---	---	---
111T Adjusting locomotive seat - equipment moving	5	5	---	---	---	---
112T Foreign object in eye - equipment moving	209	205	4	---	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	118	115	3	---	---	---
SUBTOTAL.....	720	702	18	---	---	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATING RAIL MOTORCARS						
151T Striking parts of body against equipment - equipment moving	1	---	1	1	---	---
152T Struck by tools or other objects falling - equipment moving	3	2	1	3	---	---
153T Stumbled, slipped, fell or stepped on foreign obj, etc. - eqp mov	3	1	2	3	---	---
154T Unexpected movement of rail motorcar	1	---	1	1	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	9	7	2	9	---	---
SUBTOTAL.....	17	10	7	17	---	---
OPERATING HAND BRAKES						
200T Manipulating hand brakes, no defects, equipment moving	44	42	2	44	---	---
201T Defective equipment - equipment moving	6	6	---	6	---	---
202T Pawl slipping or accidentally knocked out of ratchet - eqp moving	1	1	---	1	---	---
203T Striking body due to movement of equipment	11	6	5	11	---	---
204T Losing hold, slipping or falling due to coupling	4	---	---	4	---	---
SUBTOTAL.....	204	197	7	204	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	9	9	---	9	---	---
054T Stumbled, slipped, fell, or stepped on foreign obj, impact	4	4	---	4	---	---
205T Caught between parts of equipment or lading - equipment moving	5	4	1	5	---	---
206T Brake chains or bolts, breaking or giving way - equipment moving	2	2	---	2	---	---
207T Losing hold, slipping, or falling - equipment moving	10	10	---	10	---	---
208T Caught hand or fingers in spinning brake wheel - equipment moving	1	1	---	1	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	19	18	1	19	---	---
SUBTOTAL.....	103	94	9	103	---	---
OPERATING SWITCHES OR DERAILS						
304T Struck by moving on-track equipment	1	1	---	1	---	---
309T Other acc/inc while operating switches/derails - equipment moving	26	26	---	26	---	---
SUBTOTAL.....	27	27	---	27	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
401T Persons on top locos/cars contacting fixed objects - equipment mov	5	4	---	4	1	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	46	44	1	45	---	1
409T Persons on loco/car coming in contact with fixed obj(ether)-eqp mov	29	23	6	29	---	---
SUBTOTAL.....	80	71	7	78	1	1
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/missed hold of grabiron, handhold, etc. -eqp mov	32	30	---	30	---	2
502T Slip/fell due to losing/missing footing on step, stirrup, etc. -eqp mov	86	79	3	82	---	4
503T Stepping or tripping on parts of track in place - equipment moving	20	18	1	19	1	---
504T Stepping or tripping on foreign material or irreg surface - eqp mov	169	167	2	169	---	---
505T Slipping on ice or snow on ground - equipment moving	25	24	1	25	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	9	8	1	9	---	---
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	79	58	3	61	3	14
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	12	2	1	3	7	1
510T Striking body or falling due to sudden movement of equipment	30	24	2	26	2	2
511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	23	20	2	22	1	---
512T Striking or being struck by bridges or trestles - equipment moving	1	1	---	1	---	---
513T Jumping from equipment - equipment moving	55	35	3	38	7	10
514T Defective equipment - equipment moving	17	16	1	17	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	181	165	5	170	1	10
SUBTOTAL.....	739	647	25	672	22	43

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COLLISIONS, DERAILMENTS, ETC.(≤ \$5,701)							
601T Casualty resulting fm a collision which did not satisfy \$ threshold	55	46	9	55	---	---	---
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	39	24	15	39	---	---	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	30	12	6	18	1	2	1
SUBTOTAL.....	124	82	30	112	1	2	1
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,392	63	15	78	---	7	1,977
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	147	14	1	15	---	---	125
SUBTOTAL.....	2,539	77	16	93	---	7	2,102
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)							
701T Standing, walking or running on or along track -	115	11	4	15	---	---	3
SUBTOTAL.....	204	197	7	204	---	---	97
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	9	9	---	9	---	---	---
054T Stumbled, slipped, fell, or stepped on foreign obj, equipment moving	4	4	---	4	---	---	---
702T Crossing track at private rail-highway crossing - equipment moving	4	---	1	1	---	---	3
703T Crossing track not at a crossing - equipment moving	37	1	---	1	---	---	6
704T While on public thoroughfare - equipment moving	1	1	---	1	---	---	---
705T On bridges or trestles - equipment moving	33	1	---	1	---	---	32
706T Sitting or lying on track or near track, not in clear - eqp moving	106	---	---	---	---	---	106
707T While working on or along track - equipment moving	23	12	8	20	1	---	1
708T Passing over, through, or under cars - equipment moving	53	---	2	2	---	---	51
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	58	6	3	9	---	---	9
SUBTOTAL.....	430	32	18	50	1	---	19
SERVICING OR MAINTENANCE OF EQUIPMENT							
802T Crossing over, under, or between locos or cars - equipment moving	1	---	1	1	---	---	---
803T Striking or being struck by eqp, structures, or material-eqp mov	35	1	34	35	---	---	---
815T Moving equipment for repairs	30	2	28	30	---	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	26	1	25	26	---	---	---
SUBTOTAL.....	92	4	88	92	---	---	---
MAINTENANCE OF WAY AND STRUCTURES							
852T Crossing over, under, or between locos or cars-eqp moving	2	---	2	2	---	---	---
853T Striking or being struck by eqp, structures, or material-eqp mov	61	---	59	59	---	---	2
899T Other acc/incs while maintaining way and structures - eqp moving	37	2	35	37	---	---	---
SUBTOTAL.....	100	2	96	98	---	---	2
FREIGHT, BAGGAGE, EXPRESS OR MAIL							
901T Handling freight, baggage, express or mail-eqp moving	9	4	5	9	---	---	---
902T Struck or caught by shifted lading-eqp moving	1	1	---	1	---	---	---
903T Tripping over, or struck by falling baggage in passenger car-eqp mov	2	---	1	1	---	1	---
904T Other acc/inc involving freight, baggage, express, or mail - eqp mov	7	2	3	5	---	2	---
SUBTOTAL.....	19	7	9	16	---	3	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT						
907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	4	---	4	4	---	---
908T Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov	1	1	---	1	---	---
909T Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	1	---	1	1	---	---
910T Closing or opening plug type car doors, defective equipment-eqp mov	2	---	2	2	---	---
912T Closing or opening coach trap doors-equipment moving	8	6	2	8	---	---
913T Interior doors-equipment moving	22	18	3	21	---	---
914T Opening or closing locomotive doors-equipment moving	21	21	---	21	1	---
915T Opening or closing locomotive windows-equipment moving	6	4	2	6	---	---
916T Opening or closing caboose doors-equipment moving	2	1	1	2	---	---
918T Opening and closing other windows-equipment moving	2	1	1	2	---	---
919T Other accidents/incidents involving windows or doors-eqp mov	22	13	6	19	3	---
SUBTOTAL.....	91	65	22	87	4	---
SUBTOTAL.....	204	197	7	204	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	9	9	---	9	---	---
054T Stumbled, slipped, fell, or stepped on foreign obj,	4	4	---	4	---	---
PASSENGER CAR DOORS						
920T Caught by side doors while entering coach-equipment moving	2	---	1	1	1	---
921T Caught by side doors while exiting coach-equipment moving	1	---	---	---	1	---
927T Striking side door while exiting coach-equipment moving	1	1	---	1	---	---
SUBTOTAL.....	4	1	1	2	2	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
930T Stumbling/slipping, etc. on snow or ice - equipment moving	8	8	---	8	---	---
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	40	37	3	40	---	---
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	9	6	2	8	---	1
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	11	7	---	7	---	2
935T From bridges of trestles-equipment moving	4	---	---	---	---	1
936T From structures other than bridges or trestles-equipment moving	1	---	1	1	---	---
937T Into depressions - equipment moving	5	5	---	5	---	---
938T While on locomotive or car-equipment moving	139	56	51	107	26	6
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	32	13	11	24	2	4
SUBTOTAL.....	249	132	68	200	28	16
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
940T Foreign object in eye-equipment moving	104	95	8	103	1	---
941T Struck by flying or falling object (except assaults)-eqp mov	25	17	3	20	1	1
942T Electrical flash, shock, or burn-equipment moving	1	---	---	---	1	---
943T Fire or explosion of fuses or torpedoes-equipment moving	1	1	---	1	---	---
944T Other fire or explosion-equipment moving	3	3	---	3	---	---
945T Burned by hot or corrosive substances-equipment moving	7	5	2	7	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	10	8	2	10	---	---
947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	---	---	---	---	1
949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	6	1	3	4	---	---
SUBTOTAL.....	158	130	18	148	3	2

TABLE 67. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
OPERATION OF ON-TRACK WORK EQUIPMENT								
950T	Collision with train or car	4	---	4	---	---	---	---
951T	Collision with other on-track work equipment	16	---	16	---	---	---	---
952T	Jumping from equipment in anticipation of a collision	10	3	7	10	---	---	---
953T	Deraiment that does not satisfy monetary threshold	24	3	20	23	---	1	---
954T	Getting on/off on-track work equipment - equipment moving	2	1	1	2	---	---	---
959T	Other A/I involving on-track work equipment - equipment moving	17	---	17	17	---	---	---
SUBTOTAL.....		73	7	65	72	---	1	---
ASSAULT								
96AT	Shot while on moving on-track equipment	2	2	---	2	---	---	---
96CT	Struck by other propelled object while on locomotive - equip moving	35	35	---	35	---	---	---
96DT	Struck by other propelled object while on car - equip moving	3	3	---	3	---	---	---
96ET	Struck by other propelled object while on caboose - equip moving	6	5	1	6	---	---	---
SUBTOTAL.....		204	197	7	204	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
052T	Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	9	9	---	9	---	---	---
054T	Stumbled, slipped, fell, or stepped on foreign obj,	4	4	---	4	---	---	---
960T	Other unprovoked assaults to persons on moving on-track equipment	12	9	3	12	---	---	---
96LT	Other assaults connected with the protection of RR property - eqp moving	2	1	1	2	---	---	---
96MT	All other assaults involving moving on-track equipment	1	---	1	1	---	---	---
SUBTOTAL.....		61	55	6	61	---	---	---
OTHER OCCURRENCES								
970T	Performing rerailling or other clearing operations-equipment moving	4	1	3	4	---	---	---
971T	Loco or car coming against car placed for loading or unloading	2	2	---	2	---	---	---
972T	Sudden movement of car, not otherwise classified	21	7	9	16	1	1	1
974T	Slack action in caboose	69	69	---	69	---	---	---
975T	Slack action, other	54	46	5	51	1	1	1
976T	Emergency or severe application of air brakes due to def eqp	1	1	---	1	---	---	---
977T	Emergency or severe application of air brakes not due to def eqp	19	16	---	16	3	---	---
986T	Unexpected move of caboose, not slack action (include emergency & severe braking)	14	13	1	14	---	---	---
988T	Other accidents/incidents while in caboose, equipment moving	19	19	---	19	---	---	---
989T	Other accidents/incidents-equipment moving	97	36	35	71	2	5	11
SUBTOTAL.....		300	210	53	263	3	7	13
GRAND TOTAL.....		6,168	2,588	565	3,153	5	86	779

NOTE: Contractor employees are included with nontrespassers

**TABLE 68. ILLNESS IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE
AND TYPE OF PERSON**

Occurrence		Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
059T	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	1	1	---	1	---	---
	SUBTOTAL.....	1	1	---	1	---	---
OPERATING OR ON LOCOMOTIVES							
109T	Inhalation of or contact with fumes or gases - equipment moving	25	25	---	25	---	---
119T	Other accidents/incidents while operating locomotives - eqp moving	11	10	1	11	---	---
	SUBTOTAL.....	36	35	1	36	---	---
OPERATING SWITCHES OR DERAILS							
309T	Other acc/inc while operating switches/derails - equipment moving	2	2	---	2	---	---
	SUBTOTAL.....	2	2	---	2	---	---
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	1	1	---	1	---	---
	SUBTOTAL.....	1	1	---	1	---	---
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)							
702T	Crossing track at private rail-highway crossing - equipment moving	1	1	---	1	---	---
	SUBTOTAL.....	1	1	---	1	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.							
940T	Foreign object in eye-equipment moving	1	1	---	1	---	---
946T	Inhalation of or contact with fumes or gases-equipment moving	12	11	1	12	---	---
	SUBTOTAL.....	13	12	1	13	---	---
ASSAULT							
960T	Other unprovoked assaults to persons on moving on-track equipment	1	1	---	1	---	---
	SUBTOTAL.....	1	1	---	1	---	---
OTHER OCCURRENCES							
989T	Other accidents/incidents-equipment moving	6	5	1	6	---	---
	SUBTOTAL.....	6	5	1	6	---	---
	GRAND TOTAL.....	61	58	3	61	---	---

NOTE: Contractor employees are included with nontrespassers

CASUALTIES IN NON-TRAIN INCIDENTS

TABLE 69. FATALITIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence		Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS							
409	Persons on loco/car coming in contact with fixed obj(other)-eqp std	1	1	---	---	---	---
	SUBTOTAL.....	1	1	---	---	---	---
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
609	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	8	---	---	---	8	---
	SUBTOTAL.....	8	---	---	---	8	---
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)							
701	Standing, walking or running on or along track - equipment standing	1	---	---	---	---	1
709	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	1	---	---	---	---	1
	SUBTOTAL.....	2	---	---	---	---	2
SERVICING OR MAINTENANCE OF EQUIPMENT							
806	Use of welding equipment	1	---	1	---	---	---
810	Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	---	---	---
811	Use of lift trucks and other portable material handling eqp	1	---	---	---	1	---
	SUBTOTAL.....	3	---	2	---	1	---
MAINTENANCE OF WAY AND STRUCTURES							
870	Electrical flash, shock, or burn	1	---	1	---	---	---
873	Burned or irritated by hot, corrosive or toxic substances	1	---	1	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	2	---	2	---	---	---
899	Other accs/incs while maintaining way and structures - eqp standing	1	---	1	---	---	---
	SUBTOTAL.....	5	---	5	---	---	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT							
908	Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	1	---	---	---	1	---
911	Closing or opening plug type car doors, no defects-equipment std	1	---	---	---	---	1
	SUBTOTAL.....	2	---	---	---	1	1
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED							
933	Stumbling/slipping, etc. on stairways, ramps or platforms	2	---	---	---	2	---
935	From bridges or trestles	1	---	1	---	---	---
937	Into depressions	1	---	---	---	---	1
938	While on locomotive or car-equipment standing	1	---	---	1	---	---
	SUBTOTAL.....	5	---	1	1	2	1
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.							
944	Other fire or explosion	1	---	---	---	1	---
946	Inhalation of or contact with fumes or gases	5	---	---	---	---	5
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	3	---	---	---	---	3
	SUBTOTAL.....	9	---	---	---	1	8
ASSAULT							
961	Other assaults connected with the protection of RR property - eqp standing	1	---	1	---	---	---
96M	All other assaults not involving moving on-track equipment	1	---	1	---	---	---
	SUBTOTAL.....	2	---	2	---	---	---
OTHER OCCURRENCES							
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	7	---	5	---	2	---
980	Horseplay	1	---	---	---	1	---
985	Other accidents/incidents	5	---	---	---	2	3
	SUBTOTAL.....	13	---	5	1	4	3
	GRAND TOTAL.....	50	1	15	16	2	17

NOTE: Contractor employees are included with nontrespassers

TABLE 70. INJURIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence		Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
002	Adjusting coupler - equipment standing	198	192	6	198	---	---	---
003	Crossing over, under or between on-track equipment, equipment standing	4	4	---	4	---	---	---
004	Adjusting coupler, part of coupler fell striking person-eqp standing	25	23	2	25	---	---	---
005	Use of uncoupling lever - equipment standing	53	50	3	53	---	---	---
007	Striking parts of body against equipment - equipment standing	31	28	3	31	---	---	---
008	Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std	98	91	7	98	---	---	---
009	Other acc/inc while coupling/uncoupling cars or locos - equip std	81	77	4	81	---	---	---
SUBTOTAL.....		490	465	25	490	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
051	Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---	---
052	Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---	---
053	Coupling air hose, stk by hose due to sudden release of air - eqp std	24	19	5	24	---	---	---
054	Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp standing	46	40	6	46	---	---	---
055	Defective equipment - equipment standing	2	1	1	2	---	---	---
056	Burned by hot water or steam from hose - equipment standing	3	1	2	3	---	---	---
057	Opening or closing angle cocks - equipment standing	36	33	3	36	---	---	---
059	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	118	94	24	118	---	---	---
SUBTOTAL.....		262	214	48	262	---	---	---
OPERATING OR ON LOCOMOTIVES								
101	Burn or electrical shock - equipment standing	9	4	5	9	---	---	---
102	Striking parts of body against equipment, moving about loco-eqp std	64	53	11	64	---	---	---
103	Struck by tools or other objects falling - equipment standing	10	9	1	10	---	---	---
104	Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	141	126	15	141	---	---	---
105	Chocking, oiling, servicing locomotive, etc. - equipment standing	48	25	23	48	---	---	---
109	Inhalation of or contact with fumes or gases - equipment standing	32	30	2	32	---	---	---
110	Defective locomotive seat - equipment standing	24	22	2	24	---	---	---
111	Adjusting locomotive seat - equipment standing	52	52	---	52	---	---	---
112	Foreign object in eye - equipment standing	61	58	3	61	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	110	99	11	110	---	---	---
SUBTOTAL.....		551	478	73	551	---	---	---
OPERATING RAIL MOTORCARS								
151	Striking parts of body against equipment - equipment standing	1	---	1	1	---	---	---
153	Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	3	---	3	3	---	---	---
155	Placing or removing rail motorcar on or off rail	11	---	11	11	---	---	---
159	Other accidents/incidents while operating rail motorcars - eqp std	5	3	2	5	---	---	---
SUBTOTAL.....		20	3	17	20	---	---	---

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
OPERATING HAND BRAKES							
200 Manipulating hand brakes, no defects, equipment standing	212	204	8	212	---	---	---
201 Defective equipment - equipment standing	38	37	1	38	---	---	---
202 Pawl slipping or accidentally knocked out of ratchet - eqp standing	4	4	---	4	---	---	---
203 Striking body not due to movement of equipment	15	13	2	15	---	---	---
205 Caught between parts of equipment or lading - equipment standing	3	3	---	3	---	---	---
206 Brake chains or bolts, breaking or giving way - equipment standing	15	14	1	15	---	---	---
207 Losing hold, slipping, or falling - equipment standing	38	36	2	38	---	---	---
208 Caught hand or fingers in spinning brake wheel - equipment standing	11	11	---	11	---	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing	58	43	15	58	---	---	---
SUBTOTAL.....	394	365	29	394	---	---	---
OPERATING SWITCHES OR DERAILS							
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
051 Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---	---
052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---	---
301 Slipped, tripped or fell due to ice or snow	38	33	5	38	---	---	---
302 Slipped, tripped or fell not due to ice or snow	35	32	3	35	---	---	---
303 Parts of body struck or caught by mechanism of switch	62	52	10	62	---	---	---
305 Lining switches, defective equipment	165	155	10	165	---	---	---
306 Lining switches, no defects	578	530	48	578	---	---	---
307 Manipulating derail, no defects	28	22	6	28	---	---	---
308 Manipulating derail, defective equipment	10	10	---	10	---	---	---
309 Other acc/inc while operating switches/derails - equipment standing	170	151	19	170	---	---	---
SUBTOTAL.....	1,086	985	101	1,086	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS							
401 Persons on top locos/cars contacting fixed objects - equipment std	3	1	2	3	---	---	---
402 Persons on side/end of locos/cars contacting fixed objects - eqp std	3	1	2	3	---	---	---
409 Persons on loco/car coming in contact with fixed obj(other)-eqp std	18	11	6	17	---	1	---
SUBTOTAL.....	24	13	10	23	---	1	---
GETTING ON OR OFF CARS OR LOCOMOTIVES							
501 Slip/fall due to lost/missed hold of grab/iron, handheld, etc.-eqp std	55	41	13	54	---	---	1
502 Slip/fall due to losing/missing footing on step, stirrup, etc.-eqp std	191	138	39	177	1	11	2
503 Stepping or tripping on parts of track in place - equipment standing	30	27	3	30	---	---	---
504 Stepping or tripping on foreign material or irreg surface - eqp std	227	199	24	223	---	4	---
505 Slipping on ice or snow on ground - equipment standing	40	38	1	39	---	1	---
506 Slipping on ice/snow on cars or locomotives - equipment standing	29	24	3	27	---	1	1
507 Falling, slipping, tripping, not elsewhere classified - eqp std	105	69	25	94	1	9	1
508 Slipping/falling while boarding/alighting fm passenger eqp(standing)	91	24	17	41	2	43	5
511 Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	41	32	3	35	---	6	---
513 Jumping from equipment - equipment standing	11	7	---	7	---	2	1
514 Defective equipment - equipment standing	15	14	1	15	---	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std	230	184	42	226	1	2	1
SUBTOTAL.....	1,065	797	171	968	5	79	10

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS						
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	67	1	---	---	56	10
610 Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std	1	---	---	---	1	---
SUBTOTAL.....	68	1	---	---	57	10
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)						
701 Standing, walking or running on or along track - equipment standing	1	---	---	---	---	1
703 Crossing track not at a crossing - equipment standing	6	1	---	---	---	5
708 Passing over, through, or under cars - equipment standing	3	1	---	---	---	2
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	3	---	---	---	---	3
SUBTOTAL.....	13	2	---	---	---	11
SERVICING OR MAINTENANCE OF EQUIPMENT						
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051 Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---
052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---
802 Crossing over, under, or between locos or cars - equipment standing	26	---	26	26	---	---
803 Striking or being struck by eqp, structures, or material-eqp std	363	3	355	358	2	3
804 Use of hand tools	436	4	431	435	---	1
805 Use of portable power tools	133	1	130	131	---	2
806 Use of welding equipment	80	1	74	75	---	5
807 Use of oxygen-acetylene, natural gas cutting equipment	78	---	78	78	---	---
808 Use of grinding equipment	29	---	26	26	---	3
809 Use of scaffolds, ladders, etc.	50	1	48	49	---	1
81A Lifting parts to install while making repairs	150	3	144	147	---	3
810 Use of cranes, hoists, derricks, piledrivers, etc.	111	---	111	111	---	---
811 Use of lift trucks and other portable material handling eqp	95	---	92	92	1	2
812 Use of shop machinery not elsewhere classified	88	---	88	88	---	---
813 Loading and unloading materials	143	1	140	141	1	1
814 Handling material by hand	643	15	625	640	1	2
816 Inhalation of or contact with fumes or gases	16	3	12	15	1	---
817 Foreign object in eye, using eye protection	241	13	224	237	---	4
818 Foreign object in eye, not using eye protection	91	8	78	86	2	3
819 Struck by flying or falling object	177	4	171	175	---	2
82 Electrical flash, shock, or burn	45	---	44	44	---	1
821 Fire or explosion of fuses or torpedoes	3	1	2	3	---	---
822 Other fire or explosion	6	---	6	6	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	55	2	53	55	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	675	15	620	635	37	3
825 Other acc/inc while servicing or maintaining eqp-eqp std	849	24	817	841	3	5
SUBTOTAL.....	4,583	99	4,395	4,494	48	41

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES								
852	Crossing over, under, or between locos or cars-eqp std	4	---	4	---	---	---	---
853	Striking or being struck by eqp, structures, or material-eqp std	324	1	320	321	---	3	---
854	Use of hand tools	696	2	688	690	---	6	---
855	Use of portable power tools	242	2	238	240	---	2	---
856	Use of welding equipment	34	---	33	33	---	1	---
857	Use of oxygen-acetylene, natural gas cutting equipment	25	---	25	25	---	---	---
858	Use of grinding equipment	47	---	46	46	---	1	---
859	Use of scaffolds, ladders, etc.	41	1	38	39	---	2	---
860	Use of cranes, hoists, derricks, piledrivers, etc.	98	---	97	97	---	1	---
861	Use of lift trucks and other portable material handling eqp	47	---	45	45	---	2	---
862	Use of shop machinery not elsewhere classified	23	---	23	23	---	---	---
863	Loading and unloading materials	424	1	423	424	---	---	---
864	Handling material by hand	655	2	649	651	4	---	---
866	Inhalation of or contact with fumes or gases	4	1	3	4	---	---	---
867	Foreign object in eye, using eye protection	108	2	103	103	---	3	---
868	Foreign object in eye, not using eye protection	97	1	94	95	1	1	---
869	Struck by flying of falling object	210	---	209	209	1	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
051	Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---	---
052	Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---	---
870	Electrical flash, shock, or burn	38	1	36	37	---	1	---
871	Fire or explosion of fuses or torpedoes	3	1	2	3	---	---	---
872	Other fire or explosion	33	---	29	29	4	---	---
873	Burned or irritated by hot, corrosive or toxic substances	33	---	33	33	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	693	8	665	673	18	2	---
875	Use of maintenance of way equipment not elsewhere classified	165	---	162	162	2	1	---
876	Inserting or removing ties, switch timbers and tie plates by use of hand tools	175	---	174	174	---	1	---
877	Insert/remove ties, switch timbers and tie plates using portable power tools	53	1	52	53	---	---	---
878	Loading/unloading ties, switch timbers, tie plates and fastenings	162	2	155	157	---	5	---
879	Handling rail by use of power tools	35	---	35	35	---	---	---
880	Handling rail by use of hand tools	95	---	92	92	---	3	---
890	Handling/inserting/removing rail anchors (includes being struck by anchors)	110	---	110	110	---	---	---
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	313	1	311	312	---	1	---
892	Working on or about sgml or comm. poles, sgml masts, sgml cantilevers or catenary	109	2	107	109	---	---	---
893	Servicing or repairing MOW equipment at work site	119	---	119	119	---	---	---
899	Other accs/incs while maintaining way and structures - eqp standing	391	---	388	388	1	2	---
SUBTOTAL.....		5,626	29	5,528	5,557	31	38	---
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901	Handling freight, baggage, express or mail	51	12	38	50	---	1	---
902	Struck or caught by shifted lading	2	---	1	1	---	---	---
903	Tripping over, or struck by falling baggage in passenger car-eqp std	5	2	1	3	1	---	---
904	Other accident/incident involving freight, baggage, express, or mail	21	6	13	19	---	2	---
SUBTOTAL.....		79	20	53	73	1	3	---

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907	Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	27	3	23	26	---	1	---
908	Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	19	3	16	19	---	---	---
909	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	31	3	26	29	---	2	---
910	Closing or opening plug type car doors, defective equipment-eqp std	8	1	7	8	---	---	---
911	Closing or opening plug type car doors, no defects-equipment std	25	2	20	22	---	3	---
912	Closing or opening coach trap doors-equipment standing	15	10	3	13	---	1	---
913	Interior doors-equipment standing	35	27	4	31	1	1	---
914	Opening or closing locomotive doors-equipment standing	57	47	10	57	---	---	---
915	Opening or closing locomotive windows-equipment standing	13	11	2	13	---	---	---
916	Opening or closing caboose doors-equipment standing	7	6	---	6	---	1	---
917	Opening or closing caboose windows-equipment standing	2	---	2	2	---	---	---
918	Opening and closing other windows	8	6	2	8	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
051	Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---	---
052	Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---	---
919	Other accidents/incidents involving windows or doors	89	50	49	79	3	4	1
SUBTOTAL.....		336	149	164	313	4	12	1
PASSENGER CAR DOORS								
920	Caught by side doors while entering coach-equipment standing	7	---	3	3	---	4	---
924	Struck by side doors while entering coach-equipment standing	3	1	2	3	---	---	---
925	Struck by side doors while exiting coach-equipment standing	2	---	1	1	---	---	---
926	Striking side door while entering coach-equipment standing	1	1	---	1	---	---	---
SUBTOTAL.....		13	2	6	8	---	5	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930	Stumbling/slipping, etc. on snow or ice	337	152	130	282	44	1	---
931	Stumbling/slipping, etc. on foreign material or irregular surface	685	384	241	625	33	2	2
932	Stumbling/slipping, etc. on parts of track in place	154	87	52	139	4	5	6
933	Stumbling/slipping, etc. on stairways, ramps or platforms	411	47	141	188	56	138	3
934	Slip/fall, etc. between loco/car and other cars and struct-eqp std	38	11	11	22	---	14	2
935	From bridges or trestles	23	3	14	17	---	1	5
936	From structures other than bridges or trestles	30	6	16	22	1	5	2
937	Into depressions	135	64	57	121	6	7	1
938	While on locomotive or car-equipment standing	130	26	74	100	1	13	1
939	Other, stumbling, slipping, falling, caught, etc.	284	91	127	218	27	5	2
SUBTOTAL.....		2,227	871	863	1,734	172	236	24

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.							
940	Foreign object in eye	179	119	46	165	5	9
941	Struck by flying or falling object (except assaults)	91	33	36	69	1	21
942	Electrical flash, shock, or burn	12	---	7	7	---	1
943	Fire or explosion of fuses or torpedoes	4	3	---	3	---	---
944	Other fire or explosion	13	4	7	11	1	---
945	Burned by hot or corrosive substances	22	7	12	19	---	3
946	Inhalation of or contact with fumes or gases	37	20	8	28	---	9
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	5	---	---	---	---	5
949	Other acc/inc resulting from flying/falling objs, burns, etc.	26	10	10	20	1	5
SUBTOTAL.....		389	196	126	322	8	49
OPERATION OF ON-TRACK WORK EQUIPMENT							
954	Getting on/off on-track work equipment - equipment standing	44	---	44	44	---	---
959	Other A/I involving on-track work equipment - equipment standing	43	3	40	43	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
051	Crossing over, under or between on-track equipment, equipment standing	3	2	1	3	---	---
052	Uncoupl air hose, struck by hose due to sudden release of air-eqp std	30	24	6	30	---	---
SUBTOTAL.....		87	3	84	87	---	---
ASSAULT							
96B	Shooting incidents not involving persons on on-track equipment	5	1	2	3	1	---
96C	Struck by other propelled object while on locomotive - equip standing	4	4	---	4	---	---
96D	Struck by other propelled object while on car - equip standing	4	3	---	3	1	---
96F	Struck by other propelled object, not on on-track equipment	4	2	---	2	1	1
96G	All other unprovoked assaults	107	33	48	81	8	14
96K	Shooting incidents that did not involve persons on on-track equipment	2	---	2	2	---	---
96L	Other assaults connected with the protection of RR property - eqp standing	27	2	24	26	1	---
96M	All other assaults not involving moving on-track equipment	49	5	39	44	1	1
96N	Injuries sustained by ther perpetrator of an assault	4	---	3	3	---	1
SUBTOTAL.....		206	50	118	168	13	17
OTHER OCCURRENCES							
970	Performing rerailling or other clearing operations	41	6	34	40	---	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	556	146	332	478	33	32
979	Servicing and maintenance of highway vehicles	17	---	14	14	1	2
980	Horseplay	16	1	11	12	1	1
981	Animal bites, including snake bites	20	3	10	13	2	1
982	Insect bites	219	69	132	201	13	4
983	Incidents occurring in office setting involving clerical, staff, etc., personnel	416	7	390	397	14	5
984	Contact with poisonous plants	25	---	25	25	---	---
985	Stepping on nails or other sharp objects	56	19	31	50	3	1
987	Caboose fire, equipment standing	4	1	2	3	---	---
988	Other accidents/incidents while in caboose, equipment standing	10	8	1	9	1	---
989	Other accidents/incidents	680	189	310	499	42	113
SUBTOTAL.....		2,060	449	1,292	1,741	109	161
GRAND TOTAL.....		19,579	5,191	13,103	18,294	391	624

NOTE: Contractor employees are included with nontrespassers

**TABLE 71. ILLNESSES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE
AND TYPE OF PERSON**

Occurrence		Total Illness	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nonres- passers	Tres- passers
			Trainmen	Other				
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
009	Other acc/inc while coupling/uncoupling cars or locom - equip std	3	3	---	3	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
052	Uncoupl air hose, struck by hose due to sudden release of air-eqp std	1	1	---	1	---	---	---
057	Opening or closing angle cocks - equipment standing	1	1	---	1	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---
OPERATING OR ON LOCOMOTIVES								
109	Inhalation of or contact with fumes or gases - equipment standing	12	11	1	12	---	---	---
112	Foreign object in eye - equipment standing	2	2	---	2	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	7	7	---	7	---	---	---
	SUBTOTAL.....	21	20	1	21	---	---	---
OPERATING HAND BRAKES								
200	Manipulating hand brakes, no defects, equipment standing	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
OPERATING SWITCHES OR DERAILS								
301	Slipped, tripped or fell due to ice or snow	1	1	---	1	---	---	---
309	Other acc/inc while operating switches/derails - equipment standing	2	2	---	2	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
519	Other acc/inc while getting on or off cars or locom - equipment std	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
SERVICING OR MAINTENANCE OF EQUIPMENT								
804	Use of hand tools	5	---	5	5	---	---	---
805	Use of portable power tools	1	---	1	1	---	---	---
806	Use of welding equipment	1	---	1	1	---	---	---
807	Use of oxygen-acetylene, natural gas cutting equipment	1	---	1	1	---	---	---
814	Handling material by hand	3	---	3	3	---	---	---
816	Inhalation of or contact with fumes or gases	11	---	11	11	---	---	---
823	Burned or irritated by hot, corrosive, or toxic substances	8	1	7	8	---	---	---
825	Other acc/inc while servicing or maintaining eqp-eqp std	35	1	34	35	---	---	---
	SUBTOTAL.....	65	2	63	65	---	---	---

TABLE 71. (CONTINUED)

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES						
854 Use of hand tools	2	---	2	---	---	---
856 Use of welding equipment	1	---	1	---	---	---
858 Use of grinding equipment	1	---	1	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	---	---	---
861 Use of lift trucks and other portable material handling eqp	1	---	1	---	---	---
863 Loading and unloading materials	2	---	2	---	---	---
864 Handling material by hand	3	---	3	---	---	---
866 Inhalation of or contact with fumes or gases	12	1	11	12	---	---
867 Foreign object in eye, using eye protection	1	---	1	---	---	---
870 Electrical flash, shock, or burn	2	---	2	---	---	---
871 Fire or explosion of fuses or torpedoes	3	---	3	---	---	---
872 Other fire or explosion	1	---	1	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances	15	---	15	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	1	---	---	1	---	---
875 Use of maintenance of way equipment not elsewhere classified	5	---	5	---	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	1	---	1	---	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	12	11	1	12	---	---
112 Foreign object in eye - equipment standing	2	2	---	2	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	7	7	---	7	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	3	---	3	---	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	1	---	1	---	---	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	2	---	2	---	---	---
892 Working on or about sgml or comm. poles, sgml masts, sgml cantilevers or catenary	4	---	4	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	25	---	25	---	---	---
SUBTOTAL.....	87	1	85	86	1	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT						
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
931 Stumbling/slipping, etc. on foreign material or irregular surface	1	---	1	---	---	---
939 Other, stumbling, slipping, falling, caught, etc.	2	2	---	2	---	---
SUBTOTAL.....	3	2	1	3	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
945 Burned by hot or corrosive substances	1	---	1	---	---	---
946 Inhalation of or contact with fumes or gases	26	16	10	26	---	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	1	---	1	---	---	---
SUBTOTAL.....	28	16	12	28	---	---
OTHER OCCURRENCES						
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	5	3	1	4	1	---
982 Insect bites	8	2	6	8	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	23	---	23	23	---	---
984 Contact with poisonous plants	41	4	37	41	---	---
989 Other accidents/incidents	44	19	20	39	4	1
SUBTOTAL.....	121	28	87	115	5	1
GRAND TOTAL.....	336	79	250	329	6	1

NOTE: Contractor employees are included with nontrespassers

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1989, define a reportable accident/incident as an event arising from the operation of a railroad which, with minor exceptions, results in one or more of the following circumstances:

- (a) Any impact between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian, or other highway user at a rail-highway crossing;
- (b) Any collision, derailment, fire, explosion, act of God, or other event involving the operation of railroad on-track equipment, standing or moving, which results in more than \$5,700 in damages to railroad on-track equipment, signals, track, track structures, and roadbed; and
- (c) Any event arising from the operation of a railroad which results in:
 - (i) the death of one or more persons;
 - (ii) an injury to one or more persons; other than railroad employees, which requires medical treatment
 - (iii) an injury to one or more employees which requires medical treatment or results in: restriction of work or motion for one or more days, or one or more lost work days; transfer to another job; termination of employment; or loss of consciousness; or
 - (iv) any occupational illness of a railroad employee as diagnosed by a physician.

CLASSIFICATION OF ACCIDENTS/INCIDENTS

Train Accident. A collision, derailment, or other event involving the operation of railroad on-track equipment resulting in damages that exceed the reporting threshold.

Train Incident. Any event involving the movement of railroad on-track equipment that results in a death, a reportable injury, or a reportable illness, but in which railroad property damage does not exceed the reporting threshold.

Non-train Incident. An event arising from railroad operations but not from the movement of on-track equipment, which does not exceed the reporting threshold, and results in a death, a reportable injury, or a reportable occupational illness.

DEFINITIONS

Accident. See "train accident," above.

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. It also includes on-track maintenance equipment.

Casualty. A fatality, a nonfatal injury, or an occupational illness resulting from railroad operations.

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

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.

Derailment. A derailment occurs when one or more than one unit of rolling stock equipment leaves the rails during train operations for a cause other than collision, explosion, or fire.

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

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

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

Hazardous materials. Any toxic substance, explosive, corrosive material, combustible material, poison, or radioactive material that poses a risk to the public's health, safety, or property when transported in commerce.

Human factor. Behavior affecting elements of railroad employee job performance.

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

Locomotive-mile. The movement of a locomotive under its own power the distance of one mile.

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.

Man-hour. An industrial unit of production reflecting paid labor hours.

Nonfatal casualty. Injuries and occupational illnesses incurred during railroad operations and maintenance procedures.

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

Occupational illness. Any abnormal condition or disorder caused by environmental factors associated with a worker's employment, but not the result of an injury.

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

Operating practice. Railroad employment performance and adherence to the established operating rules of a railroad company.

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

Public crossing. A location open to public travel where railroad tracks intersect a roadway 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 sidewalk, or a pathway.

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

Reporting threshold. The level of railroad property damage, resulting from a train accident involving on-track equipment, over which a railroad company must report the accident to the Federal Railroad Administration. Reportable damages include the cost of labor and the cost of repairing (or replacing in kind) damaged on-track equipment, track, track structures, or roadbed.

Revenue ton-mile. Revenue freight traffic measured in ton-miles.

Tank car. A railroad car consisting of a large cylindrical container attached to the railcar truck and used to transport liquids in bulk.

Ton-mile. A unit of measure equal to the movement of one ton of railroad lading for a distance of one mile.

Train. Locomotive unit or units, with or without cars, involved in railroad operations.

Trainmen. Persons employed as engineers and motormen, firemen and helpers, conductors, brakemen, and flagmen engaged in passenger, freight, yard or work service, and train baggagemen. Prior to 1984 this category did not include hostlers. The Interstate Commerce Commission revised the occupational groupings in 1984 and now includes hostlers in the train and engine category.

Train-mile. A unit of comparative measure equal to the movement of one train for a distance of one mile.

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

APPENDIX B
REPORTING FORMS

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 04-R4009

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

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

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

(Use an im-
[L.S]
pression seal) _____ (Notary Public) _____ (Signature of affiant)

7. **MILES RUN DURING MONTH**

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

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED

TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-53A	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		
								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.

FORM APPROVED
OMB NO. 04R4035

SHEET _____ OF _____

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH
-------------------------------	--------------------	-----------------

CASUALTIES (Cont.)[illegible]

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		Amtrak <input type="checkbox"/> Autotrain <input type="checkbox"/>	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER		5. DATE OF ACCIDENT/INCIDENT month day year		6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry)				
1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify) CODE 2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion-Defonation				
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) 1. Dawn 3. Dusk 2. Day 4. Dark		18. WEATHER (single entry) 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow CODE
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) MPH Est. Recorded		21. TRAIN NUMBER		22. TIME TABLE DIRECTION 1. North 2. South 3. East 4. West CODE
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)		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 1. Main 3. Siding 2. Yard 4. Industry CODE				
30. PRINCIPLE CAR/UNIT		30a. Initial and Number		30b. Position in Train
(1) First Involved (derailed, struck, striking, etc.)				
(2) Causing/mechanical failures				
31. LOCOMOTIVE UNITS (no. of)		32. CARS (no. of)		33. 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		Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER			5. DATE OF ACCIDENT/INCIDENT month day year	6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
LOCATION				
7. NEAREST RAILROAD STATION		8. COUNTY		9. STATE (two letter code) CODE
10. CITY (if in a city)		11. HIGHWAY NAME OR NUMBER (if private crossing, so state)		
ACCIDENT/INCIDENT SITUATION				
HIGHWAY USER INVOLVED			RAILROAD EQUIPMENT INVOLVED	
12. TYPE 1. Auto 3. Truck-Trailer 6. Motorcycle 2. Truck 4. Bus 7. Pedestrian 5. School Bus 8. Other (specify)			16. EQUIPMENT 1. Train (units pulling) 3. Train (standing) 6. Light loco(s) (moving) 2. Train (units pushing) 4. Car(s) (moving) 7. Light loco(s) (standing) 5. Car(s) (standing) 8. Other (specify)	
13. SPEED (estimated mph at impact)			14. DIRECTION (geographical) 1. North 3. East 2. South 4. West	17. POSITION OF CAR/UNIT IN TRAIN
15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing			18. CIRCUMSTANCE 1. Train struck by 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				
ENVIRONMENT				
20. TEMPERATURE (specify, if minus) °F		21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark		22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow
TRAIN AND TRACK				
23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)			24. TRACK TYPE USED BY TRAIN INVOLVED 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 (recorded speed, if available) MPH Est Recorded		30. TIME TABLE DIRECTION 1. North 3. East 2. South 4. West
CROSSING WARNING				
31. TYPE (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"/> Flipped 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			32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No	
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach		34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown	
MOTORIST ACTION				
36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown			37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	
38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown				
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other (specify) 4. Topography 6. Highway vehicles 8. Not obstructed				
HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES				
40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)		41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured		42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED		44. TOTAL NUMBER OF OCCUPANTS INJURED		45. TOTAL NUMBER OF OCCUPANTS (include driver)
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No				
47. TYPED NAME AND TITLE		48. SIGNATURE		49. DATE

ANNUAL SUMMARY REPORT
of
RAILROAD INJURY AND ILLNESS
(Covering Calendar Year ____)

COMPLETE THIS REPORT WHETHER OR NOT THERE WERE
ANY REPORTABLE OCCUPATIONAL INJURIES OR ILLNESSES.
READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

I. ESTABLISHMENTS INCLUDED IN THIS REPORT

This report should include all establishments located in, or identified by, the reporting railroad. Enter the number of establishments (see definition in the FRA Guide).

II. AVERAGE EMPLOYMENT IN REPORTING YEAR

Enter the average number of employees during calendar year. Count all classes of employees, including seasonal, temporary, part-time, etc. See instructions in the FRA Guide for examples of computing your average employment.

_____ (Round to the nearest whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR

Enter the total number of hours actually worked by all employees. DO NOT include any non-work time even

though paid, such as vacations, sick leave, holidays, etc.

_____ (Round to the nearest whole number)

IV. REPORTABLE INJURIES AND ILLNESSES

Did you have any reportable injuries or illnesses during the reporting year? (Check one)

- (1) ☐ No - complete Section VII,
(2) ☐ Yes - complete Sections V, VI and VII.

V. MONTHLY DATA OF REPORTABLE INJURIES AND ILLNESSES

Of the Total Reportable Occupational Injuries and Illnesses (Section VI, Line 10 column 1), how many occurred in the following months?

Calendar Year			
Jan. _____	Apr. _____	July _____	Oct. _____
Feb. _____	May _____	Aug. _____	Nov. _____
Mar. _____	June _____	Sept. _____	Dec. _____

CORPORATE NAME AND MAIL-
ING ADDRESS OF REPORTING
RAILROAD →

Name		Alphabetic Railroad Code (See FRA Guide, Appendix A)
STREET		
CITY	STATE	ZIP CODE

FORM FRA F6180-45 (7-76)
PREVIOUS EDITIONS ARE OBSOLETE.

This report is required by regulation (49 CFR 225). Failure to report can result in the imposition of civil penalties.

VI. INJURY AND ILLNESS SUMMARY (Covering Calendar Year _____)

- INSTRUCTIONS:**
- This section may be completed by Copying data from the "Annual Summary" which you are required to complete and post in your establishment.
 - Leave Section VI blank if there were no reportable injuries or illnesses during the reporting year.
 - Line 9 — Add all Occupational Illnesses (Lines 2 through 8) and enter on this line for each column (1) through (8).
 - Line 10 - Add Occupational Injuries (Line 1) and the sum of all Occupational Illnesses (Line 9) and enter on this line for each column (1) through (8).

LINE	INJURY AND ILLNESS CATEGORY	TOTAL CASES (1)	DEATHS (2)	LOST WORKDAY CASES ONLY				NONFATAL CASES WITH- OUT LOST WORKDAYS (7)	TERMINA- TIONS OR PERMANENT TRANSFERS (8)
				Total lost work- day cases (includes restricted workday cases) (3)	Cases involving days away from work (4)	Days away from work (5)	Days of restricted work activity (6)		
1	OCCUPATIONAL INJURIES								
2	OCCUPATIONAL ILLNESSES	Occupational Skin Diseases or Disorders							
3		Dust Diseases of the Lungs							
4		Respiratory Conditions Due to Toxic Agents							
5		Poisoning (Systemic Effects of Toxic Materials)							
6		Disorders Due to Physical Agents							
7		Disorders Associated With Repeated Trauma							
8		All Other Occupational Illnesses							
9		TOTAL OCCUPATIONAL ILLNESSES (Add Lines 2 through 8)							
10	TOTAL OCCUPATIONAL INJURIES AND ILLNESSES (Add Lines 1 and 9)								

VII. COMMENTS: _____

Report prepared by: _____ Area Code and Phone: _____
 Title: _____ Date: _____

ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

1. REPORTING RAILROAD			ALPHABETIC CODE		2. REPORT YEAR				
3. ANNUAL MANHOURS									
A.	STATE	B. CODE	C.	M/HR.	A.	STATE	B. CODE	C.	M/HR.
(1)	ALABAMA	AL			(26)	MONTANA	MT		
(2)	ALASKA	AK			(27)	NEBRASKA	NE		
(3)	ARIZONA	AZ			(28)	NEVADA	NV		
(4)	ARKANSAS	AR			(29)	NEW HAMPSHIRE	NH		
(5)	CALIFORNIA	CA			(30)	NEW JERSEY	NJ		
(6)	COLORADO	CO			(31)	NEW MEXICO	NM		
(7)	CONNECTICUT	CT			(32)	NEW YORK	NY		
(8)	DELAWARE	DE			(33)	NORTH CAROLINA	NC		
(9)	DISTRICT OF COLUMBIA	DC			(34)	NORTH DAKOTA	ND		
(10)	FLORIDA	FL			(35)	OHIO	OH		
(11)	GEORGIA	GA			(36)	OKLAHOMA	OK		
(12)	IDAHO	ID			(37)	OREGON	OR		
(13)	ILLINOIS	IL			(38)	PENNSYLVANIA	PA		
(14)	INDIANA	IN			(39)	RHODE ISLAND	RI		
(15)	IOWA	IA			(40)	SOUTH CAROLINA	SC		
(16)	KANSAS	KS			(41)	SOUTH DAKOTA	SD		
(17)	KENTUCKY	KY			(42)	TENNESSEE	TN		
(18)	LOUISIANA	LA			(43)	TEXAS	TX		
(19)	MAINE	ME			(44)	UTAH	UT		
(20)	MARYLAND	MD			(45)	VERMONT	VT		
(21)	MASSACHUSETTS	MA			(46)	VIRGINIA	VA		
(22)	MICHIGAN	MI			(47)	WASHINGTON	WA		
(23)	MINNESOTA	MN			(48)	WEST VIRGINIA	WV		
(24)	MISSISSIPPI	MS			(49)	WISCONSIN	WI		
(25)	MISSOURI	MO			(50)	WYOMING	WY		
4. TYPED NAME AND TITLE					5. SIGNATURE			6. DATE	

FORM FRA F 6180-56 (8-74) SUBMIT THIS FORM WITH THE FRA F 6180-55, DECEMBER REPORT.

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Accident/Incident Bulletin, No. 158 Calendar Year
1989, US DOT, FRA Office of Safety, 1990 -12-
Safety