



U.S. Department of
Transportation

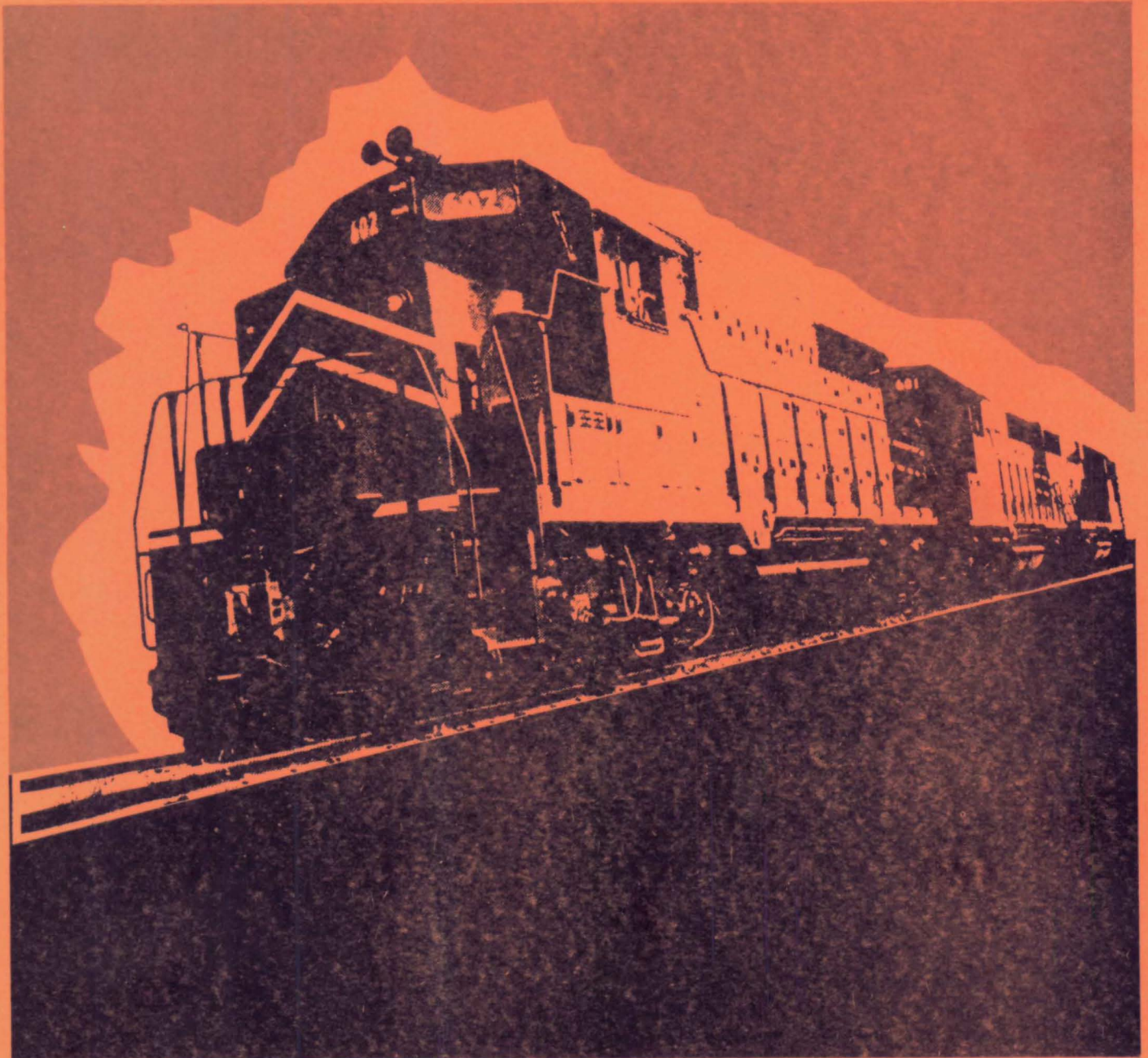
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Office of Safety

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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 155 summarizes reportable accidents/incidents that occurred in the United States during 1987.

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 1987 was \$5,200.

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 on 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 1982 to those over \$4,100; in 1984 to those over \$4,700, and in 1986 to those over \$5,050. 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 1987 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 (25.6% in 1987);
 - ii) the injury caused the employee to be absent from work for at least one day (64.2% in 1987);
 - iii) the injury caused the employee to be restricted in the performance of his work (10.2% in 1987).

An example of the types of injuries reported can be found in this year's bulletin. In 1986, 46% of all injuries were sprains and strains, 17% were bruises and contusions, and 13% were cuts and lacerations. These injuries accounted for 76% of the total. Slightly more than 23% 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 5.6% of the total employee injuries. In 53.7% 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 7.4%, respectively, of all injuries reported in 1987.

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 18,361 employees hurt in 1987 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 64% 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		
		Cases	Number of Days Off	1-5	6-10	11-15	>= 16	Duty	Other
INJURIES ASSOCIATED WITH TRAIN MOVEMENTS								
Bruise/contusion	865	679	264	134	83	198	63	123
Sprain/strain	1,444	1,197	363	241	151	442	102	145
Cut/abrasion	369	193	79	41	10	63	26	150
Puncture wound	20	9	2	---	1	6	3	8
Electric shock/burn	2	2	---	2	---	---	---	---
Other burn	25	20	13	3	2	2	---	5
Dislocation	27	22	2	6	2	12	3	2
Fracture	217	196	17	20	18	141	10	11
Dental related	7	3	1	---	---	2	---	4
Amputation	11	11	---	---	---	11	---	---
Object in eye	379	202	162	21	5	14	20	157
Hernia	4	3	---	---	---	3	---	1
Concussion	27	24	6	7	---	11	1	2
Nervous shock	8	8	2	4	1	1	---	---
Internal injury	10	10	3	1	3	3	---	---
Loss of eye	1	1	---	---	---	1	---	---
Skin reaction	6	4	3	---	1	---	1	1
Unspecified/multiple	144	116	54	22	15	25	3	25
Subtotal	3,566	2,700	971	502	292	935	232	634
INJURIES RESULTING FROM OTHER EVENTS								
Bruise/contusion	2,805	1,845	827	360	170	488	315	645
Sprain/strain	8,624	6,301	2,290	1,257	564	2,190	1,011	1,312
Cut/abrasion	2,461	798	401	163	87	147	206	1,457
Puncture wound	329	131	79	24	8	20	26	172
Electric shock/burn	110	75	41	14	6	14	10	25
Other burn	296	136	75	21	6	34	27	133
Dislocation	124	96	23	16	11	46	17	11
Fracture	1,391	874	143	127	85	519	226	291
Dental related	84	10	5	3	1	1	2	72
Amputation	46	38	2	3	2	31	3	5
Object in eye	844	295	251	23	7	14	49	500
Hernia	139	123	9	6	14	94	4	12
Concussion	28	23	8	---	3	12	1	4
Nervous shock	4	2	2	---	---	---	1	1
Internal injury	29	27	7	3	4	13	---	2
Loss of eye	2	2	---	---	---	2	---	---
Skin reaction	124	43	32	6	1	4	7	74
Unspecified/multiple	662	390	214	63	22	91	67	205
Subtotal	18,102	11,209	4,409	2,089	991	3,720	1,972	4,921
Total....	21,668	13,909	5,380	2,591	1,283	4,655	2,204	5,555

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		
		Cases	1-5	6-10	11-15	>= 16	Duty	Other
INJURIES ASSOCIATED WITH TRAIN MOVEMENTS								
1	5	3	2	---	---	1	---	2
2	17	12	2	5	3	2	1	4
3	212	137	39	28	12	58	24	51
4	118	87	28	21	10	28	8	23
5	187	140	66	41	17	16	4	43
6	3,027	2,321	834	407	250	830	195	511
Total	3,566	2,700	971	502	292	935	232	634
INJURIES RESULTING FROM OTHER EVENTS								
1	47	21	7	6	3	5	3	23
2	1,058	707	343	128	43	193	99	252
3	6,457	3,479	1,339	653	317	1,170	797	2,181
4	5,156	2,835	1,132	516	268	919	733	1,588
5	591	433	203	91	30	109	32	126
6	4,793	3,734	1,385	695	330	1,324	308	751
Total	18,102	11,209	4,409	2,089	991	3,720	1,972	4,921
Final	21,668	13,909	5,380	2,591	1,283	4,655	2,204	5,555

- * 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

EMPLOYEE FATALITIES

There were 55 employee fatalities reported in 1987. Of these, 16 occurred in train accidents, 18 in train incidents, 19 in non-train incidents, and 2 in rail-highway crossing collisions.

Of the 16 fatalities in train accidents, 13 resulted from collisions. Accidents identified as being caused by human factors accounted for 12 of the 16 train accident fatalities.

Five of the 18 employees killed in train incidents were struck by on-track equipment. The remaining 13 fatalities in this category were evenly distributed as to the type of occurrence; refer to Table 66.

Deaths associated with the operation of motor vehicles accounted for 7 of the 19 fatalities in the non-train group. Maintenance of equipment and maintenance of track were responsible for 3 and 4 deaths respectively. One death occurred in connection with a shooting incident; refer to Table 69.

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
1982	801,442	27,359	133,424	412,586	573,369
1983	730,001	27,787	122,234	408,170	558,191
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

NOTE: All figures shown in thousands

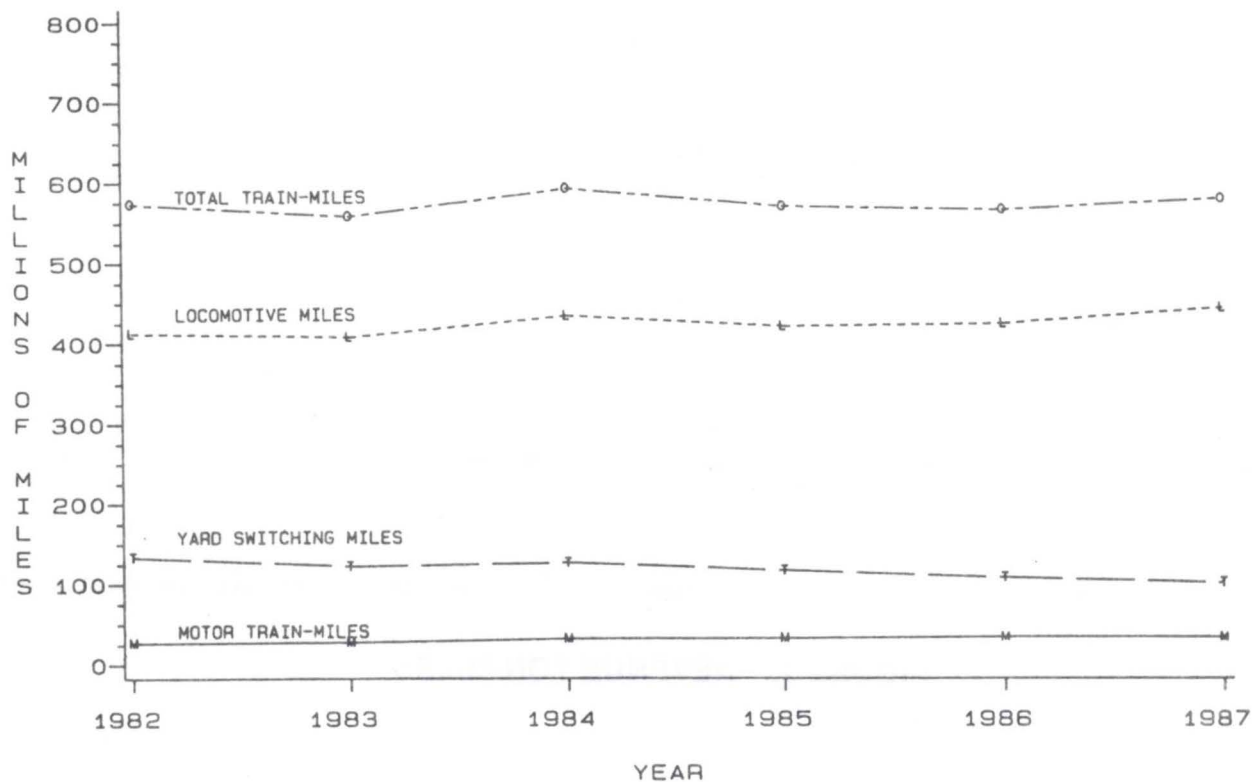
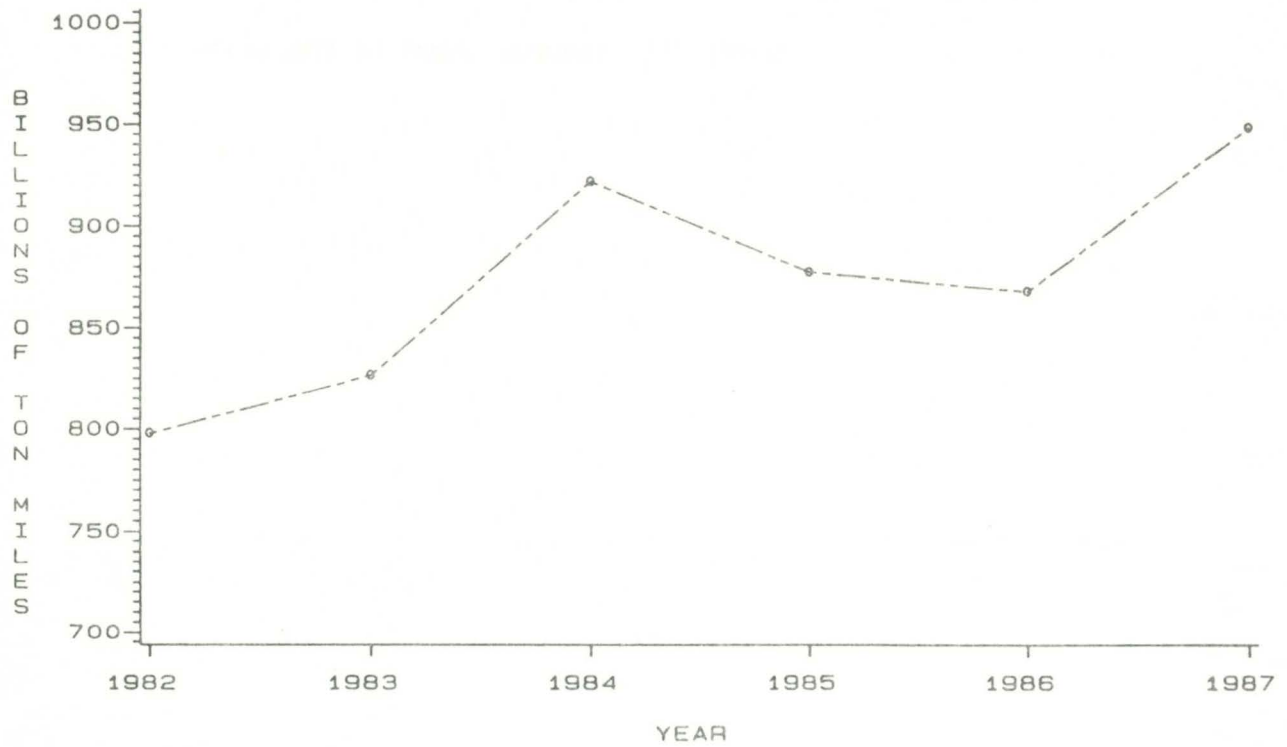


FIGURE 1. RAILROAD TRAIN-MILES

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

1982	797.8
1983	826.2
1984	921.5
1985	877.0
1986	867.7
1987	948.0

1987 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>
1982	1,284	796	1,769	740	4,589
1983	1,101	638	1,581	586	3,906
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

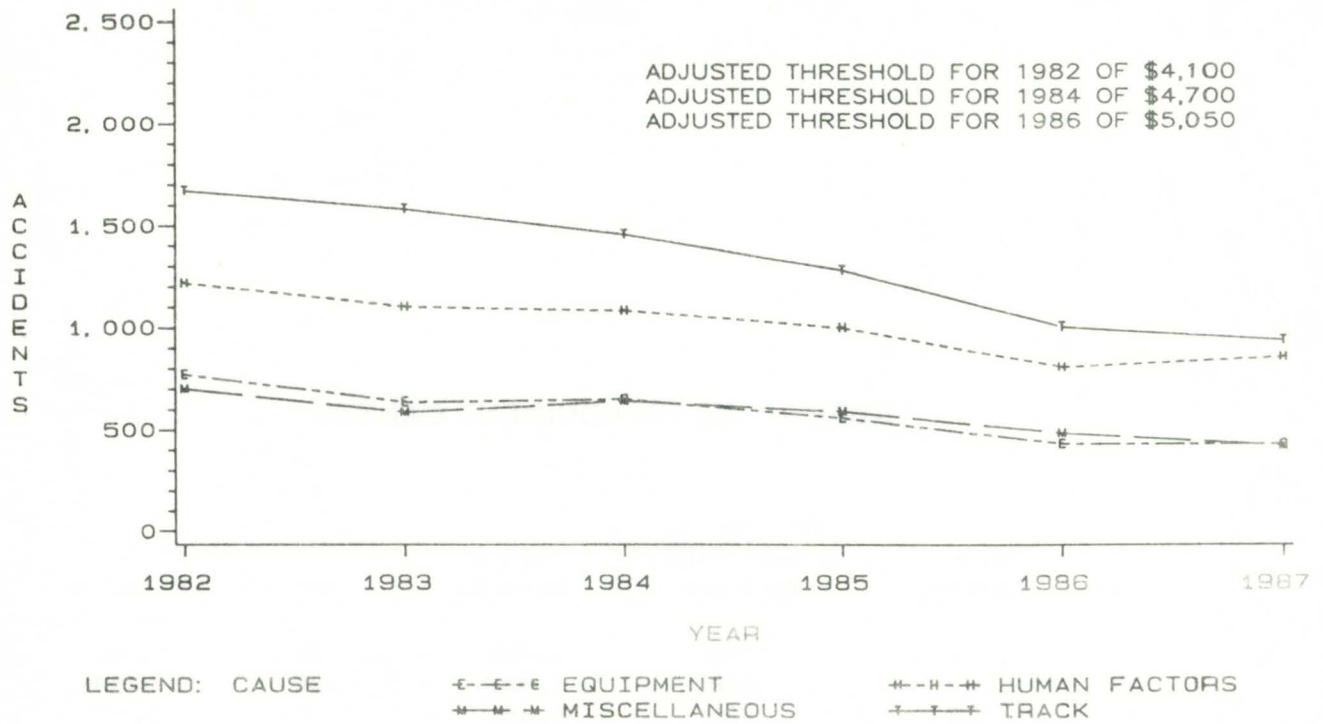


FIGURE 3A. ACCIDENT CAUSES - ADJUSTED

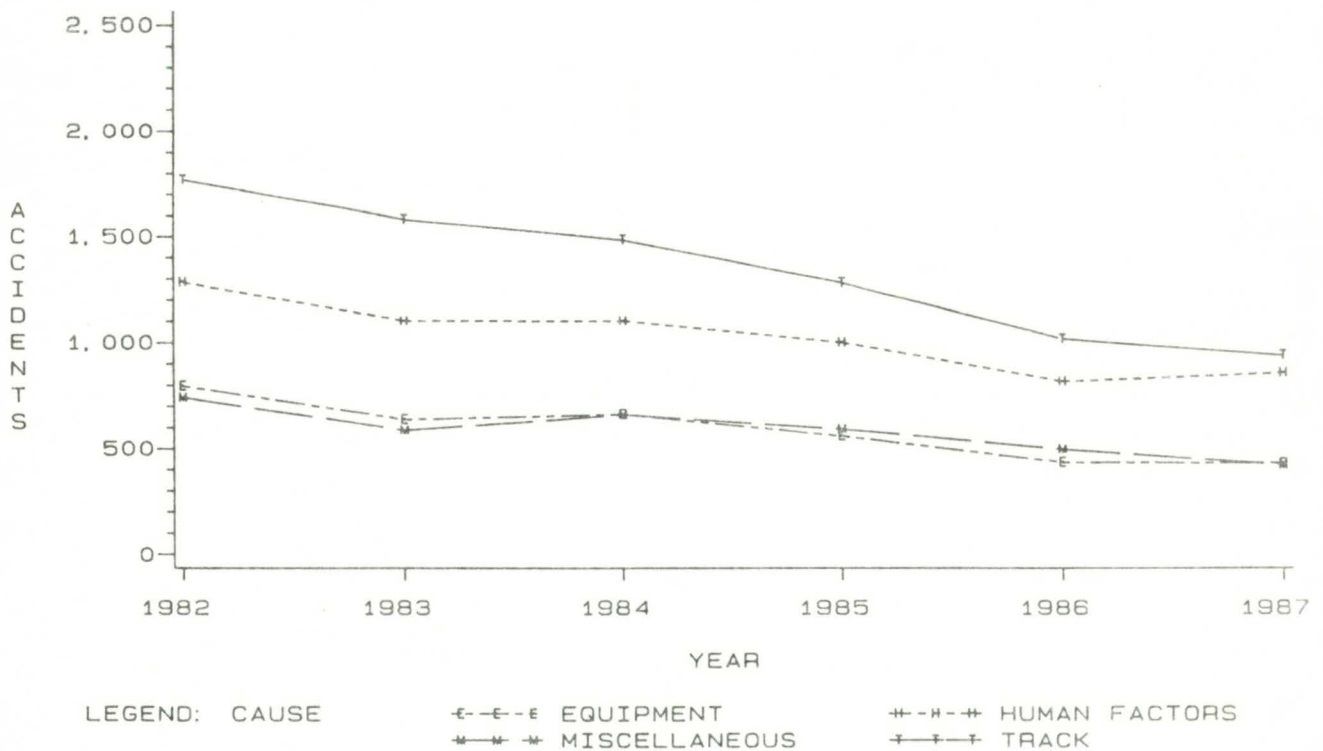


FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED

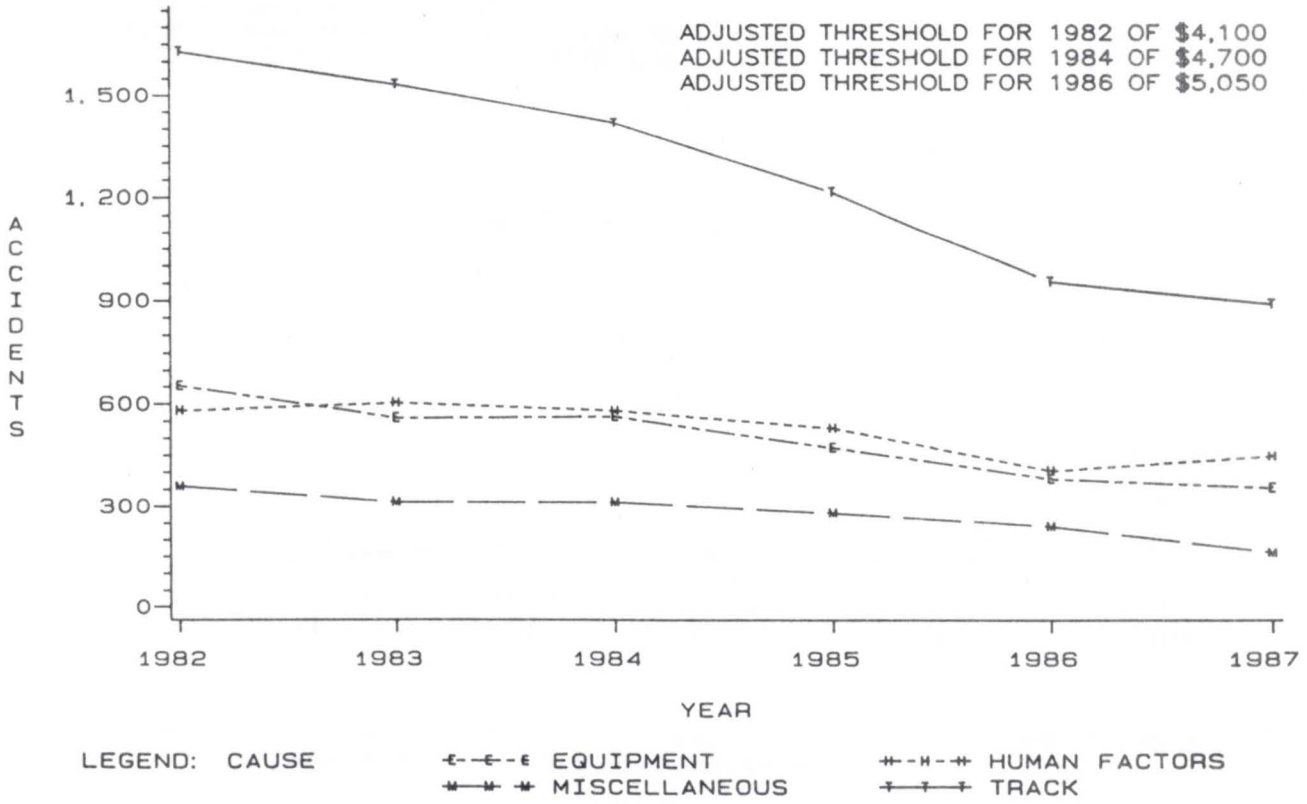


FIGURE 4A. DERAILMENT CAUSES - ADJUSTED



FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED

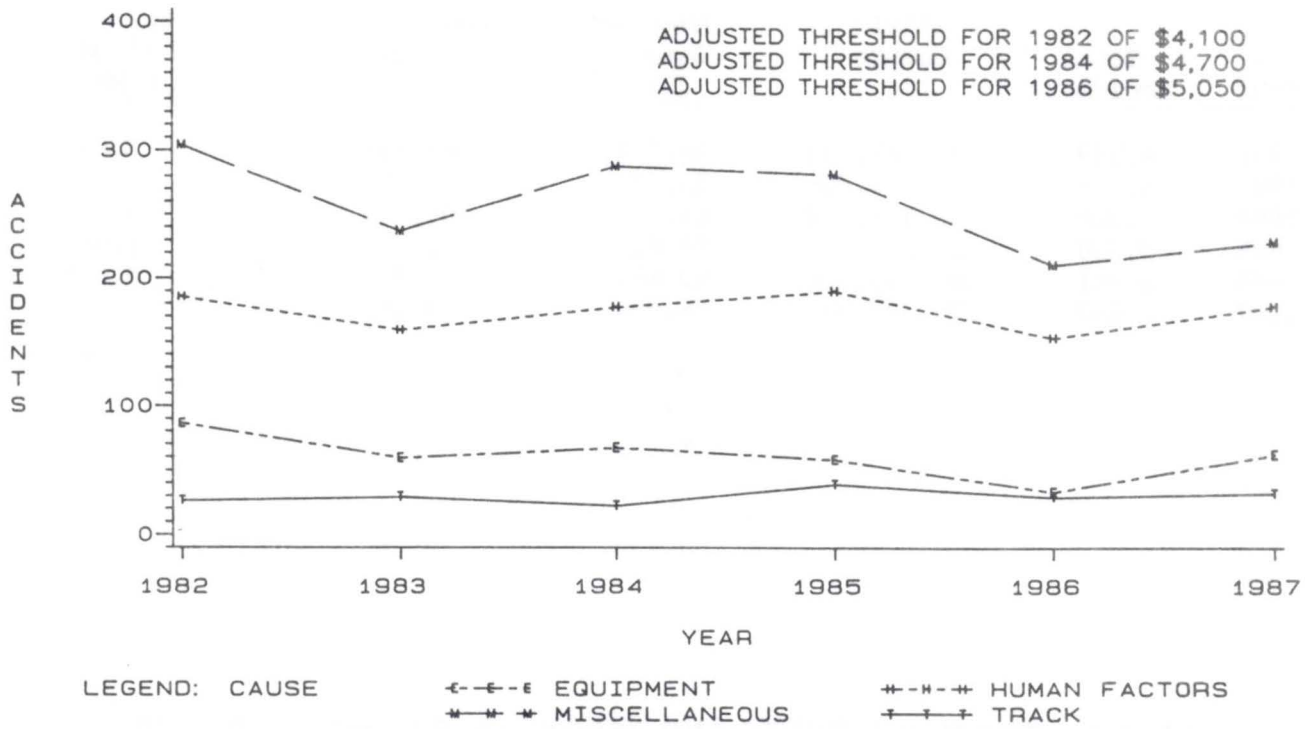


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - ADJUSTED

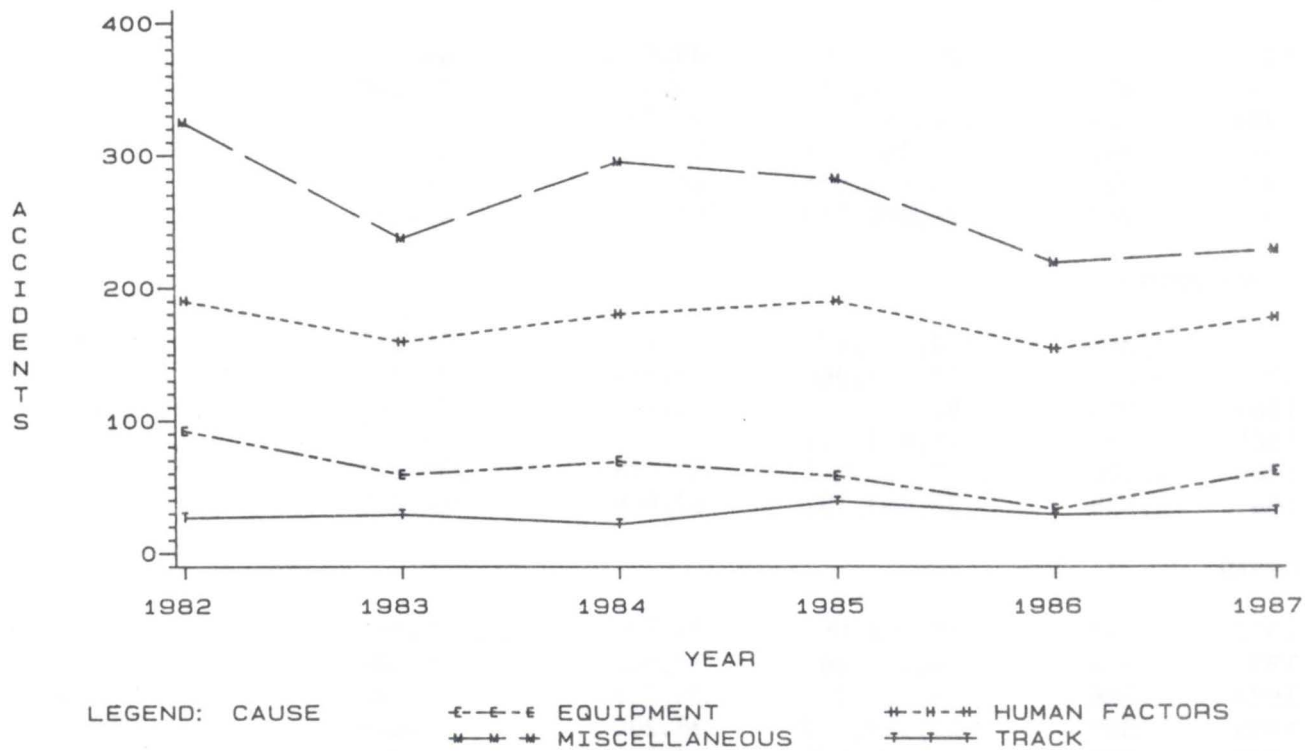


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - UNADJUSTED

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

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/Million Train-Miles
1982	4,589	222,215,592	48,424	387,561	8.00
1983	3,906	208,350,456	53,341	373,261	7.00
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

TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/Million Train-Miles
COLLISIONS					
1982	572	25,730,567	44,984	44,876	1.00
1983	418	27,476,243	65,733	49,224	.75
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
DERAILMENTS					
1982	3,383	174,930,472	51,709	305,093	5.90
1983	3,004	164,659,964	54,814	294,989	5.38
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
OTHER					
1982	634	21,554,553	33,998	37,593	1.11
1983	484	16,214,249	33,501	29,048	.87
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

TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/Million Train-Miles
HUMAN FACTORS					
1982	1,284	41,815,988	32,567	72,930	2.24
1983	1,101	48,359,615	43,923	86,636	1.97
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	62,362	91,830	1.47
EQUIPMENT FAILURES					
1982	796	58,323,219	73,270	101,720	1.39
1983	638	50,293,734	78,830	90,101	1.14
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
TRACK DEFECTS					
1982	1,769	83,108,370	46,980	144,948	3.09
1983	1,581	83,340,024	52,713	149,304	2.83
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
OTHER					
1982	740	38,968,015	52,659	67,963	1.29
1983	586	26,357,083	44,978	47,219	1.05
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

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

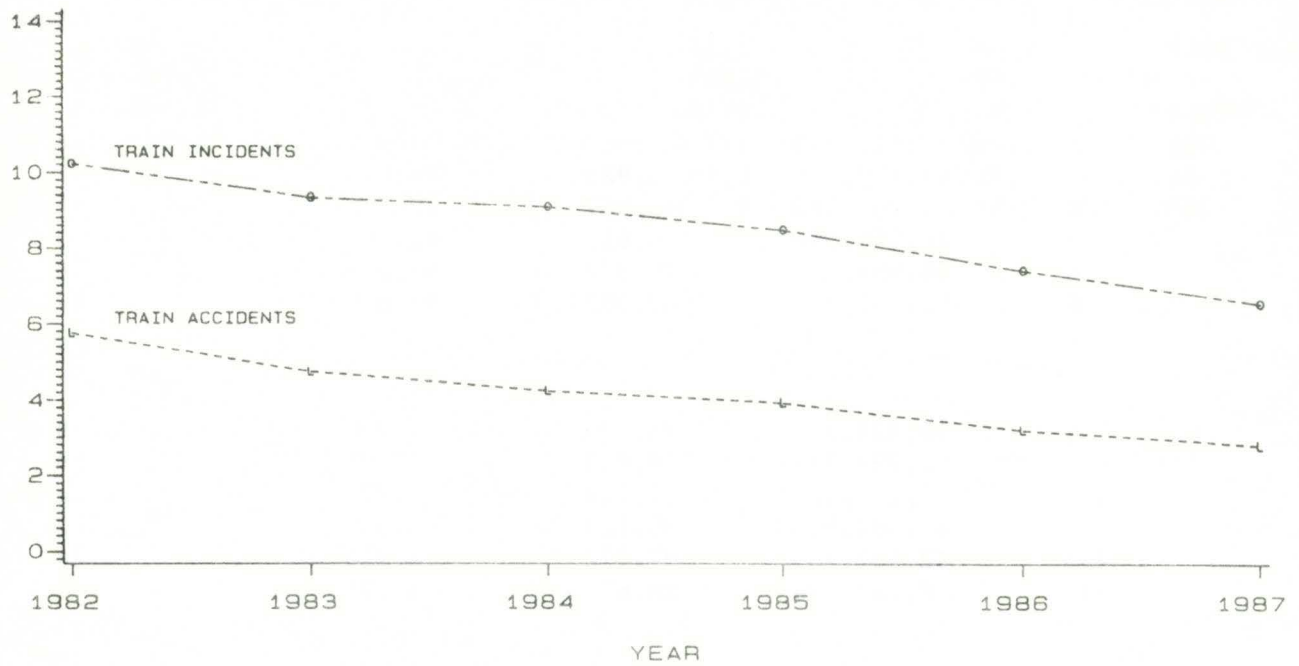


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES



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

TABLE 7. TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1982	4,589	8,147	31,606	44,342
1983	3,906	7,695	26,485	38,086
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

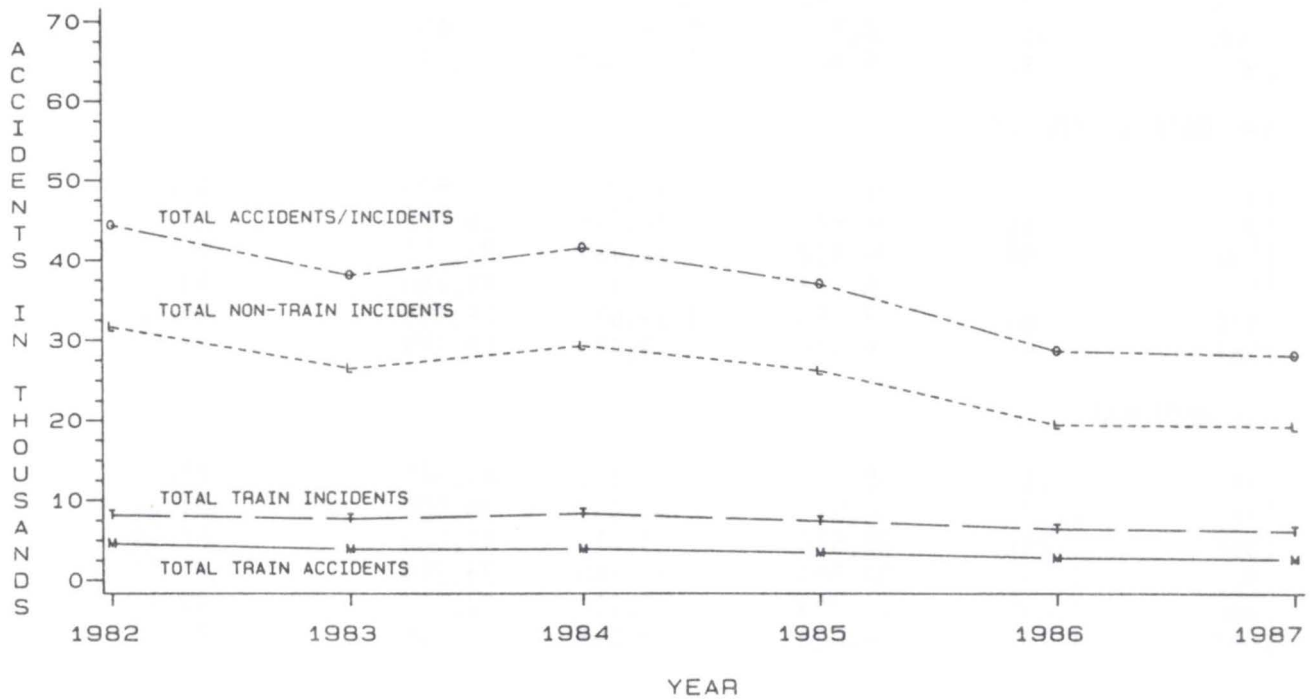


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS

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					
1982	49	472	521	4,589	.91
1983	56	502	558	3,906	1.00
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
TRAIN INCIDENTS					
1982	1,004	8,026	9,030	8,147	15.75
1983	966	7,642	8,608	7,695	15.42
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
NONTRAIN INCIDENTS					
1982	66	31,777	31,843	31,606	55.54
1983	51	26,675	26,726	26,485	47.88
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	19,289	33.51
ALL ACCIDENTS					
1982	1,119	40,275	41,934	44,342	72.19
1983	1,073	34,819	35,892	38,086	64.30
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

TABLE 9. CASUALTIES BY TYPE OF PERSON

Year	Employees On Duty		Employees Not on Duty		Passengers On Trains		Nontrespassers		Trespassers		Contractor Employees		Total	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
1982	78	36,032	2	509	9	387	525	2,595	501	671	4	81	1,119	40,275
1983	61	30,416	3	395	4	502	527	2,728	472	683	6	95	1,073	34,819
1984	59	33,364	5	444	12	1,000	576	2,881	588	773	7	108	1,247	38,570
1985	46	29,822	2	419	3	657	507	2,562	474	734	4	110	1,036	34,304
1986	57	22,387	2	384	4	686	505	2,639	519	706	4	121	1,091	26,923
1987	55	21,982	1	396	16	475	506	2,354	584	673	3	153	1,165	26,033

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

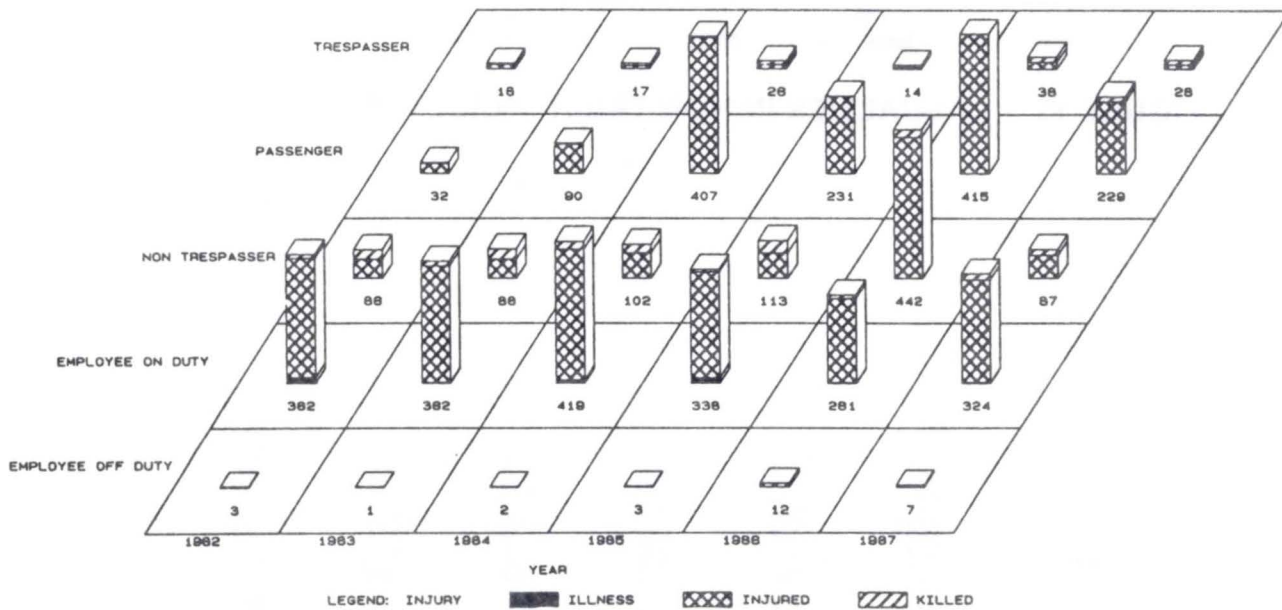


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS

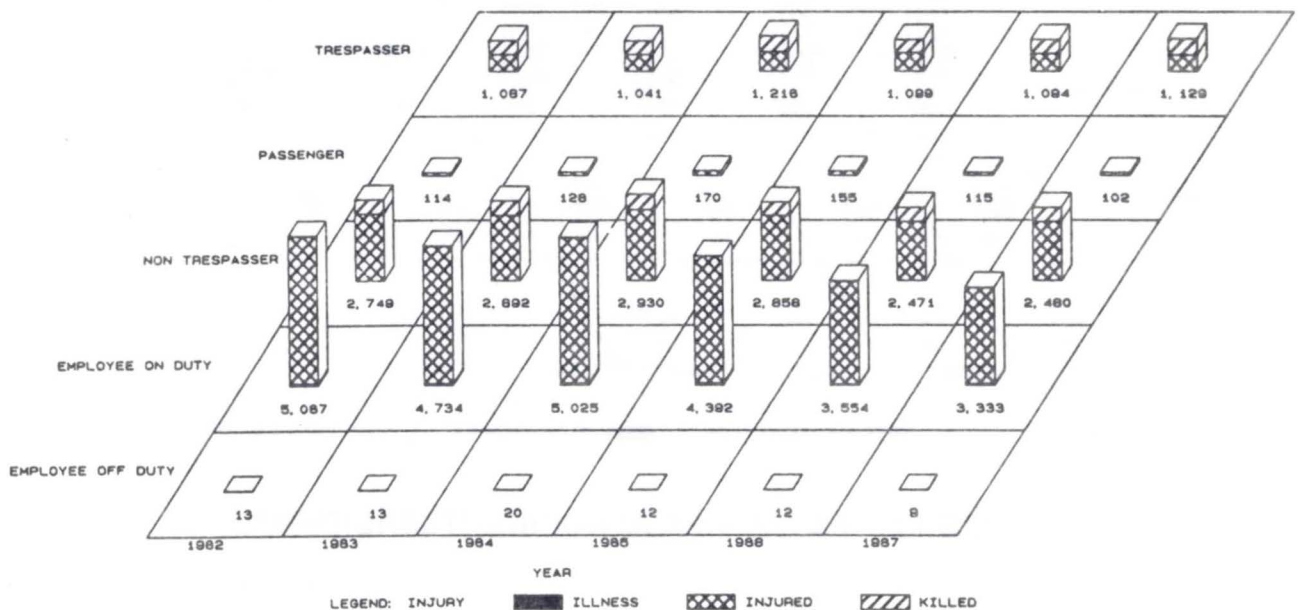


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS

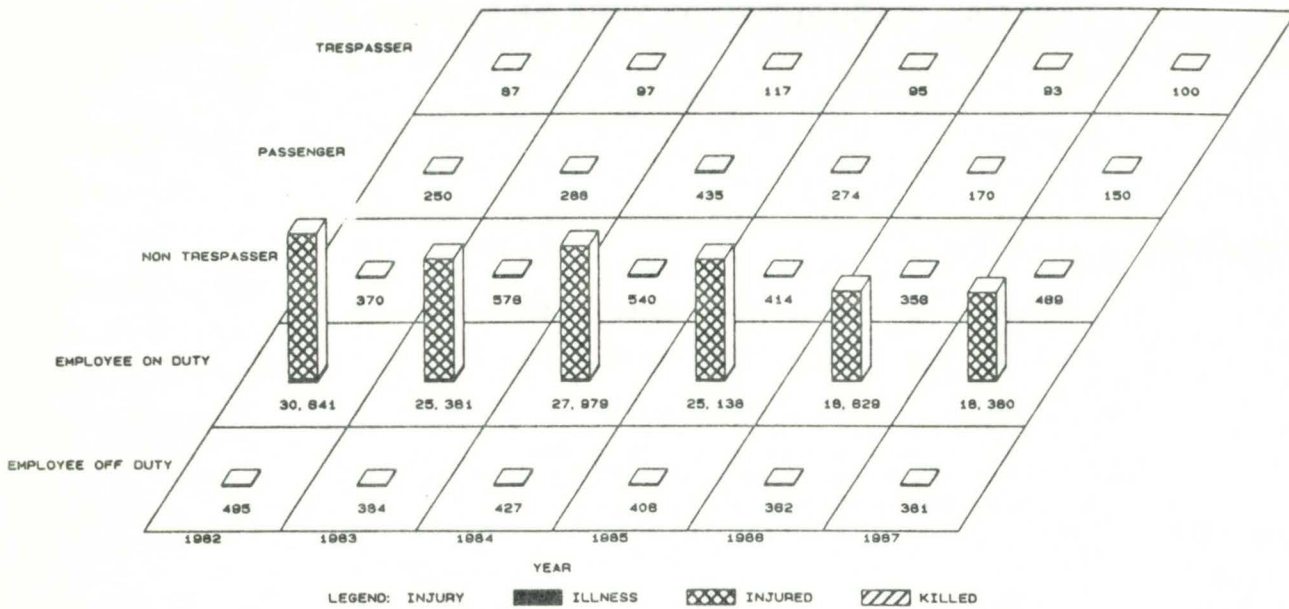


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS

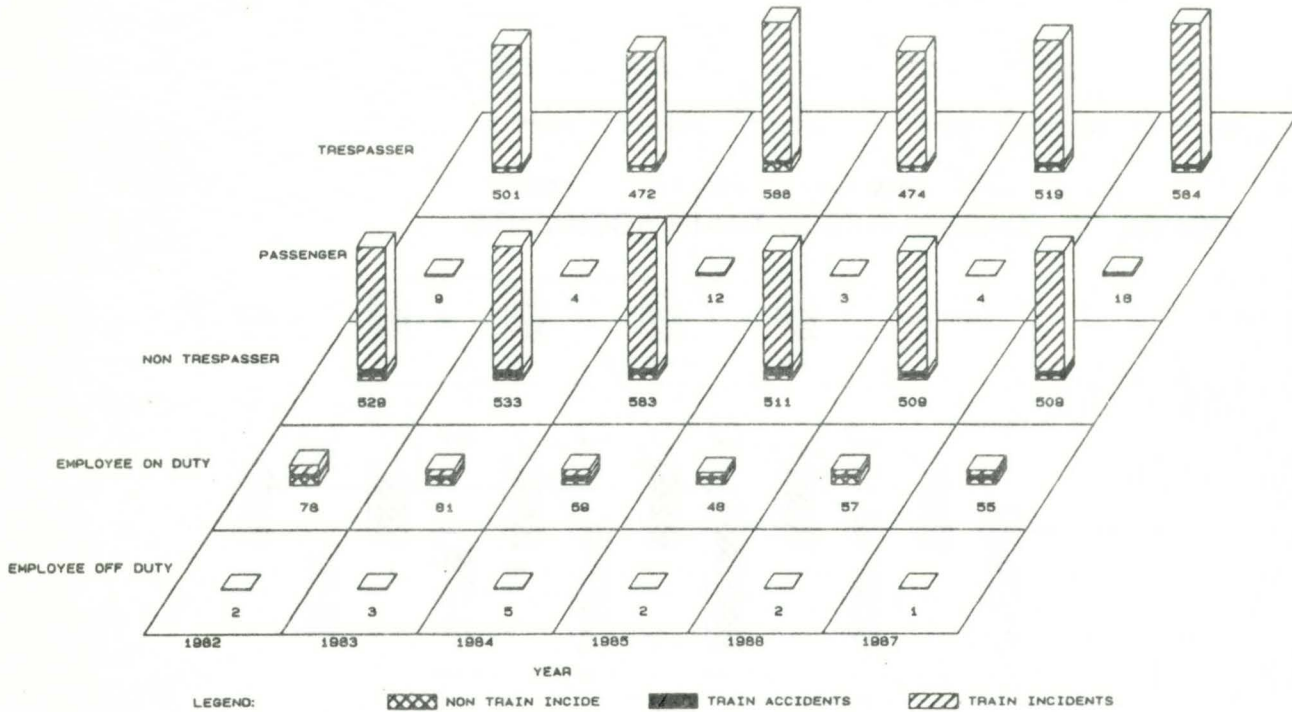


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS

2. OVERVIEW OF 1987 DATA

SPEED FACTOR IN ACCIDENTS

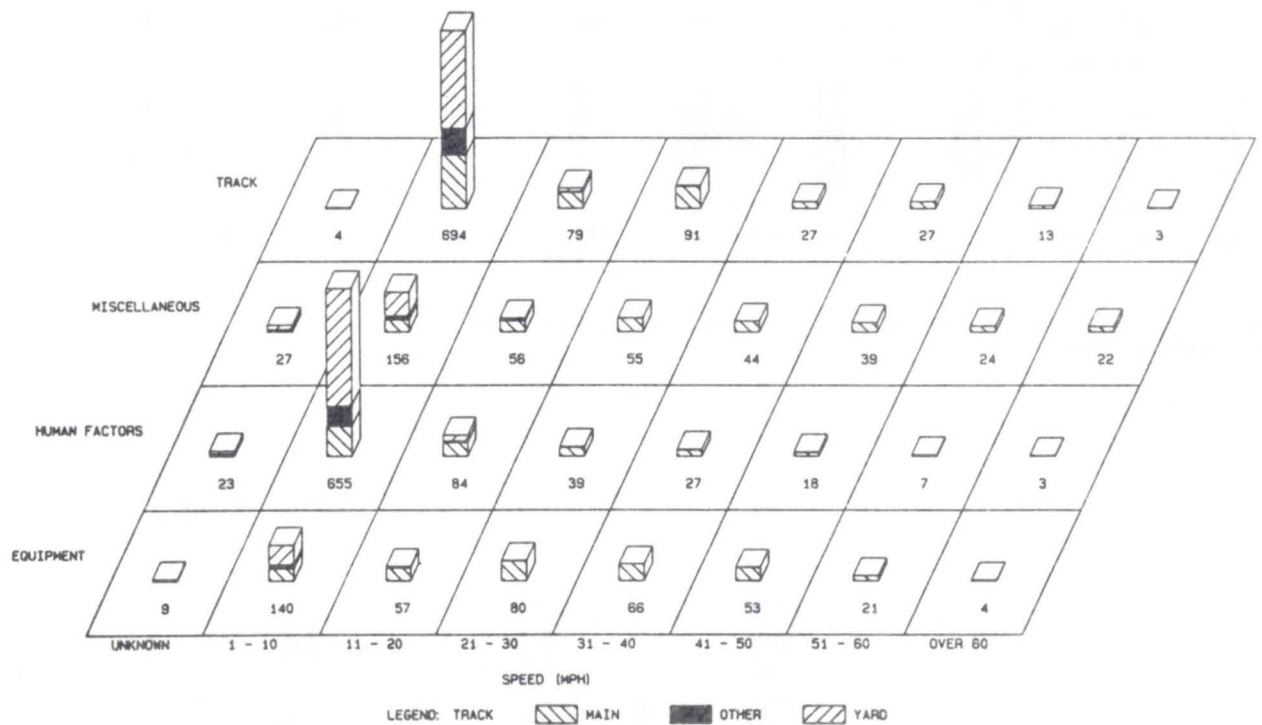


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

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	19	416,962	366,800	50,162	2	4	13	2	4	7	6
1-10	420	15,629,434	12,204,428	3,425,006	31	344	45	210	47	117	46
11-20	209	15,286,706	12,148,775	3,137,931	14	168	27	62	50	54	43
21-30	254	31,624,334	25,876,464	5,747,870	12	203	39	87	78	35	54
31-40	160	22,281,928	17,774,280	4,507,648	7	111	42	26	66	24	44
41-50	133	31,355,910	27,229,222	4,126,688	7	90	36	27	52	16	38
51-60	65	10,726,821	9,283,472	1,443,349	1	36	28	13	21	7	24
61-70	15	1,380,461	1,236,599	143,862	2	3	10	3	3	1	8
71-80	10	1,455,313	1,413,471	41,842	1	---	9	---	1	---	9
81-90	5	220,090	218,109	1,981	---	---	5	---	---	1	4
>91	2	12,671,564	10,956,213	1,715,351	1	---	1	---	---	1	1
TOTAL	1,292	143,049,523	118,707,833	24,341,690	78	959	255	430	322	263	277
ACCIDENTS ON YARD TRACK											
UNKNOWN	33	2,107,992	1,895,549	212,443	3	7	23	2	5	10	16
1-10	1,002	22,892,625	19,030,772	3,861,853	176	658	168	378	75	458	91
11-20	49	1,651,548	1,418,543	233,005	8	26	15	13	4	23	9
21-30	5	127,500	125,750	1,750	1	3	1	---	1	3	1
31-40	2	25,350	23,050	2,300	---	2	---	1	---	1	---
TOTAL	1,091	26,805,015	22,493,664	4,311,351	188	696	207	394	85	495	117
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	11	714,880	590,325	124,555	2	5	4	---	---	6	5
1-10	223	4,852,724	4,122,919	729,805	15	176	32	106	18	80	19
11-20	18	1,090,010	913,825	176,185	2	15	1	4	3	7	4
21-30	6	458,100	260,800	197,300	---	6	---	4	1	1	---
31-40	2	46,200	25,200	21,000	1	1	---	---	---	2	---
41-50	4	168,900	168,900	---	1	1	2	---	1	2	1
TOTAL	264	7,330,814	6,081,969	1,248,845	21	204	39	114	23	98	29
FINAL	2,647	177,185,352	147,283,466	29,901,886	287	1,859	501	938	430	856	423

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

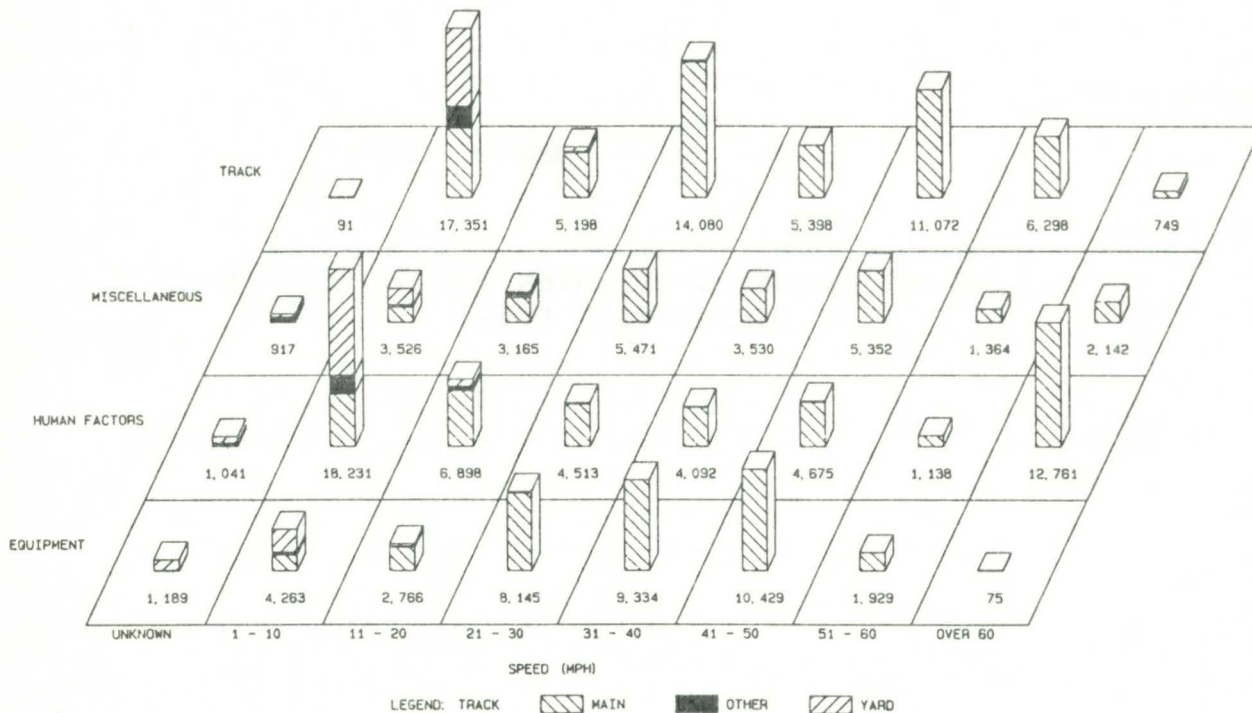


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

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
?	221	7,948,531	6,538,272	1,410,259	22	126	73	69	35	91	26
1	1,128	30,972,325	25,348,405	5,623,920	159	837	132	503	73	449	103
2	452	24,726,832	19,346,159	5,380,673	42	336	74	184	66	128	74
3	434	40,419,852	32,923,439	7,496,413	34	311	89	113	124	100	97
4	363	56,307,999	48,832,698	7,475,301	25	231	107	60	115	79	109
5	36	3,345,624	2,741,755	603,869	4	15	17	6	12	5	13
6	13	13,464,189	11,552,738	1,911,451	1	3	9	3	5	4	1
TOTAL	2,647	177,185,352	147,283,466	29,901,886	287	1,859	501	938	430	856	423

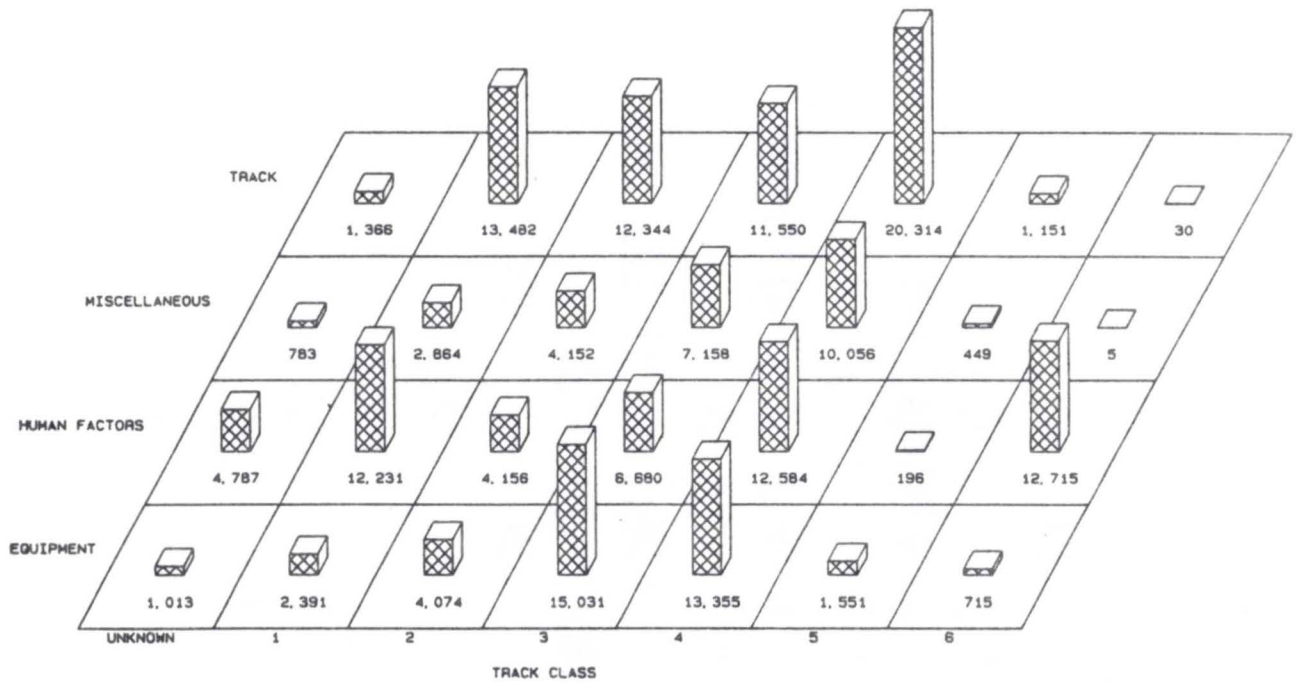


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

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
Derailment	10,415,845	47,579,903	7,963,803	26,064,472	4,809,056	48,212,090	1,988,424	8,649,558	25,177,128	100,506,023
Head on collision	714	87,000	2,250	10,000	58,153	4,545,703	12,000	1,599,295	73,117	6,241,998
Rear end collision	1,200	191,375	---	---	1,762,973	12,758,599	1,150	258,000	1,765,323	13,207,974
Side collision	68,632	458,000	10,000	62,950	500,324	5,145,788	14,177	490,428	593,133	6,157,166
Raking collision	3,500	39,350	5,724	77,395	29,475	338,843	3,932	244,779	42,691	700,367
Broken trn collision	---	9,000	25,200	62,100	---	45,000	30,000	48,700	55,200	164,800
Rail-hwy crossing	---	---	---	---	---	---	896,543	8,891,442	896,543	8,891,442
RR grade crossing	---	---	---	---	---	---	---	---	---	---
Obstruction	20,000	12,200	---	33,000	107,433	218,750	13,590	324,377	141,023	588,327
Explosion-detonation	---	---	7,210	11,690	---	---	---	---	7,210	11,690
Fire/violent rupture	80,000	25,000	1,000	2,366,000	5,100	181,037	115,826	530,122	201,926	3,102,159
Other	122,493	1,048,439	187,310	1,239,090	349,659	4,313,996	289,130	1,109,995	948,592	7,711,520
TOTAL.....	10,712,384	49,450,267	8,202,497	29,926,697	7,622,173	45,759,806	3,364,832	22,146,696	29,901,886	147,283,466

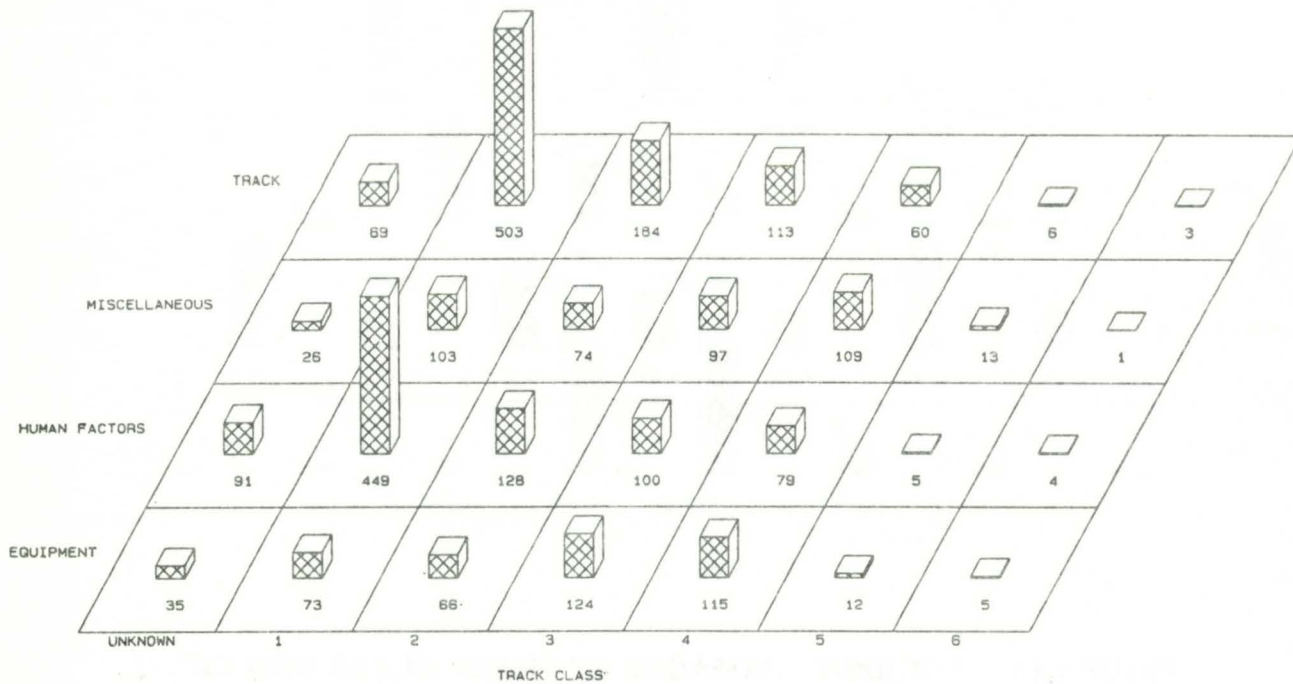


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

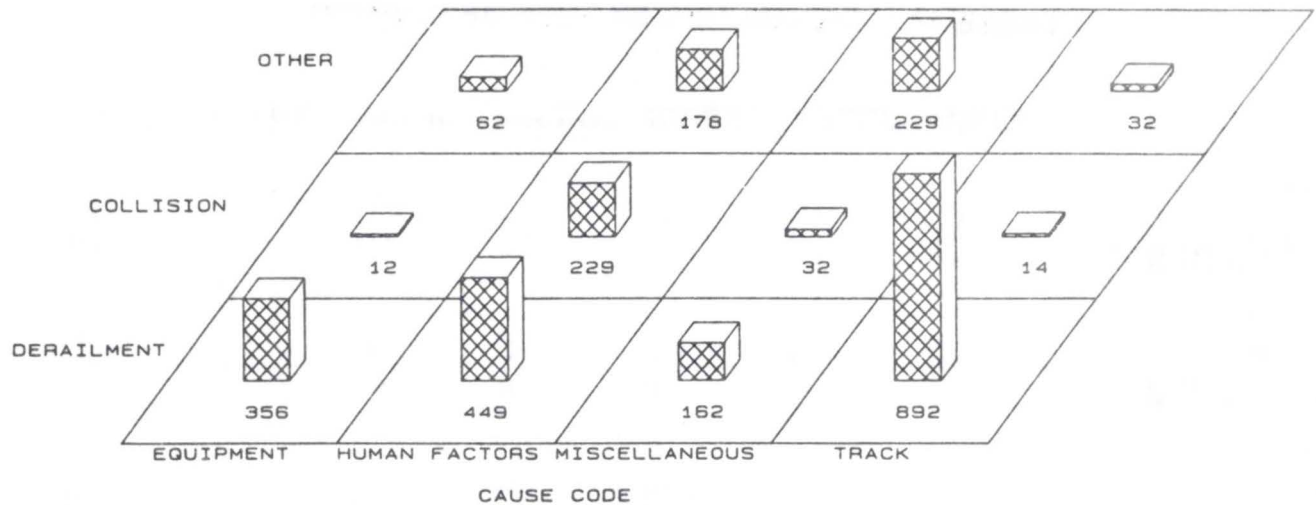


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON

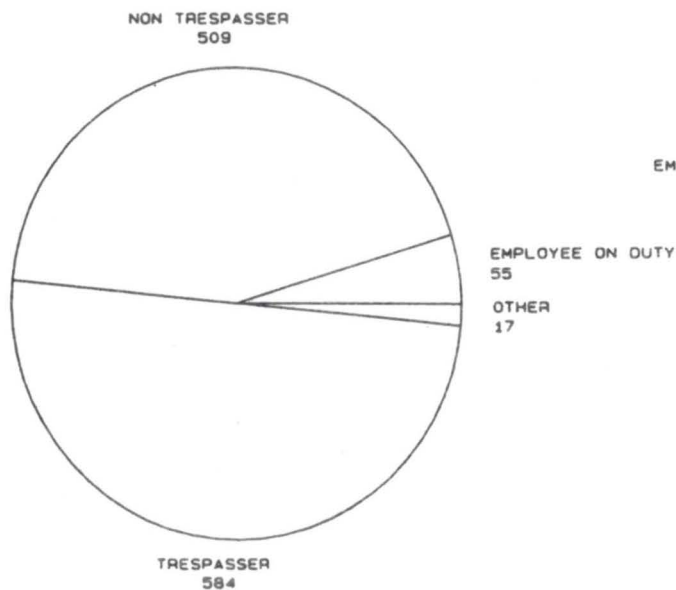


FIGURE 19A. FATALITIES BY TYPE OF PERSON

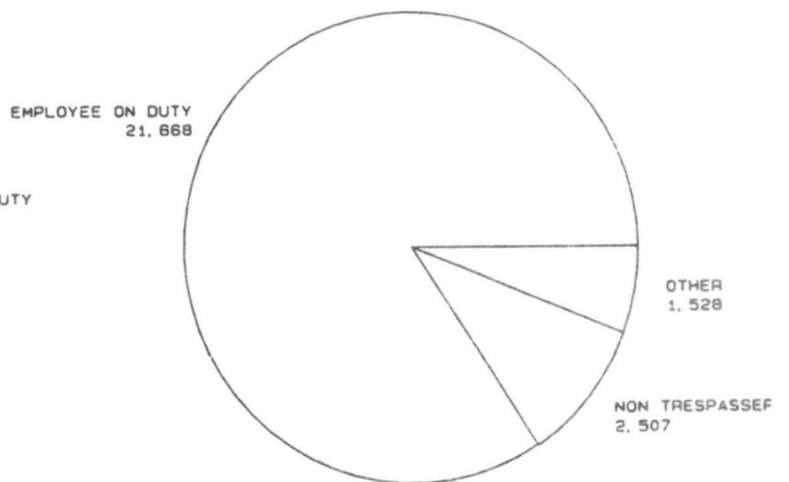


FIGURE 19B. INJURIES BY TYPE OF PERSON

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.....	16	---	15	1	4	---	36
Injuries.....	226	7	210	3	5	---	451
Occupational illnesses...	2	---	---	---	---	---	2
Total casualties.....	244	7	225	4	9	---	489
TRAIN INCIDENTS							
Fatalities.....	18	---	1	10	434	3	466
Injuries.....	3,220	8	111	42	364	8	3,753
Occupational illnesses...	53	---	---	---	---	---	53
Total casualties.....	3,291	8	112	52	798	11	4,272
NONTRAIN INCIDENTS							
Fatalities.....	19	1	---	4	15	---	39
Injuries.....	18,102	374	150	234	77	143	19,080
Occupational illnesses...	259	6	---	---	---	---	265
Total casualties.....	18,380	381	150	238	92	143	19,384
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities.....	2	---	---	491	131	---	624
Injuries.....	120	1	4	2,075	227	2	2,429
Occupational illnesses...	---	---	---	---	---	---	---
Total casualties.....	122	1	4	2,566	358	2	3,053
GRAND TOTAL							
Fatalities.....	55	1	16	506	584	3	1,165
Injuries.....	21,668	390	475	2,354	673	153	25,713
Occupational illnesses...	314	6	---	---	---	---	320
Total casualties.....	22,037	397	491	2,860	1,257	156	27,198

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.....	28	11	2	13	---	15
Deraillments.....	2	---	1	1	---	---
Rail-highway x-ing.....	30	2	---	2	---	17
Miscellaneous.....	6	---	2	2	---	1
Total.....	66	13	5	18	---	18
TRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	1	1	---	1	---	---
Coupling/uncoupling air/steam hose, safety chains.	1	1	---	1	---	---
Operating on or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	3	2	---	2	---	1
Getting on or off cars or locomotives.....	12	2	---	2	---	9
Collisions, derailments, etc. (<= \$5,201).....	16	---	1	1	---	14
Rail-highway crossing accidents/incidents.....	581	---	---	---	---	462
Struck by/ran into loco/car(not at rr-hwy x-ing).	402	3	2	5	---	11
Servicing or maintenance of equipment.....	1	---	1	1	---	---
Maintenance of way and structures.....	2	---	2	2	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	6	1	---	1	---	5
Flying or falling objects, burns, etc., N.O.C....	---	---	---	---	---	---
Operation of on-track work equipment.....	1	---	1	1	---	---
Assault.....	18	---	---	---	---	18
Other occurrences.....	3	1	---	1	---	1
Total.....	1,047	11	7	18	---	475
NONTRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	1	1	---	1	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---
Operating on or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	13	---	---	---	---	12
Struck by/ran into loco/car(not at rr-hwy x-ing).	5	---	---	---	---	5
Servicing or maintenance of equipment.....	3	---	3	3	---	---
Maintenance of way and structures.....	4	---	4	4	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	1	---	---	---	---	1
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	3	---	1	1	---	2
Flying or falling objects, burns, etc., N.O.C....	3	---	1	1	---	2
Operation of on-track work equipment.....	---	---	---	---	---	---
Assault.....	1	1	---	1	---	---
Other occurrences.....	18	---	8	8	---	3
Total.....	52	2	17	19	1	16
Grand total.....	1,165	26	29	55	1	509

TABLE 15. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Injured	... Employees On Duty... Trainmen Other	Duty... Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS							
Collisions.....	287	85	18	103	---	184	---
Derailments.....	124	80	19	99	---	21	2
Rail-highway x-ing.....	156	71	7	78	---	4	66
Miscellaneous.....	42	13	13	26	7	5	1
Total.....	609	249	57	306	7	214	69
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	215	207	7	214	1	---	---
Coupling/uncoupling air/steam hose, safety chains.	38	36	2	38	---	---	---
Operating or on locomotives.....	720	709	9	718	---	---	2
Operating rail motorcars.....	18	5	13	18	---	---	---
Operating hand brakes.....	74	71	3	74	---	---	---
Operating switches or derails.....	22	21	1	22	---	---	---
Contacting fixed objects while on locos or cars..	80	65	10	75	1	1	2
Getting on or off cars or locomotives.....	785	672	20	692	2	40	4
Collisions, derailments, etc. (<= \$5,201).....	96	67	14	81	---	---	4
Rail-highway crossing accidents/incidents.....	2,190	37	5	42	1	---	1,935
Struck by/ran into loco/car(not at rr-hwy x-ing).	341	23	9	32	1	---	26
Servicing or maintenance of equipment.....	87	3	83	86	---	---	1
Maintenance of way and structures.....	84	1	82	83	---	---	1
Freight, baggage, express or mail.....	23	9	11	20	---	1	---
Windows, doors, etc., on on-track equipment.....	83	50	23	73	---	8	1
Passenger car doors.....	6	2	2	4	---	2	---
Stumbling, slipping, falling, caught, N.O.C.....	220	106	70	176	---	32	3
Flying or falling objects, burns, etc., N.O.C....	255	222	21	243	---	9	1
Operation of on-track work equipment.....	65	12	53	65	---	---	---
Assault.....	88	78	7	85	1	2	---
Other occurrences.....	506	432	42	474	2	16	5
Total.....	5,996	2,828	487	3,315	9	111	1,985
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	535	505	29	534	1	---	---
Coupling/uncoupling air/steam hose, safety chains.	260	221	39	260	---	---	---
Operating or on locomotives.....	514	456	56	512	2	---	---
Operating rail motorcars.....	31	4	27	31	---	---	---
Operating hand brakes.....	328	307	21	328	---	---	---
Operating switches or derails.....	994	901	92	993	1	---	---
Contacting fixed objects while on locos or cars..	23	13	10	23	---	---	---
Getting on or off cars or locomotives.....	1,047	721	212	933	11	85	13
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	83	---	---	---	---	---	76
Struck by/ran into loco/car(not at rr-hwy x-ing).	29	2	9	11	1	---	1
Servicing or maintenance of equipment.....	4,517	57	4,423	4,480	33	---	4
Maintenance of way and structures.....	5,935	28	5,811	5,839	57	---	39
Freight, baggage, express or mail.....	107	17	88	105	---	---	1
Windows, doors, etc., on on-track equipment.....	368	172	181	353	6	4	5
Passenger car doors.....	7	2	1	3	1	3	---
Stumbling, slipping, falling, caught, N.O.C.....	1,848	711	759	1,470	142	45	177
Flying or falling objects, burns, etc., N.O.C....	468	270	145	415	12	2	30
Operation of on-track work equipment.....	87	2	83	85	---	---	2
Assault.....	188	45	127	172	6	1	6
Other occurrences.....	2,059	420	1,394	1,814	107	10	99
Total.....	19,428	4,854	13,507	18,361	380	150	453
Grand total.....	26,033	7,931	14,051	21,982	396	475	2,507

TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

Type Of Accident/Incident	.....Accidents/Incidents.....		
	Total	Fatal	Nonfatal
TRAIN ACCIDENTS *			
Collisions.....	287	9	35
Deraillments.....	1,859	2	57
Rail-highway crossing.....	135	27	63
Miscellaneous.....	366	6	21
Total.....	2,647	44	176
TRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	215	1	214
Coupling/uncoupling air/steam hose, safety chains.....	39	1	38
Operating or on locomotives.....	708	---	708
Operating rail motorcars.....	17	---	17
Operating hand brakes.....	73	---	73
Operating switches or derails.....	22	---	22
Contacting fixed objects while on locos or cars..	80	3	77
Getting on or off cars or locomotives.....	793	12	781
Collisions, derailments, etc. (<= \$5,201).....	101	16	85
Rail-highway crossing accidents/incidents.....	2,043	469	1,574
Struck by/ran into loco/car(not at rr-hwy x-ing).	704	385	319
Servicing or maintenance of equipment.....	87	1	86
Maintenance of way and structures.....	82	2	80
Freight, baggage, express or mail.....	22	---	22
Windows, doors, etc., on on-track equipment.....	83	---	83
Passenger car doors.....	6	---	6
Stumbling, slipping, falling, caught, N.O.C.....	217	5	212
Flying or falling objects, burns, etc., N.O.C....	245	---	245
Operation of on-track work equipment.....	60	1	59
Assault.....	89	1	88
Other occurrences.....	493	3	490
Total.....	6,179	900	5,279
NONTRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	534	1	533
Coupling/uncoupling air/steam hose, safety chains.....	260	---	260
Operating or on locomotives.....	508	---	508
Operating rail motorcars.....	31	---	31
Operating hand brakes.....	327	---	327
Operating switches or derails.....	993	---	993
Contacting fixed objects while on locos or cars..	23	---	23
Getting on or off cars or locomotives.....	1,044	---	1,044
Collisions, derailments, etc. (<= \$5,201).....	---	---	---
Rail-highway crossing accidents/incidents.....	69	9	60
Struck by/ran into loco/car(not at rr-hwy x-ing).	33	5	28
Servicing or maintenance of equipment.....	4,505	3	4,502
Maintenance of way and structures.....	5,916	4	5,912
Freight, baggage, express or mail.....	107	---	107
Windows, doors, etc., on on-track equipment.....	368	1	367
Passenger car doors.....	7	---	7
Stumbling, slipping, falling, caught, N.O.C.....	1,846	3	1,843
Flying or falling objects, burns, etc., N.O.C....	455	3	452
Operation of on-track work equipment.....	86	---	86
Assault.....	184	1	183
Other occurrences.....	1,993	17	1,976
Total.....	19,289	47	19,242
Grand total.....	28,115	991	24,697

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."

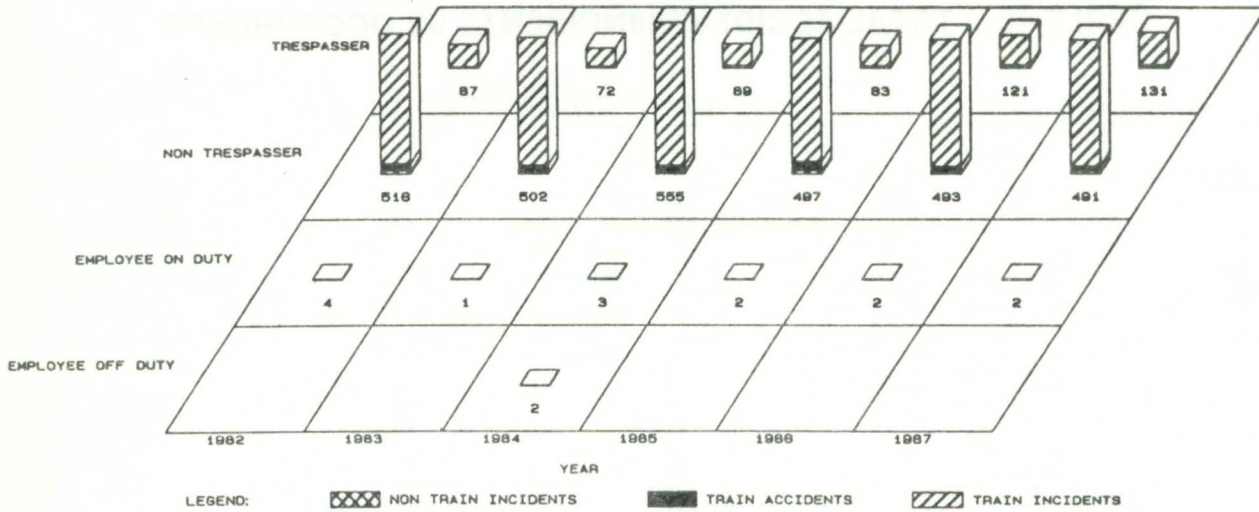


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON

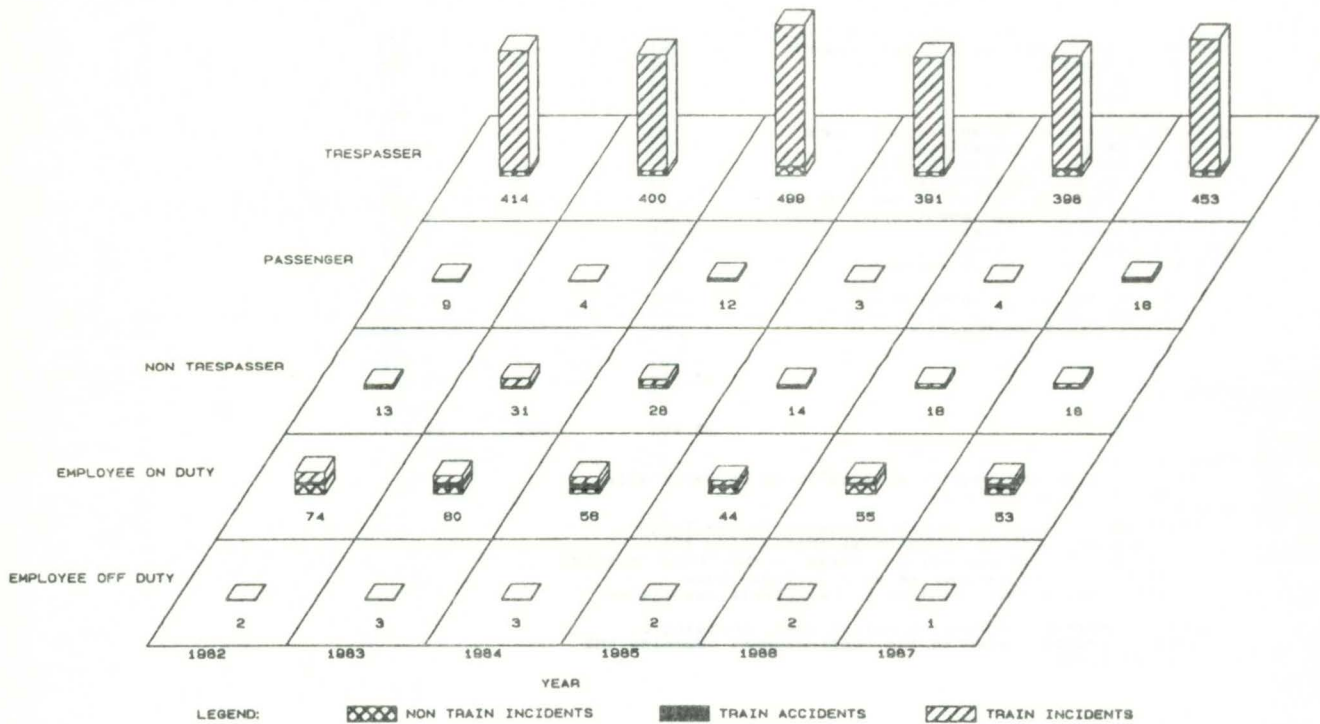


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS

TABLE 17. TRAIN ACCIDENTS BY MONTH

Month	Accs		Total Damage	Damage Per MTM	Train Miles			
	Accs Per MTM				Locomotive	Motor	Yard Switching	Total
January	233	5.06	23,614,109	\$512,392.25	34,944,737	2,635,069	8,506,274	46,086,080
February	192	4.29	11,639,657	\$260,278.56	33,790,457	2,717,778	8,212,193	44,720,428
March	232	4.79	12,149,008	\$250,732.82	36,746,395	2,856,569	8,851,305	48,454,269
April	219	4.61	12,636,162	\$265,850.96	35,726,580	2,867,844	8,936,296	47,530,720
May	196	4.03	14,726,818	\$302,641.09	37,708,634	2,751,561	8,201,216	48,661,411
June	247	5.08	20,967,115	\$431,359.99	37,349,106	2,674,868	8,583,152	48,607,126
July	241	4.92	15,748,693	\$321,238.00	37,744,872	2,677,758	8,602,692	49,025,322
August	224	4.53	10,847,696	\$219,216.23	38,317,642	2,748,267	8,418,159	49,484,068
September	202	4.20	11,498,352	\$239,130.52	36,982,996	2,693,846	8,407,300	48,084,142
October	189	3.57	14,704,096	\$277,834.18	40,742,694	3,169,262	9,011,639	52,923,595
November	220	4.50	13,810,714	\$282,271.83	37,739,145	3,106,803	8,081,275	48,927,223
December	252	5.16	14,842,932	\$304,102.36	37,488,898	3,176,981	8,143,292	48,809,171
Total...	2,647	4.55	177,185,352	\$304,801.45	445,282,156	34,076,606	101,954,793	581,313,555

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
Derailement.....	180	140	172	148	135	173	162	153	142	135	136	183	1,859
Head on collision.....	2	3	2	5	3	3	3	1	---	---	3	3	28
Rear end collision.....	3	1	2	4	3	2	3	2	3	2	3	---	28
Side collision.....	13	14	15	13	17	24	24	11	14	8	16	21	190
Raking collision.....	1	7	2	3	4	---	4	3	2	1	3	5	35
Broken train collision..	1	---	---	1	1	1	1	---	---	---	---	1	6
Rail-hwy crossing.....	9	8	12	11	11	11	12	13	6	14	15	13	135
RR grade crossing.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Obstruction.....	1	2	2	4	2	3	4	4	1	5	3	2	33
Explosion-detonation....	1	---	1	---	---	---	---	---	---	---	---	---	2
Fire or violent rupture..	2	5	1	2	1	5	3	3	---	2	9	3	36
Other.....	20	12	23	28	19	25	25	34	34	22	31	22	295
Total.....	233	192	232	219	196	247	241	224	202	189	219	253	2,647

3. ACCIDENTS: DETAILS OF 1987 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.....	50	5,464,546	1	48	1	---
Track geometry defects.....	434	26,345,598	3	429	2	---
Rail and joint bar defects.....	227	20,298,032	2	221	4	---
Frogs, switches and track appliances.....	212	7,033,861	5	191	16	---
Other way and structure.....	9	685,000	---	2	7	---
Signal and communication failures.....	6	335,614	3	1	2	---
Subtotal.....	938	60,162,651	14	892	32	---
MECHANICAL AND ELECTRICAL FAILURES						
MLOCOMOTIVE FAILUREX						
Brakes.....	1	92,500	---	1	---	---
Body.....	1	308,500	---	1	---	---
Coupler and draft system.....	1	467,450	---	1	---	---
Truck components.....	1	10,000	---	1	---	---
Axles and journal bearings.....	3	35,326	---	3	---	---
Wheels.....	5	200,337	---	5	---	---
Locomotives.....	18	3,542,412	---	5	13	---
Doors.....	---	---	---	---	---	---
General mechanical and electrical failures.....	10	145,587	---	1	9	---
Subtotal (Locomotives).....	40	4,802,112	---	18	22	---
M CAR FAILUREX						
Brakes.....	51	4,408,230	2	43	6	---
Trailer or container on flat car.....	5	128,031	---	---	5	---
Body.....	41	2,941,578	---	37	4	---
Coupler and draft system.....	51	3,457,563	4	42	5	---
Truck components.....	69	5,662,855	3	65	1	---
Axles and journal bearings.....	85	10,055,515	---	83	2	---
Wheels.....	68	6,163,145	2	63	3	---
Doors.....	5	63,640	1	4	---	---
General mechanical and electrical failures.....	15	446,525	---	1	14	---
Subtotal (cars).....	390	33,327,082	12	338	40	---
TOTAL EQUIPMENT FAILURES....	430	38,129,194	12	356	62	---
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of.....	148	6,556,273	49	67	32	---
Employee physical condition.....	1	9,200	1	---	---	---
Flagging, fixed, hand and radio signals.....	37	17,187,970	19	9	9	---
Other rules and instructions.....	225	9,365,038	109	55	61	---
Speed.....	68	4,161,330	18	29	21	---
Switches, use of.....	108	5,400,084	17	74	17	---
Miscellaneous.....	269	10,702,084	16	215	38	---
Subtotal.....	856	53,381,979	229	449	178	---
MISCELLANEOUS FACTORS						
Collision with highway user at crossing site.....	134	9,780,485	---	---	---	134
Emergency brake application to avoid accident.....	6	269,119	---	6	---	---
Vandalism.....	44	2,214,279	7	23	14	---
Interference with rr operation, not vandals.....	17	2,117,596	3	9	5	---
Load shifted.....	14	902,299	---	12	2	---
Load fell from car.....	7	322,792	1	3	3	---
Overloaded car.....	1	7,100	---	1	---	---
Improperly loaded car.....	10	401,845	---	10	---	---
Oversized load, misrouted.....	2	23,500	1	---	1	---
Object on or fouling track.....	17	790,506	---	8	9	---
Equipment on or fouling track.....	2	24,500	1	---	---	1
Trail/container tiedown eqp impr applied.....	2	54,500	---	---	2	---
Overload/improper loaded container etc.....	---	---	---	---	---	---
Interaction of lateral/vertical forces.....	53	3,246,979	---	53	---	---
Failure to control car spd with hand brk.....	2	43,500	1	---	1	---
Snow, ice, or mud on track.....	4	27,699	---	3	---	---
Other acts of God.....	11	1,451,363	2	8	1	---
Fire, not due to vandalism.....	18	574,383	---	2	16	---
Hump retarder failed to slow car.....	46	813,642	8	8	30	---
Switch fouled by lading chains, etc.....	2	16,175	---	2	---	---
Other causes.....	31	2,429,266	7	14	10	---
Subtotal.....	423	25,511,528	32	162	94	133
GRAND TOTAL.....	2,647	177,185,352	287	1,859	366	139

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

Cause Of Accident	Accidents	Total Damage	Collisions	Derailments	Other
BRAKES, USE OF					
500 Automatic brake, improper use	12	1,423,410	1	10	1
501 Dynamic brake, improper use	7	638,762	---	7	---
502 Failure to secure engine (R.R. emp.)	8	1,311,987	5	2	1
503 Failure to secure hnd brk (R.R. emp)	39	693,700	12	11	16
504 Failure to apply sufficient hand brake	42	1,001,377	18	11	13
505 Failure to apply hnd brk on car (emp.)	12	266,133	8	3	1
506 Fail. to secure eng/car (Non R.R. emp)	1	7,350	1	---	---
507 Independent (eng.) brake, improper use	13	170,283	---	13	---
508 Fail. to control spd,hnd brk (R.R.emp)	2	40,600	2	---	---
509 Other causes involving use of brakes	12	1,002,671	2	10	---
SUBTOTAL.....	148	6,556,273	49	67	32
EMPLOYEE PHYSICAL CONDITION					
510 Impairment due to alcohol or drugs	1	9,200	1	---	---
SUBTOTAL.....	1	9,200	1	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS					
52A Block signal, failure to comply	3	1,630,318	2	1	---
52B Interlocking signal, failure to comply	2	454,140	2	---	---
520 Fixed signal, failure to comply	10	13,658,326	7	3	---
521 Flagging, improper or failure to flag	3	973,804	2	---	1
523 Hand signal, failure to comply	1	10,000	---	---	1
525 Hand signal, failure to give/receive	1	9,128	---	1	---
526 Radio communication, failure to comply	2	25,659	---	---	2
527 Radio communication, improper	4	36,873	1	1	2
528 Radio comm., failure to give/receive	10	256,522	4	3	3
529 Flagging, fixed, hand & radio (other)	1	133,200	1	---	---
SUBTOTAL.....	37	17,187,970	19	9	9
OTHER RULES AND INSTRUCTIONS					
530 Car(s) shoved out & left out of clear	12	214,438	6	1	5
531 Cars left foul	19	232,026	10	3	6
532 Derail, failure to apply or remove	9	196,999	---	9	---
533 Failure to stop train in clear	27	882,056	19	2	6
535 Instruction to trn/yard crew improper	9	311,020	6	---	3
536 Mtr car/on-trk eqp rules,fail to cmpl	11	261,321	3	1	7
537 Equip move without authority (RR emp)	4	460,620	4	---	---
538 Shoving move, missing man at lead	77	3,954,845	35	21	21
539 Shoving movement, fail to control	23	409,320	10	8	5
540 Skate, failure to remove or place	3	44,351	---	2	1
541 Special op. instr., failure to comply	6	382,125	2	2	2
542 Trn ord/timetable auth, fail to comply	4	149,580	3	---	1
544 Trn ord(written)err in preparation,etc	2	258,750	2	---	---
549 Rules and instructions, other	19	1,607,587	9	6	4
SUBTOTAL.....	225	9,365,038	109	55	61

TABLE 20. (CONTINUED)

Cause Of Accident	-----Total-----					
	Accidents	Damage	Collisions	Derailments	Other	
SPEED						
550	Coupling speed excessive	27	483,796	6	8	13
553	Switch movement, excessive speed	10	224,198	3	2	5
554	Trn inside yrd limit, excess speed	14	2,037,860	6	7	1
555	Trn out yrd limit,clear blk,excess spd	7	417,589	---	7	---
559	Other Causes involving excessive speed	10	997,887	3	5	2
	SUBTOTAL.....	68	4,161,330	18	29	21
SWITCHES, USE OF						
560	Spring switch not clear before reverse	3	31,944	---	3	---
561	Switch improperly lined	66	4,393,483	16	37	13
562	Switch not latched or locked	11	314,586	---	9	2
563	Switch previously run through	14	314,356	---	14	---
569	Use of switches, other	14	345,715	1	11	2
	SUBTOTAL.....	108	5,400,084	17	74	17
MISCELLANEOUS						
570	Buffing or slack action excessive	141	7,867,770	2	134	5
571	Failure to couple	11	233,971	4	2	5
572	Lateral drawbar force on curve excess	46	1,342,772	---	45	1
574	Passed couplers	27	332,037	1	21	5
575	Retarder, improper manual operation	12	367,217	3	3	6
599	Other train operation/human factors	32	558,317	6	10	16
	SUBTOTAL.....	269	10,702,084	16	215	38
	GRAND TOTAL.....	856	53,381,979	229	449	178

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
BRAKES					
400 Air hose uncoupled or burst ⁺	16	1,130,155	---	16	---
400L Air hose uncoupled or burst - loco	---	17,400	---	---	---
402 Broken brake pipe or connections	1	9,500	---	1	---
404 Other brake component failure, etc.	5	49,143	---	4	1
405 Brk valve malf. (undesired emergency)	9	1,361,575	---	9	---
406L Brk valve malf./stuck brake/etc - loco	1	75,100	---	1	---
407 Rigging down or dragging	13	1,141,617	---	12	1
408 Hand brake/gear broken or defective	4	650,500	1	1	2
409 Hand brk linkage/connections failure	2	32,740	1	---	1
410 Other brake failure(not on locomotive)	1	33,000	---	---	1
SUBTOTAL.....	52	4,500,730	2	44	6
TRAILER OR CONTAINER ON FLAT CAR					
411 Broken or defective tiedown equipment	2	71,331	---	---	2
412 Broken or defective container	1	6,000	---	---	1
419 Oth trailer/container on flat car fail	2	50,700	---	---	2
SUBTOTAL.....	5	128,031	---	---	5
BODY					
420 Body bolster broken or defective	4	67,050	---	3	1
421 Center sill broken or bent	7	791,168	---	6	1
422 Draft sill broken or bent	3	271,000	---	3	---
423 Center plate broken or defective	4	233,549	---	4	---
424 Center plate disengaged from truck	13	437,001	---	13	---
425 Center pin broken or missing	1	20,890	---	1	---
426 Center plate attachment defective	1	31,300	---	1	---
426L Center plate attachment defect. - loco	1	308,500	---	1	---
427 Side sill broken	4	423,830	---	2	2
429 Other causes due to body (not loco)	4	665,790	---	4	---
SUBTOTAL.....	42	3,250,078	---	38	4
COUPLER AND DRAFT SYSTEM					
430 Knuckle broken or defective	13	1,145,459	2	9	2
431 Coupler mismatch, high/low	2	34,772	---	2	---
432 Coupler drawhead broken or defective	6	184,010	---	5	1
433 Coupler retainer pin/cross key missing	6	572,098	---	6	---
434 Draft gear/mechanism broken/defective	12	1,249,147	---	11	1
435 Coupler carrier broken or defective	3	43,777	---	3	---
436 Coupler shank broken or defective	2	52,200	---	2	---
439 Other coupler and draft system causes	7	176,100	2	4	1
439L Other coupler/draft system causes-loco	1	467,450	---	1	---
SUBTOTAL.....	52	3,925,013	4	43	5
TRUCK COMPONENTS					
440 Side bearing clearance improper	19	1,581,778	1	18	---
441 Side bearing(s) broken	2	205,536	---	2	---
442 Side bearing(s) missing	2	175,140	---	2	---
443 Truck bolster broken	3	480,203	---	3	---
445 Truck (stiff/improper lateral)	31	1,250,098	1	29	1
445L Truck (stiff/improper lateral) - loco	1	10,000	---	1	---
447 Broken/missing/defective springs	1	190,000	---	1	---
449 Other truck component causes	11	1,780,100	1	10	---
SUBTOTAL.....	70	5,672,855	3	66	1

TABLE 21. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
AXLES AND JOURNAL BEARINGS					
450 Broken or bent between wheel seats	7	607,736	---	7	---
450L Broken/bent between wheel seats-loco	1	16,400	---	1	---
451 Journal (plain) failure - overheating	21	2,009,749	---	21	---
452 Journal (R. B.) failure - overheat	53	6,395,310	---	52	1
453 Journal fractured, new cold break	2	446,450	---	2	---
459 Axles and journal bearings (other)	2	596,270	---	1	1
459L Axles/journal bearings (other) - loco	2	18,926	---	2	---
SUBTOTAL.....	88	10,090,841	---	86	2
WHEELS					
460 Broken flange	4	83,300	---	4	---
461 Broken rim	7	2,629,851	---	7	---
461L Broken rim - locomotive	1	13,037	---	1	---
462 Broken plate	11	1,340,425	---	10	1
463 Broken hub	2	169,853	---	2	---
464 Worn flange	18	296,098	1	15	2
466 Damaged flange or tread, flat	6	633,800	---	6	---
466L Damaged flange or tread, flat - loco	3	186,300	---	3	---
467 Loose wheel	5	537,360	---	5	---
468 Thermal crack, flange or tread	2	40,000	---	2	---
469 Other causes involving wheels-not loco	13	432,458	1	12	---
469L Other causes involving wheel - loco	1	1,000	---	1	---
SUBTOTAL.....	73	6,363,482	2	68	3
LOCOMOTIVES					
471L Traction motor failure - locomotive	3	659,500	---	1	2
473L Oil fire - locomotive	2	18,000	---	---	2
474L Electrically caused fire - locomotive	8	2,581,000	---	1	7
475L Current collector system - loco	2	25,612	---	---	2
479L Other causes involving locomotives	3	258,300	---	3	---
SUBTOTAL.....	18	3,542,412	---	5	13
DOORS					
480 Box car plug door open	1	7,000	1	---	---
486 Bottom outlet car door attach defect.	4	56,640	---	4	---
SUBTOTAL.....	5	63,640	1	4	---
GENERAL MECHANICAL AND ELECTRICAL FAILU					
499 General mech/elect failures-not loco	15	446,525	---	1	14
499L General mech/elect failures - loco	10	145,587	---	1	9
SUBTOTAL.....	25	592,112	---	2	23
GRAND TOTAL.....	430	38,129,194	12	356	62

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
ROADBED DEFECTS					
101 Roadbed settled or soft	26	900,319	1	25	---
102 Washout/rain/slide/ice,etc. dmg to trk	18	3,528,891	---	18	---
109 Other roadbed defects	6	1,035,336	---	5	1
SUBTOTAL.....	50	5,464,546	1	48	1
TRACK GEOMETRY DEFECTS					
110 Wide gage (defect/missing crossties)	195	4,465,193	1	193	1
111 Wide gage (def/missing rail fasteners)	23	1,044,165	---	23	---
112 Wide gage (involving gage rods)	4	81,054	---	4	---
113 Wide gage due to worn rail	10	282,389	---	10	---
114 Track alignment irregular	26	5,418,876	---	26	---
115 Track alignment irregular (buckled)	55	8,457,758	---	55	---
116 Track profile improper	3	183,031	---	3	---
117 Superelevation incorrect	10	1,221,094	---	10	---
118 Superelevation runoff improper	2	206,000	---	2	---
119 Cross level irregular at joints	56	1,844,969	---	55	1
120 Cross level irregular not at joints	34	2,230,244	2	32	---
129 Other track geometry defects	16	910,825	---	16	---
SUBTOTAL.....	434	26,345,598	3	429	2
RAIL AND JOINT BAR DEFECTS					
130 Bolt hole crack or break	9	921,544	1	8	---
131 Broken base of rail	35	2,177,880	---	33	2
132 Broken weld, field	2	167,450	---	2	---
133 Broken weld, plant	2	287,325	---	2	---
134 Detail fracture fm shelling/head check	12	1,953,797	---	12	---
135 Engine burn fracture	3	379,051	---	3	---
136 Head/web sep.(outside joint bar limit)	20	2,464,026	---	19	1
137 Head/web sep.(within joint bar limits)	1	6,000	---	1	---
138 Horizontal split head	6	307,801	---	6	---
140 Rail defect with joint bar repair	1	7,420	---	1	---
141 Transverse/compound fissure	44	4,640,847	1	43	---
142 Vertical split head	30	2,414,223	---	30	---
143 Worn rail	8	135,292	---	8	---
144 Mismatched rail-head contour	11	297,036	---	11	---
145 Joint bar broken, compromise	4	38,540	---	4	---
146 Joint bar broken, insulated	1	161,274	---	1	---
147 Joint bar broken, noninsulated	13	1,675,834	---	13	---
148 Joint bolts, broken or missing	2	20,947	---	2	---
149 Other rail and joint bar defects	23	2,241,745	---	22	1
SUBTOTAL.....	227	20,298,032	2	221	4

TABLE 22. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	
	Accidents	Damage				
FROGS, SWITCHES AND TRACK APPLIANCES						
160	Guard rail loose/broken/etc.	3	35,590	---	3	---
161	Switch damaged/out of adjustment	47	838,270	---	45	2
162	Switch stand failure (hand oper.)	7	94,868	---	6	1
163	Switch connecting/oper. rod fail.	2	706,200	---	2	---
164	Stock rail worn/broken/disconnect	9	565,821	1	8	---
165	Switch point worn or broken	103	2,989,528	2	95	6
166	Switch rod worn/bent/broken/etc.	3	349,281	---	3	---
167	Frog, rigid, worn or broken	1	16,445	---	1	---
171	Derail, defective	2	30,050	---	2	---
173	Retarder worn/broken/malfunction	5	737,840	---	2	3
174	Spring/power switch mech. malfunction	2	21,723	---	2	---
175	Retarder yard skate defective	4	56,400	2	---	2
176	Switch out of adjust.(insuf rail anch)	1	13,312	---	1	---
179	Other frog/switches/track appl. causes	23	578,533	---	21	2
	SUBTOTAL.....	212	7,033,861	5	191	16
OTHER WAY AND STRUCTURES						
180	Bridge misalignment or failure	2	473,600	---	2	---
189	Other way and structure causes	7	211,400	---	---	7
	SUBTOTAL.....	9	685,000	---	2	7
SIGNAL AND COMMUNICATION FAILURES						
200	Fix sig. improperly displayed (defect)	2	198,800	1	1	---
201	Radio communication equipment failure	1	9,000	1	---	---
204	Interlocking signal displayed false pr	1	87,714	1	---	---
209	Signal & communication failure N.O.C.	2	40,100	---	---	2
	SUBTOTAL.....	6	335,614	3	1	2
	GRAND TOTAL.....	938	60,162,651	14	892	32

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	134	9,780,485	---	---	---	134
701 Emergency brk appl to avoid accident	6	269,119	---	6	---	---
702 Vandalism	44	2,214,279	7	23	14	---
703 Interference with RR oper.-not vandals	17	2,117,596	3	9	5	---
704 Load shifted	14	902,299	---	12	2	---
705 Load fell from car	7	322,792	1	3	3	---
706 Overloaded car	1	7,100	---	1	---	---
707 Improperly loaded car	10	401,845	---	10	---	---
708 Oversized load, misrouted	2	23,500	1	---	1	---
709 Object on or fouling track	17	790,506	---	8	9	---
710 Equipment on or fouling track	2	24,500	1	---	---	1
711 Trail/contain tiedown eqp-impr applied	2	54,500	---	---	2	---
713 Interaction of lateral/vertical forces	53	3,246,979	---	53	---	---
714 Failure to control spd with hand brake	2	43,500	1	---	1	---
715 Snow, ice, or mud on track	4	27,699	1	3	---	---
716 Other acts of God	11	1,451,363	2	8	1	---
717 Fire, other than vandalism, involving	18	574,383	---	2	16	---
718 Hump retarder failed to sufficiently s	46	813,642	8	8	30	---
719 Objects such as lading chains or strap	2	16,175	---	2	---	---
799 Other miscellaneous causes	31	2,429,266	7	14	10	---
GRAND TOTAL.....	423	25,511,528	32	162	94	135

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....	186	10,646,208	1,417	90,348,044	98	2,595,243	95	6,283,164	1,796	109,872,659
Passenger train..	12	10,391,049	25	3,153,987	51	3,575,088	29	2,395,435	117	19,515,559
Mixed train.....	---	---	1	7,250	---	---	---	---	1	7,250
Work train.....	5	219,050	12	227,015	3	8,550	---	---	20	454,615
Single car.....	26	421,286	9	181,072	64	861,882	4	86,343	103	1,550,583
Cut of cars.....	78	820,262	53	1,161,284	42	842,084	---	---	173	2,823,630
Yard/switching...	161	1,792,992	337	4,748,568	135	2,974,256	1	100,000	634	9,615,816
Light loco(s)....	48	2,181,458	19	678,803	15	556,593	3	26,500	85	3,443,354
Unknown.....	---	---	---	---	---	---	---	---	---	---
Total.....	516	26,472,305	1,873	100,506,023	408	11,413,696	132	8,891,442	2,929	147,283,466

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				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Derailment.....	253	20,025	1,715	412	76	17,140	21,684,813
Head on collision.....	5	268	20	---	---	---	475,000
Rear end collision.....	2	237	9	---	---	---	41,500
Side collision.....	40	1,915	168	31	3	2,200	696,362
Raking collision.....	9	579	74	2	---	---	140,687
Broken train collision.....	1	94	10	4	---	---	48,700
Rail-hwy crossing.....	14	1,037	110	15	3	500	1,862,790
RR grade crossing.....	---	---	---	---	---	---	---
Obstruction.....	2	59	12	---	---	---	35,000
Explosion-detonation.....	1	4	4	1	1	---	8,000
Fire or violent rupture.....	4	179	22	5	1	1,505	236,037
Other.....	33	1,854	148	25	5	3,000	491,415
Total.....	364	26,251	2,292	495	89	24,345	25,720,304

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
1982	494	286	59	13
1983	422	240	52	16
1984	436	237	54	17
1985	415	245	54	22
1986	364	185	51	32
1987	351	186	50	28

NOTE: An accident may appear in more 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.

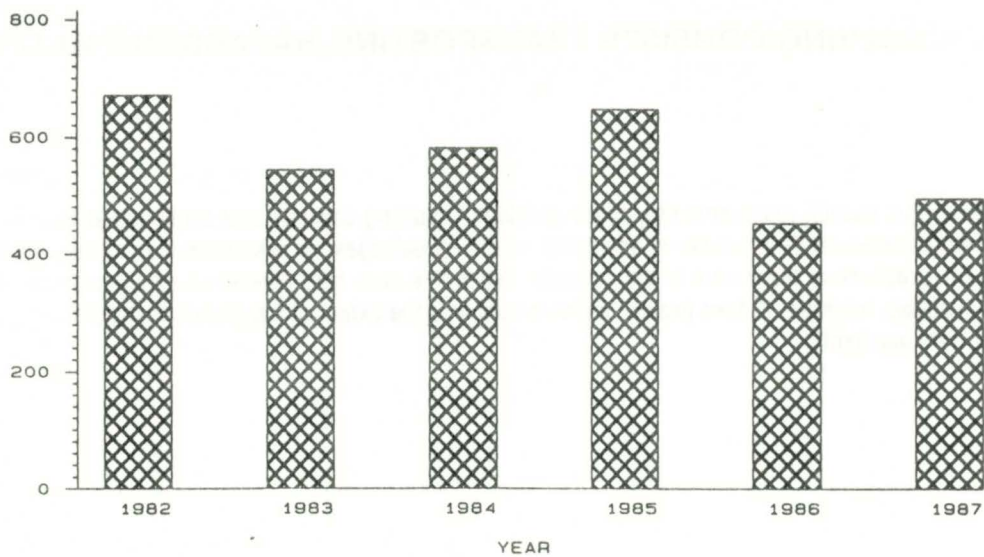


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED

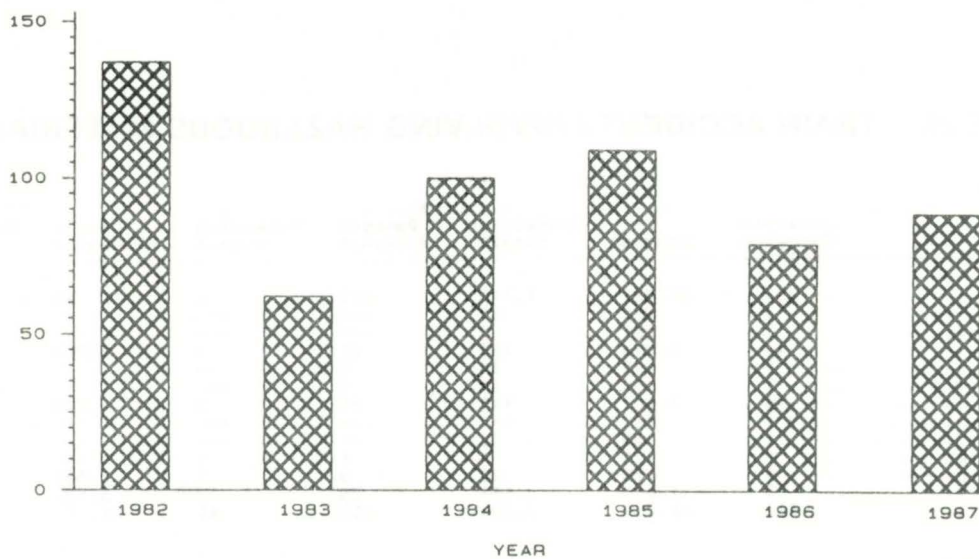


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIALS BY YEAR

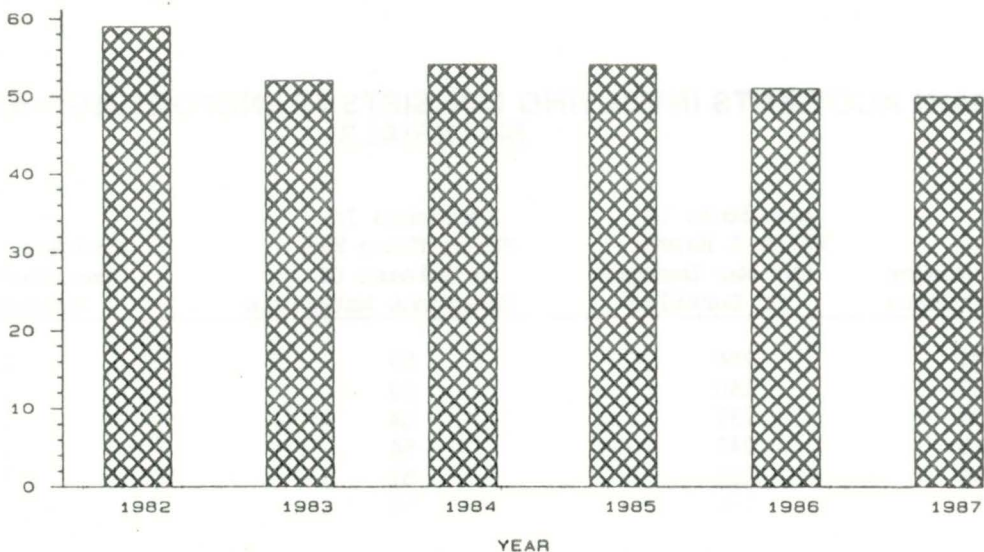


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS

TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

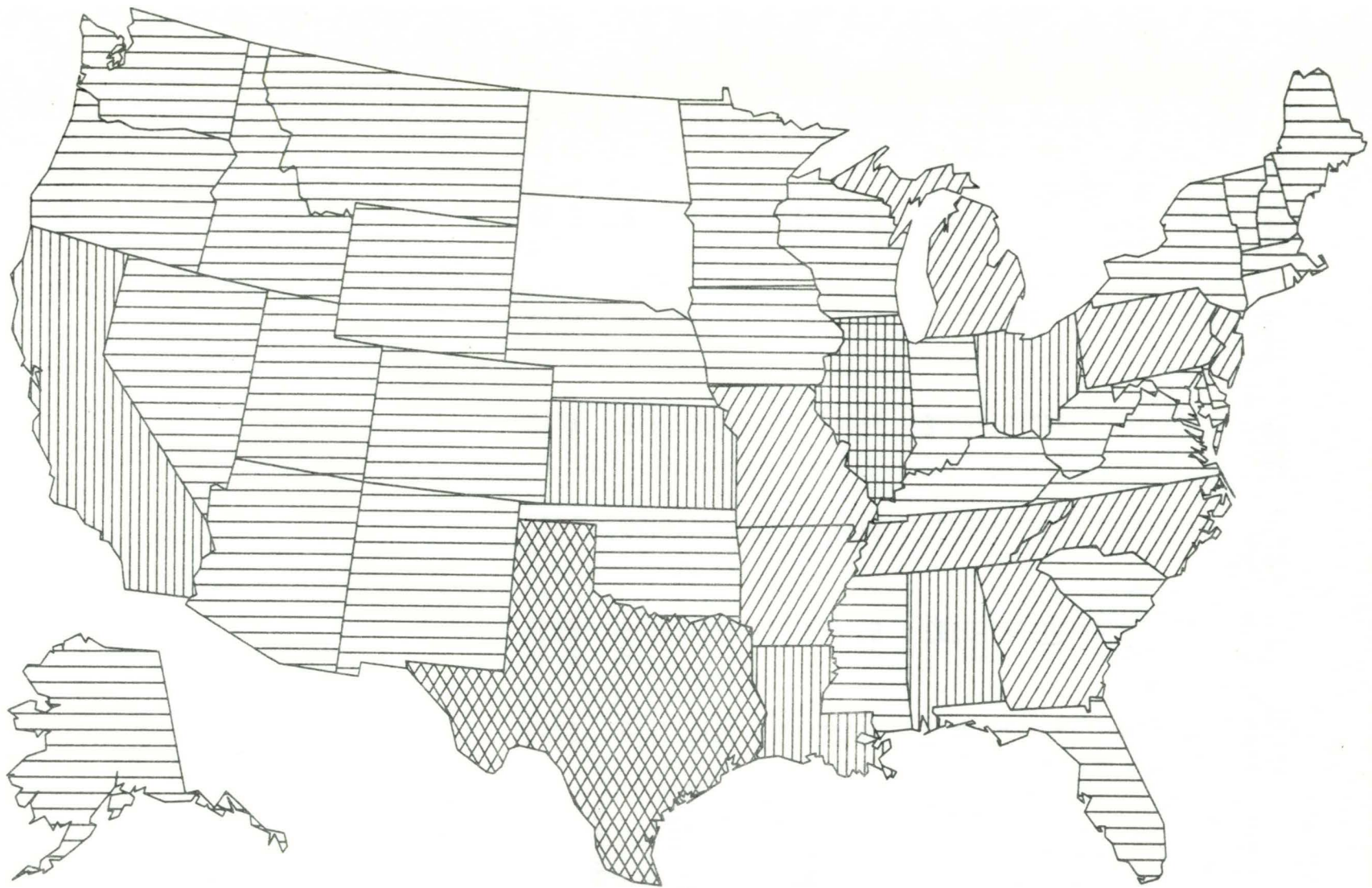
Cause	Consists Carrying	Cars			Releasing Hazmat	People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat			
TRACK, ROADBED AND STRUCTURES							
Roadbed defects.....	6	427	39	31	18	120	1,809,840
Track geometry defects.....	46	2,857	295	75	10	170	4,703,930
Rail and joint bar defects.....	29	1,882	177	64	13	516	3,007,810
Frogs, switches and track appliances.....	38	3,226	354	62	7	2,600	1,503,950
Other way and structure.....	1	55	3	3	---	5	25,000
Signal and communication failures.....	---	---	---	---	---	---	---
Subtotal.....	120	8,447	868	235	48	3,411	11,050,530
MECHANICAL AND ELECTRICAL FAILURES							
Brakes.....	7	402	35	11	8	2,500	497,590
Trailer or container on flat car.....	1	35	17	---	---	---	31,800
Body.....	11	1,048	39	2	---	---	524,400
Coupler and draft system.....	7	682	64	13	4	20	1,078,250
Truck components.....	14	1,119	67	20	2	38	1,104,025
Axles and journal bearings.....	17	1,626	96	25	4	3,372	2,642,626
Wheels.....	16	1,301	91	11	1	---	1,289,352
Locomotives.....	---	---	---	---	---	---	---
Doors.....	---	---	---	---	---	---	---
General mechanical and electrical failures.....	1	4	4	1	1	---	8,000
Subtotal.....	74	6,217	413	83	20	5,930	7,176,043
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of.....	22	1,653	96	29	4	2,000	834,927
Employee physical condition.....	1	38	2	---	---	---	3,600
Flagging, fixed, hand and radio signals.....	5	495	13	---	---	---	694,350
Other rules and instructions.....	32	1,503	165	22	3	4	417,915
Speed.....	8	667	34	12	3	8,000	444,608
Switches, use of.....	15	888	51	9	1	---	187,870
Miscellaneous.....	37	2,910	345	46	4	4,500	952,484
Subtotal.....	120	8,154	706	118	15	14,504	3,535,754
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site.....	14	1,037	110	15	3	500	1,862,790
Emergency brake application to avoid accident.....	1	121	5	---	---	---	142,600
Vandalism.....	2	141	16	4	---	---	68,700
Interference with rr operation, not vandals.....	---	---	---	---	---	---	---
Load shifted.....	5	409	46	3	---	---	444,270
Load fell from car.....	---	---	---	---	---	---	---
Overloaded car.....	---	---	---	---	---	---	---
Improperly loaded car.....	1	72	3	1	---	---	2,500
Oversized load, misrouted.....	---	---	---	---	---	---	---
Object on or fouling track.....	2	136	7	7	---	---	321,500
Equipment on or fouling track.....	---	---	---	---	---	---	---
Trail/container tiedown eqp impr applied.....	---	---	---	---	---	---	---
Overload/improper loaded container etc.....	---	---	---	---	---	---	---
Interaction of lateral/vertical forces.....	9	752	16	3	1	---	814,942
Failure to control car spd with hand brk.....	---	---	---	---	---	---	---
Snow, ice, or mud on track.....	---	---	---	---	---	---	---
Other acts of God.....	2	79	11	2	---	---	37,500
Fire, not due to vandalism.....	1	75	11	---	---	---	10,000
Hump retarder failed to slow car.....	7	384	12	9	1	---	76,300
Switch fouled by lading chains, etc.....	1	27	4	4	---	---	6,975
Other causes.....	5	200	64	11	1	---	169,900
Subtotal.....	50	3,433	305	59	6	500	3,957,977
GRAND TOTAL.....	364	26,251	2,292	495	89	24,345	25,720,304

TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE



State	Consists Carrying	In Consist	Cars Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
Alabama.....	8	692	92	8	3	---	1,397,400
Alaska.....	---	---	---	---	---	---	---
Arizona.....	10	660	98	15	2	20	2,983,785
Arkansas.....	5	408	51	6	1	1,940	122,600
California.....	12	713	103	23	---	---	159,793
Colorado.....	1	64	22	9	---	---	23,714
Connecticut.....	---	---	---	---	---	---	---
Delaware.....	1	36	3	3	3	---	6,000
Dist of Columbia.....	1	90	4	1	1	200	430,763
Florida.....	6	340	17	10	1	---	194,950
Georgia.....	9	1,060	31	4	---	---	284,250
Idaho.....	2	79	3	---	---	---	425,000
Illinois.....	49	3,028	309	43	5	70	2,030,522
Indiana.....	11	611	31	10	2	3,001	171,709
Iowa.....	7	668	67	5	---	---	242,550
Kansas.....	8	478	30	6	---	---	752,530
Kentucky.....	5	427	37	11	1	4	199,300
Louisiana.....	15	1,014	132	25	2	55	861,835
Maine.....	1	8	1	---	---	---	19,000
Maryland.....	---	---	---	---	---	---	---
Massachusetts.....	6	502	22	2	2	---	245,550
Michigan.....	15	904	148	26	3	511	991,200
Minnesota.....	8	700	45	4	---	---	209,460
Mississippi.....	9	895	52	10	2	20	671,600
Missouri.....	7	466	50	16	7	300	804,290
Montana.....	2	109	9	2	1	---	23,000
Nebraska.....	7	754	151	15	1	---	972,150
Nevada.....	1	117	1	1	---	---	12,300
New Hampshire.....	2	31	2	2	1	---	22,740
New Jersey.....	5	395	18	13	---	8	130,600
New Mexico.....	5	445	22	3	---	---	536,450
New York.....	10	655	38	18	3	17	487,676
North Carolina.....	8	834	38	9	2	2,300	1,241,470
North Dakota.....	3	248	36	8	---	400	71,848
Ohio.....	11	697	52	11	---	---	285,650
Oklahoma.....	4	208	17	6	1	---	412,487
Oregon.....	9	619	23	8	1	---	644,892
Pennsylvania.....	13	828	77	23	8	12,360	1,347,845
Rhode Island.....	---	---	---	---	---	---	---
South Carolina.....	5	591	24	4	1	---	671,050
South Dakota.....	---	---	---	---	---	---	---
Tennessee.....	11	1,040	81	15	5	1,000	535,925
Texas.....	46	2,991	244	101	29	2,139	3,500,118
Utah.....	---	---	---	---	---	---	---
Vermont.....	---	---	---	---	---	---	---
Virginia.....	9	796	52	9	---	---	299,400
Washington.....	7	502	28	6	1	---	503,500
West Virginia.....	---	---	---	---	---	---	---
Wisconsin.....	8	427	18	3	---	---	381,302
Wyoming.....	2	121	13	1	---	---	412,100
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	364	26,251	2,292	495	89	24,345	25,720,304

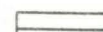

TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD


Railroad	Consists Carrying	Cars			Releasing Hazmat	People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat			
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp).....	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.....	24	1,429	116	28	2	55	1,091,027
Boston And Maine Corporation.....	4	270	17	2	2	---	108,300
Burlington Northern Incorporated.....	19	1,220	69	17	3	---	2,187,350
Chicago And North Western.....	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	16	997	44	35	10	12,517	1,168,560
CSX Transportation.....	58	5,406	298	70	12	3,265	4,815,308
Delaware And Hudson Railway.....	6	354	20	3	1	2,200	64,176
Denver And Rio Grande Western RR Co.....	1	64	22	9	---	---	23,714
Elgin, Joliet And Eastern Railway Co.....	1	32	1	1	---	---	11,000
Florida East Coast Railway Co.....	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.....	8	482	87	11	2	500	361,500
Illinois Central Gulf Railroad Co.....	15	1,406	101	14	3	70	627,705
Kansas City Southern Railway Co.....	2	113	34	4	---	---	46,150
Louisiana And Arkansas Rwy Company.....	1	55	5	5	---	---	54,490
Missouri-Kansas-Texas Railroad Co.....	2	126	4	3	---	---	85,980
Norfolk Southern Corporation.....	---	---	---	---	---	---	---
Soo Line Railroad Company.....	27	2,320	173	16	---	400	920,410
Southern Pacific Transportation Co.....	33	2,325	143	53	7	4	4,553,585
St. Louis Southwestern Railway Co.....	11	987	75	20	5	920	1,655,350
Union Pacific Railroad Co.....	4	326	8	8	2	---	1,167,950
Total Class I Railroads.....	232	17,912	1,217	299	49	19,931	18,942,555
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.....	43	3,421	500	100	28	3,955	3,698,175
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---
Central Vermont Railway Inc.....	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.....	1	53	1	---	---	---	125,000
Chicago South Shore And South Bend RR.....	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co.....	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.....	1	6	6	2	---	---	1,502
Green Bay And Western Railroad.....	---	---	---	---	---	---	---
Maine Central Railroad Company.....	---	---	---	---	---	---	---
Michigan Interstate Railroad.....	1	8	1	---	---	---	19,000
Monogahela Railway.....	---	---	---	---	---	---	---
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---
Oklahoma, Kansas Texas Railroad.....	---	---	---	---	---	---	---
Pittsburg And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac.....	---	---	---	---	---	---	---
Spokane International Railroad.....	4	185	31	1	---	---	38,000
Texas And Northern Railway Company.....	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---
Total Class II Railroads.....	50	3,673	539	103	28	3,955	3,881,677
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads.....	275	21,333	1,717	399	77	23,886	22,640,730
Class II Railroads.....	7	252	39	3	---	---	183,502
Class III Railroads.....	82	4,666	536	93	12	459	2,896,072
Total All Railroads.....	364	26,251	2,292	495	89	24,345	25,720,304



LEGEND:

	0
	41 TO 60

	1 TO 20
	61 TO 80

	21 TO 40
	141 TO 160

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	390,868	34	4,683,816	5	149,055	5	1,149,600	49	6,373,339
Alaska.....	---	---	3	80,119	---	---	---	---	3	80,119
Arizona.....	3	1,648,950	21	4,542,041	3	101,092	---	---	27	6,292,083
Arkansas.....	7	348,700	18	850,494	4	77,700	8	1,229,835	37	2,506,729
California.....	6	573,126	72	3,960,236	8	814,291	3	40,524	89	5,388,177
Colorado.....	2	44,188	9	611,382	4	96,023	2	31,000	17	782,593
Connecticut.....	1	230,000	4	80,150	12	130,200	1	7,000	18	447,350
Delaware.....	---	---	3	22,125	---	---	1	14,100	4	36,225
Dist of Columbia.....	---	---	4	465,661	---	---	---	---	4	465,661
Florida.....	5	520,517	27	978,490	3	99,700	7	305,251	42	1,903,958
Georgia.....	9	141,670	49	1,832,021	23	330,130	6	136,100	87	2,439,921
Idaho.....	3	101,932	20	2,435,979	1	44,200	---	---	24	2,582,111
Illinois.....	35	1,239,334	206	7,150,548	43	1,842,079	8	1,272,217	292	11,504,178
Indiana.....	4	53,700	47	2,443,710	12	130,713	8	280,898	71	2,909,021
Iowa.....	10	1,424,120	81	6,044,928	7	454,491	1	15,000	99	7,938,539
Kansas.....	11	444,095	46	3,762,119	9	241,703	7	208,281	73	4,656,198
Kentucky.....	6	262,050	33	3,079,735	4	132,200	---	---	43	3,473,985
Louisiana.....	7	265,785	24	1,324,710	5	113,900	3	267,500	39	1,971,895
Maine.....	2	26,800	9	235,508	2	17,300	---	---	13	279,608
Maryland.....	4	12,712,580	28	1,194,426	9	633,800	---	---	41	14,540,806
Massachusetts.....	7	564,157	13	552,600	5	86,700	---	---	25	1,203,457
Michigan.....	6	233,550	35	2,525,279	32	594,607	1	307,000	74	3,660,436
Minnesota.....	10	480,389	80	6,262,035	4	70,065	---	---	94	6,812,489
Mississippi.....	4	65,210	35	1,418,990	4	394,975	9	588,197	52	2,467,372
Missouri.....	11	341,058	62	4,445,162	7	83,307	6	94,269	86	4,963,796
Montana.....	4	108,800	25	3,238,438	6	145,950	1	7,000	36	3,500,188
Nebraska.....	6	481,353	67	5,268,119	16	434,221	4	89,152	93	6,272,845
Nevada.....	---	---	2	23,700	1	16,000	---	---	3	39,700
New Hampshire.....	---	---	2	158,400	1	14,740	---	---	3	173,140
New Jersey.....	2	12,750	17	922,176	18	835,296	3	114,000	40	1,884,222
New Mexico.....	---	---	16	2,082,105	6	231,626	---	---	22	2,313,731
New York.....	10	1,727,095	48	2,700,045	21	2,098,159	1	7,500	80	6,532,799
North Carolina.....	4	62,710	19	1,371,420	4	54,050	1	435,500	28	1,923,680
North Dakota.....	---	---	28	2,238,931	1	14,000	1	21,000	30	2,273,931
Ohio.....	11	288,385	61	3,337,013	8	228,050	3	45,000	83	3,898,448
Oklahoma.....	5	114,104	32	1,331,902	4	178,625	4	416,000	45	2,040,631
Oregon.....	5	291,175	51	3,449,046	2	16,400	1	117,000	59	3,873,621
Pennsylvania.....	5	76,800	80	5,562,085	9	281,102	9	598,303	103	6,518,290
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina.....	1	17,000	11	1,236,350	2	23,714	3	547,052	17	1,824,116
South Dakota.....	---	---	27	1,904,031	1	6,300	2	592,000	30	2,502,331
Tennessee.....	7	219,915	43	3,699,272	6	63,625	---	---	56	3,382,812
Texas.....	35	1,633,860	145	10,959,999	24	799,892	17	465,302	221	13,859,053
Utah.....	2	24,300	5	650,585	---	---	1	6,400	8	681,285
Vermont.....	---	---	1	28,300	1	20,500	1	8,100	3	56,900
Virginia.....	11	280,785	41	1,935,141	8	87,176	2	22,900	62	2,326,002
Washington.....	2	36,080	18	1,700,280	6	213,427	2	302,204	28	2,251,991
West Virginia.....	6	67,520	55	4,718,915	6	199,235	---	---	67	4,985,670
Wisconsin.....	9	447,782	70	3,698,199	3	60,535	2	26,800	84	4,233,316
Wyoming.....	4	998,576	32	3,086,435	6	51,593	1	20,000	43	4,156,604
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	287	29,001,769	1,859	125,683,151	366	12,712,447	135	9,787,985	2,647	177,185,352

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	17	2,931,972	7	801,700	16	1,373,067	9	1,266,600	49	6,373,339
Alaska	1	59,200	---	---	2	20,919	---	---	3	80,119
Arizona	13	3,692,854	4	305,772	5	2,125,625	5	167,832	27	6,292,083
Arkansas	16	591,511	4	345,083	8	329,900	9	1,240,235	37	2,506,729
California	35	1,338,302	14	724,834	20	854,143	20	2,470,898	89	5,388,177
Colorado	5	381,117	---	---	8	277,219	4	124,257	17	782,593
Connecticut	5	76,450	6	69,900	5	288,000	2	13,000	18	447,350
Delaware	2	15,800	---	---	1	6,325	1	14,100	4	36,225
Dist of Columbia	1	437,763	---	---	3	27,898	---	---	4	465,661
Florida	12	582,807	6	283,145	17	732,755	7	305,251	42	1,903,958
Georgia	15	414,597	19	1,072,377	26	492,308	27	460,639	87	2,439,921
Idaho	6	385,140	9	1,881,798	6	185,292	3	129,881	24	2,582,111
Illinois	95	2,257,946	34	1,914,818	113	3,989,680	50	3,341,734	292	11,504,178
Indiana	22	986,746	10	755,244	26	726,740	13	440,291	71	2,909,021
Iowa	41	1,912,382	11	385,847	35	5,028,128	12	612,182	99	7,938,539
Kansas	18	1,704,236	12	1,490,537	27	661,911	16	799,514	73	4,656,198
Kentucky	16	2,054,625	6	575,600	17	579,190	4	264,570	43	3,473,985
Louisiana	17	1,167,554	2	66,100	17	470,741	3	267,500	39	1,971,895
Maine	4	75,308	1	44,200	4	47,513	4	112,587	13	279,608
Maryland	18	809,633	8	857,900	12	12,834,173	3	39,100	41	14,540,806
Massachusetts	7	330,000	5	213,700	8	366,657	5	293,100	25	1,203,457
Michigan	26	649,291	12	1,063,076	32	1,407,014	4	541,055	74	3,660,436
Minnesota	46	4,250,990	13	826,250	27	1,245,329	8	489,920	94	6,812,489
Mississippi	27	891,952	5	407,640	10	556,083	10	611,697	52	2,467,372
Missouri	32	1,694,595	8	1,152,550	33	1,903,568	13	213,083	86	4,963,796
Montana	10	1,075,700	7	1,417,418	14	903,030	5	104,040	36	3,500,188
Nebraska	23	2,600,563	11	1,634,379	43	1,282,678	16	755,225	93	6,272,845
Nevada	---	---	3	39,700	---	---	---	---	3	39,700
New Hampshire	2	158,400	1	14,740	---	---	---	---	3	173,140
New Jersey	11	591,472	13	917,699	6	160,400	10	214,651	40	1,884,222
New Mexico	7	1,503,307	7	347,599	3	127,425	5	335,400	22	2,313,731
New York	29	1,427,246	15	2,407,626	20	550,971	16	2,146,956	80	6,532,799
North Carolina	7	169,150	5	1,075,970	12	197,610	4	480,950	28	1,923,680
North Dakota	16	1,333,878	7	549,473	2	230,050	5	160,530	30	2,273,931
Ohio	35	2,064,648	16	750,810	21	722,365	11	360,625	83	3,898,448
Oklahoma	20	1,196,632	7	143,579	11	121,220	7	579,200	45	2,040,631
Oregon	18	974,586	12	1,723,870	22	833,041	7	342,124	59	3,873,621
Pennsylvania	41	1,549,982	22	2,743,309	20	1,379,430	20	845,569	103	6,518,290
Rhode Island	---	---	---	---	---	---	---	---	---	---
South Carolina	1	824,500	10	383,214	3	69,350	3	547,052	17	1,824,116
South Dakota	21	1,180,025	4	688,779	1	23,300	4	610,227	30	2,502,331
Tennessee	17	1,855,697	9	266,150	24	1,132,715	6	128,250	56	3,382,812
Texas	87	5,421,057	33	3,586,790	72	3,778,699	29	1,272,507	221	13,859,053
Utah	---	---	1	10,300	5	360,585	2	310,400	8	681,285
Vermont	---	---	---	---	2	48,800	1	8,100	3	56,900
Virginia	11	449,727	13	675,361	30	1,020,014	8	180,900	62	2,326,002
Washington	6	717,358	6	492,222	12	462,707	4	629,704	28	2,251,991
West Virginia	32	2,534,513	17	1,745,309	11	438,846	7	267,002	67	4,985,670
Wisconsin	38	1,880,672	10	757,568	22	679,086	14	915,990	84	4,233,316
Wyoming	9	960,767	5	769,258	22	2,329,479	7	97,100	43	4,156,604
Unknown	---	---	---	---	---	---	---	---	---	---
TOTAL	938	60,162,651	430	38,129,194	856	53,381,979	423	25,511,528	2,647	177,185,352

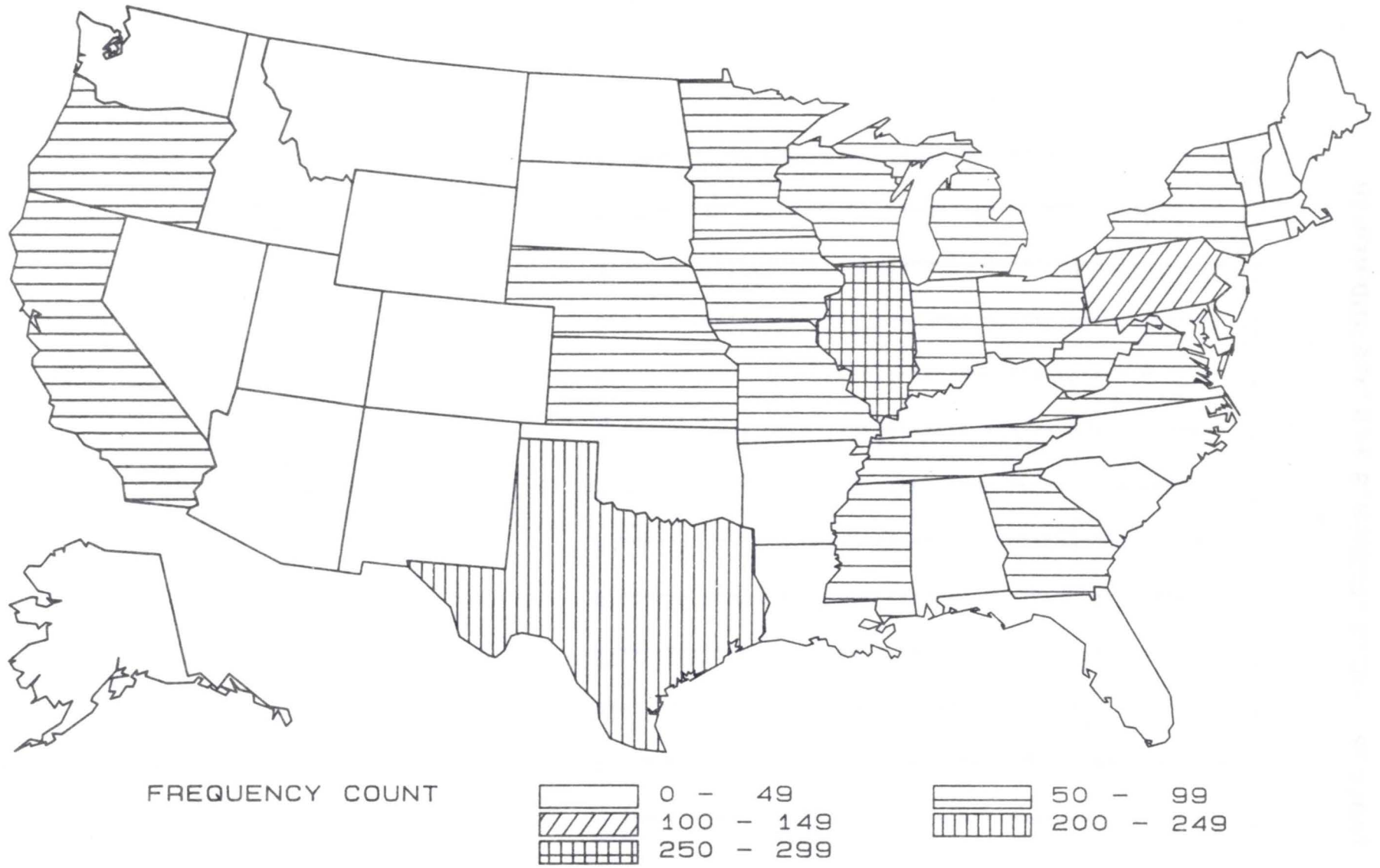


FIGURE 25. TRAIN ACCIDENTS BY STATE

TABLE 32. TRAIN ACCIDENTS BY STATE AND MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama.....	3	3	4	4	6	4	5	7	3	2	4	4	49
Alaska.....	---	---	1	---	---	---	1	1	---	---	---	---	3
Arizona.....	4	1	1	2	2	5	2	6	---	2	1	1	27
Arkansas.....	3	3	6	3	2	2	9	3	1	1	2	2	37
California.....	6	10	9	4	3	10	7	8	13	5	6	8	89
Colorado.....	---	1	---	---	2	3	2	---	1	1	3	4	17
Connecticut.....	1	2	1	2	1	1	2	2	2	---	4	---	18
Delaware.....	1	---	---	---	---	---	---	---	---	1	---	2	4
Dist of Columbia.....	---	---	---	2	---	---	1	---	1	---	---	---	4
Florida.....	10	3	1	2	3	2	1	6	2	2	6	4	42
Georgia.....	9	8	11	8	11	9	3	4	4	5	9	6	87
Idaho.....	1	2	3	---	---	1	4	3	---	2	3	5	24
Illinois.....	24	19	23	29	23	29	14	29	17	26	27	32	292
Indiana.....	2	5	6	3	4	8	5	7	6	11	5	9	71
Iowa.....	1	7	9	10	6	14	8	9	8	8	9	10	99
Kansas.....	8	7	2	8	2	6	11	4	6	5	7	7	73
Kentucky.....	4	2	4	5	9	3	2	4	5	4	1	2	43
Louisiana.....	3	1	5	3	1	3	4	6	2	1	3	5	39
Maine.....	---	---	2	3	2	---	2	---	1	---	1	1	13
Maryland.....	4	5	---	3	5	4	2	5	5	3	---	4	41
Massachusetts.....	3	2	4	---	1	1	2	3	2	---	7	---	25
Michigan.....	8	5	6	8	1	2	9	6	6	9	7	7	74
Minnesota.....	2	6	10	7	6	9	10	6	8	13	10	7	94
Mississippi.....	8	6	9	7	1	4	5	4	3	2	3	3	52
Missouri.....	7	6	9	4	9	6	9	5	6	5	8	12	86
Montana.....	1	3	2	4	2	4	5	6	6	1	3	1	36
Nebraska.....	8	13	7	11	8	11	8	4	6	5	8	4	93
Nevada.....	---	---	---	---	2	---	---	---	---	---	---	1	3
New Hampshire.....	---	1	---	---	1	---	---	---	---	---	1	---	3
New Jersey.....	3	3	1	2	4	2	5	4	5	3	3	5	40
New Mexico.....	1	4	2	2	---	3	1	2	1	---	3	3	22
New York.....	6	6	10	9	2	9	7	7	6	6	5	7	80
North Carolina.....	3	---	5	2	2	2	2	---	5	4	2	1	28
North Dakota.....	3	---	4	4	2	2	5	3	5	---	1	1	30
Ohio.....	10	7	6	8	6	7	9	8	7	2	7	6	83
Oklahoma.....	7	3	2	4	2	6	5	2	2	5	2	5	45
Oregon.....	10	7	3	4	3	4	6	4	3	4	5	6	59
Pennsylvania.....	14	5	6	7	3	7	5	10	14	9	6	17	103
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	2	1	2	2	---	2	2	---	1	1	3	1	17
South Dakota.....	3	---	---	2	8	1	5	1	2	4	---	4	30
Tennessee.....	5	3	3	5	3	5	10	4	1	1	8	8	56
Texas.....	20	14	25	14	21	21	20	22	17	18	11	18	221
Utah.....	2	---	---	1	---	1	---	2	---	1	---	1	8
Vermont.....	1	---	---	---	---	---	---	2	---	---	---	---	3
Virginia.....	6	5	8	5	4	7	6	5	3	5	7	1	62
Washington.....	1	2	2	2	3	6	3	1	1	1	1	5	28
West Virginia.....	8	4	5	5	8	4	9	2	8	---	4	10	67
Wisconsin.....	3	6	7	6	7	13	7	3	5	7	9	11	84
Wyoming.....	4	3	6	4	5	4	1	4	4	4	2	2	43
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	233	192	232	219	196	247	241	224	202	189	219	253	2,647

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	14	---	15	163	2	---	299	1	17	476	3
Alaska.....	---	---	---	---	10	---	---	51	1	---	61	1
Arizona.....	1	6	---	12	37	---	2	83	3	15	126	3
Arkansas.....	2	4	---	34	94	1	---	353	3	36	451	4
California.....	3	15	---	52	280	3	4	975	5	59	1,270	8
Colorado.....	---	1	---	6	70	1	---	206	1	6	277	2
Connecticut.....	2	2	---	9	48	1	1	211	1	12	261	2
Delaware.....	---	4	---	5	16	---	---	123	3	5	143	3
Dist of Columbia.....	---	---	---	---	13	---	---	97	---	---	110	---
Florida.....	4	10	---	42	164	---	---	320	3	46	494	3
Georgia.....	---	5	---	25	227	---	1	468	3	26	700	3
Idaho.....	---	1	---	6	68	---	---	123	4	6	192	4
Illinois.....	6	17	---	83	388	1	3	1,473	18	92	1,878	19
Indiana.....	3	9	2	60	247	1	1	477	8	64	733	11
Iowa.....	---	52	---	18	112	---	2	382	5	20	546	5
Kansas.....	4	14	---	30	101	---	---	435	5	34	550	5
Kentucky.....	---	3	---	21	135	---	---	547	8	21	685	8
Louisiana.....	1	4	---	13	167	2	4	315	6	18	486	8
Maine.....	---	---	---	4	18	2	---	88	2	4	106	4
Maryland.....	16	179	---	10	52	---	2	287	3	28	518	3
Massachusetts.....	---	18	---	18	52	---	---	325	2	18	395	2
Michigan.....	---	6	---	27	182	---	1	538	1	28	726	1
Minnesota.....	---	---	---	16	127	3	---	436	8	16	563	11
Mississippi.....	1	16	---	10	109	---	1	142	1	12	267	1
Missouri.....	2	18	---	15	157	5	1	462	4	18	637	9
Montana.....	1	4	---	9	82	3	1	212	2	11	298	5
Nebraska.....	1	12	---	22	128	3	---	570	18	23	710	21
Nevada.....	---	---	---	2	19	1	---	58	1	2	77	2
New Hampshire.....	---	---	---	1	2	---	---	16	---	1	18	---
New Jersey.....	1	17	---	15	144	2	---	852	8	16	1,013	10
New Mexico.....	---	5	---	11	31	---	1	111	---	12	147	---
New York.....	4	30	---	38	226	1	5	1,979	50	67	2,235	51
North Carolina.....	2	5	---	33	166	---	3	263	---	38	434	---
North Dakota.....	---	5	---	2	29	---	---	103	---	2	137	---
Ohio.....	---	8	---	74	281	1	4	834	14	78	1,123	15
Oklahoma.....	1	7	---	19	117	1	---	164	2	20	288	3
Oregon.....	---	10	---	9	101	1	1	233	4	10	344	5
Pennsylvania.....	3	6	---	32	190	---	2	1,163	15	37	1,359	15
Rhode Island.....	---	---	---	1	5	---	---	15	1	1	20	1
South Carolina.....	---	4	---	23	102	---	---	175	3	23	281	3
South Dakota.....	---	5	---	---	18	---	---	38	---	---	61	---
Tennessee.....	---	4	---	19	139	---	2	342	5	21	485	5
Texas.....	2	55	---	120	476	6	7	951	12	129	1,482	18
Utah.....	---	---	---	11	59	2	1	99	---	12	158	2
Vermont.....	---	1	---	1	6	---	---	23	1	1	30	1
Virginia.....	2	6	---	21	165	1	---	579	4	23	750	5
Washington.....	1	5	---	24	160	7	1	370	17	26	535	24
West Virginia.....	---	2	---	12	75	---	1	323	1	13	400	1
Wisconsin.....	---	3	---	16	128	---	---	282	5	16	413	5
Wyoming.....	1	15	---	1	57	2	---	192	3	2	264	5
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	66	607	2	1,047	5,943	53	52	19,163	265	1,165	25,713	320

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

State	Trespassers			Total	Nontrespassers			Total	Total			
	Child	Adult	Unknown		Child	Adult	Unknown		Child	Adult	Unknown	
Alabama.....	---	5	---	5	---	11	1	12	---	16	1	17
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	---	5	2	7	1	2	1	4	1	7	3	11
Arkansas.....	---	6	---	4	7	21	4	32	7	25	4	36
California.....	2	39	4	45	---	6	3	9	2	45	7	54
Colorado.....	---	2	---	2	---	3	1	4	---	5	1	6
Connecticut.....	---	10	---	10	---	1	---	1	---	11	---	11
Delaware.....	---	4	---	4	---	---	1	1	---	4	1	5
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	---	35	2	37	---	4	1	5	---	39	3	42
Georgia.....	---	6	---	6	2	17	---	19	2	23	---	25
Idaho.....	---	3	---	3	---	3	---	3	---	6	---	6
Illinois.....	4	35	11	50	6	24	5	35	10	59	16	85
Indiana.....	1	24	2	27	1	29	5	35	2	53	7	62
Iowa.....	---	6	1	7	1	9	1	11	1	15	2	18
Kansas.....	---	3	2	5	5	16	6	27	5	19	8	32
Kentucky.....	---	8	---	8	---	12	1	13	---	20	1	21
Louisiana.....	1	2	---	3	3	8	---	11	4	10	---	14
Maine.....	---	3	---	3	---	1	---	1	---	4	---	4
Maryland.....	1	6	---	7	---	3	---	3	1	9	---	10
Massachusetts.....	---	14	3	17	---	---	---	---	---	14	3	17
Michigan.....	---	9	1	10	1	16	---	17	1	25	1	27
Minnesota.....	1	11	---	12	1	3	---	4	2	14	---	16
Mississippi.....	---	3	1	4	---	3	4	7	---	6	5	11
Missouri.....	---	6	1	7	---	9	---	9	---	15	1	16
Montana.....	---	4	---	4	---	6	---	6	---	10	---	10
Nebraska.....	1	3	---	4	4	13	---	17	5	16	---	21
Nevada.....	1	1	---	2	---	---	---	---	1	1	---	2
New Hampshire.....	---	1	---	1	---	---	---	---	---	1	---	1
New Jersey.....	1	10	1	12	---	3	---	3	1	13	1	15
New Mexico.....	2	3	2	7	---	---	4	4	2	3	6	11
New York.....	4	30	3	37	---	1	---	1	4	31	3	38
North Carolina.....	---	17	---	17	---	15	---	15	---	32	---	32
North Dakota.....	---	1	---	1	---	1	---	1	---	1	1	2
Ohio.....	2	19	2	23	2	46	1	49	4	65	3	72
Oklahoma.....	1	5	1	7	---	10	3	13	1	15	4	20
Oregon.....	---	4	---	4	---	5	---	5	---	9	---	9
Pennsylvania.....	2	18	1	21	2	9	1	12	4	27	2	33
Rhode Island.....	---	1	---	1	---	---	---	---	---	1	---	1
South Carolina.....	1	15	---	16	---	7	---	7	1	22	---	23
South Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	---	4	4	8	---	11	---	11	---	15	4	19
Texas.....	1	60	7	68	6	40	7	53	7	100	14	121
Utah.....	1	1	---	2	1	8	---	9	2	9	---	11
Vermont.....	---	1	---	1	---	---	---	---	---	1	---	1
Virginia.....	1	15	1	17	1	3	---	4	2	18	1	21
Washington.....	1	15	---	16	1	8	---	9	2	23	---	25
West Virginia.....	1	7	2	10	---	1	---	1	1	8	2	11
Wisconsin.....	---	4	1	5	---	9	1	10	---	13	2	15
Wyoming.....	---	1	---	1	---	---	---	---	---	1	---	1
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	30	483	55	568	45	396	52	493	75	879	107	1,061

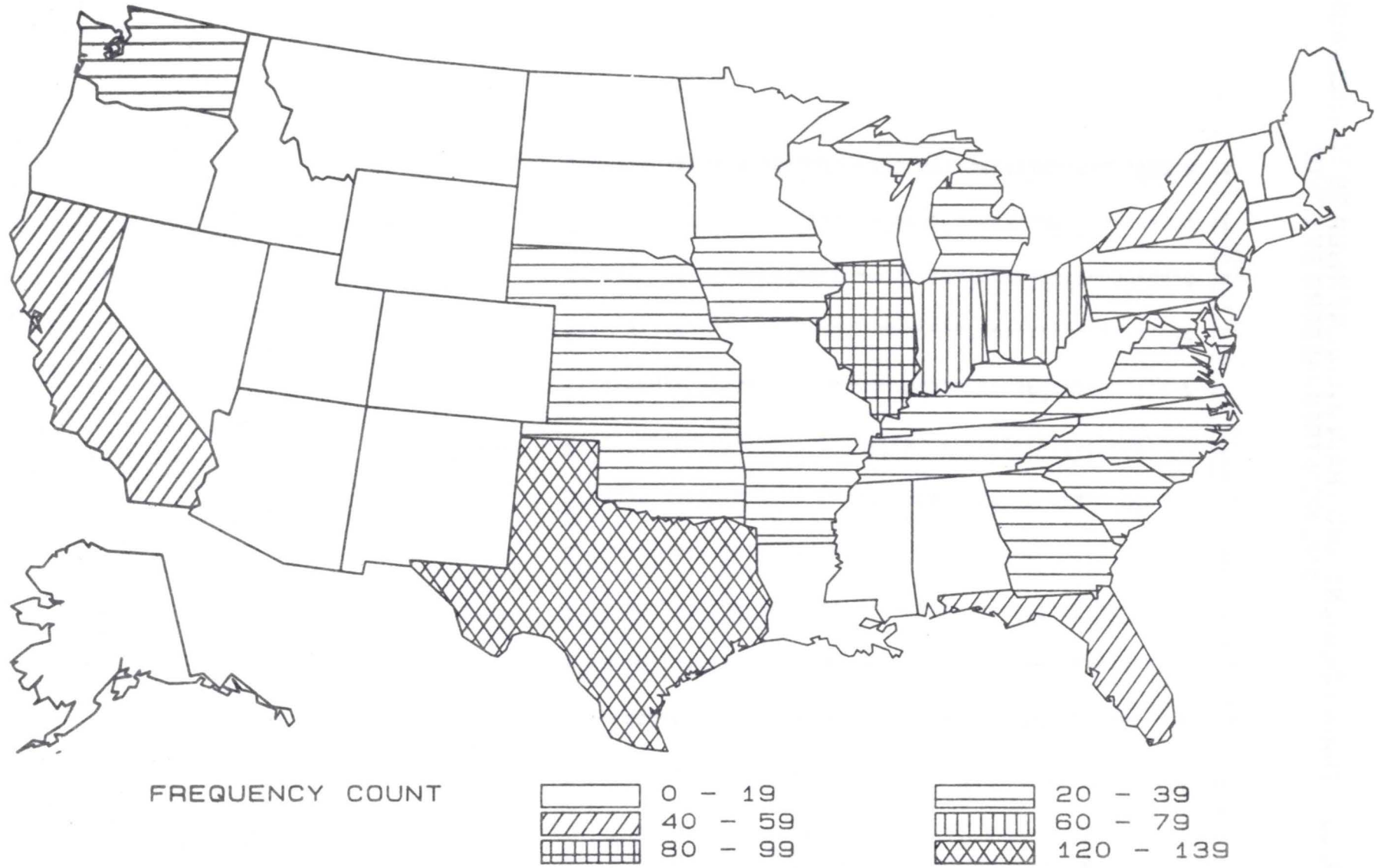


FIGURE 26. FATALITIES BY STATE

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	---	14	1	15	12	71	9	92	12	85	10	107
Alaska	---	---	---	---	---	4	---	4	---	4	---	4
Arizona	---	9	2	11	---	9	3	12	---	18	5	23
Arkansas	---	2	---	2	3	35	1	39	3	37	1	41
California	1	36	5	42	9	40	14	63	10	76	19	105
Colorado	---	2	1	3	---	10	5	15	---	12	6	18
Connecticut	---	15	---	15	---	---	2	2	---	15	2	17
Delaware	---	3	2	5	---	2	3	5	---	5	5	10
Dist of Columbia	---	---	---	---	---	2	---	2	---	2	---	2
Florida	1	40	---	41	---	40	---	40	1	80	---	81
Georgia	---	15	1	16	7	89	---	96	7	104	1	112
Idaho	---	---	---	---	1	11	---	12	1	11	---	12
Illinois	2	32	12	46	2	77	38	117	4	109	50	163
Indiana	4	43	6	53	12	85	9	106	16	128	15	159
Iowa	1	3	---	4	5	27	7	39	6	30	7	43
Kansas	1	5	1	7	4	21	13	38	5	26	14	45
Kentucky	3	7	---	10	5	51	10	66	8	58	10	76
Louisiana	---	5	2	7	8	48	33	89	8	53	35	96
Maine	---	---	---	---	---	2	---	2	---	2	---	2
Maryland	1	8	---	9	1	---	1	2	2	8	1	11
Massachusetts	3	8	---	11	---	3	---	3	3	11	---	14
Michigan	1	9	2	12	5	75	4	84	6	84	6	96
Minnesota	4	7	2	13	2	45	5	52	6	52	7	65
Mississippi	---	2	---	2	5	26	36	67	5	28	36	69
Missouri	---	3	---	3	5	56	9	70	5	59	9	73
Montana	---	4	---	4	5	3	---	8	5	7	---	12
Nebraska	---	5	1	6	1	31	---	32	1	36	1	38
Nevada	---	4	---	4	---	2	---	2	---	6	---	6
New Hampshire	---	---	---	---	---	1	---	1	---	1	---	1
New Jersey	1	14	2	17	3	8	2	13	4	22	4	30
New Mexico	1	3	---	4	1	---	5	6	2	3	5	10
New York	1	23	---	24	---	16	3	19	1	39	3	43
North Carolina	4	23	---	27	16	70	---	86	20	93	---	113
North Dakota	---	1	---	1	1	10	1	12	1	11	1	13
Ohio	1	23	3	27	6	105	2	113	7	128	5	140
Oklahoma	---	7	---	7	5	52	12	69	5	59	12	76
Oregon	1	6	---	7	---	14	---	14	1	20	---	21
Pennsylvania	2	3	5	10	3	22	---	27	5	25	7	37
Rhode Island	---	2	---	2	---	7	---	7	---	2	---	2
South Carolina	1	4	---	5	---	37	---	37	---	41	---	49
South Dakota	---	---	---	---	---	12	1	13	---	12	1	13
Tennessee	---	11	---	11	5	46	12	63	5	57	12	74
Texas	3	42	3	48	30	179	33	242	33	221	36	290
Utah	---	3	---	3	2	11	1	14	2	14	1	17
Vermont	---	1	---	1	---	---	2	2	---	1	2	3
Virginia	3	13	1	17	5	35	---	40	8	48	1	57
Washington	3	16	---	19	6	29	---	35	9	45	---	54
West Virginia	---	6	1	7	3	16	---	19	3	22	1	26
Wisconsin	3	6	2	11	---	55	6	61	3	61	8	72
Wyoming	---	---	---	---	---	2	---	2	---	2	---	2
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	46	488	55	589	185	1,583	286	2,054	231	2,071	341	2,643

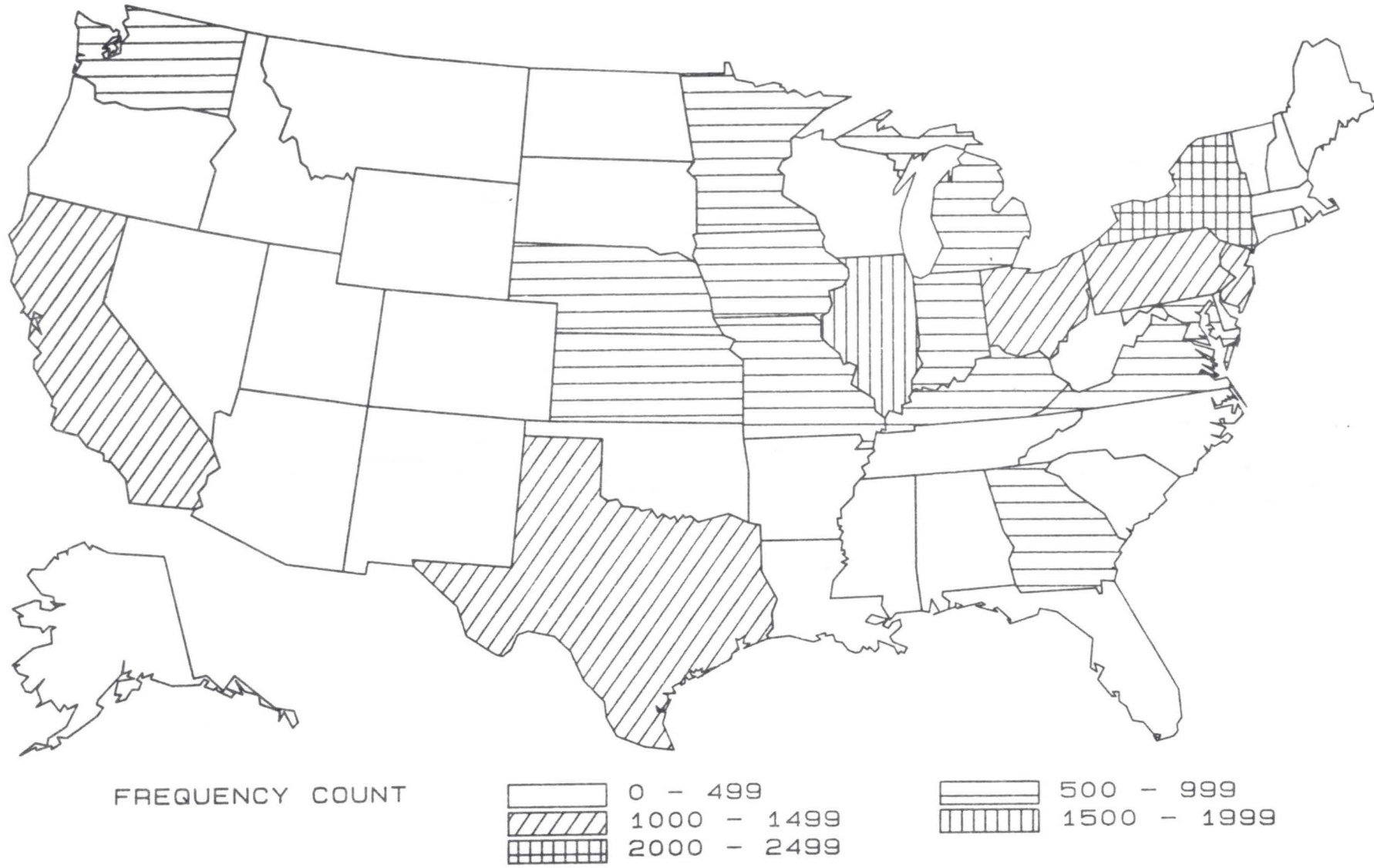


FIGURE 27. INJURIES BY STATE

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).....	29,067,510	3,274,218	281,940	32,623,668
Atchison, Topeka And Santa Fe Rwy Co.....	41,179,554	---	4,085,874	45,265,428
Boston And Maine Corporation.....	803,065	---	271,298	1,074,363
Burlington Northern Incorporated.....	70,167,237	2,919,018	13,070,721	86,156,976
Chicago And North Western.....	12,873,289	---	3,408,838	16,282,127
Consolidated Rail Corporation.....	34,932,212	---	10,836,522	45,768,734
CSX Transportation.....	56,933,460	135,711	16,347,195	73,436,366
Delaware And Hudson Railway.....	1,439,086	---	137,754	1,576,840
Denver And Rio Grande Western RR Co.....	5,167,915	---	626,140	5,774,055
Elgin, Joliet And Eastern Railway Co.....	410,650	---	1,131,358	1,542,008
Florida East Coast Railway Co.....	2,447,322	---	810,552	3,257,874
Grand Trunk Western Railroad Co.....	3,087,507	---	1,932,498	5,020,005
Illinois Central Gulf Railroad Co.....	6,313,060	359,297	2,173,932	8,846,289
Kansas City Southern Railway Co.....	9,518,672	---	1,075,711	10,594,383
Louisiana And Arkansas Rwy Company.....	3,921,701	---	1,733,923	4,655,624
Missouri-Kansas-Texas Railroad Co.....	3,009,209	---	1,034,708	4,043,917
Norfolk Southern Corporation.....	35,365,733	---	12,257,028	47,622,761
Soo Line Railroad Company.....	8,567,894	---	2,587,245	11,155,139
Southern Pacific Transportation Co.....	27,468,801	---	6,134,035	33,602,836
St. Louis Southwestern Railway Co.....	6,738,158	---	759,939	7,498,097
Union Pacific Railroad Co.....	57,752,413	---	8,695,660	66,448,073
Total Class I Railroads.....	417,164,448	6,688,244	88,392,871	512,245,563
CLASS II RAILROADS				
Bangor And Aroostook Railroad Co.....	382,039	---	68,020	450,059
Bessemer And Lake Erie Railroad Co.....	415,788	---	23,424	439,212
Canadian Pacific Lines In Maine.....	345,334	---	---	345,334
Central Vermont Railway Inc.....	256,765	---	54,096	310,861
Chicago And Illinois Midland Rwy Co.....	54,051	---	30,059	84,110
Chicago South Shore And South Bend RR.....	230,395	617,511	---	847,906
Duluth, Missabe And Iron Range Rwy Co.....	267,330	---	107,613	374,943
Duluth, Winnipeg And Pacific Rwy Co.....	396,495	---	145,200	541,695
Green Bay And Western Railroad.....	121,816	---	120,383	242,199
Maine Central Railroad Company.....	379,089	---	133,310	512,399
Michigan Interstate Railroad.....	---	---	33,948	33,948
Monogahela Railway.....	323,519	---	---	323,519
Northwestern Pacific Railroad.....	97,676	---	---	97,676
Oklahoma, Kansas Texas Railroad.....	379,704	---	72,908	452,612
Pittsburg And Lake Erie Railroad Co.....	171,829	---	127,254	299,083
Richmond, Frederickburg And Potomac.....	1,555,164	---	556,994	2,112,158
Spokane International Railroad.....	174,261	---	9,661	183,922
Texas And Northern Railway Company.....	12,653	---	11,280	23,933
Texas, Mexican Railway Company.....	130,485	---	109,227	239,712
Total Class II Railroads.....	5,694,393	617,511	1,603,377	7,915,281
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
Class I Railroads.....	417,164,448	6,688,244	88,392,871	512,245,563
Class II Railroads.....	5,694,393	617,511	1,603,377	7,915,281
Class III Railroads.....	22,423,315	26,770,851	11,958,545	61,152,711
Total All Railroads.....	445,282,156	34,076,606	101,954,793	581,313,555

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)....	4	---	2	1	7	11,983,700	11	4	12	1	28	3,214,562
Atchison, Topeka And Santa Fe Rwy Co...	15	2	1	3	21	1,482,339	22	23	36	7	88	5,140,788
Boston And Maine Corporation.....	4	1	---	---	5	310,357	---	---	3	1	4	179,500
Burlington Northern Incorporated.....	24	2	---	2	28	579,752	58	38	107	18	221	19,085,191
Chicago And North Western.....	16	---	---	1	17	1,333,180	41	15	70	21	147	5,914,282
Consolidated Rail Corporation.....	7	---	---	1	8	1,255,700	27	24	45	7	103	4,889,005
CSX Transportation.....	41	1	1	7	50	3,248,739	82	73	120	27	302	23,752,730
Delaware And Hudson Railway.....	---	1	1	1	3	31,500	1	3	10	3	17	1,319,923
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	1	---	1	---	2	45,752
Elgin, Joliet And Eastern Railway Co...	1	---	---	---	1	15,000	3	2	11	1	17	186,716
Florida East Coast Railway Co.....	1	---	---	---	1	379,892	---	1	1	---	2	85,271
Grand Trunk Western Railroad Co.....	---	---	---	---	---	---	9	4	10	---	23	1,863,247
Illinois Central Gulf Railroad Co.....	5	---	---	1	6	230,360	7	1	10	1	19	1,359,215
Kansas City Southern Railway Co.....	6	---	---	1	7	477,937	5	---	7	---	12	1,088,218
Louisiana And Arkansas Rwy Company....	---	---	---	---	---	---	1	1	2	---	4	131,843
Missouri-Kansas-Texas Railroad Co.....	4	---	1	---	5	47,950	10	6	18	2	36	1,668,201
Norfolk Southern Corporation.....	25	---	---	5	30	764,901	28	42	46	9	125	7,366,626
Soo Line Railroad Company.....	11	---	2	2	15	839,801	19	20	53	5	97	5,668,009
Southern Pacific Transportation Co.....	5	---	1	1	7	2,147,625	10	28	70	21	129	13,123,930
St. Louis Southwestern Railway Co.....	1	---	---	---	1	40,000	---	3	10	3	16	2,130,618
Union Pacific Railroad Co.....	34	1	3	3	41	2,705,777	77	45	75	18	215	13,028,023
Total Class I Railroads.....	204	8	12	29	253	27,874,510	412	333	717	145	1,607	111,241,650
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	189	8	11	28	236	27,874,510	380	316	677	136	1,509	111,241,650
Class II Railroads.....	7	---	2	---	9	264,584	9	7	28	3	47	3,680,979
Class III Railroads.....	33	4	1	4	42	862,675	60	33	187	23	303	10,760,522
Total All Railroads.....	229	12	14	32	287	29,001,769	449	356	892	162	1,859	125,683,151

TABLE 37. (CONTINUED)

Railroad	Accidents					Total Damages	Total		Total Damages
	Human	Equip	Track	Other	Total		Accs.	Rate*	
CLASS I RAILROADS									
Amtrak (National RR Passenger Corp)....	7	13	4	26	50	3,423,900	85	2.61	18,622,162
Atchison, Topeka And Santa Fe Rwy Co....	10	3	1	14	28	946,273	137	3.03	7,569,400
Boston And Maine Corporation.....	---	---	---	2	2	32,000	11	10.24	521,857
Burlington Northern Incorporated.....	9	3	2	33	47	2,712,543	296	3.44	22,377,486
Chicago And North Western.....	7	---	---	5	12	157,056	176	10.81	7,404,518
Consolidated Rail Corporation.....	14	1	---	7	22	476,198	133	2.91	6,620,903
CSX Transportation.....	15	5	---	38	58	2,365,296	410	5.58	29,366,765
Delaware And Hudson Railway.....	---	---	---	---	---	---	20	12.68	1,351,423
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	2	0.35	45,752
Elgin, Joliet And Eastern Railway Co....	3	---	---	1	4	51,995	22	14.27	253,711
Florida East Coast Railway Co.....	---	---	---	1	1	18,516	4	1.23	483,679
Grand Trunk Western Railroad Co.....	13	4	12	2	31	879,608	54	10.76	2,742,855
Illinois Central Gulf Railroad Co.....	5	2	---	8	15	780,975	40	4.52	2,370,550
Kansas City Southern Railway Co.....	4	---	1	---	5	39,191	24	2.27	1,605,346
Louisiana And Arkansas Rwy Company.....	3	---	---	---	3	83,100	7	1.50	214,943
Missouri-Kansas-Texas Railroad Co.....	3	---	---	2	5	111,673	46	11.38	1,827,824
Norfolk Southern Corporation.....	17	5	1	18	41	1,115,944	196	4.12	9,247,471
Soo Line Railroad Company.....	---	2	---	1	3	44,440	115	10.31	6,552,250
Southern Pacific Transportation Co.....	15	2	2	13	32	1,592,821	168	5.00	16,864,376
St. Louis Southwestern Railway Co.....	6	---	---	6	12	281,894	29	3.87	2,452,512
Union Pacific Railroad Co.....	24	---	2	15	41	2,094,325	297	4.47	17,828,125
Total Class I Railroads.....	155	40	25	192	412	17,207,748	2,272	4.44	156,323,908
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads.....	151	40	25	178	394	17,207,748	2,139	4.17	156,323,908
Class II Railroads.....	2	---	---	1	3	42,141	59	7.44	3,987,704
Class III Railroads.....	25	22	7	50	104	5,250,543	449	7.34	16,873,740
Total All Railroads.....	178	62	32	229	501	22,500,432	2,647	4.55	177,185,352

* 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 derails 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	Mont	Tres	Total	Eod	Enod	Psgr	Mont	Tres	Total
CLASS I RAILROADS												
Amtrak (National RR Passenger Corp)....	1	---	15	4	6	26	---	---	1	11	61	73
Atchison, Topeka And Santa Fe Rwy Co....	2	---	---	1	---	3	1	---	---	35	33	69
Boston And Maine Corporation.....	---	---	---	---	---	---	---	---	1	1	1	2
Burlington Northern Incorporated.....	1	---	---	4	1	6	1	---	---	56	47	104
Chicago And North Western.....	---	---	---	---	---	---	2	---	---	13	19	34
Consolidated Rail Corporation.....	---	---	---	---	---	---	2	---	---	53	56	111
CSX Transportation.....	5	---	---	1	---	6	5	---	---	63	71	139
Delaware And Hudson Railway.....	---	---	---	---	---	---	---	---	---	---	1	1
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	---	---	2	---	---	2
Elgin, Joliet And Eastern Railway Co....	---	---	---	---	---	---	---	---	3	---	---	3
Florida East Coast Railway Co.....	2	---	---	---	---	2	---	---	1	22	23	23
Grand Trunk Western Railroad Co.....	---	---	---	---	---	---	---	---	11	2	13	13
Illinois Central Gulf Railroad Co.....	---	---	---	1	---	1	---	---	4	8	12	12
Kansas City Southern Railway Co.....	---	---	---	---	---	---	---	---	2	---	---	2
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	---	---	3	1	4	4
Missouri-Kansas-Texas Railroad Co.....	---	---	---	---	---	---	---	---	5	3	8	8
Norfolk Southern Corporation.....	2	---	---	1	---	3	2	---	66	56	124	124
See Line Railroad Company.....	---	---	---	---	---	---	---	---	17	7	24	24
Southern Pacific Transportation Co.....	2	---	---	2	2	6	---	---	19	51	70	70
St. Louis Southwestern Railway Co.....	1	---	---	1	---	2	---	---	16	6	22	22
Union Pacific Railroad Co.....	1	---	---	1	---	2	1	---	82	54	137	137
Total Class I Railroads.....	17	---	15	16	9	57	14	---	1	463	499	977
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	17	---	15	16	9	57	14	---	1	463	499	977
Class II Railroads.....	1	---	---	---	---	1	---	---	3	4	7	7
Class III Railroads.....	---	---	---	2	6	8	4	---	9	50	63	63
Total All Railroads.....	18	---	15	18	15	66	18	---	1	475	553	1,047

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 MONT = Nontraveller
 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)....	2	---	---	---	---	2	3	---	16	15	67	101
Atchison, Topeka And Santa Fe Rwy Co....	2	---	---	---	4	6	5	---	---	36	37	78
Boston And Maine Corporation.....	---	---	---	---	---	---	---	---	---	1	1	2
Burlington Northern Incorporated.....	1	---	---	3	---	4	3	---	---	63	48	114
Chicago And North Western.....	---	---	---	---	---	---	2	---	---	13	19	34
Consolidated Rail Corporation.....	1	---	---	1	2	4	3	---	---	54	58	115
CSX Transportation.....	1	---	---	3	2	6	11	---	---	67	73	151
Delaware And Hudson Railway.....	---	---	---	---	---	---	---	---	---	---	1	1
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	---	---	---	2	---	2
Elgin, Joliet And Eastern Railway Co....	---	---	---	---	---	---	---	---	---	3	---	3
Florida East Coast Railway Co.....	---	---	---	---	---	---	2	---	---	1	22	25
Grand Trunk Western Railroad Co.....	1	---	---	2	---	3	1	---	---	13	2	16
Illinois Central Gulf Railroad Co.....	---	---	---	---	1	1	---	---	---	5	9	14
Kansas City Southern Railway Co.....	---	---	---	1	---	1	---	---	---	3	---	3
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	---	---	---	3	1	4
Missouri-Kansas-Texas Railroad Co.....	---	---	---	---	---	---	---	---	---	5	3	8
Norfolk Southern Corporation.....	3	1	---	---	---	4	7	1	---	67	56	131
Soo Line Railroad Company.....	---	---	---	---	---	---	---	---	---	17	7	24
Southern Pacific Transportation Co.....	4	---	---	---	1	5	6	---	---	21	54	81
St. Louis Southwestern Railway Co.....	---	---	---	---	---	---	1	---	---	17	6	24
Union Pacific Railroad Co.....	---	---	---	1	3	4	2	---	---	84	57	143
Total Class I Railroads.....	15	1	---	11	13	40	46	1	16	490	521	1,074
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	15	1	---	11	13	40	46	1	16	490	521	1,074
Class II Railroads.....	---	---	---	---	---	---	1	---	---	3	4	8
Class III Railroads.....	4	---	---	5	3	12	8	---	---	16	59	83
Total All Railroads.....	19	1	---	16	16	52	55	1	16	509	584	1,165

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)....	53	---	190	---	3	246	248	2	35	7	27	319
Atchison, Topeka And Santa Fe Rwy Co...	13	5	---	5	---	23	126	1	---	112	28	267
Boston And Maine Corporation.....	5	---	---	---	---	5	7	---	---	---	2	9
Burlington Northern Incorporated.....	44	---	---	12	1	57	504	1	---	194	40	739
Chicago And North Western.....	5	---	---	---	---	5	39	---	---	57	22	118
Consolidated Rail Corporation.....	18	2	---	1	---	21	220	---	---	112	75	407
CSX Transportation.....	41	---	---	6	1	48	441	---	1	344	90	876
Delaware And Hudson Railway.....	---	---	---	---	---	---	6	---	---	2	1	9
Denver And Rio Grande Western RR Co...	---	---	---	---	---	---	20	---	---	6	---	26
Elgin, Joliet And Eastern Railway Co...	2	---	---	---	---	2	12	---	---	2	2	16
Florida East Coast Railway Co.....	---	---	---	---	---	---	3	---	---	1	28	32
Grand Trunk Western Railroad Co.....	3	---	---	1	---	4	52	---	---	32	---	84
Illinois Central Gulf Railroad Co.....	9	---	---	2	---	11	89	---	---	90	7	186
Kansas City Southern Railway Co.....	---	---	---	---	---	---	26	---	---	15	---	41
Louisiana And Arkansas Rwy Company.....	2	---	---	---	---	2	16	---	---	12	---	28
Missouri-Kansas-Texas Railroad Co.....	12	---	---	---	---	2	10	---	---	31	8	49
Norfolk Southern Corporation.....	5	---	---	5	---	17	241	1	---	371	72	685
Soo Line Railroad Company.....	5	---	---	1	---	6	89	---	---	72	10	171
Southern Pacific Transportation Co.....	25	---	---	3	1	29	138	1	---	98	55	292
St. Louis Southwestern Railway Co.....	4	---	---	1	---	5	13	---	---	13	1	27
Union Pacific Railroad Co.....	45	---	---	26	---	71	473	---	---	209	44	726
Total Class I Railroads.....	286	7	190	63	6	552	2,773	6	36	1,780	512	5,107
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	286	7	190	63	6	552	2,773	6	36	1,780	512	5,107
Class II Railroads.....	1	---	2	---	---	3	69	---	1	33	3	106
Class III Railroads.....	19	---	22	6	7	54	473	3	74	172	61	783
Total All Railroads.....	306	7	214	69	13	609	3,315	9	111	1,985	576	5,996

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)...	1,396	60	25	23	3	1,507	1,697	62	250	30	33	2,072
Atchison, Topeka And Santa Fe Rwy Co.	966	18	---	12	11	1,007	1,105	24	---	129	39	1,297
Boston And Maine Corporation.....	61	---	---	---	---	61	73	---	---	---	2	75
Burlington Northern Incorporated.....	2,141	33	---	18	10	2,202	2,689	34	---	224	51	2,998
Chicago And North Western.....	409	8	---	10	4	431	453	8	---	67	26	554
Consolidated Rail Corporation.....	1,657	62	---	6	5	1,730	1,895	64	---	119	80	2,158
CSX Transportation.....	2,344	47	2	15	6	2,414	2,826	47	3	365	97	3,338
Delaware And Hudson Railway.....	84	1	---	---	---	85	90	1	---	2	1	94
Denver And Rio Grande Western RR Co..	63	2	---	---	---	65	83	2	---	6	---	91
Elgin, Joliet And Eastern Railway Co.	45	---	---	---	---	45	59	---	---	2	2	63
Florida East Coast Railway Co.....	4	---	---	---	---	4	7	---	---	1	28	36
Grand Trunk Western Railroad Co.....	241	---	---	2	---	243	296	---	---	35	---	331
Illinois Central Gulf Railroad Co.....	346	2	5	8	2	363	444	2	5	100	9	560
Kansas City Southern Railway Co.....	90	---	---	---	---	90	116	---	---	15	---	131
Louisiana And Arkansas Rwy Company...	30	---	---	1	---	31	46	---	---	13	---	59
Missouri-Kansas-Texas Railroad Co....	72	---	---	15	2	89	84	---	---	46	10	140
Norfolk Southern Corporation.....	1,600	50	4	106	9	1,769	1,853	51	4	482	81	2,471
Soo Line Railroad Company.....	336	2	---	3	2	343	430	2	---	76	12	520
Southern Pacific Transportation Co....	740	11	8	6	4	769	903	12	8	107	60	1,090
St. Louis Southwestern Railway Co....	83	1	---	---	---	84	100	1	---	14	1	116
Union Pacific Railroad Co.....	1,729	37	---	17	4	1,787	2,247	37	---	252	48	2,584
Total Class I Railroads.....	14,437	334	44	242	62	15,119	17,496	347	270	2,085	580	20,778
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	14,437	334	44	242	62	15,119	17,496	347	270	2,085	580	20,778
Class II Railroads.....	503	1	1	9	---	514	573	1	4	42	3	623
Class III Railroads.....	3,421	45	105	202	22	3,795	3,913	48	201	380	90	4,632
Total All Railroads.....	18,361	380	150	453	84	19,428	21,982	396	475	2,507	673	26,033

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).....	---	3	---	---	---	3	17	33	18	12	15	95
Atchison, Topeka And Santa Fe Rwy Co....	---	3	2	---	---	5	18	47	26	10	15	116
Boston And Maine Corporation.....	---	---	---	---	---	---	---	1	1	1	1	4
Burlington Northern Incorporated.....	---	5	---	1	---	6	27	48	53	24	28	180
Chicago And North Western.....	---	---	---	---	---	---	7	21	11	7	9	55
Consolidated Rail Corporation.....	---	4	---	2	---	6	28	65	34	10	36	173
CSX Transportation.....	1	5	1	1	---	8	55	55	59	15	40	224
Delaware And Hudson Railway.....	---	---	---	---	---	---	1	3	---	---	1	5
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	1	2	2	---	3	8
Elgin, Joliet And Eastern Railway Co....	---	---	---	---	---	---	3	---	1	---	---	4
Florida East Coast Railway Co.....	---	---	---	---	---	---	---	---	1	---	---	1
Grand Trunk Western Railroad Co.....	---	---	---	---	---	---	---	3	3	3	3	12
Illinois Central Gulf Railroad Co.....	---	2	---	---	---	2	7	11	16	6	3	43
Kansas City Southern Railway Co.....	---	---	---	---	---	---	2	---	1	---	---	3
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	1	---	---	---	---	1
Missouri-Kansas-Texas Railroad Co.....	---	---	---	---	---	---	1	4	1	1	---	7
Norfolk Southern Corporation.....	---	6	1	1	---	8	14	54	40	11	24	143
Soo Line Railroad Company.....	---	1	---	---	---	1	5	9	4	4	9	31
Southern Pacific Transportation Co.....	---	---	1	---	---	1	17	32	18	10	9	86
St. Louis Southwestern Railway Co.....	---	2	---	---	---	2	1	2	3	---	---	6
Union Pacific Railroad Co.....	1	4	---	1	---	6	29	51	29	16	39	164
Total Class I Railroads.....	2	35	5	6	---	48	234	441	321	130	235	1,361
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	2	35	5	6	---	48	234	441	321	130	235	1,361
Class II Railroads.....	---	1	---	1	---	2	7	10	5	1	7	30
Class III Railroads.....	---	5	1	1	---	7	39	71	52	28	27	217
Total All Railroads.....	2	41	6	8	---	57	280	522	378	159	269	1,608

TABLE 40. (CONTINUED)

Railroad	Other Injuries							Other	Total	Total
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye			
CLASS I RAILROADS										
Amtrak (National RR Passenger Corp)....	372	660	217	10	30	8	59	224	1,580	1,678
Atchison, Topeka And Santa Fe Rwy Co...	184	477	134	6	19	7	70	82	979	1,100
Boston And Maine Corporation.....	8	34	8	1	4	1	5	8	69	73
Burlington Northern Incorporated.....	373	1,413	317	1	31	9	145	132	2,421	2,607
Chicago And North Western.....	40	235	46	1	4	2	32	35	395	450
Consolidated Rail Corporation.....	289	840	235	4	18	10	133	143	1,672	1,851
CSX Transportation.....	450	1,326	344	8	41	20	160	231	2,580	2,812
Delaware And Hudson Railway.....	16	35	12	---	2	---	5	14	84	89
Denver And Rio Grande Western RR Co...	14	36	13	---	---	1	2	8	74	82
Elgin, Joliet And Eastern Railway Co...	10	28	11	---	1	---	3	2	55	59
Florida East Coast Railway Co.....	---	3	2	1	---	---	---	---	6	7
Grand Trunk Western Railroad Co.....	51	166	43	---	2	---	13	9	284	296
Illinois Central Gulf Railroad Co.....	94	185	54	2	5	3	18	26	387	432
Kansas City Southern Railway Co.....	21	57	9	2	2	3	7	11	112	115
Louisiana And Arkansas Rwy Company.....	8	23	5	---	---	---	4	2	42	43
Missouri-Kansas-Texas Railroad Co.....	15	26	23	---	---	1	5	7	77	84
Norfolk Southern Corporation.....	317	874	316	4	26	19	29	104	1,689	1,840
Soo Line Railroad Company.....	58	239	47	1	3	7	15	23	393	425
Southern Pacific Transportation Co.....	157	395	132	3	11	3	50	50	801	888
St. Louis Southwestern Railway Co.....	19	47	15	---	1	1	3	6	92	100
Union Pacific Railroad Co.....	339	1,106	254	4	21	14	113	189	2,040	2,210
Total Class I Railroads.....	2,835	8,205	2,237	48	221	109	871	1,306	15,832	17,241
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads.....	2,835	8,205	2,237	48	221	109	871	1,306	15,832	17,241
Class II Railroads.....	97	257	63	1	11	4	61	43	537	569
Class III Railroads.....	738	1,606	530	63	89	38	291	279	3,634	3,858
Total All Railroads.....	3,670	10,068	2,830	112	321	151	1,223	1,628	20,003	21,668

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)....	16	188	---	42	10	16	26	246	8.33	32,623,668
Atchison, Topeka And Santa Fe Rwy Co...	2	4	---	3	1	16	3	23	0.57	45,265,428
Boston And Maine Corporation.....	---	4	---	1	---	---	---	5	4.65	1,074,363
Burlington Northern Incorporated.....	1	7	1	18	4	32	6	57	0.73	86,156,976
Chicago And North Western.....	---	4	---	1	---	---	---	5	0.30	16,282,127
Consolidated Rail Corporation.....	---	5	---	7	---	9	---	21	0.45	45,768,734
CSX Transportation.....	4	18	1	10	1	20	6	48	0.73	73,436,366
Delaware And Hudson Railway.....	---	---	---	---	---	---	---	---	0.00	1,576,840
Denver And Rio Grande Western RR Co...	---	---	---	---	---	---	---	---	0.00	5,774,055
Elgin, Joliet And Eastern Railway Co...	---	---	---	2	---	---	---	2	1.29	1,542,008
Florida East Coast Railway Co.....	2	---	---	---	---	---	2	---	0.61	3,257,874
Grand Trunk Western Railroad Co.....	---	---	---	---	---	4	---	4	0.79	5,020,005
Illinois Central Gulf Railroad Co.....	---	---	---	2	1	9	1	11	1.35	8,846,289
Kansas City Southern Railway Co.....	---	---	---	---	---	---	---	---	0.00	10,594,383
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	---	---	0.00	4,655,624
Missouri-Kansas-Texas Railroad Co.....	---	---	---	1	---	1	---	2	0.49	4,043,917
Norfolk Southern Corporation.....	---	4	---	3	3	10	3	17	0.41	47,622,761
Soo Line Railroad Company.....	---	3	---	2	---	1	---	6	0.53	11,155,139
Southern Pacific Transportation Co.....	1	11	---	13	5	5	6	29	1.04	33,602,836
St. Louis Southwestern Railway Co.....	---	---	---	---	2	5	---	5	0.93	7,498,097
Union Pacific Railroad Co.....	1	21	---	14	1	36	2	71	1.09	66,448,073
Total Class I Railroads.....	27	269	2	119	28	164	57	552	1.18	512,245,563
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads.....	27	269	2	119	28	164	57	552	1.18	512,245,563
Class II Railroads.....	1	2	---	---	---	1	1	3	0.50	7,915,281
Class III Railroads.....	---	16	---	5	8	33	8	54	1.01	61,152,711
Total All Railroads.....	28	287	2	124	36	198	66	609	1.16	581,313,555

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)....	---	173	3	1	373	10	---	501	1
Atchison, Topeka And Santa Fe Rwy Co....	---	37	---	3	416	2	2	291	2
Boston And Maine Corporation.....	---	4	---	---	21	---	---	18	---
Burlington Northern Incorporated.....	---	69	1	---	772	22	---	547	21
Chicago And North Western.....	1	17	---	---	136	1	---	116	1
Consolidated Rail Corporation.....	---	139	3	1	572	16	---	425	7
CSX Transportation.....	---	106	1	2	830	2	1	625	7
Delaware And Hudson Railway.....	---	2	---	---	44	1	---	18	---
Denver And Rio Grande Western RR Co....	---	---	---	---	27	---	---	14	---
Elgin, Joliet And Eastern Railway Co....	---	9	---	---	16	---	---	8	---
Florida East Coast Railway Co.....	---	---	---	---	---	---	---	2	---
Grand Trunk Western Railroad Co.....	---	10	---	---	20	---	1	122	---
Illinois Central Gulf Railroad Co.....	---	10	---	---	144	6	---	93	2
Kansas City Southern Railway Co.....	---	---	1	---	37	---	---	39	---
Louisiana And Arkansas Rwy Company.....	---	---	---	---	18	---	---	3	---
Missouri-Kansas-Texas Railroad Co.....	---	3	---	---	34	---	---	20	---
Norfolk Southern Corporation.....	1	88	---	1	581	8	1	530	1
Soo Line Railroad Company.....	---	13	---	---	133	4	---	58	1
Southern Pacific Transportation Co.....	2	83	2	2	269	8	---	210	1
St. Louis Southwestern Railway Co.....	---	11	---	1	29	---	---	24	---
Union Pacific Railroad Co.....	---	101	2	1	678	8	---	402	8
Total Class I Railroads.....	4	875	13	12	5,150	88	5	4,066	52
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads.....	4	875	13	12	5,150	88	5	4,066	52
Class II Railroads.....	---	19	---	---	208	---	---	179	1
Class III Railroads.....	---	233	6	5	1,311	30	1	1,029	7
Total All Railroads.....	4	1,127	19	17	6,669	118	6	5,274	60

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)....	---	397	1	2	234	4
Atchison, Topeka And Santa Fe Rwy Co...	---	13	---	---	343	1
Boston And Maine Corporation.....	---	---	---	---	30	---
Burlington Northern Incorporated.....	---	32	1	3	1,187	37
Chicago And North Western.....	---	17	---	1	164	1
Consolidated Rail Corporation.....	---	75	---	2	640	18
CSX Transportation.....	1	64	1	7	1,187	3
Delaware And Hudson Railway.....	---	1	---	---	24	---
Denver And Rio Grande Western RR Co...	---	---	---	---	41	1
Elgin, Joliet And Eastern Railway Co...	---	3	---	---	23	---
Florida East Coast Railway Co.....	---	---	---	2	5	---
Grand Trunk Western Railroad Co.....	---	4	---	---	140	---
Illinois Central Gulf Railroad Co.....	---	4	---	---	181	4
Kansas City Southern Railway Co.....	---	---	---	---	39	---
Louisiana And Arkansas Rwy Company....	---	2	---	---	20	3
Missouri-Kansas-Texas Railroad Co.....	---	1	---	---	26	---
Norfolk Southern Corporation.....	---	25	---	4	616	4
Seo Line Railroad Company.....	---	8	---	---	213	---
Southern Pacific Transportation Co.....	1	7	---	1	319	4
St. Louis Southwestern Railway Co.....	---	---	---	---	36	---
Union Pacific Railroad Co.....	---	13	---	1	1,016	19
Total Class I Railroads.....	2	666	3	23	6,484	99
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)						
Class I Railroads.....	2	666	3	23	6,484	99
Class II Railroads.....	---	6	---	1	157	3
Class III Railroads.....	---	106	3	2	1,179	9
Total All Railroads.....	2	778	6	26	7,820	111

TABLE 43. CASUALTY RATES FOR EMPLOYEES ON DUTY BY RAILROAD

Railroad	Fatalities		Injuries		Illnesses		...Total...		Employee Manhours
	#	Rate	#	Rate	#	Rate	#	Rate	
Amtrak (National RR Passenger Corp)....	3	0.01	1,678	7.50	19	0.08	1,700	7.60	44,728,557
Atchison, Topeka And Santa Fe Rwy Co...	5	0.03	1,100	5.64	5	0.03	1,110	5.69	38,999,026
Boston And Maine Corporation.....	---	0.00	73	8.71	---	0.00	73	8.72	1,675,260
Burlington Northern Incorporated.....	3	0.01	2,607	8.38	82	0.26	2,692	8.66	62,203,470
Chicago And North Western.....	2	0.02	450	4.99	3	0.03	455	5.05	18,033,226
Consolidated Rail Corporation.....	3	0.01	1,851	6.14	44	0.15	1,898	6.29	60,322,041
CSX Transportation.....	11	0.02	2,812	6.28	14	0.03	2,837	6.34	89,496,369
Delaware And Hudson Railway.....	---	0.00	89	10.07	1	0.11	90	10.18	1,768,265
Denver And Rio Grande Western RR Co...	---	0.00	82	3.61	1	0.04	83	3.66	4,540,934
Elgin, Joliet And Eastern Railway Co...	---	0.00	59	5.47	---	0.00	59	5.47	2,156,147
Florida East Coast Railway Co.....	2	0.17	7	0.60	---	0.00	9	0.78	2,320,332
Grand Trunk Western Railroad Co.....	1	0.02	296	6.63	---	0.00	297	6.65	8,932,532
Illinois Central Gulf Railroad Co.....	---	0.00	432	8.02	12	0.22	444	8.24	10,772,335
Kansas City Southern Railway Co.....	---	0.00	115	10.36	1	0.09	116	10.45	2,219,925
Louisiana And Arkansas Rwy Company....	---	0.00	43	4.30	3	0.30	46	4.59	2,002,284
Missouri-Kansas-Texas Railroad Co.....	---	0.00	84	3.91	---	0.00	84	3.91	4,294,298
Norfolk Southern Corporation.....	7	0.02	1,840	6.07	13	0.04	1,860	6.14	60,606,826
Soo Line Railroad Company.....	---	0.00	425	6.26	5	0.07	430	6.33	13,585,108
Southern Pacific Transportation Co.....	6	0.03	888	4.26	15	0.07	909	4.36	41,722,139
St. Louis Southwestern Railway Co.....	1	0.03	100	3.33	---	0.00	101	3.36	6,003,900
Union Pacific Railroad Co.....	2	0.01	2,210	7.33	37	0.12	2,249	7.46	60,331,189
Total Class I Railroads.....	46	0.02	17,241	6.42	255	0.10	17,542	6.54	536,714,163
Class I Railroads.....	46	0.02	17,241	6.42	255	0.10	17,542	6.54	536,714,163
Class II Railroads.....	1	0.02	569	10.90	4	0.08	574	11.00	10,437,408
Class III Railroads.....	8	0.02	3,858	10.74	55	0.15	3,921	10.92	71,840,885
Total All Railroads.....	55	0.02	21,668	7.00	314	0.10	22,037	7.12	618,992,456

"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	Restricted Cases	Or Days Of Restricted Days Away From Work	Restriction Days Of Restriction	Other Cases
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp)....	1,678	1,315	1,176	139	10,128	1,831	363
Atchison, Topeka And Santa Fe Rwy Co....	1,100	735	537	198	8,370	4,246	365
Boston And Maine Corporation.....	73	62	46	16	589	168	11
Burlington Northern Incorporated.....	2,607	1,912	1,870	42	30,137	930	695
Chicago And North Western.....	450	319	301	18	6,850	212	131
Consolidated Rail Corporation.....	1,851	1,352	1,222	130	40,978	2,489	499
CSX Transportation.....	2,812	2,247	2,211	36	29,509	805	565
Delaware And Hudson Railway.....	89	67	37	30	1,029	282	22
Denver And Rio Grande Western RR Co....	82	63	51	12	1,106	448	19
Elgin, Joliet And Eastern Railway Co....	59	26	22	4	310	22	33
Florida East Coast Railway Co.....	7	5	1	4	1	176	2
Grand Trunk Western Railroad Co.....	296	236	160	76	3,706	859	60
Illinois Central Gulf Railroad Co.....	432	295	196	99	4,524	2,106	137
Kansas City Southern Railway Co.....	115	96	96	---	1,927	---	19
Louisiana And Arkansas Rwy Company....	43	42	42	---	575	9	1
Missouri-Kansas-Texas Railroad Co.....	84	54	50	4	708	63	30
Norfolk Southern Corporation.....	1,840	1,318	1,092	226	17,436	1,836	522
Seo Line Railroad Company.....	425	333	298	35	5,516	562	92
Southern Pacific Transportation Co.....	888	616	462	154	11,157	1,746	272
St. Louis Southwestern Railway Co.....	100	61	50	11	1,117	115	39
Union Pacific Railroad Co.....	2,210	1,624	980	644	15,445	7,029	586
Total Class I Railroads.....	17,241	12,778	10,900	1,878	191,118	25,934	4,463
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.....	34	23	23	---	361	---	11
Bessemer And Lake Erie Railroad Co.....	17	3	3	---	19	---	14
Canadian Pacific Lines In Maine.....	9	1	1	---	60	---	8
Central Vermont Railway Inc.....	14	11	10	1	158	2	3
Chicago And Illinois Midland Rwy Co....	38	20	20	---	234	---	18
Chicago South Shore And South Bend RR..	47	25	25	---	199	---	22
Duluth, Missabe And Iron Range Rwy Co..	68	31	15	16	133	409	37
Duluth, Winnipeg And Pacific Rwy Co....	5	5	4	1	28	40	---
Green Bay And Western Railroad.....	7	7	7	---	176	---	---
Maine Central Railroad Company.....	36	32	30	2	781	19	4
Michigan Interstate Railroad.....	9	5	5	---	44	---	4
Monogahela Railway.....	29	22	22	---	225	---	7
Northwestern Pacific Railroad.....	4	2	2	---	45	---	2
Oklahoma, Kansas Texas Railroad.....	9	8	8	---	118	---	1
Pittsburg And Lake Erie Railroad Co....	94	34	32	2	1,019	13	60
Richmond, Frederickburg And Potomac....	80	75	74	1	535	3	5
Spokane International Railroad.....	4	1	---	1	---	8	3
Texas And Northern Railway Company....	2	1	---	1	---	15	1
Texas, Mexican Railway Company.....	63	55	53	2	750	8	8
Total Class II Railroads.....	569	361	334	27	4,885	517	208
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads.....	17,241	12,778	10,900	1,878	191,118	25,934	4,463
Class II Railroads.....	569	361	334	27	4,885	517	208
Class III Railroads.....	3,858	2,974	2,675	299	41,087	4,528	884
Total All Railroads.....	21,668	16,113	13,909	2,204	237,090	30,979	5,555

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

Railroad	Total Cases	Fatalities	Total Injuries	Injuries Reported From Work	Reported For Restricted Activity	Following Medication	Reasons. Medical Treatment	Occupational Illness
CLASS I RAILROADS								
Amtrak (National RR Passenger Corp)....	1,700	3	1,678	1,176	139	129	234	19
Atchison, Topeka And Santa Fe Rwy Co...	1,110	5	1,100	537	198	124	241	5
Boston And Maine Corporation.....	73	---	73	46	16	5	6	---
Burlington Northern Incorporated.....	2,692	3	2,607	1,870	42	203	492	82
Chicago And North Western.....	455	2	450	301	18	71	60	3
Consolidated Rail Corporation.....	1,898	3	1,851	1,222	130	151	348	44
CSX Transportation.....	2,837	11	2,812	2,211	36	165	400	14
Delaware And Hudson Railway.....	90	---	89	37	30	3	19	1
Denver And Rio Grande Western RR Co...	83	---	82	51	12	1	18	1
Elgin, Joliet And Eastern Railway Co...	59	---	59	22	4	---	33	---
Florida East Coast Railway Co.....	9	2	7	1	4	---	2	---
Grand Trunk Western Railroad Co.....	297	1	296	160	76	---	60	---
Illinois Central Gulf Railroad Co.....	444	---	432	196	99	---	137	12
Kansas City Southern Railway Co.....	116	---	115	96	---	---	19	1
Louisiana And Arkansas Rwy Company....	46	---	43	42	---	---	1	3
Missouri-Kansas-Texas Railroad Co.....	84	---	84	50	4	8	22	---
Norfolk Southern Corporation.....	1,860	7	1,840	1,092	226	14	508	13
Soo Line Railroad Company.....	430	---	425	298	35	14	78	5
Southern Pacific Transportation Co.....	909	6	888	462	154	---	272	15
St. Louis Southwestern Railway Co.....	101	1	100	50	11	---	39	---
Union Pacific Railroad Co.....	2,249	2	2,210	980	644	197	389	37
Total Class I Railroads.....	17,542	46	17,241	10,900	1,878	1,085	3,378	255
RECAPITULATION								
Class I Railroads.....	17,542	46	17,241	10,900	1,878	1,085	3,378	255
Class II Railroads.....	574	1	569	334	27	101	107	4
Class III Railroads.....	3,921	8	3,858	2,675	299	153	731	55
Total All Railroads.....	22,037	55	21,668	13,909	2,204	1,339	4,216	314

7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

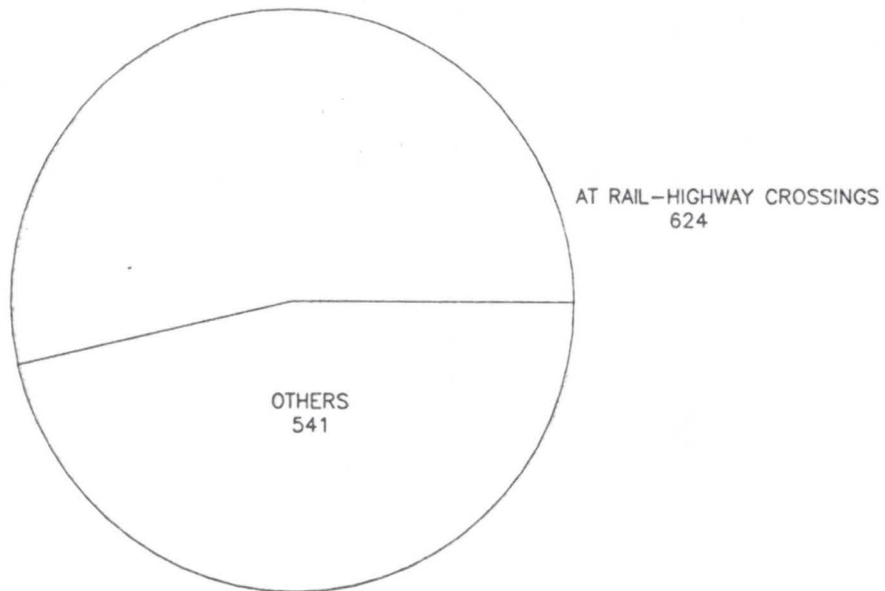


FIGURE 28. FATALITIES: RAIL-HIGHWAY CROSSINGS AND OTHER

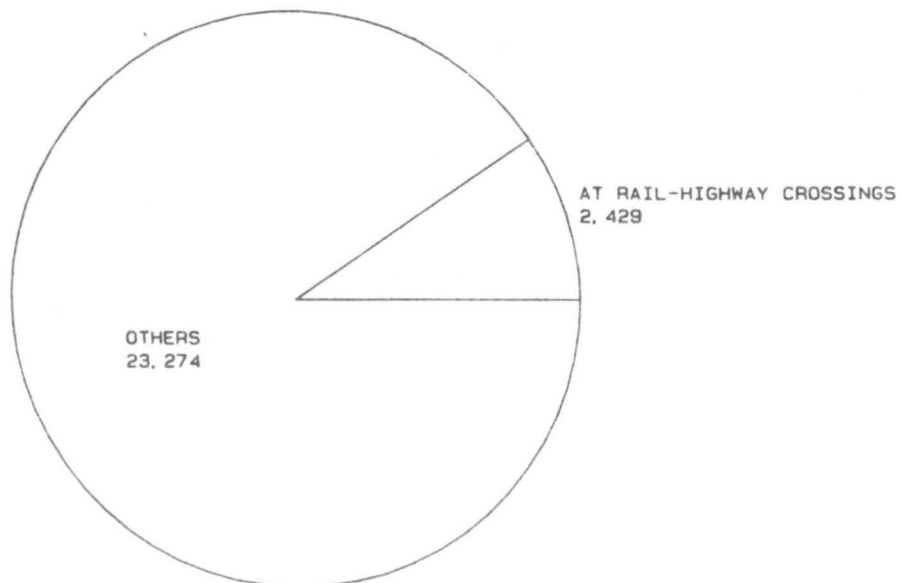


FIGURE 29. INJURIES: RAIL-HIGHWAY CROSSINGS AND OTHER

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.....	115	14	33	10	5	15	---	15	---	3
Class II Railroads.....	2	1	1	1	---	1	---	---	---	---
Class III Railroads.....	13	2	2	---	---	---	---	---	1	1
Total All Railroads.....	130	17	36	11	5	16	---	15	1	4
TRAIN INCIDENTS										
Class I Railroads.....	3,437	386	421	9	5	14	---	1	12	394
Class II Railroads.....	77	3	3	---	---	---	---	---	---	3
Class III Railroads.....	622	42	42	2	2	4	---	---	1	37
Total All Railroads.....	4,136	431	466	11	7	18	---	1	13	434
NONTRAIN INCIDENTS										
Class I Railroads.....	14,925	31	32	2	13	15	1	---	3	13
Class II Railroads.....	514	---	---	---	---	---	---	---	---	---
Class III Railroads.....	3,781	7	7	---	4	4	---	---	1	2
Total All Railroads.....	19,220	38	39	2	17	19	1	---	4	15
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	1,992	473	588	2	---	2	---	---	475	111
Class II Railroads.....	23	4	4	---	---	---	---	---	3	1
Class III Railroads.....	187	28	32	---	---	---	---	---	13	19
Total All Railroads.....	2,202	505	624	2	---	2	---	---	491	131
GRAND TOTAL										
Class I Railroads.....	20,469	904	1,074	23	23	46	1	16	490	521
Class II Railroads.....	616	8	8	1	---	1	---	---	3	4
Class III Railroads.....	4,603	79	83	2	6	8	---	---	16	59
Total All Railroads.....	25,688	991	1,165	26	29	55	1	16	509	584

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... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers		
TRAIN ACCIDENTS										
Class I Railroads.....	115	100	416	169	46	215	7	190	2	2
Class II Railroads.....	2	1	3	1	---	1	---	2	---	---
Class III Railroads.....	13	11	32	8	2	10	---	18	1	3
Total All Railroads.....	130	112	451	178	48	226	7	210	3	5
TRAIN INCIDENTS										
Class I Railroads.....	3,437	3,011	3,094	2,292	395	2,687	5	36	39	327
Class II Railroads.....	77	72	73	57	10	67	---	1	2	3
Class III Railroads.....	622	578	586	392	74	466	3	74	9	34
Total All Railroads.....	4,136	3,661	3,753	2,741	479	3,220	8	111	50	364
NONTRAIN INCIDENTS										
Class I Railroads.....	14,925	14,697	14,836	3,924	10,309	14,233	328	44	175	56
Class II Railroads.....	514	512	512	99	402	501	1	1	9	---
Class III Railroads.....	3,781	3,721	3,732	770	2,598	3,368	45	105	193	21
Total All Railroads.....	19,220	18,930	19,080	4,793	13,309	18,102	374	150	377	77
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	1,992	1,519	2,171	99	7	106	1	---	1,869	195
Class II Railroads.....	23	19	31	---	---	---	---	---	31	---
Class III Railroads.....	187	159	227	9	5	14	---	4	177	32
Total All Railroads.....	2,202	1,697	2,429	108	12	120	1	4	2,077	227
GRAND TOTAL										
Class I Railroads.....	20,469	19,327	20,517	6,484	10,757	17,241	341	270	2,085	580
Class II Railroads.....	616	604	619	157	412	569	1	4	42	3
Class III Railroads.....	4,603	4,469	4,577	1,179	2,679	3,858	48	201	380	90
Total All Railroads.....	25,688	24,400	25,713	7,820	13,848	21,668	390	475	2,507	673

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... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS								
Class I Railroads.....	115	1	2	---	2	2	---	---
Class II Railroads.....	2	---	---	---	---	---	---	---
Class III Railroads.....	13	---	---	---	---	---	---	---
Total All Railroads.....	130	1	2	---	2	2	---	---
TRAIN INCIDENTS								
Class I Railroads.....	3,437	40	49	47	2	49	---	---
Class II Railroads.....	77	2	2	2	---	2	---	---
Class III Railroads.....	622	2	2	1	1	2	---	---
Total All Railroads.....	4,136	44	53	50	3	53	---	---
NONTRAIN INCIDENTS								
Class I Railroads.....	14,929	197	210	52	152	204	6	---
Class II Railroads.....	514	2	2	1	1	2	---	---
Class III Railroads.....	3,781	53	53	8	45	53	---	---
Total All Railroads.....	19,220	252	265	61	198	259	6	---
RAIL-HIGHWAY CROSSING (Excluded from above categories)								
Class I Railroads.....	1,992	---	---	---	---	---	---	---
Class II Railroads.....	23	---	---	---	---	---	---	---
Class III Railroads.....	187	---	---	---	---	---	---	---
Total All Railroads.....	2,202	---	---	---	---	---	---	---
GRAND TOTAL								
Class I Railroads.....	20,469	238	261	99	156	255	6	---
Class II Railroads.....	616	4	4	3	1	4	---	---
Class III Railroads.....	4,603	55	55	9	46	55	---	---
Total All Railroads.....	25,688	297	320	111	203	314	6	---

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.....	---	---	---	---	---	---	3	1	7	1	13	25
Derailments.....	---	---	---	---	---	---	---	---	2	---	2	4
Rail-highway x-ing.....	---	---	---	---	---	---	---	---	3	2	11	16
Miscellaneous.....	---	---	---	---	---	---	---	---	2	---	2	4
Total.....	---	---	---	---	---	---	3	1	14	3	28	49
TRAIN INCIDENTS												
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf	---	1	---	1	---	2	2	6	7	---	3	18
Operating or on locomotives.....	---	---	1	1	---	2	1	---	2	---	1	4
Operating rail motorcars.....	---	---	---	---	---	---	2	5	1	2	9	19
Operating hand brakes.....	---	---	---	1	---	1	1	---	---	---	1	3
Operating switches or derails.....	---	---	---	---	---	---	2	---	1	---	4	7
Contacting fixed objects while on loco	---	---	---	---	---	---	1	---	2	1	4	8
Getting on or off cars or locomotives.	2	---	25	4	---	31	22	8	30	1	12	73
Collisions, derailments, etc. (<= \$5,2	---	---	3	---	---	3	1	---	4	---	4	9
Rail-highway crossing accidents/incide	1	1	5	---	---	7	36	4	70	1	120	231
Struck by/ran into loco/car(not at rr-	9	2	54	9	---	74	9	1	27	4	32	73
Servicing or maintenance of equipment.	1	---	---	---	---	1	1	1	3	1	1	7
Maintenance of way and structures.....	---	---	---	---	---	---	2	1	5	1	3	12
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---	1	---	---	1
Windows, doors, etc., on on-track equi	---	2	---	---	---	2	---	8	---	---	---	8
Passenger car doors.....	---	---	---	---	---	---	---	1	---	---	1	2
Stumbling, slipping, falling, caught,	---	---	3	---	---	3	9	5	9	1	2	26
Flying or falling objects, burns, etc.	---	---	---	---	---	---	---	---	---	2	1	3
Operation of on-track work equipment..	---	---	---	---	---	---	1	---	1	1	2	5
Assault.....	---	1	---	---	---	1	5	5	9	---	13	32
Other occurrences.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	13	7	91	16	---	127	95	46	172	15	214	542
NONTRAIN INCIDENTS												
Coupling and uncoupling locomotives or	---	1	---	---	---	1	6	9	3	7	10	35
Coupling/uncoupling air/steam hose, saf	---	---	1	---	---	1	7	5	1	---	4	17
Operating or on locomotives.....	---	1	---	---	---	1	6	12	3	2	4	27
Operating rail motorcars.....	---	---	---	---	---	---	---	1	---	1	---	2
Operating hand brakes.....	1	---	---	---	---	1	9	9	1	1	6	26
Operating switches or derails.....	---	---	---	---	---	---	1	12	4	4	2	23
Contacting fixed objects while on loco	---	---	---	---	---	---	---	---	1	---	1	2
Getting on or off cars or locomotives.	---	1	---	---	---	1	15	9	46	5	13	88
Collisions, derailments, etc. (<= \$5,2	---	---	---	---	---	---	---	---	5	---	---	15
Rail-highway crossing accidents/incide	---	1	---	---	---	1	2	---	3	---	8	15
Struck by/ran into loco/car(not at rr-	---	9	1	1	---	11	57	162	64	40	42	365
Servicing or maintenance of equipment.	---	22	1	3	---	26	77	195	135	73	69	549
Maintenance of way and structures.....	---	---	---	---	---	---	2	3	1	3	2	11
Freight, baggage, express or mail.....	---	3	---	---	---	3	7	31	3	3	1	45
Windows, doors, etc., on on-track equi	---	---	---	---	---	---	1	1	---	---	---	2
Passenger car doors.....	---	---	---	---	---	---	68	10	92	8	40	218
Stumbling, slipping, falling, caught,	---	---	---	---	---	---	1	7	---	2	---	10
Flying or falling objects, burns, etc.	---	---	---	---	---	---	1	2	1	---	3	7
Operation of on-track work equipment..	---	---	---	---	---	---	5	6	---	---	11	22
Assault.....	---	2	---	2	1	5	26	20	32	8	30	116
Other occurrences.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	1	40	3	6	1	51	293	494	395	157	248	1,587
Grand Total.....	14	47	94	22	1	178	391	541	581	175	490	2,178

TABLE 49. (CONTINUED)

Type of Accident/Incident	Other Injuries							Total Injured		
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye		Other	
TRAIN ACCIDENTS										
Collisions.....	131	81	26	---	1	1	---	22	262	287
Derailements.....	48	59	4	---	---	---	---	9	120	124
Rail-highway x-ing.....	30	40	33	---	1	1	---	35	140	156
Miscellaneous.....	12	8	2	---	---	---	1	12	36	40
Total.....	221	188	65	---	2	3	1	78	558	607
TRAIN INCIDENTS										
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf	48	97	33	---	2	2	6	6	194	214
Operating or on locomotives.....	10	14	3	---	---	---	2	3	32	38
Operating rail motorcars.....	115	235	44	1	6	2	222	52	677	696
Operating hand brakes.....	7	2	2	---	---	---	1	3	15	18
Operating switches or derails.....	13	45	5	---	---	2	---	1	66	74
Operating fixed objects while on loco	3	10	2	---	---	---	4	2	21	22
Contacting fixed objects while on loco	31	18	15	---	---	---	1	6	71	79
Getting on or off cars or locomotives..	158	413	69	---	---	11	2	24	677	781
Collisions, derailments, etc. (<= \$5,2	20	53	9	---	---	---	---	2	84	96
Rail-highway crossing accidents/incide	581	197	542	---	3	15	1	613	1,952	2,190
Struck by/ran into loco/car(not at rr-	37	14	74	2	1	4	---	62	194	341
Servicing or maintenance of equipment.	29	30	13	---	---	1	---	6	79	87
Maintenance of way and structures.....	27	20	12	---	---	---	1	11	71	83
Freight, baggage, express or mail.....	4	15	1	---	---	---	---	2	22	23
Windows, doors, etc., on on-track equi	24	15	26	---	---	---	3	5	73	83
Passenger car doors.....	2	1	---	---	---	---	---	1	4	6
Stumbling, slipping, falling, caught,	60	73	32	---	2	---	---	23	190	219
Flying or falling objects, burns, etc.	19	12	38	1	12	1	129	27	239	242
Operation of on-track work equipment..	21	27	6	---	---	2	---	3	59	64
Assault.....	29	13	28	---	---	---	9	9	88	88
Other occurrences.....	170	206	52	---	2	4	6	26	466	499
Total.....	1,408	1,510	1,006	4	28	44	387	887	5,274	5,943
NONTRAIN INCIDENTS										
Coupling and uncoupling locomotives or	80	345	37	---	1	5	7	19	494	530
Coupling/uncoupling air/steam hose, saf	68	101	47	---	3	1	10	11	241	259
Operating or on locomotives.....	98	204	40	4	6	3	67	42	464	492
Operating rail motorcars.....	2	20	5	---	---	---	---	2	29	31
Operating hand brakes.....	34	221	28	---	---	2	1	15	301	328
Operating switches or derails.....	75	819	27	---	2	6	8	32	969	992
Contacting fixed objects while on loco	8	5	6	---	---	---	---	2	21	23
Getting on or off cars or locomotives.	233	598	73	1	---	9	2	42	958	1,047
Collisions, derailments, etc. (<= \$5,2	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	22	3	19	---	---	2	---	22	68	83
Struck by/ran into loco/car(not at rr-	3	3	10	---	---	---	---	5	21	29
Servicing or maintenance of equipment.	639	1,816	819	63	141	28	288	292	4,086	4,462
Maintenance of way and structures.....	839	2,632	959	39	113	39	236	433	5,290	5,865
Freight, baggage, express or mail.....	21	58	9	---	---	1	---	7	96	107
Windows, doors, etc., on on-track equi	75	152	82	1	1	1	2	6	320	368
Passenger car doors.....	3	1	1	---	---	---	---	---	5	7
Stumbling, slipping, falling, caught,	384	980	167	---	2	22	1	71	1,627	1,845
Flying or falling objects, burns, etc.	27	24	51	13	31	---	215	71	432	442
Operation of on-track work equipment..	16	47	12	---	---	---	2	3	80	87
Assault.....	55	55	35	---	---	3	2	16	166	188
Other occurrences.....	325	820	228	2	11	13	24	434	1,857	1,978
Total.....	3,007	8,904	2,655	123	311	135	865	1,525	17,525	19,163
Grand Total.....	4,636	10,602	3,726	127	341	182	1,253	2,490	23,357	25,713

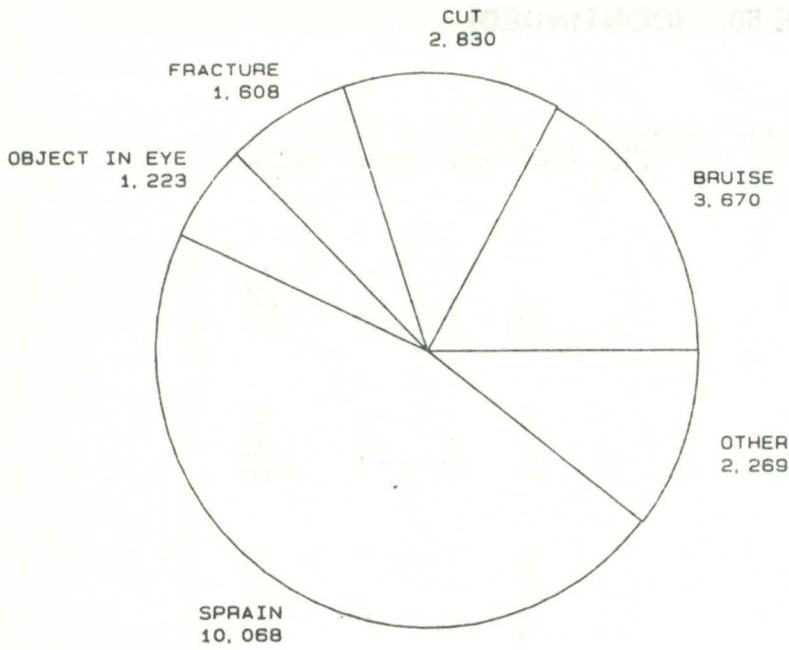
TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON

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	---	1	---	---	---	1	6	8	6	1	2	23
Firemen and Helpers	---	---	---	---	---	---	---	---	---	---	---	---
Conductors and Foremen	---	---	---	---	---	---	6	8	14	2	10	40
Brakemen and Helpers	1	2	2	2	---	7	17	13	17	12	22	81
Total.....	1	3	2	2	---	8	29	29	37	15	34	146
FREIGHT SERVICE:												
Engineers and Motormen	---	1	---	---	---	1	9	8	8	4	10	39
Firemen and Helpers	---	---	---	---	---	---	---	1	1	---	---	2
Conductors and Foremen	---	1	---	1	---	2	15	13	27	5	21	81
Brakemen and Helpers	---	3	1	---	---	4	36	30	32	7	33	138
Total.....	---	5	1	1	---	7	60	52	68	16	64	260
PASSENGER SERVICE:												
Engineers and Motormen	---	---	---	---	---	---	1	3	2	---	1	7
Firemen and Helpers	---	---	---	---	---	---	---	---	---	---	---	---
Conductors and Foremen	---	---	---	---	---	---	1	9	3	1	3	17
Baggagemen	---	---	---	---	---	---	---	---	---	---	---	---
Brakemen and Helpers	---	---	---	---	---	---	1	1	2	---	---	4
Total.....	---	---	---	---	---	---	3	13	7	1	4	28
HOSTLERS												
Hostlers	---	---	---	---	---	---	2	---	1	---	1	4
--SUMMARY--												
Total employees on duty	2	41	6	8	---	57	280	522	378	159	269	1,608
Employees not on duty	---	---	1	---	---	1	12	6	22	3	10	53
Passengers	---	---	1	---	---	1	19	6	31	5	16	77
Nontravellers	1	2	10	1	---	14	63	4	95	6	141	309
Trespassers	11	4	76	13	1	105	17	3	55	2	54	131
Grand total	14	47	94	22	1	178	391	541	581	175	490	2,178

TABLE 50. (CONTINUED)

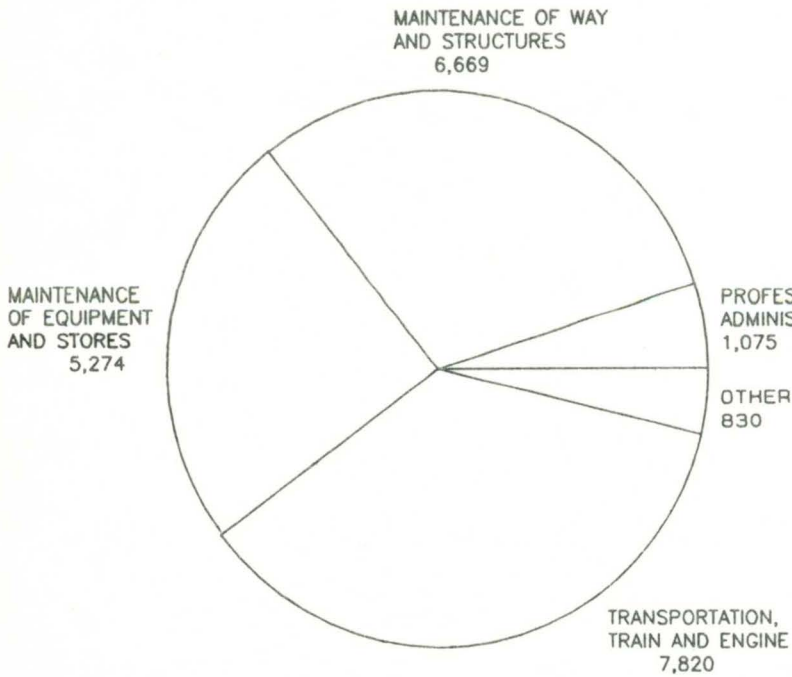
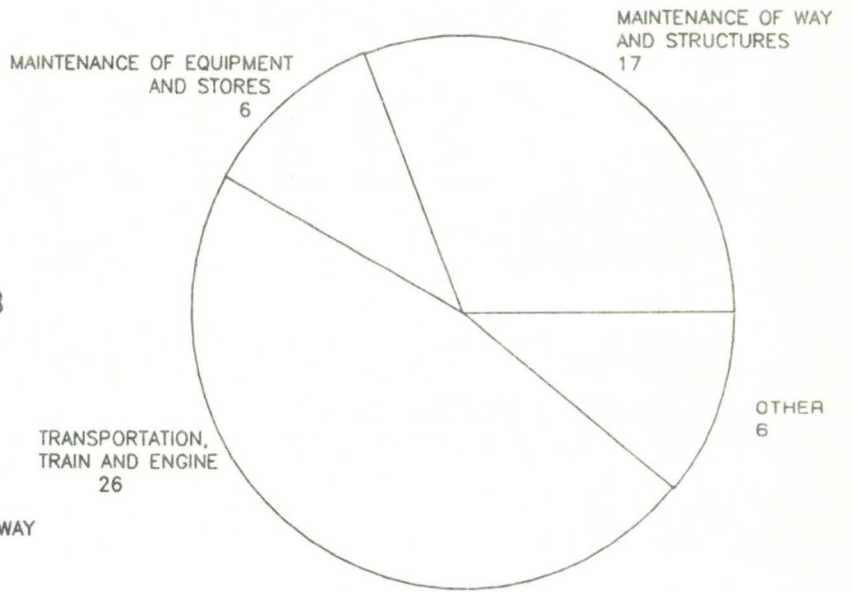
Type Person	Other Injuries								Total Injured	
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other		
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen	60	179	28	1	3	4	53	25	353	377
Firemen and Helpers	2	12	3	---	---	---	3	2	22	22
Conductors and Foremen	107	339	62	---	2	3	49	35	597	637
Brakemen and Helpers	309	1,009	168	---	11	10	142	84	1,733	1,821
Total.....	478	1,539	261	1	16	17	247	146	2,705	2,857
FREIGHT SERVICE:										
Engineers and Motormen	133	310	64	---	3	6	86	52	654	694
Firemen and Helpers	14	40	7	---	---	---	6	5	72	74
Conductors and Foremen	222	527	95	---	3	8	60	67	982	1,065
Brakemen and Helpers	407	1,173	188	1	7	15	151	126	2,068	2,210
Total.....	776	2,050	354	1	13	29	303	250	3,776	4,043
PASSENGER SERVICE:										
Engineers and Motormen	29	69	16	---	2	1	24	27	168	175
Firemen and Helpers	---	7	---	---	---	---	---	1	8	8
Conductors and Foremen	106	241	54	4	2	4	42	42	495	512
Baggagemen	2	2	2	---	---	---	---	1	7	7
Brakemen and Helpers	20	27	6	---	---	---	12	4	69	73
Total.....	157	346	78	4	4	5	78	75	747	775
HOSTLERS	20	48	11	---	1	---	10	7	97	101
--SUMMARY--										
Total employees on duty	3,670	10,068	2,830	112	321	151	1,223	1,628	20,003	21,668
Employees not on duty	67	172	40	2	5	3	10	37	336	390
Passengers	173	92	76	---	---	2	7	47	397	475
Nontrespassers	651	247	622	2	12	17	13	620	2,184	2,507
Trespassers	75	23	158	11	3	9	---	158	437	673
Grand total	4,636	10,602	3,726	127	341	182	1,253	2,490	23,357	25,713

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 Total Cases	Days Away Lost Day Cases	From Work Restricted Cases	Or Days Of Days Away From Work	Restriction Days Of Restriction	Other Cases
I N J U R I E S							
Bruise - Contusion--Arm or hand.	655	501	404	97	5,507	893	154
Fingers.....	339	182	135	47	1,538	521	157
Leg or foot.	1,125	930	809	121	11,232	1,392	195
Toes.....	99	71	60	11	543	72	28
Torso.....	1,019	867	788	79	12,785	1,260	152
Other parts.	433	351	328	23	4,679	374	82
Sprain - Strain--Arm or hand.	705	556	452	104	6,973	1,489	149
Fingers.....	146	97	77	20	962	208	49
Leg or foot.	2,313	2,053	1,783	270	29,127	3,756	260
Toes.....	10	9	7	2	52	7	1
Torso.....	6,120	5,249	4,610	639	83,311	9,011	871
Other parts.	774	647	569	78	9,866	791	127
Cut or Laceration--Arm or hand.	531	206	160	46	2,098	456	325
Fingers.....	914	407	297	110	3,040	1,517	507
Leg or foot.	372	225	198	27	2,365	216	147
Toes.....	22	14	9	5	265	50	8
Head or Face	891	317	280	37	3,697	258	574
Torso.....	61	40	36	4	500	33	21
Other parts.	39	14	11	3	439	30	25
Electrical burn or shock.....	112	87	77	10	860	94	25
Other burns.....	321	183	156	27	1,813	247	138
Dislocation.....	151	138	118	20	2,940	359	13
Fracture--Arm or hand.	280	245	201	44	5,886	1,336	35
Fingers.....	522	331	219	112	4,367	2,390	191
Leg or foot.	378	367	343	24	12,854	1,392	11
Toes.....	159	129	96	33	1,932	606	30
Head or Face	61	43	42	1	1,267	36	18
Torso.....	187	171	151	20	5,197	504	16
Other parts.	21	20	18	2	345	74	1
Amputation--Arm or hand.	2	2	2	---	455	---	---
Fingers.....	41	36	33	3	1,178	37	5
Leg or foot.	6	6	6	---	527	---	---
Toes.....	8	8	8	---	753	---	---
Other parts.	---	---	---	---	---	---	---
Dust or other object in eye.....	1,223	566	497	69	2,289	206	657
Hernia.....	143	130	126	4	4,176	285	13
Concussion.....	55	49	47	2	1,096	17	6
Nervous shock.....	12	11	10	1	112	7	1
Internal injuries.....	39	37	37	---	942	47	2
Loss of eye.....	3	3	3	---	210	---	---
Puncture type wound.....	349	169	140	29	1,402	244	180
Dental related injuries.....	91	15	13	2	164	7	76
Skin reaction (one-time exposure)	130	55	47	8	293	37	75
Not otherwise classified.....	806	576	506	70	7,053	720	230
Total nonfatal injuries.....	21,668	16,113	13,909	2,204	237,090	30,979	5,555
I L L N E S S E S							
Skin diseases or disorders.....	74	33	31	2	116	4	41
Dust diseases of the lungs.....	3	2	2	---	17	---	1
Respiratory conditions.....	76	56	56	---	656	---	20
Poisoning.....	17	14	14	---	172	10	3
Disorders due to physical agents	50	25	24	1	201	2	25
Disorders due to repeated trauma	35	25	22	3	495	28	10
All other occupational illnesses	59	40	36	4	994	47	19
Total nonfatal illnesses.....	314	195	185	10	2,651	91	119
-----F A T A L I T I E S-----							
Fatal injuries.....	55	---	---	---	---	---	---
Fatal illnesses.....	---	---	---	---	---	---	---
Total fatalities.....	55	---	---	---	---	---	---

TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

	Killed	Injured	Illness	Total
EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS				
Executives and general officers.....	---	10	---	10
Corporate staff managers.....	---	21	1	22
Regional and division officers, assistants and staff assistants....	1	9	---	10
Transportation officers/managers.....	1	12	1	14
Subtotal.....	2	52	2	56
PROFESSIONAL AND ADMINISTRATIVE				
Professional.....	---	21	1	22
Subprofessionals.....	1	9	---	10
Auditors, traveling auditors or accountants.....	---	9	---	9
General and administrative supervisors.....	---	34	---	34
Sales and traffic representatives and agents.....	---	48	---	48
Freight and other claim agents and investigators.....	1	10	---	11
Supervising and chief claim agents.....	---	2	---	2
Lieutenants and sergeants of police.....	---	28	---	28
Police officers, watchmen and guards (except crossing & bridge)....	---	239	5	244
Inspectors, (except MOW & MOE), other investigators, examiners, etc	---	3	---	3
Buyers, and sales agents.....	---	19	1	20
Clerical technicians and clerical specialists.....	---	40	---	40
Office machine and data equipment operators.....	---	38	---	38
Secretaries, stenographers, and typists.....	---	31	2	33
General and other clerks (except yard clerk and crew dispatcher)...	---	341	5	346
Telephone and switchboard operators.....	---	1	---	1
Building and office attendants.....	---	65	---	65
Messengers and office persons.....	---	12	---	12
Motor vehicle operators.....	---	125	3	128
Subtotal.....	2	1,075	17	1,094
MAINTENANCE OF WAY AND STRUCTURES				
Maintenance of way and structures (miscellaneous).....	---	3	1	4
Supervisors, maintenance of way, structures, communication & signals	---	91	2	93
Maintenance of way, structures, comm. & signals, & scale inspectors	---	86	1	87
Bridge and building gang foreman.....	---	108	3	111
Bridge and building carpenters.....	---	344	4	348
Bridge and building ironworkers.....	---	93	---	93
Bridge and building painters.....	---	32	---	32
Masons, bricklayers, plasterers, and plumbers.....	2	273	6	281
Bridge and building helpers and apprentices.....	2	183	2	187
Bridge and building gang and bridge and building dept laborers....	---	71	---	71
Track gang foremen (extra gang work train laborers).....	---	147	---	147
Gang or section foreman.....	3	460	5	468
Extra gang laborers.....	---	688	10	698
Section laborers.....	4	2,203	40	2,247
Machine operators.....	2	992	15	1,009
Gang foremen, communications and signals.....	---	48	---	48
Signalmen and signal maintainers.....	2	546	14	562
Linemen and groundmen and communications craftsman.....	2	198	6	206
Assistant signalmen and assistant signal maintainers.....	---	73	8	81
Signal helpers and signal maintainer helpers.....	---	22	---	22
Camp car cooks.....	---	8	1	9
Subtotal.....	17	6,669	118	6,804
MAINTENANCE OF EQUIPMENT AND STORES				
Maintenance of equipment and stores (miscellaneous).....	---	8	---	8
Supervisors and general foremen, maintenance of equipment.....	---	85	---	85
Supervisors and general foremen, materials and stores.....	---	10	---	10
Equipment, shop, electrical inspectors.....	---	29	---	29
Materials and supplies inspectors.....	---	4	---	4
Storekeeper.....	---	26	---	26
Gang foremen, maintenance of equipment.....	---	113	1	114
Blacksmiths.....	---	24	---	24
Boilermakers.....	---	85	---	85
Carmen (freight).....	3	1,475	15	1,493
Carmen (other).....	---	577	7	584
Electrical workers (A).....	1	566	4	571
Electrical workers (B).....	---	20	---	20
Electrical workers (C).....	---	8	---	8
Machinists.....	---	1,034	22	1,056
Sheet metal workers.....	---	172	5	177
Skilled trades, helpers, maintenance of equipment and stores.....	---	145	2	147
Apprentices, maintenance of equipment and stores.....	---	37	---	37
Coach cleaners.....	---	210	2	212
Laborers: shops, enginehouses and power plants.....	---	494	---	494
Gang foremen, materials and stores.....	---	11	---	11
Equipment operators and general laborers, materials and stores....	2	136	2	140
Stationary engineers.....	---	2	---	2
Stationary firemen.....	---	3	---	3
Subtotal.....	6	5,274	60	5,340

TABLE 52. (CONTINUED)

	Killed	Injured	Illness	Total
TRANSPORTATION, OTHER THAN TRAIN AND ENGINE				
Transportation supervisor and chief train dispatcher.....	1	12	---	13
Train dispatchers.....	---	9	2	11
Station, freight and passenger agents.....	---	27	---	27
Chief operators and wire chiefs.....	---	3	---	3
Clerk operators, towerman, train directors.....	1	59	2	62
Station masters & assts, supervising bag. agents, bag. agents, etc.	---	12	---	12
Baggage, parcel room and station attendants.....	---	78	---	78
General & asst gnrl foremen, stations, warehouses, grain elev., docks.	---	2	---	2
Gang foremen, stations, warehouses, grain elevators and docks.....	---	1	---	1
Grain elevator, and dock laborers.....	---	75	---	75
Station, and warehouse laborers.....	---	49	---	49
Truckers (station, warehouse and platforms).....	---	18	---	18
Food and lodging manager, supervisors.....	---	28	---	28
Transportation and dining-service inspectors.....	---	1	---	1
Waiters and kitchen helpers (restaurant and dining car).....	---	58	---	58
Chefs and cooks (restaurant and dining car).....	---	26	---	26
Marine officers and workers and shore workers.....	---	2	---	2
Train attendants.....	---	182	1	183
Bridge operators and helpers.....	---	9	---	9
Bridge and crossing flagmen and gatemen.....	---	4	---	4
Yards clerks.....	---	66	---	66
Crew dispatchers.....	---	13	1	14
Yardmasters and assistant yardmasters.....	---	44	---	44
Subtotal.....	2	778	6	786
TRANSPORTATION, TRAIN AND ENGINE				
Switchtenders.....	---	20	---	20
Car retarder operators and ground service employees.....	---	6	---	6
Outside hostlers.....	---	76	2	78
Outside hostler helpers.....	---	25	---	25
Inside hostler.....	---	18	---	18
Road passenger conductors.....	---	352	1	353
Assistant road passenger conductors and ticket collectors.....	1	160	1	162
Road freight conductors (through freight).....	6	593	8	607
Road freight conductors (local and way freight).....	2	472	7	481
Road passenger baggageperson.....	---	7	---	7
Road Passenger brakemen and flagmen.....	---	73	---	73
Road freight brakemen and flagmen (through freight).....	4	1,225	22	1,251
Road freight brakemen and flagmen (local and way freight).....	1	985	11	997
Yard conductors and yard foremen.....	1	637	10	648
Yard brakemen and yard helpers.....	6	1,821	18	1,845
Road passenger engineers and motormen.....	1	175	3	179
Road freight engineers (through freight).....	2	435	15	452
Road freight engineers (local and way freight).....	1	259	3	263
Yard engineers.....	1	377	9	387
Road passenger firemen and helpers.....	---	8	---	8
Road freight firemen and helpers (through freight).....	---	40	1	41
Road freight firemen and helpers (local and way freight).....	---	34	---	34
Yard firemen and helpers.....	---	22	---	22
Subtotal.....	26	7,820	111	7,957
Total.....	55	21,668	314	22,037

TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions.....	---	---	2	---	---	11	13
Derailments.....	---	---	---	---	1	---	1
Rail-highway x-ing.....	---	---	---	---	---	2	2
Miscellaneous.....	---	---	2	---	---	---	2
Total.....	---	---	4	---	1	13	18
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	1	1
Operating or on locomotives.....	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	---	---	---	---	---	2	2
Getting on or off cars or locomotives.....	---	---	---	---	---	2	2
Collisions, derailments, etc. (<= \$5,201).....	1	---	---	---	---	---	1
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	2	---	---	3	5
Servicing or maintenance of equipment.....	---	---	---	1	---	---	1
Maintenance of way and structures.....	---	---	2	---	---	---	2
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.....	---	---	1	---	---	---	1
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	---	---	1	1
Total.....	1	---	5	1	---	11	18
NONTRAIN 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.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	---	3	---	---	3
Maintenance of way and structures.....	---	1	3	---	---	---	4
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....	---	---	1	---	---	---	1
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	1	1
Other occurrences.....	1	1	3	2	1	---	8
Total.....	1	2	8	5	1	2	19
Grand total.....	2	2	17	6	2	26	55

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	IX	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions.....	2	---	7	2	7	85	103
Deraillments.....	---	1	1	---	17	80	99
Rail-highway x-ing.....	---	---	2	---	5	71	78
Miscellaneous.....	---	---	7	4	---	13	24
Total.....	2	1	17	6	29	249	304
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	3	4	---	206	213
Coupling/uncoupling air/steam hose, safety chains.....	1	---	1	---	---	36	38
Operating or on locomotives.....	---	1	1	7	---	685	694
Operating rail motorcars.....	---	---	13	---	---	5	18
Operating hand brakes.....	---	---	1	2	---	71	74
Operating switches or derails.....	---	---	1	---	---	21	22
Contacting fixed objects while on locos or cars..	---	---	1	2	7	64	74
Getting on or off cars or locomotives.....	---	1	6	7	6	668	688
Collisions, derailments, etc. (<= \$5,201).....	---	1	8	4	1	67	81
Rail-highway crossing accidents/incidents.....	---	---	5	---	---	37	42
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	4	4	1	23	32
Servicing or maintenance of equipment.....	1	---	9	59	14	3	86
Maintenance of way and structures.....	---	2	72	5	---	1	82
Freight, baggage, express or mail.....	---	---	---	---	11	9	20
Windows, doors, etc., on on-track equipment.....	---	---	1	3	19	50	73
Passenger car doors.....	---	---	---	1	---	1	4
Stumbling, slipping, falling, caught, N.O.C.....	---	4	10	4	52	105	175
Flying or falling objects, burns, etc., N.O.C....	---	2	4	---	14	210	230
Operation of on-track work equipment.....	1	---	48	1	2	12	64
Assault.....	---	3	2	---	2	78	85
Other occurrences.....	---	2	5	9	26	425	467
Total.....	3	16	195	112	158	2,778	3,262
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	1	---	26	2	500	529
Coupling/uncoupling air/steam hose, safety chains.....	1	---	3	32	3	220	259
Operating or on locomotives.....	---	2	6	39	6	437	490
Operating rail motorcars.....	---	1	23	3	---	4	31
Operating hand brakes.....	1	---	1	17	2	307	328
Operating switches or derails.....	---	4	36	42	10	900	992
Contacting fixed objects while on locos or cars..	---	---	1	7	2	13	23
Getting on or off cars or locomotives.....	1	29	23	134	25	721	933
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	1	4	3	1	2	11
Servicing or maintenance of equipment.....	7	70	311	3,917	65	55	4,425
Maintenance of way and structures.....	9	80	5,284	348	23	28	5,772
Freight, baggage, express or mail.....	---	20	2	5	61	17	105
Windows, doors, etc., on on-track equipment.....	---	16	33	105	27	172	353
Passenger car doors.....	---	---	---	1	---	2	3
Stumbling, slipping, falling, caught, N.O.C.....	6	197	210	215	131	708	1,467
Flying or falling objects, burns, etc., N.O.C....	5	28	24	41	38	253	389
Operation of on-track work equipment.....	1	1	76	4	1	2	85
Assault.....	---	98	11	10	8	45	172
Other occurrences.....	16	510	409	207	186	407	1,735
Total.....	47	1,058	6,457	5,156	591	4,793	18,102
Grand total.....	52	1,075	6,669	5,274	778	7,820	21,668

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 Lost Day Cases	From Work Restricted Cases	Or Days Of Days Away From Work	Restriction Days Of Restriction	Other Cases
TRAIN ACCIDENTS							
Collisions.....	103	95	89	6	2,419	190	8
Deraillments.....	99	89	88	1	1,922	35	10
Rail-highway x-ing.....	78	74	74	---	1,269	14	4
Miscellaneous.....	24	22	19	3	618	66	2
Total.....	304	280	270	10	6,228	305	24
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	213	178	151	27	2,812	489	35
Coupling/uncoupling air/steam hose, safety chains.	38	34	33	1	881	5	4
Operating or on locomotives.....	694	537	500	37	7,953	430	157
Operating rail motorcars.....	18	17	14	3	324	12	1
Operating hand brakes.....	74	68	61	7	1,233	119	6
Operating switches or derails.....	22	15	13	2	316	29	7
Contacting fixed objects while on locos or cars..	74	63	60	3	1,110	38	11
Getting on or off cars or locomotives.....	688	614	555	59	10,078	850	74
Collisions, derailments, etc. (<= \$5,201).....	81	66	64	2	1,251	64	15
Rail-highway crossing accidents/incidents.....	42	39	36	3	607	66	3
Struck by/ran into loco/car(not at rr-hwy x-ing).	32	28	26	2	719	54	4
Servicing or maintenance of equipment.....	86	65	56	9	1,092	149	21
Maintenance of way and structures.....	82	60	51	9	1,211	86	22
Freight, baggage, express or mail.....	20	19	19	---	117	4	1
Windows, doors, etc., on on-track equipment.....	73	55	54	1	646	54	18
Passenger car doors.....	4	4	4	---	81	4	---
Stumbling, slipping, falling, caught, N.O.C.....	175	134	118	16	3,083	244	41
Flying or falling objects, burns, etc., N.O.C.....	230	138	128	10	920	48	92
Operation of on-track work equipment.....	64	54	47	7	1,154	40	10
Assault.....	85	67	61	6	931	91	18
Other occurrences.....	467	397	379	18	6,598	384	70
Total.....	3,262	2,652	2,430	222	43,117	3,260	610
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	529	462	419	43	8,180	781	67
Coupling/uncoupling air/steam hose, safety chains.	259	192	175	17	3,023	219	67
Operating or on locomotives.....	490	395	364	31	5,666	453	95
Operating rail motorcars.....	31	24	19	5	383	38	7
Operating hand brakes.....	328	275	252	23	4,733	295	53
Operating switches or derails.....	992	879	802	77	13,479	904	113
Contacting fixed objects while on locos or cars..	23	20	19	1	243	14	3
Getting on or off cars or locomotives.....	933	811	723	88	14,106	1,381	122
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	11	7	5	2	174	42	4
Servicing or maintenance of equipment.....	4,425	2,952	2,329	623	36,141	8,698	1,473
Maintenance of way and structures.....	5,772	3,889	3,143	746	54,027	9,726	1,883
Freight, baggage, express or mail.....	105	89	74	15	706	188	16
Windows, doors, etc., on on-track equipment.....	353	263	226	37	3,677	556	90
Passenger car doors.....	3	1	1	---	10	---	2
Stumbling, slipping, falling, caught, N.O.C.....	1,467	1,273	1,152	121	21,354	2,030	194
Flying or falling objects, burns, etc., N.O.C.....	389	214	199	15	1,814	200	175
Operation of on-track work equipment.....	85	59	52	7	879	118	26
Assault.....	172	153	145	8	2,107	126	19
Other occurrences.....	1,735	1,223	1,110	113	17,043	1,645	512
Total.....	18,102	13,181	11,209	1,972	187,745	27,414	4,921
Grand total.....	21,668	16,113	13,909	2,204	237,090	30,979	5,555

TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	IX	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions.....	---	---	---	---	---	---	---
Derailments.....	---	---	---	---	---	---	---
Rail-highway x-ing.....	---	---	---	---	---	---	---
Miscellaneous.....	---	---	---	2	---	---	2
Total.....	---	---	---	2	---	---	2
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	24	24
Operating or on locomotives.....	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	1	1
Contacting fixed objects while on locos or cars..	---	---	---	---	---	4	4
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	1	---	---	---	1
Maintenance of way and structures.....	---	---	---	---	---	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	1	1
Stumbling, slipping, falling, caught, N.O.C.....	---	---	1	---	---	12	13
Flying or falling objects, burns, etc., N.O.C.....	1	---	---	---	---	---	1
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	7	7
Other occurrences.....	---	---	2	---	---	---	2
Total.....	1	---	2	---	---	50	53
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	5	5
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	1	1
Operating or on locomotives.....	---	---	1	2	---	19	22
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	1	1
Contacting fixed objects while on locos or cars..	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,201).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	1	2	50	---	2	55
Maintenance of way and structures.....	---	1	65	1	---	---	67
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	---	3	3
Flying or falling objects, burns, etc., N.O.C.....	---	7	---	---	2	17	26
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	1	8	48	5	4	13	79
Total.....	1	17	116	58	6	61	259
Grand total.....	2	17	118	60	6	111	314

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

Railroad	.....Struck By Thrown Or Otherwise.....				...Other Assaults...		Grand Total
	On Locomotive	On Caboose	Propelled Object	While On Cars	Not On Consist	On Consists		Not On Consists
CLASS I RAILROADS							
Amtrak (National RR Passenger Corp).....	---	---	1	2	6	36	45
Atchison, Topeka And Santa Fe Rwy Co.....	---	1	---	---	3	3	7
Boston And Maine Corporation.....	---	---	---	---	1	---	1
Burlington Northern Incorporated.....	3	1	---	---	2	3	9
Chicago And North Western.....	2	---	---	---	---	3	5
Consolidated Rail Corporation.....	5	2	1	3	1	8	20
CSX Transportation.....	9	4	1	---	---	6	21
Delaware And Hudson Railway.....	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.....	---	1	---	---	---	---	1
Elgin, Joliet And Eastern Railway Co.....	---	---	---	---	---	---	---
Florida East Coast Railway Co.....	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.....	1	---	---	---	---	---	1
Illinois Central Gulf Railroad Co.....	---	1	---	---	---	2	3
Kansas City Southern Railway Co.....	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	---
Missouri-Kansas-Texas Railroad Co.....	---	1	---	---	---	1	2
Norfolk Southern Corporation.....	3	1	---	1	2	3	10
Soo Line Railroad Company.....	---	1	---	---	---	---	1
Southern Pacific Transportation Co.....	5	2	---	---	1	4	12
St. Louis Southwestern Railway Co.....	1	---	---	---	---	---	1
Union Pacific Railroad Co.....	6	---	---	---	---	3	9
Total Class I Railroads.....	35	15	3	6	17	72	148
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)							
Class I Railroads.....	35	15	3	6	17	72	148
Class II Railroads.....	---	---	---	---	---	2	2
Class III Railroads.....	11	---	3	3	6	84	107
Total All Railroads.....	46	15	6	9	23	158	257

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	30	2	---	---	17	11
709 Object on or fouling track	2	---	---	---	---	2
799 Other miscellaneous causes	3	2	---	---	1	---
SUBTOTAL.....	35	4	---	---	18	13
GRAND TOTAL.....	35	4	---	---	18	13

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	156	71	7	78	---	8
702 Vandalism	8	6	1	7	---	1
707 Improperly loaded car	1	1	---	1	---	---
709 Object on or fouling track	2	2	---	2	---	---
713 Interaction of lateral/vertical forces	2	2	---	2	---	---
799 Other miscellaneous causes	8	8	---	8	---	---
SUBTOTAL.....	177	90	8	98	4	9
GRAND TOTAL.....	177	90	8	98	4	9

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				
BRAKES, USE OF							
504 Failure to apply sufficient hand brake	1	---	1	1	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS							
52A Block signal, failure to comply	3	3	---	3	---	---	---
520 Fixed signal, failure to comply	16	1	---	1	---	15	---
SUBTOTAL.....	19	4	---	4	---	15	---
OTHER RULES AND INSTRUCTIONS							
533 Failure to stop train in clear	2	2	---	2	---	---	---
536 Mtr car/on-trk eqp rules, fail to comply	1	---	1	1	---	---	---
549 Rules and instructions, other	2	---	2	2	---	---	---
SUBTOTAL.....	5	2	3	5	---	---	---
SPEED							
554 Trn inside yrd limit, excess speed	1	1	---	1	---	---	---
559 Other Causes involving excessive speed	1	---	---	---	---	---	1
SUBTOTAL.....	2	1	---	1	---	---	1
SWITCHES, USE OF							
561 Switch improperly lined	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
GRAND TOTAL.....	28	8	4	12	---	15	1

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						
502 Failure to secure engine (R.R. emp.)	2	1	1	2	---	---
503 Failure to secure hnd brk (R.R. emp)	6	1	---	1	5	---
504 Failure to apply sufficient hand brake	7	3	4	7	---	---
SUBTOTAL.....	15	5	5	10	5	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
52A Block signal, failure to comply	11	11	---	11	---	---
52B Interlocking signal, failure to comply	2	2	---	2	---	---
520 Fixed signal, failure to comply	185	8	9	17	168	---
521 Flagging, improper or failure to flag	8	7	1	8	---	---
527 Radio communication, improper	1	1	---	1	---	---
528 Radio comm., failure to give/receive	1	---	1	1	---	---
SUBTOTAL.....	208	29	11	40	168	---
OTHER RULES AND INSTRUCTIONS						
533 Failure to stop train in clear	5	5	---	5	---	---
535 Instruction to trn/yard crew improper	4	2	2	4	---	---
536 Mtr car/on-trk eqp rules, fail to cmpl	3	2	1	3	---	---
537 Equip move without authority (RR emp)	3	3	---	3	---	---
538 Shoving move, missing man at lead	15	12	---	12	---	3
539 Shoving movement, fail to control	1	1	---	1	---	---
541 Special op. instr., failure to comply	1	1	---	1	---	---
544 Trn ord(written)err in preparation,etc	1	---	1	1	---	---
549 Rules and instructions, other	5	---	5	5	---	---
SUBTOTAL.....	38	26	9	35	---	3
SPEED						
550 Coupling speed excessive	2	1	1	2	---	---
554 Trn inside yrd limit, excess speed	6	6	---	6	---	---
559 Other Causes involving excessive speed	8	8	---	8	---	---
SUBTOTAL.....	16	15	1	16	---	---
SWITCHES, USE OF						
561 Switch improperly lined	53	15	17	32	21	---
569 Use of switches, other	1	1	---	1	---	---
SUBTOTAL.....	54	16	17	33	21	---
MISCELLANEOUS						
570 Buffing or slack action excessive	7	5	2	7	---	---
574 Passed couplers	1	1	---	1	---	---
575 Retarder, improper manual operation	4	---	2	2	2	---
599 Other train operation/human factors	12	4	---	4	8	---
SUBTOTAL.....	24	10	4	14	2	---
GRAND TOTAL.....	355	101	47	148	7	197

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

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

Cause	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRUCK COMPONENTS						
449 Other truck component causes	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
GRAND TOTAL.....	1	---	1	---	---	---

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

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
BRAKES						
402 Broken brake pipe or connections	1	1	---	---	---	---
405 Brk valve malf. (undesired emergency)	1	1	---	---	---	---
406L Brk valve malf./stuck brake/etc - loco	2	---	---	---	2	---
407 Rigging down or dragging	1	1	---	---	---	---
408 Hand brake/gear broken or defective	1	---	1	---	---	---
410 Other brake failure(not on locomotive)	1	---	1	---	---	---
SUBTOTAL.....	7	3	2	---	2	---
BODY						
424 Center plate disengaged from truck	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
COUPLER AND DRAFT SYSTEM						
430 Knuckle broken or defective	3	3	---	---	---	---
SUBTOTAL.....	3	3	---	---	---	---
TRUCK COMPONENTS						
440 Side bearing clearance improper	2	2	---	---	---	---
447 Broken/missing/defective springs	1	1	---	---	---	---
449 Other truck component causes	2	2	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
WHEELS						
462 Broken plate	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
GENERAL MECHANICAL AND ELECTRICAL FAILURES						
499 General mech/elect failures-not loco	6	---	---	---	5	1
SUBTOTAL.....	6	---	---	---	5	1
GRAND TOTAL.....	23	13	2	5	3	---

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

TABLE 64. FATALITIES IN ACCIDENTS RESULTING FROM TRACK, ROADBED, AND STRUCTURES

Cause	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRACK GEOMETRY DEFECTS						
115 Track alignment irregular (buckled)	1	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	1
SIGNAL AND COMMUNICATION FAILURES						
204 Interlocking signal displayed false pr	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
GRAND TOTAL.....	2	1	---	---	---	1

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

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
ROADBED DEFECTS						
102 Washout/rain/slide/ice,etc. dmg to trk	5	5	---	---	---	---
109 Other roadbed defects	5	5	---	---	---	---
SUBTOTAL.....	10	10	---	---	---	---
TRACK GEOMETRY DEFECTS						
110 Wide gage (defect/missing crossties)	2	2	---	---	---	---
114 Track alignment irregular	5	5	---	---	---	---
115 Track alignment irregular (buckled)	7	6	---	---	---	1
117 Superelevation incorrect	1	1	---	---	---	---
119 Cross level irregular at joints	2	2	---	---	---	---
SUBTOTAL.....	17	16	---	---	---	1
RAIL AND JOINT BAR DEFECTS						
131 Broken base of rail	2	2	---	---	---	---
132 Broken weld, field	1	1	---	---	---	---
134 Detail fracture fm shelling/head check	1	1	---	---	---	---
136 Head/web sep.(outside joint bar limit)	2	2	---	---	---	---
141 Transverse/compound fissure	1	1	---	---	---	---
147 Joint bar broken, noninsulated	1	1	---	---	---	---
149 Other rail and joint bar defects	1	1	---	---	---	---
SUBTOTAL.....	9	9	---	---	---	---
FROGS, SWITCHES AND TRACK APPLIANCES						
161 Switch damaged/out of adjustment	1	1	---	---	---	---
165 Switch point worn or broken	3	3	---	---	---	---
SUBTOTAL.....	4	4	---	---	---	---
SIGNAL AND COMMUNICATION FAILURES						
200 Fix sig. improperly displayed (defect)	12	6	---	6	---	---
204 Interlocking signal displayed false pr	2	---	---	2	---	---
SUBTOTAL.....	14	6	---	8	---	---
GRAND TOTAL.....	54	45	---	8	---	1

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... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
007T Striking parts of body against equipment - equipment moving	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
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	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	3	2	---	---	---	1
SUBTOTAL.....	3	2	---	---	---	1
GETTING ON OR OFF CARS OR LOCOMOTIVES						
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	4	---	---	---	---	4
510T Striking body or falling due to sudden movement of equipment	1	1	---	---	---	---
512T Striking or being struck by bridges or trestles - equipment moving	1	---	---	---	---	1
513T Jumping from equipment - equipment moving	3	1	---	---	1	1
519T Other acc/inc while getting on or off cars or locos - equipment mov	3	---	---	---	---	3
SUBTOTAL.....	12	2	---	1	---	9
COLLISIONS, DERAILMENTS, ETC.(≤ \$5,201)						
601T Casualty resulting fm a collision which did not satisfy \$ threshold	2	---	1	---	1	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	14	---	---	---	---	14
SUBTOTAL.....	16	---	1	---	1	14
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS						
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	557	---	---	---	439	118
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	24	---	---	---	23	1
SUBTOTAL.....	581	---	---	---	462	119
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	91	---	---	---	4	87
702T Crossing track at private rail-highway crossing - equipment moving	5	---	---	---	---	5
703T Crossing track not at a crossing - equipment moving	26	1	---	1	---	25
704T While on public thoroughfare - equipment moving	2	---	---	---	---	2
705T On bridges or trestles - equipment moving	22	---	---	---	---	22
706T Sitting or lying on track or near track, not in clear - eqp moving	187	---	---	---	4	183
707T While working on or along track - equipment moving	4	---	2	2	---	---
708T Passing over, through, or under cars - equipment moving	19	---	---	---	---	19
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	46	2	---	2	---	43
SUBTOTAL.....	402	3	2	5	11	386

TABLE 66. (CONTINUED)

Occurrence	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
SERVICING OR MAINTENANCE OF EQUIPMENT						
803T Striking or being struck by eqp, structures, or material-eqp mov	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
MAINTENANCE OF WAY AND STRUCTURES						
853T Striking or being struck by eqp, structures, or material-eqp mov	2	---	2	---	---	---
SUBTOTAL.....	2	---	2	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	5	1	---	---	---	4
938T While on locomotive or car-equipment moving	1	---	---	---	---	1
SUBTOTAL.....	6	1	---	---	---	5
OPERATION OF ON-TRACK WORK EQUIPMENT						
959T Other A/I involving on-track work equipment - equipment moving	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
ASSAULT						
96MT All other assaults involving moving on-track equipment	18	---	---	---	---	18
SUBTOTAL.....	18	---	---	---	---	18
OTHER OCCURRENCES						
970T Performing rerailling or other clearing operations-equipment moving	1	---	---	---	---	1
989T Other accidents/incidents-equipment moving	2	1	---	---	---	1
SUBTOTAL.....	3	1	---	---	---	1
GRAND TOTAL.....	1,047	11	7	18	1	475

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	Montres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
001T Adjusting coupler, equipment moving unexpectedly	12	12	---	12	---	---
002T Adjusting coupler - equipment moving	15	15	---	15	---	---
003T Crossing over, under or between on-track equipment, equipment moving	1	1	---	1	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	2	2	---	2	---	---
005T Use of uncoupling lever - equipment moving	56	55	---	55	1	---
006T Use of uncoupling lever - equipment moving unex, ectedly	4	4	---	4	---	---
007T Striking parts of body against equipment - equipment moving	36	32	4	36	---	---
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	45	44	1	45	---	---
009T Other acc/inc while couplg/uncoupling cars or locos - equip moving	43	41	2	43	---	---
SUBTOTAL.....	214	206	7	213	1	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051T Crossing over, under or between on-track equipment, equipment moving	2	2	---	2	---	---
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	4	4	---	4	---	---
053T Coupling air hose, stk by hose due to sudden release of air - eqp mov	2	1	1	2	---	---
054T Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	10	9	1	10	---	---
055T Defective equipment - equipment moving	2	2	---	2	---	---
057T Opening or closing angle cocks - equipment moving	2	2	---	2	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	16	16	---	16	---	---
SUBTOTAL.....	38	36	2	38	---	---
OPERATING OR ON LOCOMOTIVES						
101T Burn or electrical shock - equipment moving	3	3	---	3	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	55	55	---	55	---	---
103T Struck by tools or other objects falling - equipment moving	10	10	---	10	---	---
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	55	52	2	54	---	1
105T Checking, oiling, servicing locomotive, etc. - equipment moving	3	1	2	3	---	---
106T Unexpected movement of locomotive, other than slack action	67	64	3	67	---	---
107T Slack action in locomotive	63	63	---	63	---	---
108T Striking parts of body against equipment due to sudden stop of loco	62	62	---	62	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	25	25	---	25	---	---
110T Defective locomotive seat - equipment moving	23	23	---	23	---	---
111T Adjusting locomotive seat - equipment moving	5	5	---	5	---	---
112T Foreign object in eye - equipment moving	228	227	---	227	---	1
119T Other accidents/incidents while operating locomotives - eqp moving	97	95	2	97	---	---
SUBTOTAL.....	696	685	9	694	---	2

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
OPERATING RAIL MOTORCARS						
151T Striking parts of body against equipment - equipment moving	4	1	3	4	---	---
154T Unexpected movement of rail motorcar	1	---	1	1	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	13	4	9	13	---	---
SUBTOTAL.....	18	5	13	18	---	---
OPERATING HAND BRAKES						
200T Manipulating hand brakes, no defects, equipment moving	28	27	1	28	---	---
201T Defective equipment - equipment moving	2	2	---	2	---	---
203T Striking body due to movement of equipment	13	12	1	13	---	---
204T Losing hold, slipping or falling due to coupling impact	5	5	---	5	---	---
205T Caught between parts of equipment or lading - equipment moving	5	5	---	5	---	---
206T Brake chains or bolts, breaking or giving way - equipment moving	3	3	---	3	---	---
207T Losing hold, slipping, or falling - equipment moving	8	7	1	8	---	---
208T Caught hand or fingers in spinning brake wheel - equipment moving	1	1	---	1	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	9	9	---	9	---	---
SUBTOTAL.....	74	71	3	74	---	---
OPERATING SWITCHES OR DERAILS						
304T Struck by moving on-track equipment	3	3	---	3	---	---
309T Other acc/inc while operating switches/derails - equipment moving	19	18	1	19	---	---
SUBTOTAL.....	22	21	1	22	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
401T Persons on top locos/cars contacting fixed objects - equipment mov	4	3	1	4	---	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	38	35	2	37	---	1
409T Persons on loco/car coming in contact with fixed obj(others)-eqp mov	37	26	7	33	1	2
SUBTOTAL.....	79	64	10	74	1	2
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/missed hold of grabiron, handhold, etc. - eqp mov	48	43	3	46	---	1
502T Slip/fell due to losing/missing footing on step, stirrup, etc. - eqp mov	91	84	2	86	---	5
503T Stepping or tripping on parts of track in place - equipment moving	28	28	---	28	---	---
504T Stepping or tripping on foreign material or irreg surface - eqp mov	179	177	2	179	---	---
505T Slipping on ice or snow on ground - equipment moving	10	10	---	10	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	8	7	1	8	---	---
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	94	69	2	71	1	4
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	13	2	1	3	---	1
510T Striking body or falling due to sudden movement of equipment	27	23	---	23	---	2
511T Strike/struck by eqp/structures(not bridge/trestle), or mat - eqp mov	35	32	2	34	---	---
513T Jumping from equipment - equipment moving	74	40	3	43	---	5
514T Defective equipment - equipment moving	18	18	---	18	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	156	135	4	139	1	16
SUBTOTAL.....	781	668	20	688	2	47

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COLLISIONS, DERAILMENTS, ETC. (<= \$5,201)						
601T Casualty resulting fm a collision which did not satisfy \$ threshold	34	26	4	30	---	4
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	35	29	6	35	---	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	27	12	4	16	---	4
SUBTOTAL.....	96	67	14	81	---	4
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS						
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,084	33	5	38	---	1,837
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	106	4	---	4	1	98
SUBTOTAL.....	2,190	37	5	42	1	1,935
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	98	12	1	13	---	4
702T Crossing track at private rail-highway crossing - equipment moving	11	---	---	---	1	---
703T Crossing track not at a crossing - equipment moving	30	2	3	5	---	2
704T While on public thoroughfare - equipment moving	4	---	1	1	---	3
705T On bridges or trestles - equipment moving	20	1	---	1	---	4
706T Sitting or lying on track or near track, not in clear - eqp moving	102	---	1	1	---	4
707T While working on or along track - equipment moving	12	5	3	8	---	3
708T Passing over, through, or under cars - equipment moving	33	---	---	---	---	2
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	31	3	---	3	---	4
SUBTOTAL.....	341	23	9	32	1	26
SERVICING OR MAINTENANCE OF EQUIPMENT						
800T Absence of fixed signal (Blue Signal) - equipment moving	1	---	1	1	---	---
803T Striking or being struck by eqp, structures, or material-eqp mov	30	1	29	30	---	---
815T Moving equipment for repairs	34	1	33	34	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	22	1	20	21	---	1
SUBTOTAL.....	87	3	83	86	---	1
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	55	1	53	54	---	1
899T Other accs/incs while maintaining way and structures - eqp moving	26	---	26	26	---	---
SUBTOTAL.....	83	1	81	82	---	1
FREIGHT, BAGGAGE, EXPRESS OR MAIL						
901T Handling freight, baggage, express or mail-eqp moving	12	3	9	12	---	---
902T Struck or caught by shifted lading-eqp moving	4	2	---	2	---	---
903T Tripping over, or struck by falling baggage in passenger car-eqp mov	3	3	---	3	---	---
904T Other acc/inc involving freight, baggage, express, or mail - eqp mov	4	1	2	3	1	---
SUBTOTAL.....	23	9	11	20	1	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	... Employees On Duty... Trainmen	Other	Duty... Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	2	---	1	1	---	---	1	---
910T Closing or opening plug type car doors, defective equipment-eqp mov	4	1	3	4	---	---	---	---
911T Closing or opening plug type car doors, no defects-equipment mov	1	1	---	1	---	---	---	---
912T Closing or opening coach trap doors-equipment moving	5	1	4	5	---	---	---	---
913T Interior doors-equipment moving	11	5	3	8	---	2	---	1
914T Opening or closing locomotive doors-equipment moving	16	15	---	15	---	1	---	---
915T Opening or closing locomotive windows-equipment moving	6	6	---	6	---	---	---	---
916T Opening or closing caboose doors-equipment moving	5	5	---	5	---	---	---	---
917T Opening or closing caboose windows-equipment moving	1	1	---	1	---	---	---	---
918T Opening and closing other windows-equipment moving	4	2	1	3	---	1	---	---
919T Other accidents/incidents involving windows or doors-eqp mov	28	13	11	24	---	4	---	---
SUBTOTAL.....	83	50	23	73	---	8	1	1
PASSENGER CAR DOORS								
920T Caught by side doors while entering coach-equipment moving	2	1	1	2	---	---	---	---
921T Caught by side doors while exiting coach-equipment moving	1	---	---	---	---	1	---	---
924T Struck by side doors while entering coach-equipment moving	1	---	---	---	---	1	---	---
925T Struck by side doors while exiting coach-equipment moving	1	---	1	1	---	---	---	---
926T Striking side door while entering coach-equipment moving	1	1	---	1	---	---	---	---
SUBTOTAL.....	6	2	2	4	---	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	35	31	4	35	---	---	---	---
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	10	8	2	10	---	---	---	---
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	9	3	---	3	---	3	---	3
935T From bridges of trestles-equipment moving	2	---	1	1	---	---	---	1
936T From structures other than bridges or trestles-equipment moving	3	---	3	3	---	---	---	---
937T Into depressions - equipment moving	3	3	---	3	---	---	---	---
938T While on locomotive or car-equipment moving	123	38	54	92	---	27	1	3
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	26	14	6	20	---	2	2	2
SUBTOTAL.....	219	105	70	175	---	32	3	9
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T Foreign object in eye-equipment moving	162	155	4	159	---	3	---	---
941T Struck by flying or falling object (except assaults)-eqp mov	30	16	8	24	---	5	---	1
943T Fire or explosion of fuses or torpedoes-equipment moving	7	7	---	7	---	---	---	---
944T Other fire or explosion-equipment moving	1	1	---	1	---	---	---	---
945T Burned by hot or corrosive substances-equipment moving	12	7	5	12	---	---	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	10	9	1	10	---	---	---	---
947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	2	1	---	1	---	---	---	1
949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	18	14	2	16	---	1	1	---
SUBTOTAL.....	242	210	20	230	---	9	1	2

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty...	On Duty...	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATION OF ON-TRACK WORK EQUIPMENT								
950T Collision with train or car	2	---	2	2	---	---	---	---
951T Collision with other on-track work equipment	22	1	21	22	---	---	---	---
952T Jumping from equipment in anticipation of a collision	15	9	6	15	---	---	---	---
953T Derailment that does not satisfy monetary threshold	6	1	5	6	---	---	---	---
954T Getting on/off on-track work equipment - equipment moving	5	1	4	5	---	---	---	---
959T Other A/I involving on-track work equipment - equipment moving	14	---	14	14	---	---	---	---
SUBTOTAL.....	64	12	52	64	---	---	---	---
ASSAULT								
96AT Shot while on moving on-track equipment	4	4	---	4	---	---	---	---
96CT Struck by other propelled object while on locomotive - equip moving	41	41	---	41	---	---	---	---
96DT Struck by other propelled object while on car - equip moving	5	4	---	4	---	1	---	---
96ET Struck by other propelled object while on caboose - equip moving	15	15	---	15	---	---	---	---
96GT Other unprovoked assaults to persons on moving on-track equipment	17	11	5	16	---	1	---	---
96LT Other assaults connected with the protection of RR property - eqp moving	3	1	2	3	---	---	---	---
96MT All other assaults involving moving on-track equipment	3	2	---	2	1	---	---	---
SUBTOTAL.....	88	78	7	85	1	2	---	---
OTHER OCCURRENCES								
970T Performing rerailling or other clearing operations-equipment moving	3	2	1	3	---	---	---	---
971T Loco or car coming against car placed for loading or unloading	6	4	1	5	---	---	1	---
972T Sudden movement of car, not otherwise classified	28	14	9	23	---	3	2	---
974T Slack action in caboose	185	182	2	184	---	---	---	1
975T Slack action, other	75	74	1	75	---	---	---	---
976T Emergency or severe application of air brakes due to def eqp	5	5	---	5	---	---	---	---
977T Emergency or severe application of air brakes not due to def eqp	31	30	---	30	---	1	---	---
986T Unexpected move of caboose, not slack action (include emergency & severe brking)	23	21	2	23	---	---	---	---
987T Caboose fire, equipment moving	1	1	---	1	---	---	---	---
988T Other accidents/incidents while in caboose, equipment moving	40	40	---	40	---	---	---	---
989T Other accidents/incidents-equipment moving	102	52	26	78	2	12	2	8
SUBTOTAL.....	499	425	42	467	2	16	5	9
GRAND TOTAL.....	5,943	2,778	484	3,262	9	111	1,985	576

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	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS									
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	1	1	---	---	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	1	---	---	---	---
OPERATING OR ON LOCOMOTIVES									
109T Inhalation of or contact with fumes or gases - equipment moving	16	16	---	---	16	---	---	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	8	8	---	---	8	---	---	---	---
SUBTOTAL.....	24	24	---	---	24	---	---	---	---
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									
501T Slip/fell due to lost/misplaced hold of grabiron, handhold, etc. - eqp mov	1	1	---	---	1	---	---	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	3	3	---	---	3	---	---	---	---
SUBTOTAL.....	4	4	---	---	4	---	---	---	---
MAINTENANCE OF WAY AND STRUCTURES									
899T Other accs/incs while maintaining way and structures - eqp moving	1	---	---	1	1	---	---	---	---
SUBTOTAL.....	1	---	---	1	1	---	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED									
937T Into depressions - 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	---	---	---	---
941T Struck by flying or falling object (except assaults)-eqp mov	1	---	---	1	1	---	---	---	---
944T Other fire or explosion-equipment moving	1	1	---	---	1	---	---	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	10	10	---	---	10	---	---	---	---
SUBTOTAL.....	13	12	---	1	13	---	---	---	---
OPERATION OF ON-TRACK WORK EQUIPMENT									
951T Collision with other on-track work equipment	1	---	---	1	1	---	---	---	---
SUBTOTAL.....	1	---	---	1	1	---	---	---	---
OTHER OCCURRENCES									
987T Caboose fire, equipment moving	3	3	---	---	3	---	---	---	---
988T Other accidents/incidents while in caboose, equipment moving	2	2	---	---	2	---	---	---	---
989T Other accidents/incidents-equipment moving	2	2	---	---	2	---	---	---	---
SUBTOTAL.....	7	7	---	---	7	---	---	---	---
GRAND TOTAL.....	53	50	---	3	53	---	---	---	---

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
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
009 Other acc/inc while coupling/uncoupling cars or locos - equip 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	13	---	---	---	12	1
SUBTOTAL.....	13	---	---	---	12	1
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	2	---	---	---	---	2
708 Passing over, through, or under cars - equipment standing	1	---	---	---	---	1
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	2	---	---	---	---	2
SUBTOTAL.....	5	---	---	---	---	5
SERVICING OR MAINTENANCE OF EQUIPMENT						
810 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---
811 Use of lift trucks and other portable material handling eqp	1	---	1	1	---	---
819 Struck by flying or falling object	1	---	1	1	---	---
SUBTOTAL.....	3	---	3	3	---	---
MAINTENANCE OF WAY AND STRUCTURES						
853 Striking or being struck by eqp, structures, or material-eqp std	1	---	1	1	---	---
869 Struck by flying of falling object	1	---	1	1	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	2	---	2	2	---	---
SUBTOTAL.....	4	---	4	4	---	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT						
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	1	---	---	---	1	---
SUBTOTAL.....	1	---	---	---	1	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
935 From bridges or trestles	2	---	1	1	---	1
939 Other, stumbling, slipping, falling, caught, etc.	1	---	---	---	---	1
SUBTOTAL.....	3	---	1	1	---	2
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	3	---	1	1	---	2
SUBTOTAL.....	3	---	1	1	---	2
ASSAULT						
968 Shooting incidents not involving persons on on-track equipment	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
OTHER OCCURRENCES						
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	12	---	7	7	1	2
989 Other accidents/incidents	6	---	1	1	---	4
SUBTOTAL.....	18	---	8	8	1	6
GRAND TOTAL.....	52	2	17	19	16	16

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... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
002 Adjusting coupler - equipment standing	215	209	6	215	---	---
003 Crossing over, under or between on-track equipment, equipment standing	12	10	2	12	---	---
004 Adjusting coupler, part of coupler fell striking person-eqp standing	22	21	1	22	---	---
005 Use of uncoupling lever - equipment standing	70	66	4	70	---	---
007 Striking parts of body against equipment - equipment standing	43	41	2	43	---	---
008 Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std	67	63	4	67	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	101	90	10	100	1	---
SUBTOTAL.....	530	500	29	529	1	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051 Crossing over, under or between on-track equipment, equipment standing	6	5	1	6	---	---
052 Uncoupl air hose, struck by hose due to sudden release of air - eqp std	29	26	3	29	---	---
053 Coupling air hose, stkl by hose due to sudden release of air - eqp std	23	18	5	23	---	---
054 Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp standing	39	36	3	39	---	---
055 Defective equipment - equipment standing	4	3	1	4	---	---
056 Burned by hot water or steam from hose - equipment standing	2	1	1	2	---	---
057 Opening or closing angle cocks - equipment standing	44	39	5	44	---	---
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	112	92	20	112	---	---
SUBTOTAL.....	259	220	39	259	---	---
OPERATING OR ON LOCOMOTIVES						
101 Burn or electrical shock - equipment standing	8	5	2	7	1	---
102 Striking parts of body against equipment, moving about loco-eqp std	70	66	4	70	---	---
103 Struck by tools or other objects falling - equipment standing	9	5	4	9	---	---
104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	116	100	15	115	1	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing	36	22	14	36	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	13	12	1	13	---	---
110 Defective locomotive seat - equipment standing	40	37	3	40	---	---
111 Adjusting locomotive seat - equipment standing	31	31	---	31	---	---
112 Foreign object in eye - equipment standing	70	67	3	70	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	99	92	7	99	---	---
SUBTOTAL.....	492	437	53	490	2	---
OPERATING RAIL MOTORCARS						
151 Striking parts of body against equipment - equipment standing	3	---	3	3	---	---
152 Struck by tools or other objects falling - equipment standing	2	---	2	2	---	---
153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	2	---	2	2	---	---
155 Placing or removing rail motorcar on or off rail	20	1	19	20	---	---
159 Other accidents/incidents while operating rail motorcars - eqp std	4	3	1	4	---	---
SUBTOTAL.....	31	4	27	31	---	---

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATING HAND BRAKES						
200 Manipulating hand brakes, no defects, equipment standing	194	182	12	194	---	---
201 Defective equipment - equipment standing	20	19	1	20	---	---
202 Pawl slipping or accidentally knocked out of ratchet - eqp standing	4	3	1	4	---	---
203 Striking body not due to movement of equipment	12	12	---	12	---	---
206 Brake chains or bolts, breaking or giving way - equipment standing	5	4	1	5	---	---
207 Losing hold, slipping, or falling - equipment standing	29	28	1	29	---	---
208 Caught hand or fingers in spinning brake wheel - equipment standing	7	6	1	7	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing	57	53	4	57	---	---
SUBTOTAL.....	328	307	21	328	---	---
OPERATING SWITCHES OR DERAILS						
301 Slipped, tripped or fell due to ice or snow	18	16	2	18	---	---
302 Slipped, tripped or fell not due to ice or snow	32	27	5	32	---	---
303 Parts of body struck or caught by mechanism of switch	46	39	7	46	---	---
305 Lining switches, defective equipment	127	117	10	127	---	---
306 Lining switches, no defects	614	564	50	614	---	---
307 Manipulating derail, no defects	38	34	4	38	---	---
308 Manipulating derail, defective equipment	4	4	---	4	---	---
309 Other acc/inc while operating switches/derails - equipment standing	113	99	14	113	---	---
SUBTOTAL.....	992	900	92	992	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
402 Persons on side/end of locos/cars contacting fixed objects - eqp std	6	5	1	6	---	---
409 Persons on loco/car coming in contact with fixed obj(others)-eqp std	17	8	9	17	---	---
SUBTOTAL.....	23	13	10	23	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501 Slip/fell due to lost/missed hold of grabiron, handhold, etc. -eqp std	86	61	21	82	---	3
502 Slip/fell due to losing/missing footing on step, stirrup, etc. -eqp std	171	111	40	151	3	17
503 Stepping or tripping on parts of track in place - equipment standing	43	33	7	40	---	2
504 Stepping or tripping on foreign material or irreg surface - eqp std	206	169	31	200	2	3
505 Slipping on ice or snow on ground - equipment standing	33	29	2	31	1	1
506 Slipping on ice/snow on cars or locomotives - equipment standing	26	19	7	26	---	---
507 Falling, slipping, tripping, not elsewhere classified - eqp std	92	55	28	83	1	5
508 Slipping/falling while boarding/alighting fm passenger eqp(standing)	84	14	13	27	2	51
511 Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	26	19	6	25	---	1
512 Striking or being struck by bridges or trestles - equipment standing	2	1	1	2	---	---
513 Jumping from equipment - equipment standing	14	8	3	11	---	2
514 Defective equipment - equipment standing	24	20	4	24	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std	240	182	49	231	2	4
SUBTOTAL.....	1,047	721	212	933	11	85

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Trainmen	Duty... Other	Total	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	83	---	---	---	---	---	76	7
SUBTOTAL.....	83	---	---	---	---	---	76	7
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	6	1	2	3	1	---	---	2
703 Crossing track no. at a crossing - equipment standing	5	---	---	---	---	---	---	5
708 Passing over, through, or under cars - equipment standing	6	---	2	2	---	---	---	4
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	12	1	5	6	---	---	1	5
SUBTOTAL.....	29	2	9	11	1	---	1	16
SERVICING OR MAINTENANCE OF EQUIPMENT								
802 Crossing over, under, or between locos or cars - equipment standing	37	2	35	37	---	---	---	---
803 Striking or being struck by eqp, structures, or material-eqp std	343	8	335	343	---	---	---	---
804 Use of hand tools	492	2	489	491	---	---	1	---
805 Use of portable power tools	102	1	101	102	---	---	---	---
806 Use of welding equipment	66	---	66	66	---	---	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	80	---	80	80	---	---	---	---
808 Use of grinding equipment	30	---	30	30	---	---	---	---
809 Use of scaffolds, ladders, etc.	53	---	53	53	---	---	---	---
81A Lifting parts to install while making repairs	157	4	152	156	1	---	---	---
810 Use of cranes, hoists, derricks, piledrivers, etc.	83	1	81	82	---	---	1	---
811 Use of lift trucks and other portable material handling eqp	90	---	90	90	---	---	---	---
812 Use of shop machinery not elsewhere classified	73	---	73	73	---	---	---	---
813 Loading and unloading materials	182	1	181	182	---	---	---	---
814 Handling material by hand	609	6	603	609	---	---	---	---
816 Inhalation of or contact with fumes or gases	12	---	11	11	1	---	---	---
817 Foreign object in eye, using eye protection	188	1	187	188	---	---	---	---
818 Foreign object in eye, not using eye protection	74	6	68	74	---	---	---	---
819 Struck by flying or falling object	178	1	176	177	1	---	---	---
820 Electrical flash, shock, or burn	54	2	51	53	---	---	1	---
821 Fire or explosion of fuses or torpedoes	3	1	2	3	---	---	---	---
822 Other fire or explosion	16	---	16	16	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	67	2	64	66	1	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	725	6	695	701	24	---	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	748	11	731	742	5	---	1	---
SUBTOTAL.....	4,462	55	4,370	4,425	33	---	4	---

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
MAINTENANCE OF WAY AND STRUCTURES						
852 Crossing over, under, or between locos or cars-eqp std	10	---	10	10	---	---
853 Striking or being struck by eqp, structures, or material-eqp std	326	2	321	323	2	---
854 Use of hand tools	658	4	651	655	1	---
855 Use of portable power tools	193	---	191	191	---	2
856 Use of welding equipment	54	---	54	54	---	---
857 Use of oxygen-acetylene, natural gas cutting equipment	32	---	32	32	---	---
858 Use of grinding equipment	74	1	72	73	---	1
859 Use of scaffolds, ladders, etc.	40	---	39	39	---	1
860 Use of cranes, hoists, derricks, piledrivers, etc.	93	---	92	92	---	1
861 Use of lift trucks and other portable material handling eqp	38	---	38	38	---	---
862 Use of shop machinery not elsewhere classified	24	---	24	24	---	---
863 Loading and unloading materials	460	---	457	457	1	2
864 Handling material by hand	597	2	586	588	6	3
866 Inhalation of or contact with fumes or gases	4	---	4	4	---	---
867 Foreign object in eye, using eye protection	113	3	110	113	---	---
868 Foreign object in eye, not using eye protection	78	3	66	69	5	4
869 Struck by flying of falling object	241	1	240	241	---	---
870 Electrical flash, shock, or burn	45	---	44	44	---	1
871 Fire or explosion of fuses or torpedoes	3	---	3	3	---	---
872 Other fire or explosion	25	---	23	23	2	---
873 Burned or irritated by hot, corrosive or toxic substances	45	---	44	44	---	1
874 Stumbling, slipping, falling, caught, not elsewhere classified	703	6	662	668	30	5
875 Use of maintenance of way equipment not elsewhere classified	151	1	150	151	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	262	---	261	261	---	1
877 Insert/remove ties, switch timbers and tie plates using portable power tools	46	1	45	46	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	196	---	195	195	---	1
879 Handling rail by use of power tools	47	1	46	47	---	---
880 Handling rail by use of hand tools	139	1	138	139	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	121	---	119	119	1	1
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	360	2	355	357	---	3
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	149	---	148	148	---	1
893 Servicing or repairing MOH equipment at work site	150	---	147	147	1	2
899 Other accs/incs while maintaining way and structures - eqp standing	388	---	377	377	5	6
SUBTOTAL.....	5,865	28	5,744	5,772	54	39
FREIGHT, BAGGAGE, EXPRESS OR MAIL						
901 Handling freight, baggage, express or mail	72	11	61	72	---	---
902 Struck or caught by shifted lading	4	2	1	3	---	1
903 Tripping over, or struck by falling baggage in passenger car-eqp std	2	2	---	2	---	---
904 Other accident/incident involving freight, baggage, express, or mail	29	2	26	28	---	1
SUBTOTAL.....	107	17	88	105	---	1

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT							
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	30	3	27	30	---	---	---
908 Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	22	4	16	20	---	2	---
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	52	10	41	51	---	1	---
910 Closing or opening plug type car doors, defective equipment-eqp std	10	1	9	10	---	---	---
911 Closing or opening plug type car doors, no defects-equipment std	29	7	22	29	---	---	---
912 Closing or opening coach trap doors-equipment standing	33	27	6	33	---	---	---
913 Interior doors-equipment standing	48	36	10	46	1	1	---
914 Opening or closing locomotive doors-equipment standing	35	29	6	35	---	---	---
915 Opening or closing locomotive windows-equipment standing	8	8	---	8	---	---	---
916 Opening or closing caboose doors-equipment standing	7	7	---	7	---	---	---
917 Opening or closing caboose windows-equipment standing	1	1	---	1	---	---	---
918 Opening and closing other windows	6	2	4	6	---	---	---
919 Other accidents/incidents involving windows or doors	87	37	40	77	5	3	2
SUBTOTAL.....	368	172	181	353	6	4	5
PASSENGER CAR DOORS							
920 Caught by side doors while entering coach-equipment standing	1	---	---	---	---	1	---
921 Caught by side doors while exiting coach-equipment standing	2	---	---	---	1	1	---
924 Struck by side doors while entering coach-equipment standing	1	1	---	1	---	---	---
925 Struck by side doors while exiting coach-equipment standing	1	---	---	---	---	1	---
926 Striking side door while entering coach-equipment standing	1	---	1	1	---	---	---
927 Striking side door while exiting coach-equipment standing	1	1	---	1	---	---	---
SUBTOTAL.....	7	2	1	3	1	3	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED							
930 Stumbling/slipping, etc. on snow or ice	231	93	97	190	32	4	5
931 Stumbling/slipping, etc. on foreign material or irregular surface	617	334	223	557	30	5	25
932 Stumbling/slipping, etc. on parts of track in place	131	65	56	121	3	1	6
933 Stumbling/slipping, etc. on stairways, ramps or platforms	363	43	150	193	39	18	112
934 Slip/fall, etc. between loco/car and other cars and struct-eqp std	28	11	9	20	3	4	---
935 From bridges or trestles	26	4	13	17	1	1	---
936 From structures other than bridges or trestles	27	2	18	20	2	---	3
937 Into depressions	78	46	22	68	5	1	4
938 While on locomotive or car-equipment standing	92	22	53	75	5	6	5
939 Other, stumbling, slipping, falling, caught, etc.	252	88	118	206	22	5	17
SUBTOTAL.....	1,845	708	759	1,467	142	45	177

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
940 Foreign object in eye	228	170	47	217	4	7
941 Struck by flying or falling object (except assaults)	78	31	37	68	1	7
942 Electrical flash, shock, or burn	10	2	6	8	---	1
943 Fire or explosion of fuses or torpedoes	7	3	1	4	1	2
944 Other fire or explosion	6	3	2	5	---	1
945 Burned by hot or corrosive substances	17	4	10	14	1	2
946 Inhalation of or contact with fumes or gases	42	25	8	33	3	6
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	8	---	---	---	---	8
949 Other acc/inc resulting from flying/falling objs, burns, etc.	46	15	25	40	2	4
SUBTOTAL.....	442	253	136	389	12	30
OPERATION OF ON-TRACK WORK EQUIPMENT						
954 Getting on/off on-track work equipment - equipment standing	42	---	40	40	---	2
959 Other A/I involving on-track work equipment - equipment standing	45	2	43	45	---	---
SUBTOTAL.....	87	2	83	85	---	2
ASSAULT						
96A Shot while on standing on-track equipment	1	---	1	1	---	---
96B Shooting incidents not involving persons on on-track equipment	2	---	2	2	---	---
96C Struck by other propelled object while on locomotive - equip standing	5	3	2	5	---	---
96D Struck by other propelled object while on car - equip standing	2	1	1	2	---	---
96F Struck by other propelled object, not on on-track equipment	9	4	5	9	---	---
96G All other unprovoked assaults	77	23	45	68	5	3
96L Other assaults connected with the protection of RR property - eqp standing	39	2	37	39	---	---
96M All other assaults not involving moving on-track equipment	45	11	30	41	1	3
96N Injuries sustained by ther perpetrator of an assault	8	1	4	5	---	3
SUBTOTAL.....	188	45	127	172	6	6
OTHER OCCURRENCES						
970 Performing rerailling or other clearing operations	39	8	30	38	---	1
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	561	124	362	486	41	16
979 Servicing and maintenance of highway vehicles	22	---	20	20	---	2
980 Horseplay	14	3	7	10	1	1
981 Animal bites, including snake bites	19	3	15	18	1	---
982 Insect bites	193	69	112	181	10	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	441	12	414	426	15	---
984 Contact with poisonous plants	27	---	26	26	1	---
985 Stepping on nails or other sharp objects	51	20	28	48	---	3
987 Caboose fire, equipment standing	1	---	1	1	---	---
988 Other accidents/incidents while in caboose, equipment standing	17	14	3	17	---	---
989 Other accidents/incidents	593	154	310	464	36	10
SUBTOTAL.....	1,978	407	1,328	1,735	105	29
GRAND TOTAL.....	19,163	4,793	13,309	18,102	374	84

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	Nontres-passers	Tres-passers
		Trainmen	Other	Total		
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
002 Adjusting coupler - equipment standing	1	1	---	1	---	---
005 Use of uncoupling lever - equipment standing	1	1	---	1	---	---
009 Other acc/inc while coupl/uncoupling cars or locos - equip std	3	3	---	3	---	---
SUBTOTAL.....	5	5	---	5	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
OPERATING OR ON LOCOMOTIVES						
109 Inhalation of or contact with fumes or gases - equipment standing	17	16	1	17	---	---
110 Defective locomotive seat - equipment standing	1	---	1	1	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	4	3	1	4	---	---
SUBTOTAL.....	22	19	3	22	---	---
OPERATING SWITCHES OR DERAILS						
306 Lining switches, no defects	2	1	---	1	1	---
SUBTOTAL.....	2	1	---	1	1	---
SERVICING OR MAINTENANCE OF EQUIPMENT						
803 Striking or being struck by eqp, structures, or material-eqp std	2	---	2	2	---	---
804 Use of hand tools	1	---	1	1	---	---
805 Use of portable power tools	1	---	1	1	---	---
806 Use of welding equipment	4	---	4	4	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	2	---	2	2	---	---
812 Use of shop machinery not elsewhere classified	1	---	1	1	---	---
814 Handling material by hand	4	---	4	4	---	---
816 Inhalation of or contact with fumes or gases	13	1	12	13	---	---
817 Foreign object in eye, using eye protection	2	---	2	2	---	---
820 Electrical flash, shock, or burn	1	---	1	1	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	4	1	3	4	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	1	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	19	---	19	19	---	---
SUBTOTAL.....	55	2	53	55	---	---

TABLE 71. (CONTINUED)

Occurrence	Total Illness	...Employees On Duty...	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES						
854 Use of hand tools	4	---	4	---	---	---
856 Use of welding equipment	7	---	7	---	---	---
857 Use of oxygen-acetylene, natural gas cutting equipment	1	---	1	---	---	---
858 Use of grinding equipment	1	---	1	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	---	---	---
863 Loading and unloading materials	2	---	2	---	---	---
864 Handling material by hand	2	---	2	---	---	---
866 Inhalation of or contact with fumes or gases	10	---	7	3	---	---
873 Burned or irritated by hot, corrosive or toxic substances	6	---	6	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	---	---	---
875 Use of maintenance of way equipment not elsewhere classified	1	---	1	---	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	4	---	4	---	---	---
877 Insert/remove ties, switch timbers and tie plates using portable power tools	1	---	1	---	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	1	---	1	---	---	---
880 Handling rail by use of hand tools	1	---	1	---	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	3	---	3	---	---	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	4	---	4	---	---	---
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	1	---	1	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	19	---	19	---	---	---
SUBTOTAL.....	70	---	67	3	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
931 Stumbling/slipping, etc. on foreign material or irregular surface	1	1	---	1	---	---
932 Stumbling/slipping, etc. on parts of track in place	1	1	---	1	---	---
939 Other, stumbling, slipping, falling, caught, etc.	1	1	---	1	---	---
SUBTOTAL.....	3	3	---	3	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
946 Inhalation of or contact with fumes or gases	24	15	9	24	---	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	2	2	---	2	---	---
SUBTOTAL.....	26	17	9	26	---	---
OTHER OCCURRENCES						
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	7	4	3	7	---	---
982 Insect bites	1	---	1	1	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	15	---	14	14	1	---
984 Contact with poisonous plants	42	2	40	42	---	---
985 Stepping on nails or other sharp objects	2	---	1	1	1	---
988 Other accidents/incidents while in caboose, equipment standing	1	1	---	1	---	---
989 Other accidents/incidents	13	6	7	13	---	---
SUBTOTAL.....	81	13	66	79	2	---
GRAND TOTAL.....	265	61	198	259	6	---

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 1987 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 \$5,200 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 impression 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 6180-88A	TOTAL FRA FORMS 6180-84
TOTAL FRA FORMS 6180-87		

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

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES					
LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

FORM FRA F 6180-55 (8-78) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

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

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1 NAME OF REPORTING RAILROAD		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"/>
7 TYPE OF ACCIDENT/INCIDENT (enter number in code box - single entry)				
1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify) _____ 2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion/Detonation				
HAZARDOUS MATERIALS (number of)				
8 CARS CARRYING	9 CARS DAMAGED OR DERAILED	10 CARS WHICH RELEASED HAZ. MAT.	11 PEOPLE EVACUATED (est.)	
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. Dust 2. Day 4. Dark	CODE	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	21 TRAIN NUMBER	22 TIME TABLE DIRECTION 1. North 2. South 3. East 4. West		CODE
EQUIPMENT				
23 TRAILING TONS (gross tonnage including 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 locos		CODE	25 WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? 1. Yes 2. No
26 TRACK NUMBER OR NAME	27 FRA TRACK CLASSIFICATION	28 ANNUAL TRACK DENSITY (gross tons in millions)	29 TYPE OF TRACK 1. Main 3. Siding 2. Yard 4. Industry	
30 PRINCIPLE CAR UNIT (1) First Involved (derailed, struck, striking, etc.) (2) Causing (mechanical failures)	30a Initial and Number	30b Position in Train	30c Loaded (yes or no)	
31 LOCOMOTIVE UNITS (no. of)	a. Head End b. Mid Train c. Remote d. Rear End e. Remote	32 CARS (no. of)		a. Freight b. Pass. c. Freight d. Pass. e. Caboose
(1) Total in Train		(1) Total in Equipment Consist		
(2) Total Derailed		(2) Total Derailed		
PROPERTY DAMAGE (estimated cost, including labor to repair or replace)				
33 EQUIPMENT DAMAGE (to be reported for this equipment consist only) \$		34 TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) \$		
ACCIDENT/INCIDENT CAUSE CODE				
35 PRIMARY CAUSE CODE	36 CONTRIBUTING CAUSE CODE	37 If no code available, explain cause.		
CASUALTIES				
38 NUMBER OF PERSONS INJURED	39 ESTIMATED TOTAL DAYS DISABILITY	40 NUMBER OF FATALITIES		
CREW (no. of)			HOURS ON DUTY	
41 ENGINEERS	42 FIREMEN	43 CONDUCTORS	44 BRAKEMEN	45 ENGINEER Hrs: Mins:
				46 CONDUCTOR Hrs: Mins:
47 TYPED NAME AND TITLE			48 SIGNATURE	
			49 DATE	
50 NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident				

**RAIL-HIGHWAY GRADE CROSSING
ACCIDENT/INCIDENT REPORT**

1. NAME OF REPORTING RAILROAD		Amtrak Autotrak	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 4. Bus 5. School Bus 7. Pedestrian 2. Truck 8. Other (specify)	CODE	16. EQUIPMENT 1. Train (units pulling) 3. Train (standing) 6. Light locom(s) (moving) 2. Train (units pushing) 4. Car(s) (moving) 7. Light locom(s) (standing) 5. Car(s) (standing) 8. Other (specify)	CODE	
13. SPEED (estimated mph at impact)	14. DIRECTION (geographical) 1. North 3. East 2. South 4. West	CODE	17. POSITION OF CAR/UNIT IN TRAIN	CODE
15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing	CODE	18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user	CODE	
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials?		1. Highway user 2. Rail equipment 3. Both 4. Neither		
ENVIRONMENT				
20. TEMPERATURE (specify if minus) °F	21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark	CODE	22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow	CODE
TRAIN AND TRACK				
23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry	CODE	
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION	27. NUMBER OF LOCOMOTIVE UNITS		
28. NUMBER OF CARS	29. TRAIN SPEED (recorded speed, if available) MPH Est Recorded	30. TIME TABLE DIRECTION 1. North 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"/> Flagged by crew 3. <input type="checkbox"/> Standard FLS 7. <input type="checkbox"/> Crossbucks 11. <input type="checkbox"/> Other (specify) 4. <input type="checkbox"/> Wig Wags 8. <input type="checkbox"/> Stop Signs 12. <input type="checkbox"/> None	32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No		CODE	
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	CODE	35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown
MOTORIST ACTION				
36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown		CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	
38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown		CODE		
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 4. Topography 5. Vegetation 6. Highway vehicles 7. Other (specify) 8. Not obstructed		CODE		
HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES				
40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured	CODE	42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No	
43. TOTAL NUMBER OF OCCUPANTS KILLED	44. TOTAL NUMBER OF OCCUPANTS INJURED	45. TOTAL NUMBER OF OCCUPANTS (include driver)		
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No				
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. _____

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CORPORATE NAME AND MAILING ADDRESS OF REPORTING RAILROAD →

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

FORM FRA F8180-45 (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: _____

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ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

1. REPORTING RAILROAD	ALPHABETIC CODE	2. REPORT YEAR
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ANNUAL MANHOURS							
A.	STATE	B. CODE	C. M/HRS	A.	STATE	B. CODE	C. M/HRS
(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.

