



**U.S. Department of  
Transportation**

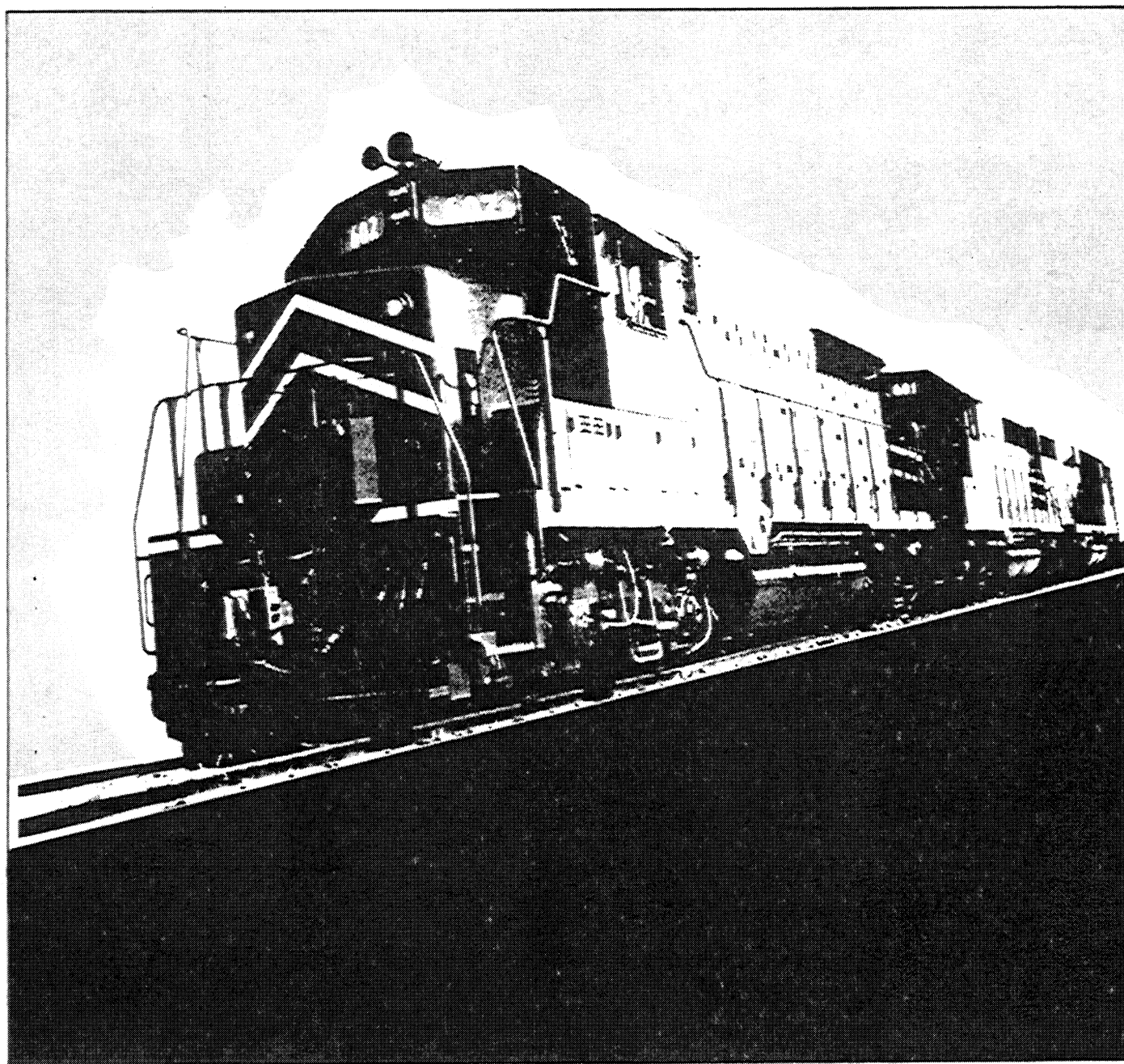
Federal Railroad  
Administration  
Office of Safety

# **Accident/Incident Bulletin**

## **No. 159**

## **Calendar Year 1990**

**July 1991**



NOTICE

This document is prepared from reports submitted by the railroads to the Federal Railroad Administration in accordance with Regulation 49 C.F.R. 225. These data have been edited and summarized by FRA personnel. The United States Government assumes no liability for its contents or its use.

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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 159 summarizes reportable accidents/incidents that occurred in the United States during 1990.

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 1990 was \$5,700.

While this revision improved the comparability of the data, comparisons are valid only for those years when the threshold was adjusted. Generally, the number of reported accidents is higher in a year following an adjustment. Biennial adjustments not only make year-to-year statistical comparisons difficult, but also impose an unnecessary reporting burden to the railroads. To get a clearer picture of annual trends, it is necessary to adjust the second year of a threshold. This was done by limiting the count of accidents in 1986 to those over \$5,050, in 1988 to those over \$5,452, and in 1990 to those over \$6,000. 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 1990 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.

Most accidents that occur at highway-rail crossings between the highway user and on-track equipment do not qualify as reportable train accidents. In 1990, 166 highway-rail crossing accidents qualified as reportable train accidents. These accidents are also tabulated in the Highway-Rail Accident/Incident and Inventory Bulletin. This year another category was created in the section "Historical Trends, Last 6 Years" to isolate train accidents that are the result of highway-rail crossing collisions. The totals for accidents and incidents have not changed with this new category.

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 (22.8% in 1990);
  - ii) the injury caused the employee to be absent from work for at least one day (68% in 1990);
  - iii) the injury caused the employee to be restricted in the performance of his work (9.2% in 1990).

An example of the types of injuries reported can be found in this year's bulletin. In 1990, 49% of all injuries were sprains and strains, 17% were bruises and contusions, and 11% were cuts and lacerations. These injuries accounted for 77% of the total. Approximately 25% 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 5.9% of the total employee injuries. In 60.2% of the eye injuries, the employee was treated and returned to work without any restriction. Serious injuries such as amputations and fractures accounted for .3% and 6.4%, respectively, of all injuries reported in 1990.

There is a common perception that most employee injuries occur in connection with the movement of on-track equipment. Approximately 85%, however, involve other circumstances. There were 17,050 employees hurt in 1990 in incidents where moving on-track equipment was not a factor. The majority of these injuries occurred while the employee was performing maintenance work. Employees in maintenance of way and maintenance of equipment occupational categories sustained 63% of the injuries that did not involve moving on-track equipment.

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

### EMPLOYEE INJURIES BY TYPE INJURY

Injury	Total Cases	Absent From Work.....				Restricted Duty	Other	
		Cases	-----Number of Days Off -----					
		1-5	6-10	11-15	>= 16			
<b>INJURIES ASSOCIATED WITH TRAIN MOVEMENTS</b>								
Bruise/contusion, unspecified	773	611	169	95	62	285	42	120
Sprain/strain, unspecified	1,519	1,302	276	183	75	768	87	130
Cut/abrasion, unspecified	245	155	43	31	11	70	11	79
Puncture wound, unspecified	15	7	3	2	0	2	1	7
Electric shock/burn, unspecified	6	3	2	0	0	1	1	2
Other burn, unspecified	30	23	8	5	1	9	1	6
Dislocation, unspecified	22	19	3	0	1	15	0	3
Fracture, unspecified	191	174	7	13	8	146	8	9
Dental related	5	2	1	0	0	1	1	2
Amputation, unspecified	24	21	1	0	0	20	1	2
Object in eye	305	154	122	15	6	11	18	133
Hernia	3	3	0	0	0	3	0	0
Concussion	15	14	1	2	1	10	0	1
Nervous shock	13	10	6	0	1	3	1	2
Internal injury	12	11	3	3	0	5	1	0
Skin reaction, unspecified	8	5	4	1	0	0	1	2
Unspecified injury	180	154	60	28	12	54	3	23
Subtotal	3,366	2,668	709	378	178	1,403	177	521
<b>INJURIES RESULTING FROM OTHER EVENTS</b>								
Bruise/contusion, unspecified	2,735	1,774	666	243	153	712	307	654
Sprain/strain, unspecified	8,483	6,558	1,641	924	452	3,541	828	1,097
Cut/abrasion, unspecified	2,021	758	331	136	54	237	180	1,083
Puncture wound, unspecified	303	114	66	24	10	14	26	163
Electric shock/burn, unspecified	91	57	31	6	4	16	8	26
Other burn, unspecified	246	91	46	18	7	20	36	119
Dislocation, unspecified	81	59	8	8	4	39	10	12
Fracture, unspecified	1,109	781	105	73	55	548	163	165
Dental related	69	14	10	0	0	4	1	54
Amputation, unspecified	28	20	5	1	0	14	1	7
Object in eye	909	329	285	22	5	17	72	508
Hernia	155	117	6	4	6	101	10	8
Concussion	33	27	7	3	3	14	2	4
Nervous shock	9	8	2	1	1	4	1	0
Internal injury	25	23	10	1	0	12	0	2
Loss of eye	2	1	0	0	0	1	1	0
Skin reaction, unspecified	95	43	27	8	4	4	7	45
Unspecified injury	676	436	228	55	21	132	49	191
Subtotal	17,050	11,210	3,474	1,527	779	5,430	1,762	4,138
Final Total	20,416	13,878	4,183	1,905	957	6,833	1,879	4,659

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	-----Number of Days Off -----			Duty	Other	
			1-5	6-10	11-15	>= 16		
<b>INJURIES ASSOCIATED WITH TRAIN MOVEMENTS</b>								
1	5	3	1	0	0	2	0	2
2	25	16	1	3	1	11	3	6
3	231	164	39	23	5	97	21	46
4	199	147	31	24	10	82	22	30
5	158	134	38	28	8	60	0	24
6	2,748	2,204	599	300	154	1,151	131	413
Sub	3,366	2,668	709	378	178	1,403	177	521

**INJURIES ASSOCIATED WITH TRAIN MOVEMENTS**

1	42	20	10	0	2	8	1	21
2	953	666	243	91	53	279	54	233
3	5,802	3,271	990	432	229	1,620	735	1,796
4	4,907	2,939	993	422	187	1,337	617	1,351
5	440	325	115	50	30	130	18	97
6	4,906	3,989	1,123	532	278	2,056	277	640
Sub	17,050	11,210	3,474	1,527	779	5,430	1,702	4,138
<b>Total</b>	<b>20,416</b>	<b>13,878</b>	<b>4,183</b>	<b>1,905</b>	<b>957</b>	<b>6,833</b>	<b>1,879</b>	<b>4,659</b>

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

# 1. HISTORICAL TRENDS, LAST 6 YEARS

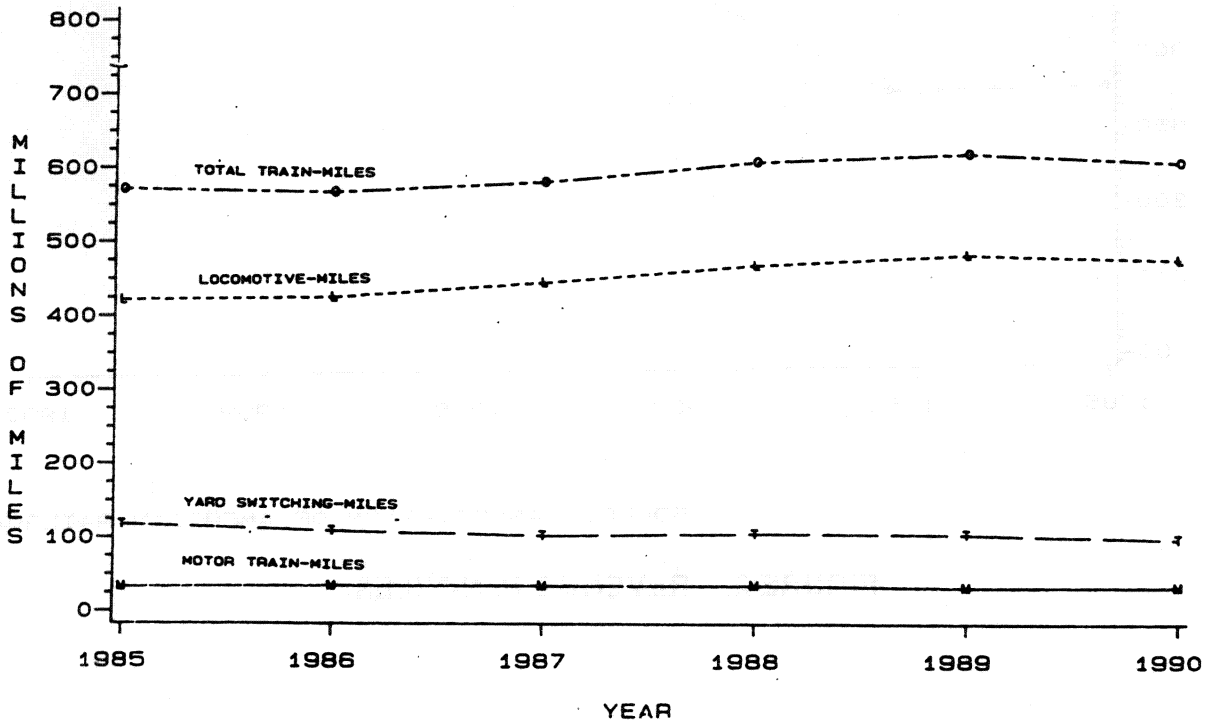
## OPERATIONS

**TABLE 1. RAILROAD OPERATIONAL PROFILE**

YEAR	EMPLOYEE HOURS	MOTOR TRAIN MILES	YARD SWITCHING MILES	LOCOMOTIVE TRAIN MILES	TOTAL TRAIN MILES
1985	696,911	32,457	117,059	421,395	570,911
1986	644,351	34,015	108,258	424,825	567,099
1987	618,992	34,077	101,955	445,282	581,314
1988	608,086	34,877	105,325	469,132	609,334
1989	578,410	32,542	104,330	483,727	620,599
1990	553,603	33,227	98,151	477,459	608,837

4.62  
4.32  
4.68

Note: All figures are shown in thousands

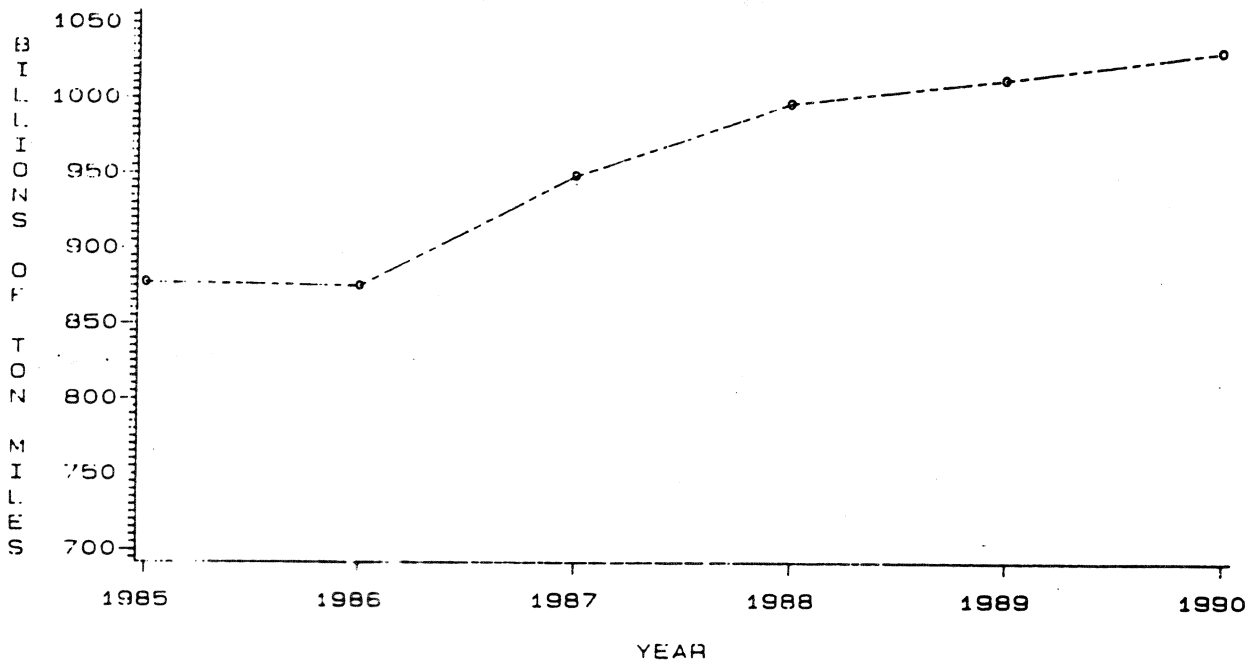


**FIGURE 1. RAILROAD TRAIN-MILES**

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

1985	877.0
1986	874.6
1987	948.0
1988	996.2
1989	1,012.3
1990	1,031.0

1990 figures are preliminary



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

**FIGURE 2. REVENUE TON-MILES**

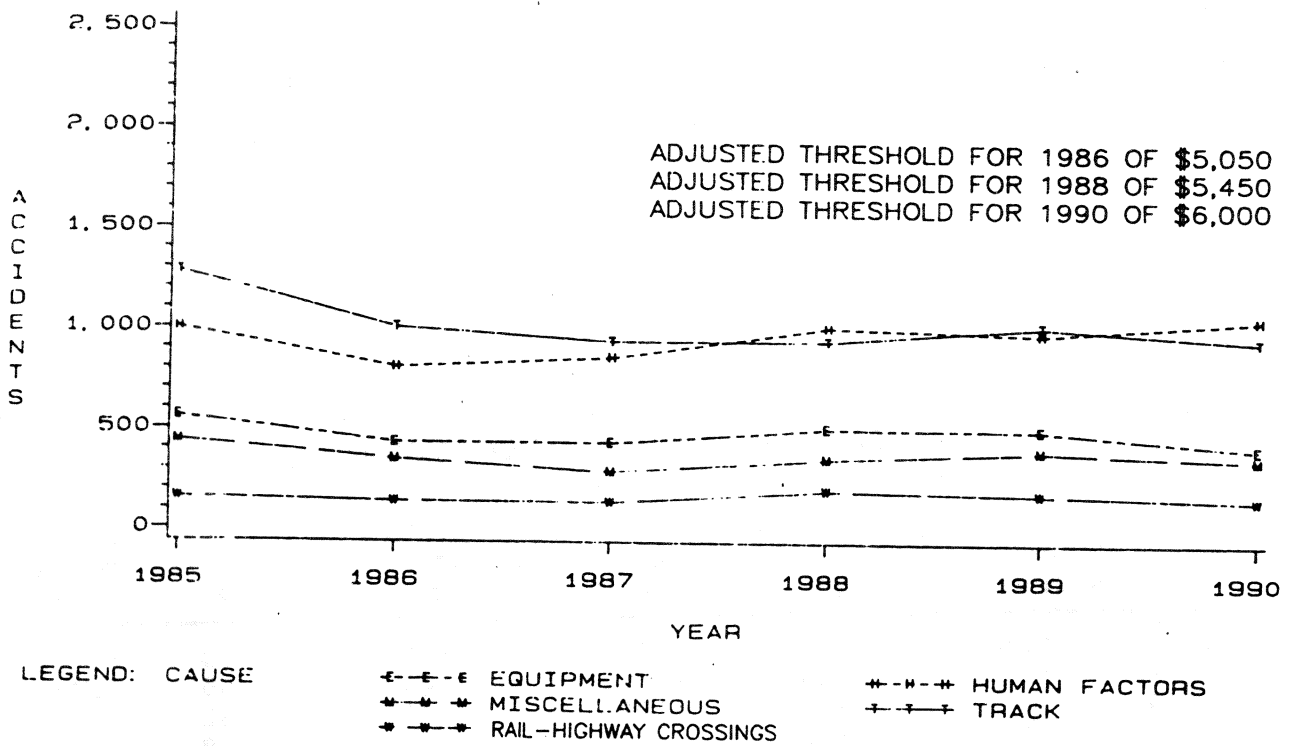


**TRAIN ACCIDENTS**

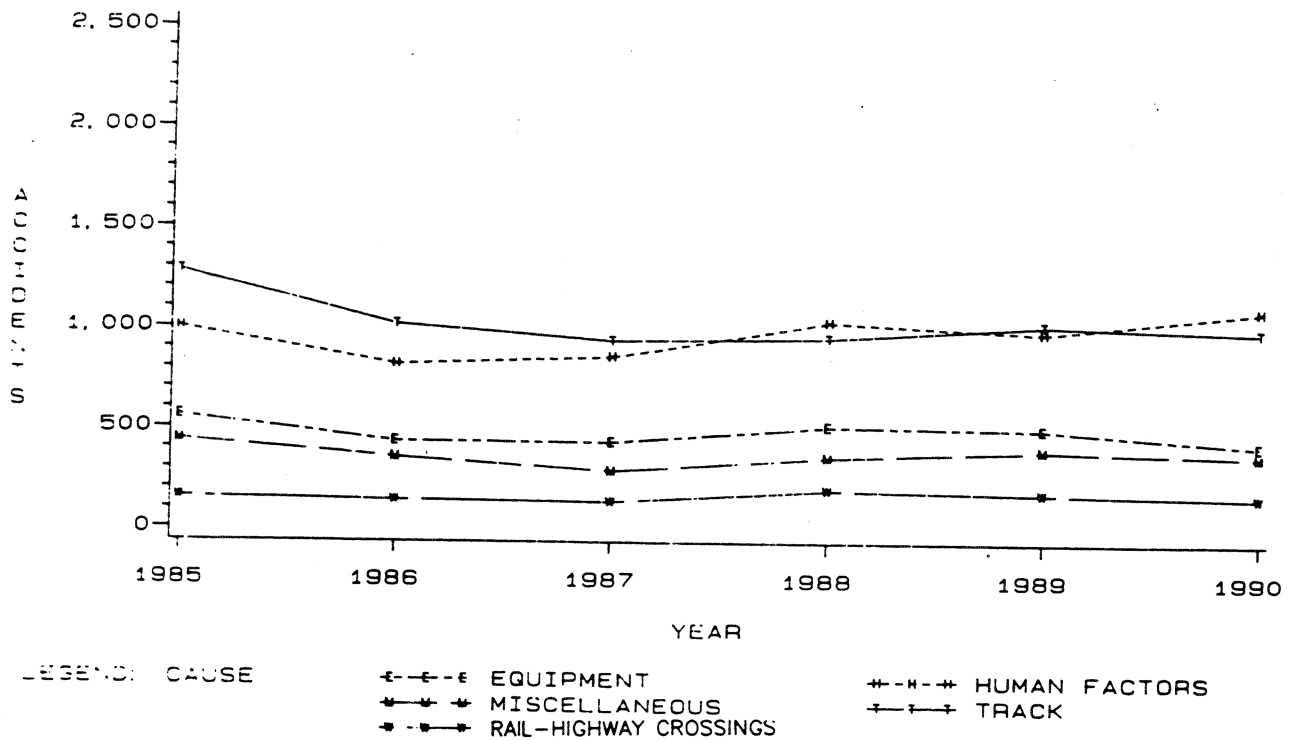
**TABLE 3. TRAIN ACCIDENT CAUSES**

YEAR	HUMAN FACTORS	MECHANICAL & ELECTRICAL FAILURES	TRACK DEFECTS	RAIL-HIGHWAY CROSSING IMPACTS	OTHER	TOTAL TRAIN ACCIDENTS
1985	998	559	1,279	155	439	3,430
1986	816	433	1,016	141	355	2,761
1987	856	430	938	135	288	2,647
1988	1,031	512	952	197	359	3,051
1989	982	501	1,019	182	396	3,080
1990	1,095	425	988	166	371	3,045

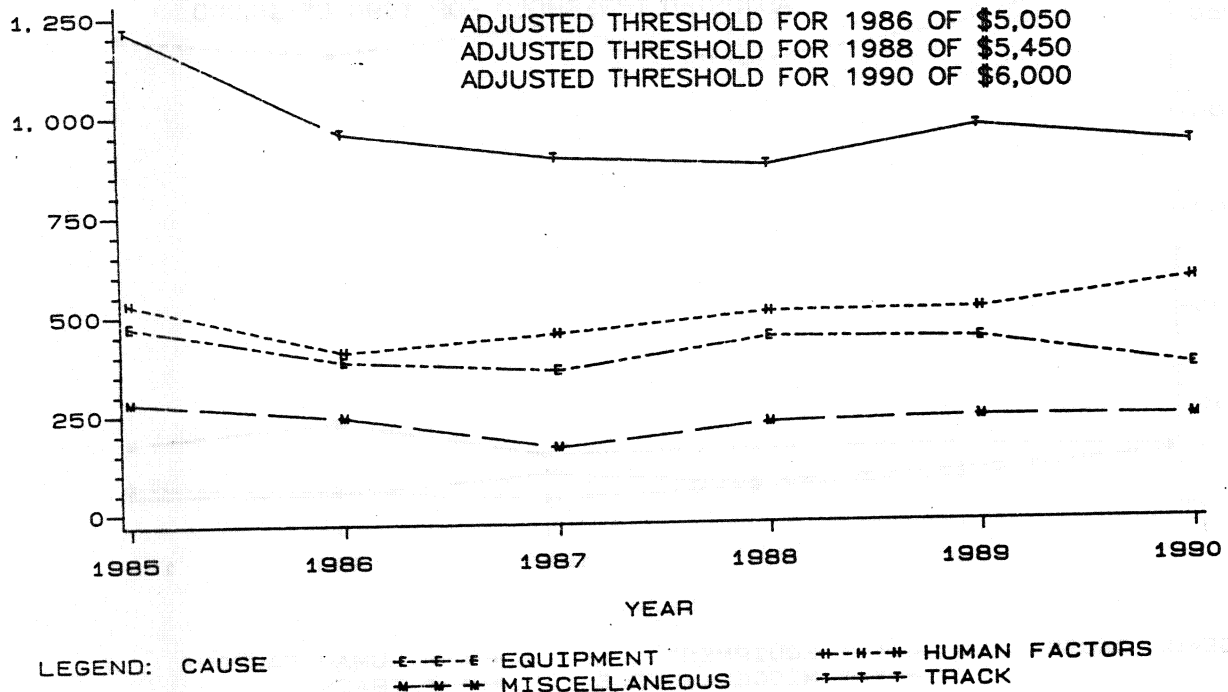
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2512  
2854



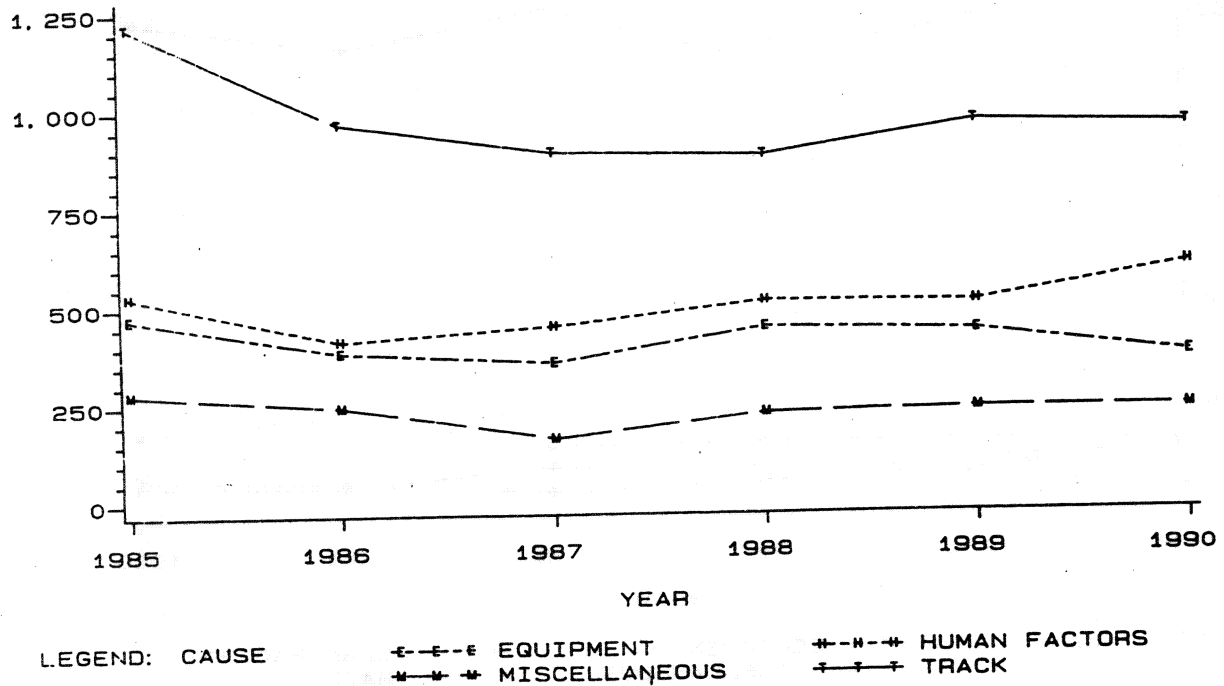
**FIGURE 3A. ACCIDENT CAUSES - ADJUSTED**



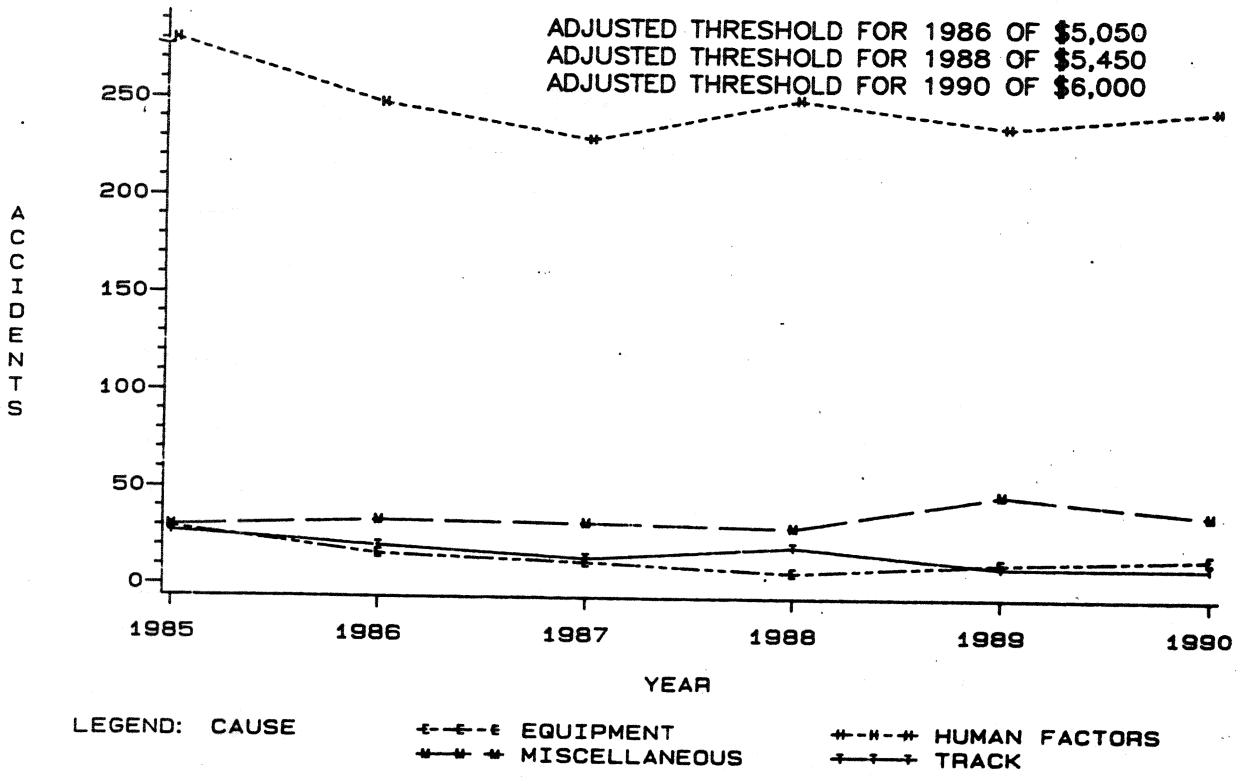
**FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED**



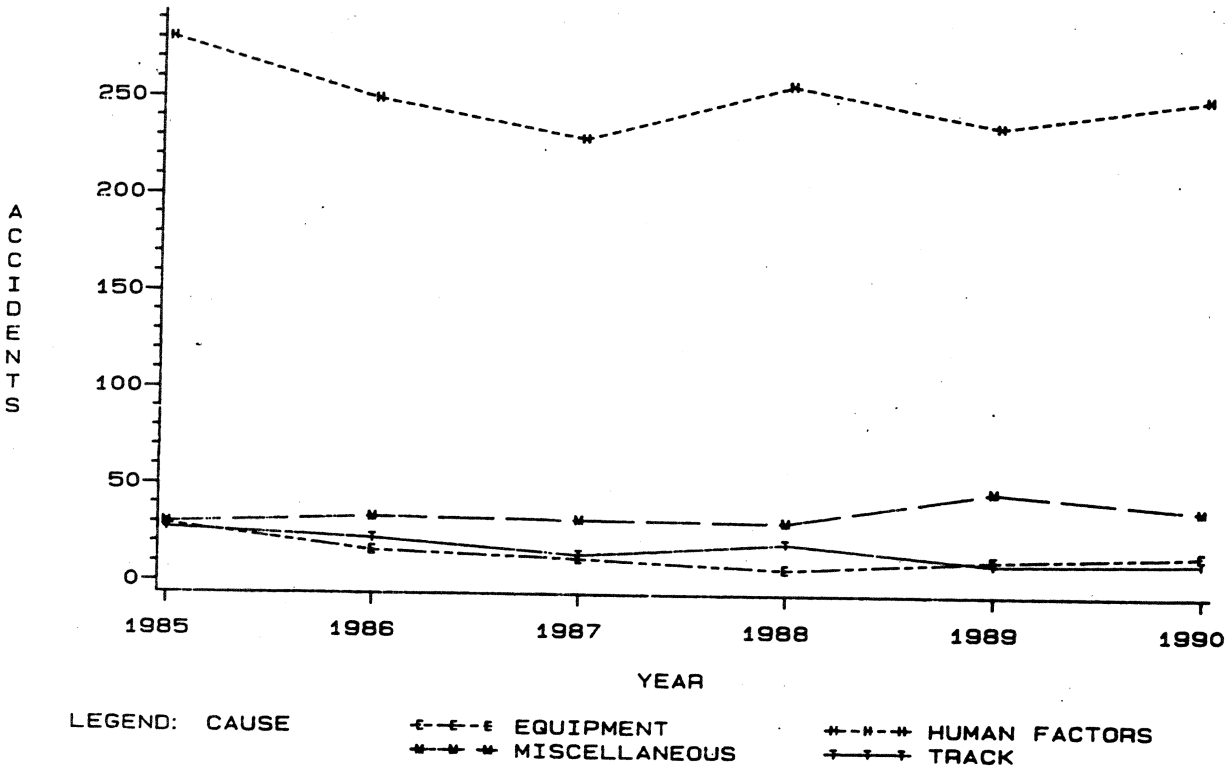
**FIGURE 4A. DERAILMENT CAUSES - ADJUSTED**



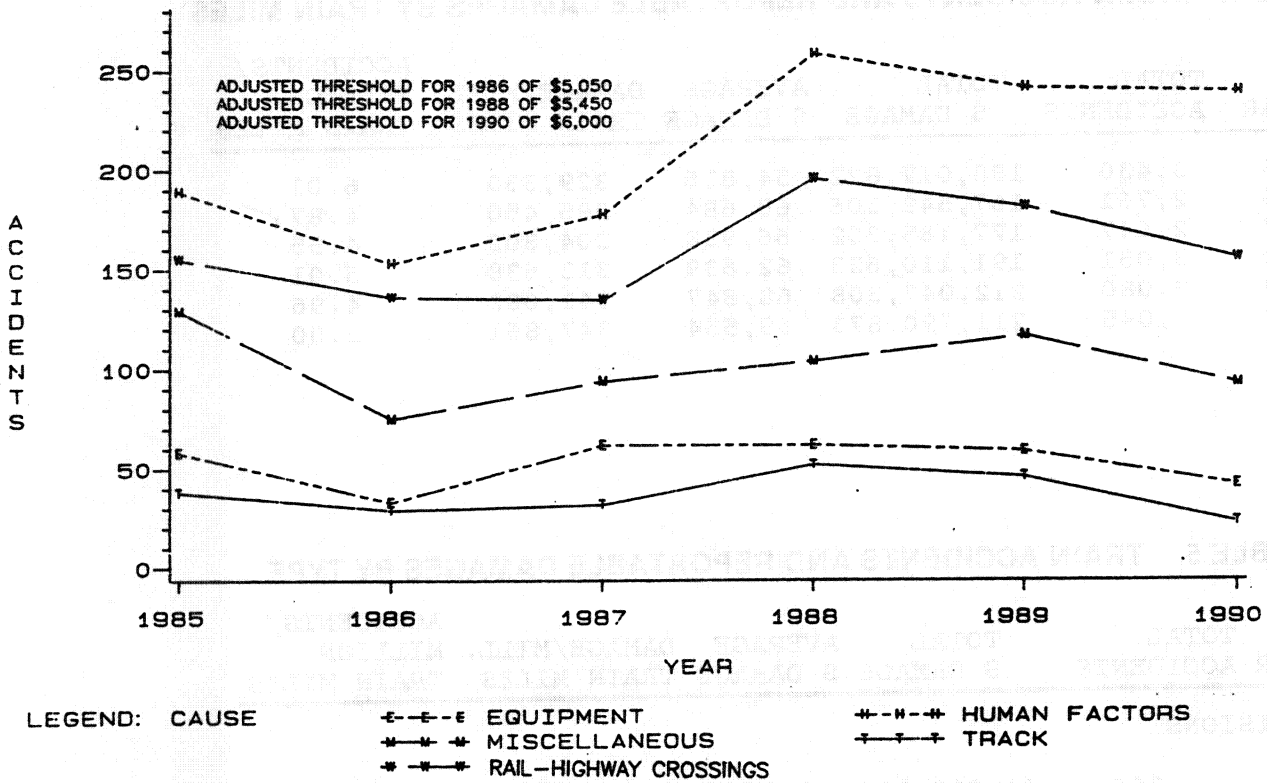
**FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED**



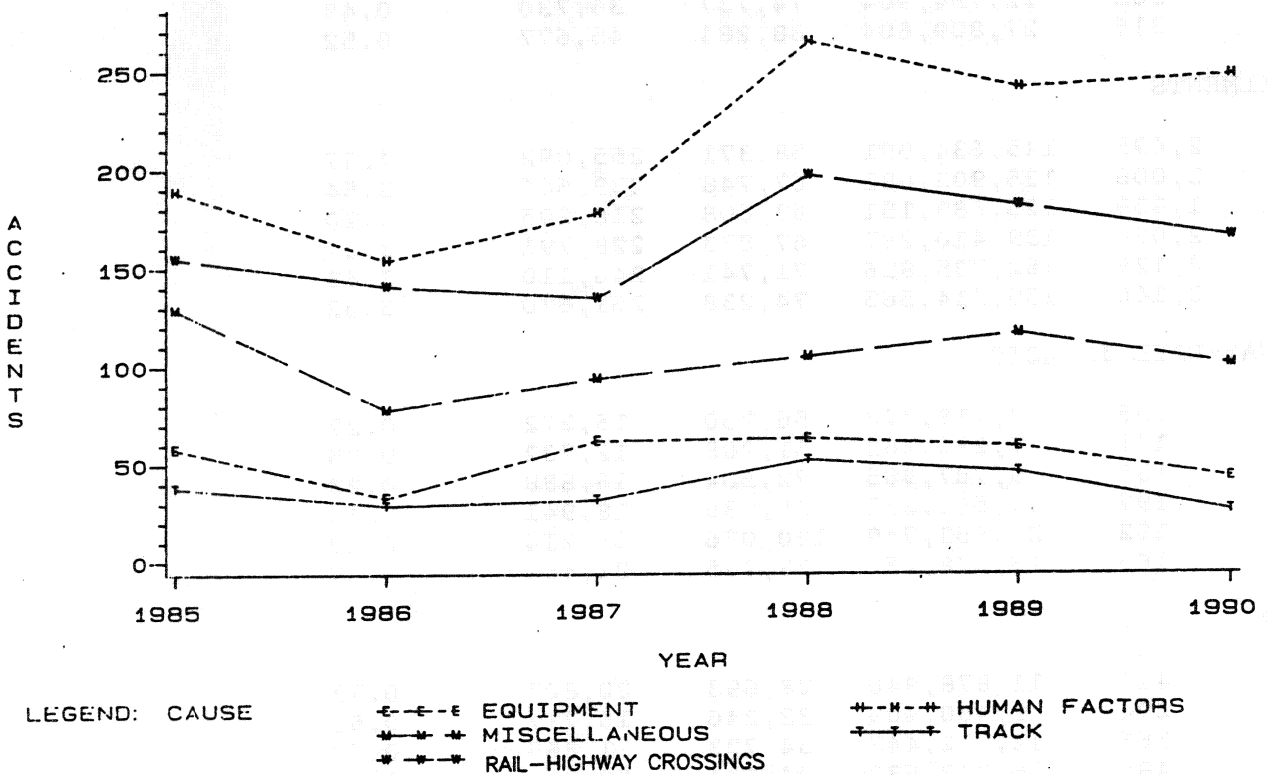
**FIGURE 5A. COLLISION CAUSES - ADJUSTED**



**FIGURE 5B. COLLISION CAUSES - UNADJUSTED**



**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/MILL. TRAIN MILES	ACCIDENTS/ MILLION TRAIN MILES
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	304,802	4.55 ✓
1988	3,051	191,110,633	62,639	313,638	5.01
1989	3,080	212,047,308	68,847	341,682	4.96
1990	3,045	211,790,873	69,554	347,861	5.00

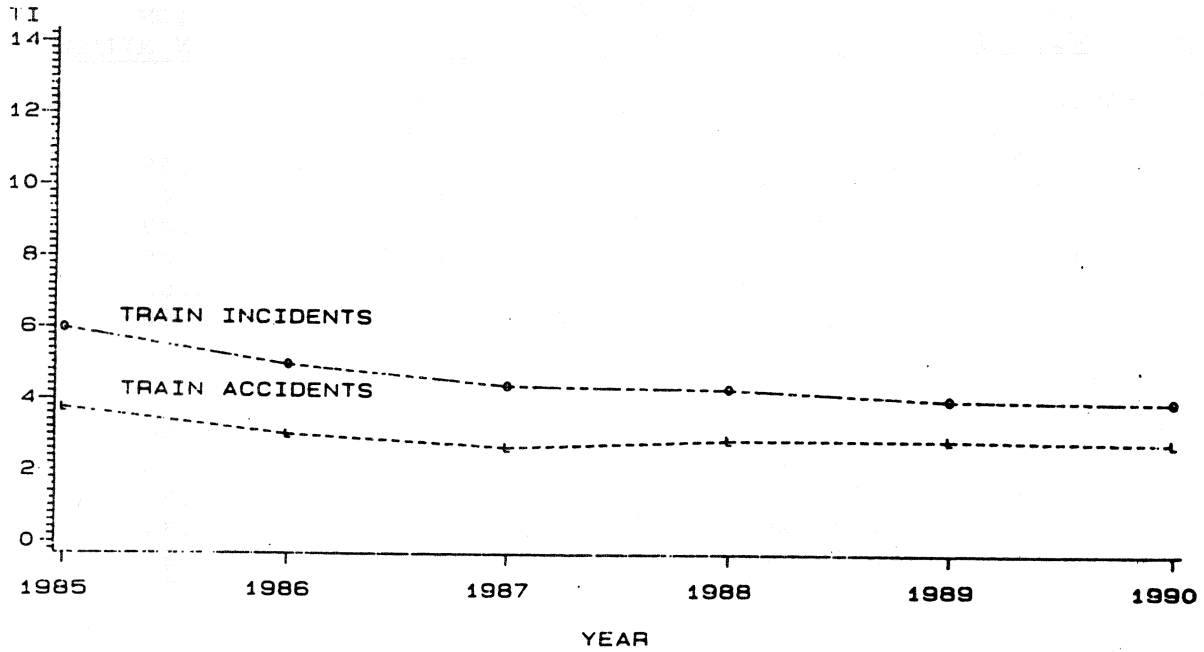
**TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE**

YEAR	TOTAL ACCIDENTS	TOTAL \$ DAMAGE	AVERAGE \$ DAMAGE	DAMAGE/MILL. TRAIN MILES	ACCIDENTS/ MILLION TRAIN MILES
<b>COLLISIONS</b>					
1985	366	21,785,209	59,522	38,159	0.64
1986	320	14,945,554	46,705	26,354	0.56
1987	287	29,001,769	101,051	49,890	0.49
1988	315	23,245,428	73,795	38,149	0.52
1989	305	22,794,904	74,737	36,730	0.49
1990	315	27,809,604	88,284	45,677	0.52
<b>DERAILMENTS</b>					
1985	2,495	145,634,901	58,371	255,092	4.37
1986	2,006	135,903,081	67,748	239,646	3.54
1987	1,859	125,683,151	67,608	216,205	3.20
1988	2,054	139,410,287	67,873	228,791	3.37
1989	2,129	152,735,826	71,741	246,110	3.43
1990	2,146	159,314,565	74,238	261,670	3.52
<b>HIGHWAY-RAIL IMPACTS</b>					
1985	155	8,718,772	56,250	15,272	0.27
1986	141	7,220,262	51,208	12,732	0.25
1987	135	9,787,985	72,504	16,838	0.23
1988	197	11,541,231	58,585	18,941	0.32
1989	182	21,853,749	120,076	35,214	0.29
1990	166	13,078,256	78,785	21,481	0.27
<b>OTHER</b>					
1985	414	11,878,940	28,693	20,807	0.73
1986	294	9,480,409	32,246	16,717	0.52
1987	366	12,712,447	34,733	21,868	0.63
1988	485	16,913,687	34,874	27,758	0.80
1989	464	14,662,829	31,601	23,627	0.75
1990	418	11,588,448	27,724	19,034	0.69

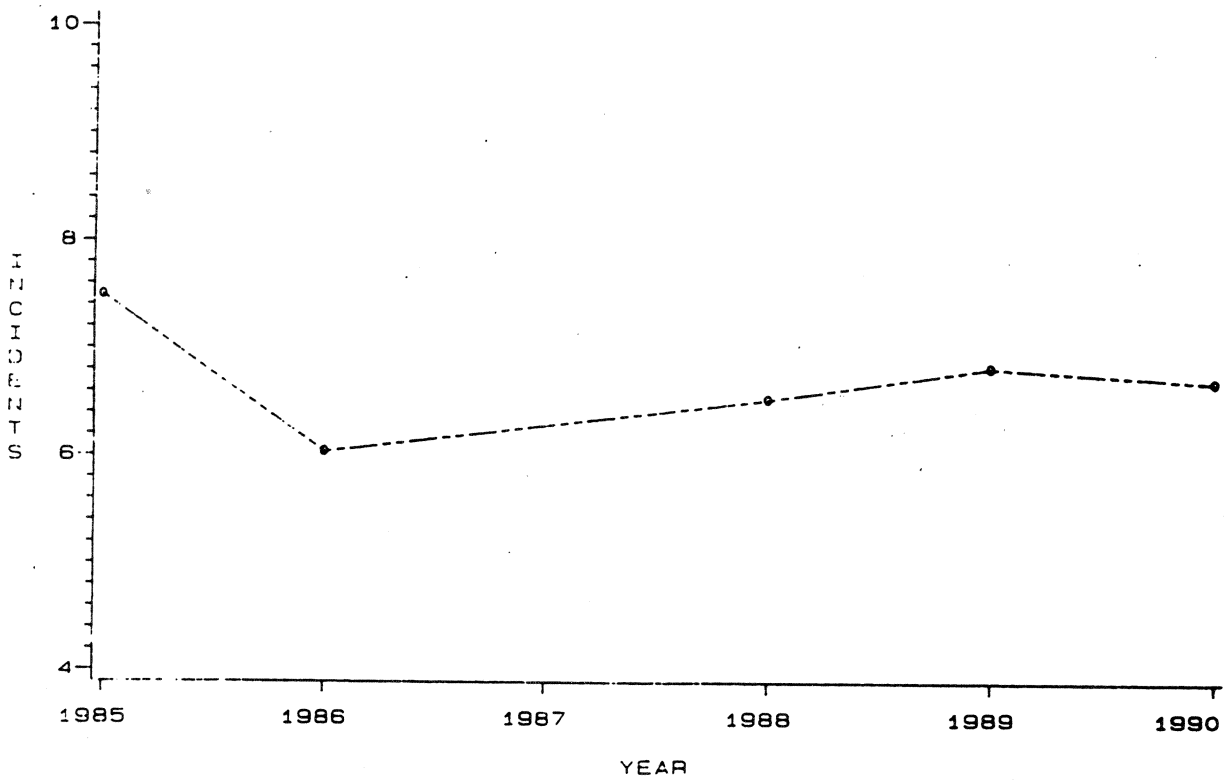
**TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE**

<u>YEAR</u>	<u>TOTAL ACCIDENTS</u>	<u>TOTAL \$ DAMAGE</u>	<u>AVERAGE \$ DAMAGE</u>	<u>DAMAGE/MILL. TRAIN MILES</u>	<u>ACCIDENTS/MILLION TRAIN MILES</u>
<b>HUMAN FACTORS</b>					
1985	998	46,325,550	46,418	81,143	1.75
1986	816	36,994,772	45,337	65,235	1.44
1987	856	53,381,979	62,362	91,830	1.47
1988	1,031	52,946,735	51,355	86,893	1.69
1989	982	63,358,368	64,520	102,092	1.58
1990	1,095	60,126,052	54,910	98,756	1.80
<b>EQUIPMENT FAILURES</b>					
1985	559	47,584,553	85,124	83,349	0.98
1986	433	42,162,233	97,372	74,347	0.76
1987	430	38,129,194	88,673	65,591	0.74
1988	512	46,491,145	90,803	76,298	0.84
1989	501	43,355,891	86,539	69,861	0.81
1990	425	43,625,552	102,648	71,654	0.70
<b>TRACK DEFECTS</b>					
1985	1,279	59,713,568	46,688	104,594	2.24
1986	1,016	48,459,373	47,696	85,451	1.79
1987	938	60,162,651	64,139	103,494	1.61
1988	952	58,291,881	61,231	95,665	1.56
1989	1,019	57,624,951	56,550	92,854	1.64
1990	988	58,058,297	58,763	95,359	1.62
<b>HIGHWAY-RAIL IMPACTS</b>					
1985	155	8,718,772	56,250	15,272	0.27
1986	141	7,220,262	51,208	12,732	0.25
1987	135	9,787,985	72,504	16,838	0.23
1988	197	11,541,231	58,585	18,941	0.32
1989	182	21,853,749	120,076	35,214	0.29
1990	166	13,078,256	78,785	21,481	0.27
<b>OTHER ACCIDENTS</b>					
1985	439	25,675,379	58,486	44,973	0.77
1986	355	32,712,666	92,148	57,684	0.63
1987	288	15,723,543	54,596	27,048	0.50
1988	359	21,839,641	60,835	35,842	0.59
1989	396	25,854,349	65,289	41,660	0.64
1990	371	36,902,716	99,468	60,612	0.61

**TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS**



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



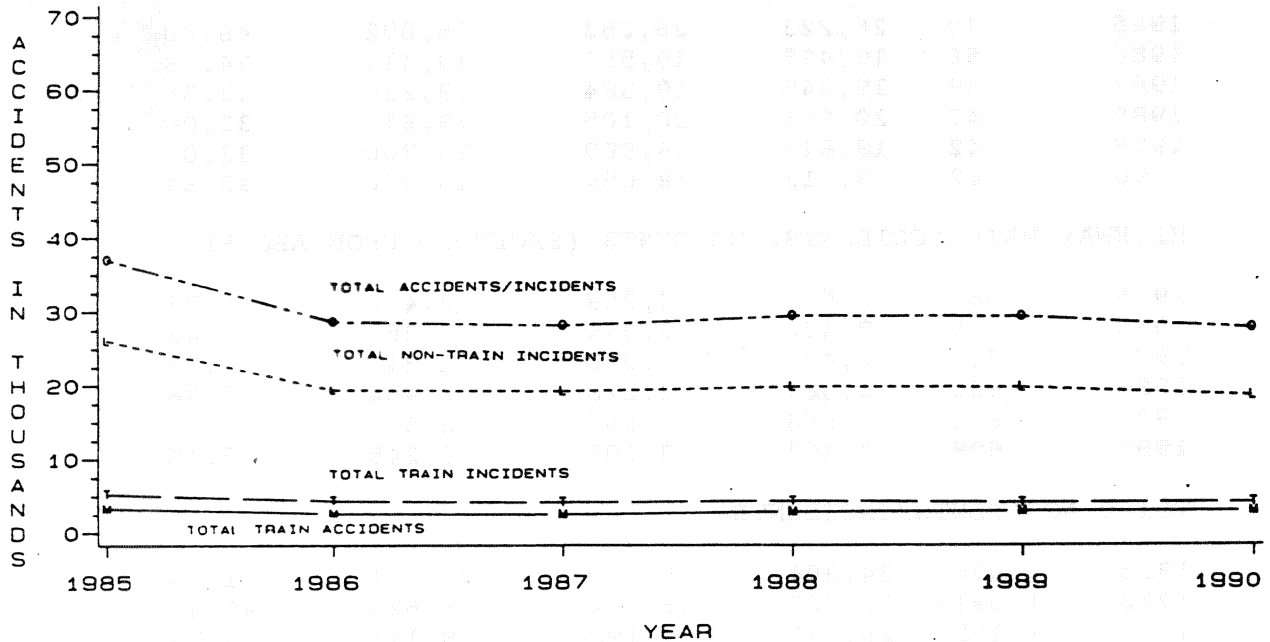
**FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS**



**TABLE 7. TOTAL ACCIDENTS/INCIDENTS**

<u>YEAR</u>	<u>TRAIN ACCIDENTS</u>	<u>TRAIN INCIDENTS</u>	<u>NONTRAIN INCIDENTS</u>	<u>RAIL-HIGHWAY CROSSING IMPACTS</u>	<u>TOTAL</u>
1985	3,275	5,225	26,092	2,402	36,994
1986	2,620	4,324	19,414	2,265	28,623
1987	2,512	4,136	19,220	2,247	28,115
1988	2,854	4,272	19,814	2,454	29,394
1989	2,898	4,037	19,700	2,634	29,269
1990	2,879	4,063	18,520	2,245	27,707

Note: The count of Rail-Highway Crossing Impacts shown in this table is limited to those that met the train accident threshold or resulted in a death or injury.



**FIGURE 9. TOTAL ACCIDENTS/INCIDENTS**

CASUALTIES

TABLE 8. CASUALTIES IN ACCIDENTS/INCIDENTS

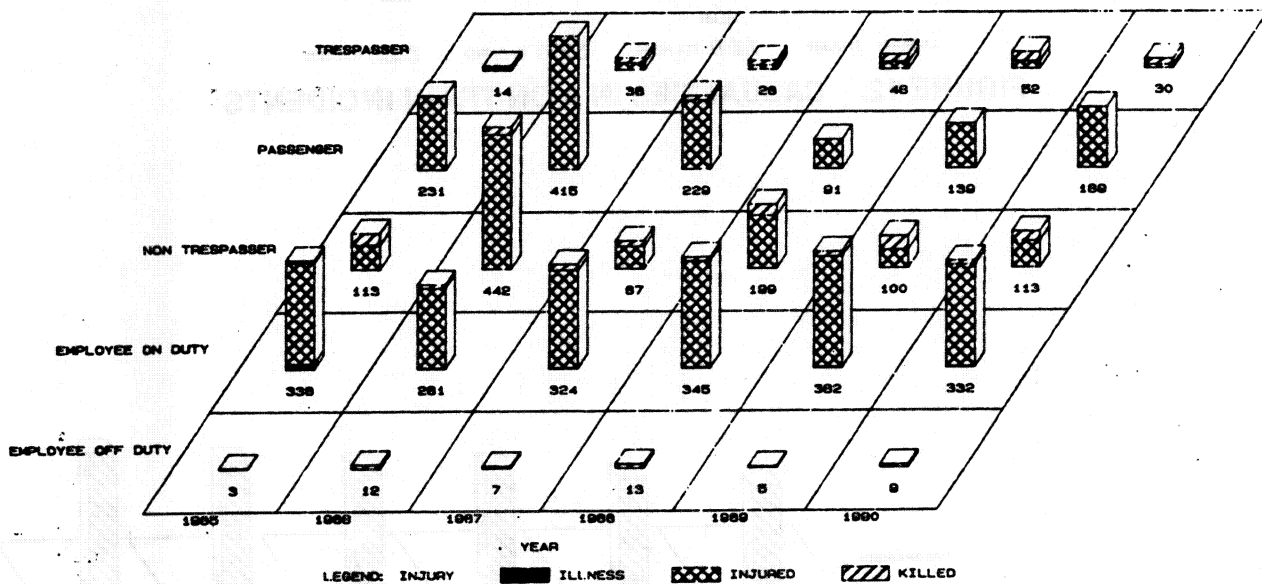
<u>YEAR AND TYPE ACC/INC</u>	<u>DEATHS</u>	<u>INJURIES</u>	<u>TOTAL CASUALTIES</u>	<u>TOTAL ACCIDENTS/ INCIDENTS</u>	<u>CASUALTIES PER MILLION TRAIN MILES</u>
TRAIN ACCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS)					
1985	8	476	484	3,275	0.85
1986	13	948	961	2,620	1.69
1987	36	453	489	2,512	0.84
1988	18	471	489	2,854	0.80
1989	16	311	327	2,898	0.53
1990	10	451	461	2,879	0.76
TRAIN INCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS)					
1985	406	4,918	5,324	5,225	9.33
1986	406	4,022	4,428	4,324	7.81
1987	466	3,806	4,272	4,136	7.35
1988	445	3,936	4,381	4,272	7.19
1989	465	3,689	4,154	4,037	6.69
1990	547	3,673	4,220	4,063	6.93
NONTRAIN INCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS)					
1985	40	26,223	26,263	26,092	46.00
1986	56	19,495	19,551	19,414	34.48
1987	39	19,345	19,384	19,220	33.35
1988	47	20,058	20,105	19,814	33.00
1989	42	19,847	19,889	19,700	32.05
1990	42	18,612	18,654	18,520	30.64
HIGHWAY-RAIL ACCIDENTS/INCIDENTS (EXCLUDED FROM ABOVE)					
1985	582	2,687	3,269	2,402	5.73
1986	616	2,458	3,074	2,265	5.42
1987	624	2,429	3,053	2,247	5.25
1988	689	2,589	3,278	2,454	5.38
1989	801	2,868	3,669	2,634	5.91
1990	698	2,407	3,105	2,245	5.10
TOTAL ACCIDENTS/INCIDENTS					
1985	1,036	34,304	35,340	36,994	61.90
1986	1,091	26,923	28,014	28,623	49.40
1987	1,165	26,033	27,198	28,115	46.79
1988	1,199	27,054	28,253	29,394	46.37
1989	1,324	26,715	28,039	29,269	45.18
1990	1,297	25,143	26,440	27,707	43.43

Note: The count of Rail-Highway Crossing Impacts shown in this table is limited to those that met the train accident threshold or resulted in a death or injury.

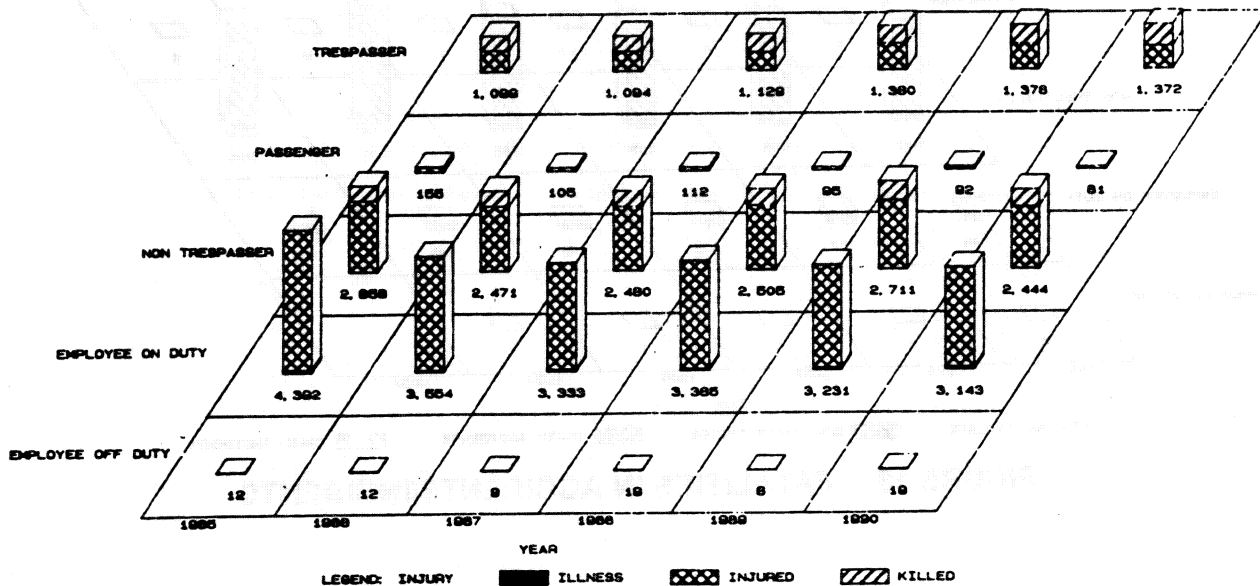
**TABLE 9. CASUALTIES BY TYPE OF PERSON**

Year	Employees On Duty		Employees Not On Duty		Passengers On Trains		Nontrespassers		Trespassers		Contractor Employees	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
1985	46	29,822	2	419	3	657	507	2,562	474	734	4	110
1986	57	22,387	2	384	4	686	505	2,639	519	706	4	121
1987	55	21,982	1	396	16	475	506	2,354	584	673	3	153
1988	43	22,573	1	427	2	337	554	2,575	598	920	1	222
1989	49	22,183	1	407	8	399	621	2,579	641	898	4	249
1990	40	20,970	0	326	3	473	551	2,339	700	793	3	242

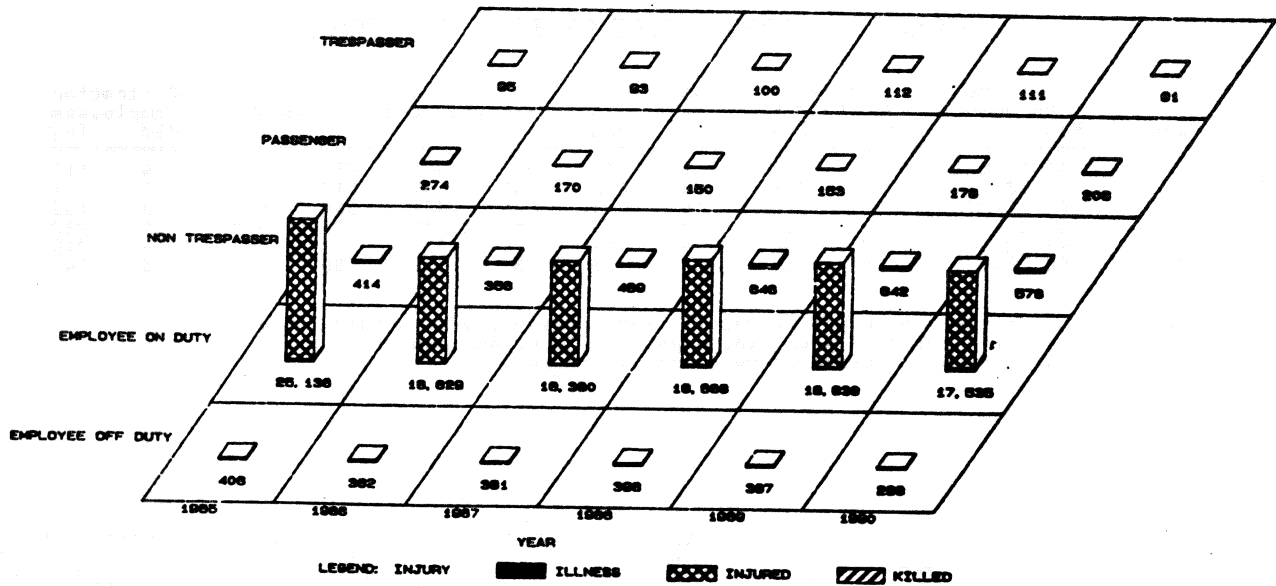
NOTE: "Contractor employee" casualties appear separately in this table. In other tables they are included with "Nontrespassers". "Inj" columns include occupational illnesses.



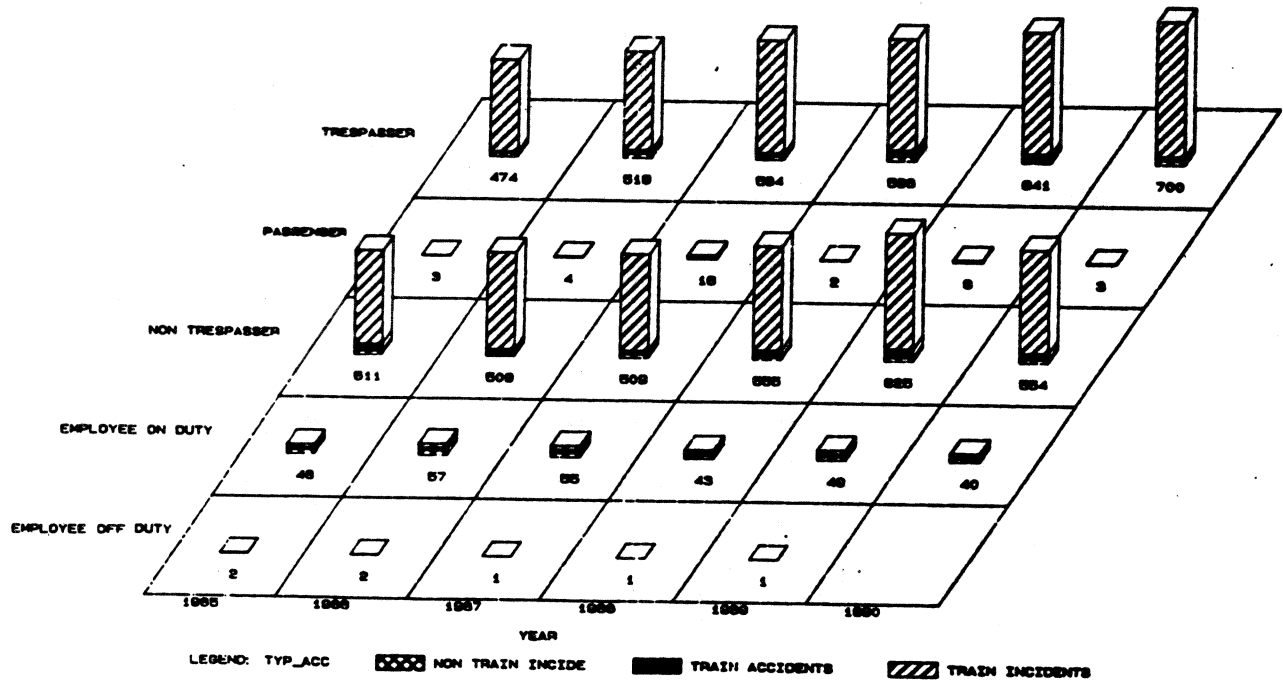
**FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS**



**FIGURE 11. CASUALTIES IN TRAIN INCIDENTS**



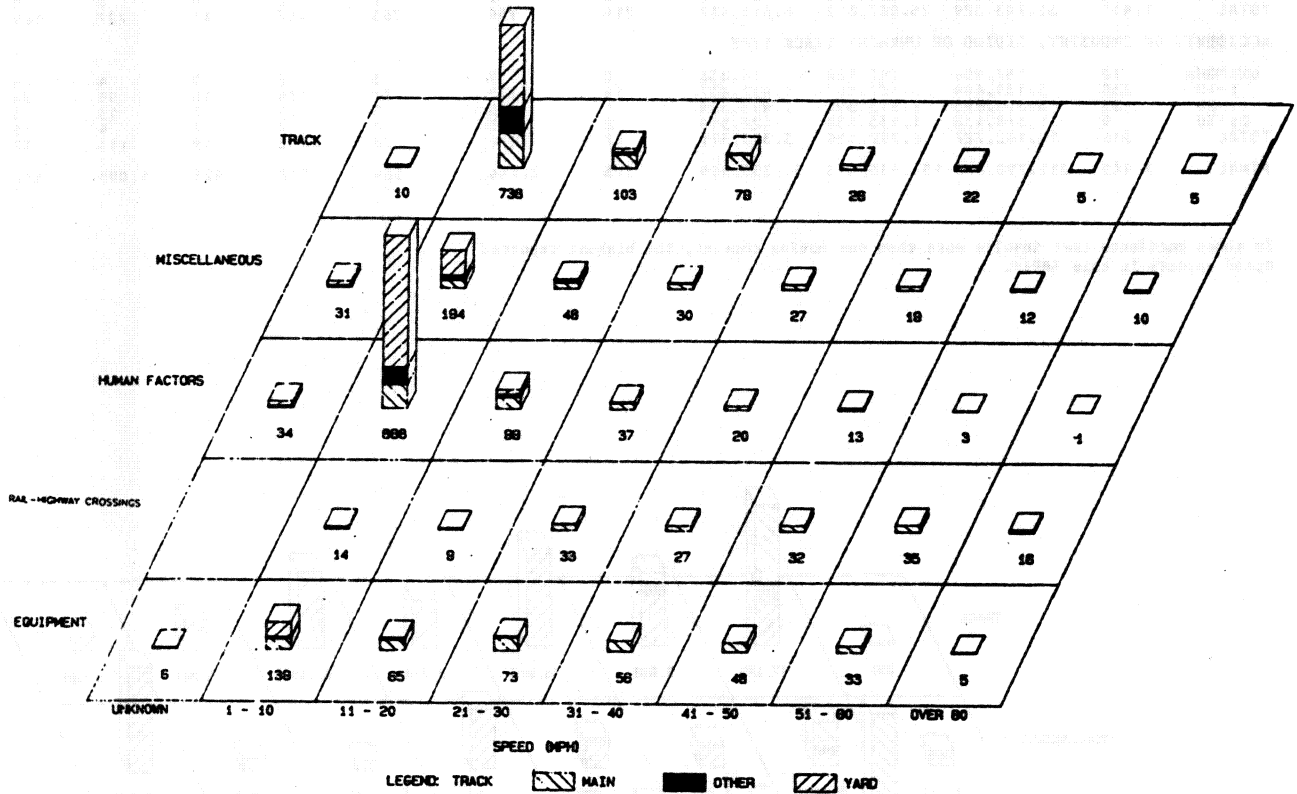
**FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS**



**FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS**

## 2. OVERVIEW OF 1990 DATA

### SPEED FACTOR IN ACCIDENTS

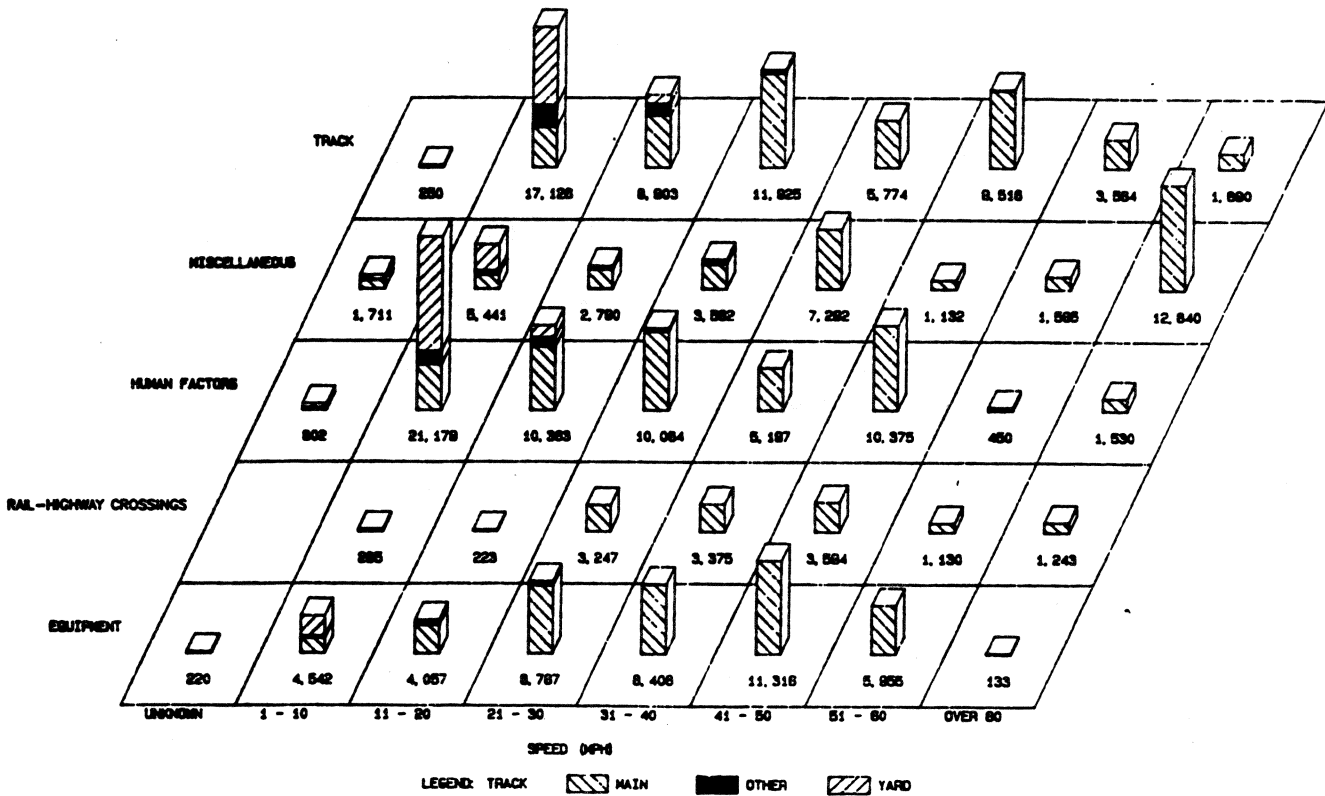


**FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED**

**TABLE 10. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED**

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS CAUSED	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
<b>ACCIDENTS ON MAIN LINE TRACK</b>											
UNKNOWN	15	1,655,047	465,605	1,189,442	1	7	7	2	4	5	4
1-10	409	14,373,024	9,987,827	4,385,197	33	332	44	179	55	123	52
11-20	226	20,206,668	13,995,358	6,211,310	20	179	27	71	54	60	41
21-30	237	35,567,638	26,452,978	9,114,660	8	179	50	76	69	31	61
31-40	154	29,968,450	22,732,354	7,236,096	11	96	47	26	55	19	54
41-50	132	35,804,510	28,056,609	7,747,901	7	76	49	20	48	13	51
51-60	88	12,693,147	9,760,683	2,932,464	0	45	43	5	33	3	47
61-70	16	535,348	365,234	170,114	1	3	12	2	2	0	12
71-80	15	16,980,007	13,641,589	3,338,418	0	4	11	1	2	1	11
81-90	4	77,857	66,357	11,500	2	0	2	2	1	0	1
>=91	2	43,121	30,821	12,300	1	0	1	0	0	0	2
<b>TOTAL</b>	<b>1,298</b>	<b>167,904,817</b>	<b>125,555,415</b>	<b>42,349,402</b>	<b>84</b>	<b>921</b>	<b>293</b>	<b>384</b>	<b>323</b>	<b>255</b>	<b>336</b>
<b>ACCIDENTS ON YARD TRACK</b>											
UNKNOWN	56	1,169,092	1,018,044	151,048	8	21	27	6	2	25	23
1-10	1,306	29,044,524	21,375,138	7,669,386	199	893	214	425	74	675	132
11-20	59	2,823,316	2,128,452	694,864	7	35	17	18	4	24	13
21-30	6	460,221	384,777	75,444	0	4	2	1	2	2	1
31-40	2	76,331	76,331	0	0	0	2	0	1	1	0
41-50	2	129,845	105,100	24,745	0	1	1	2	0	0	0
<b>TOTAL</b>	<b>1,431</b>	<b>33,703,329</b>	<b>25,087,842</b>	<b>8,615,487</b>	<b>214</b>	<b>954</b>	<b>263</b>	<b>452</b>	<b>83</b>	<b>727</b>	<b>169</b>
<b>ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE</b>											
UNKNOWN	10	157,956	141,120	16,836	0	7	3	2	0	4	4
1-10	258	5,139,644	3,681,807	1,457,837	14	222	22	134	10	90	24
11-20	39	3,306,695	1,813,391	1,493,304	1	35	3	14	7	15	3
21-30	9	1,578,432	1,155,838	422,594	2	7	0	2	2	4	1
<b>TOTAL</b>	<b>316</b>	<b>10,182,727</b>	<b>6,792,156</b>	<b>3,390,571</b>	<b>17</b>	<b>271</b>	<b>28</b>	<b>152</b>	<b>19</b>	<b>113</b>	<b>32</b>
<b>FINAL</b>	<b>3,045</b>	<b>211,790,873</b>	<b>157,435,413</b>	<b>54,355,460</b>	<b>315</b>	<b>2,146</b>	<b>584</b>	<b>988</b>	<b>425</b>	<b>1,095</b>	<b>537</b>

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



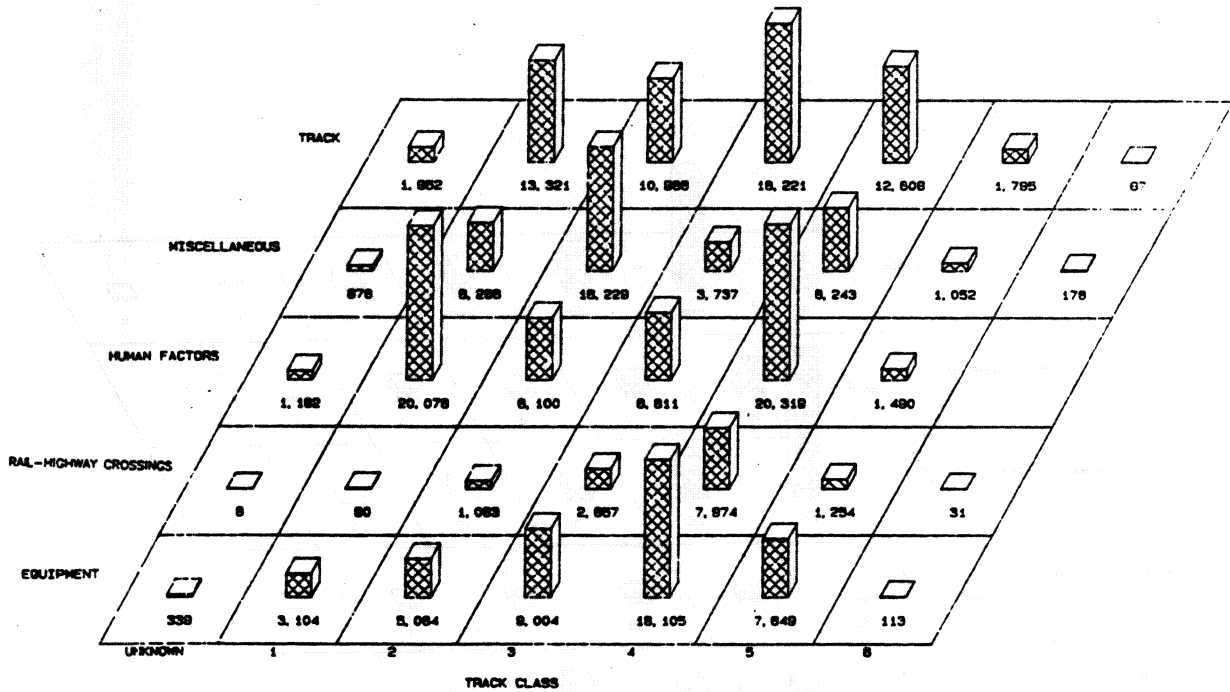
**FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)**

**ACCIDENTS AND TRACK TYPE**

TABLE 11. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

**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
?	159	4,157,675	3,189,523	1,048,152	16	123	20	67	11	61	20
1	1,584	42,863,543	38,074,401	12,789,142	204	1,136	244	559	99	728	198
2	474	41,462,864	38,688,033	10,774,831	35	361	78	187	68	142	77
3	357	42,431,232	31,230,313	11,200,919	25	265	67	123	95	75	66
4	388	67,246,888	52,374,481	14,872,407	28	223	137	45	121	78	144
5	78	13,238,835	9,742,776	3,496,059	3	37	30	4	29	11	25
6	13	389,836	215,884	173,950	4	1	8	3	4	0	7
FINAL TO 3.045		211,790,873	157,435,413	54,355,460	315	2,146	584	988	425	1,095	500

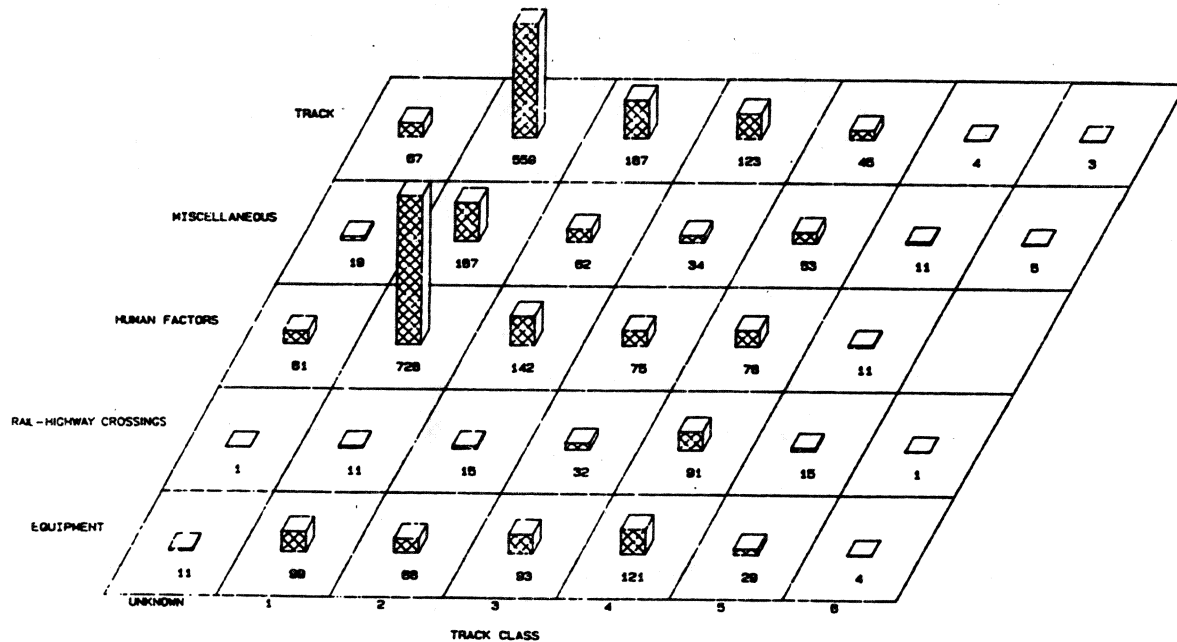


**FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)**

**CAUSE BY TYPE OF ACCIDENT**

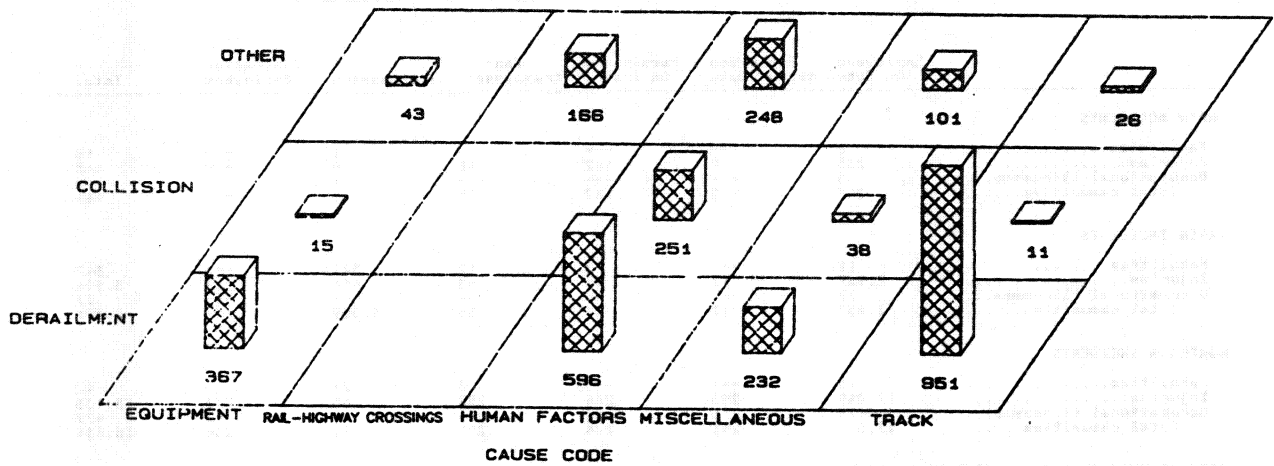
**TABLE 12. REPORTABLE DAMAGES IN TRAIN ACCIDENTS BY TYPE AND CAUSE**

Type of Accident	...Track Caused...		...Equipment Caused...		...Human Factors...		...Other Causes...		...Total Damage....	
	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg
Derailement	17,120,473	39,975,710	15,973,659	25,656,392	7,180,071	21,904,382	8,119,439	23,384,419	48,393,662	110,920,903
Head on collision	---	---	---	---	555,200	8,681,247	---	---	555,200	8,681,247
Rear end collision	---	---	311	12,500	140,638	3,538,135	200	7,993	141,149	3,538,628
Side collision	7,886	167,306	38,656	166,884	829,198	10,947,365	103,966	706,254	979,706	11,988,009
Raking collision	7,130	56,822	17,500	47,408	56,425	685,159	294,541	186,881	375,596	976,270
Broken trn collision	---	---	13,200	294,635	9,000	174,500	---	---	23,150	530,649
Rail-hwy crossing	---	---	---	---	---	---	1,356,409	11,721,847	1,356,409	11,721,847
RR grade crossing	---	---	---	---	---	---	---	---	---	---
Obstruction	16,000	95,800	1,120	39,875	80,495	444,864	74,205	1,011,783	171,820	1,592,322
Explosion-detonatin	---	---	---	---	---	---	---	---	---	---
Fire/violent ruptre	5,000	---	---	420,802	---	---	1,010,000	550,007	1,015,000	970,809
Other	220,241	385,929	396,505	546,105	490,523	4,408,650	236,499	1,154,045	1,343,768	6,494,729
TOTAL	17,376,730	40,681,567	16,440,951	27,184,601	9,341,550	30,784,502	11,196,229	38,784,743	54,355,460	137,435,413



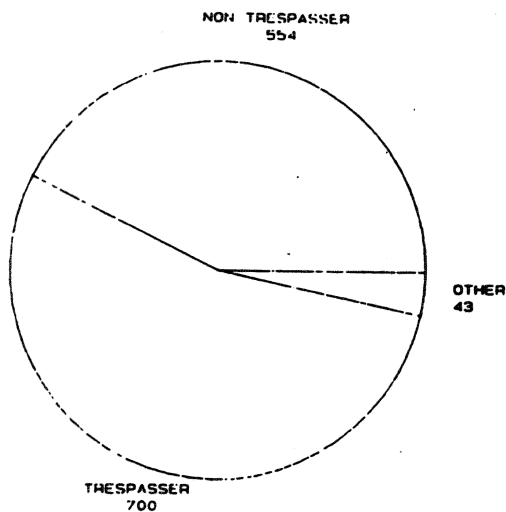
**FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS**



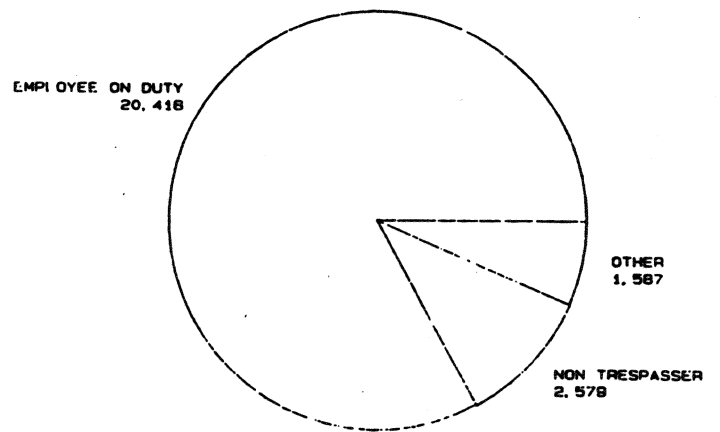


**FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE**

**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
<b>TRAIN ACCIDENTS</b>							
Fatalities.....	9	---	---	---	1	---	10
Injuries.....	235	9	182	18	4	---	448
Occupational illnesses...	3	---	---	---	---	---	3
Total casualties.....	247	9	182	18	5	---	461
<b>TRAIN INCIDENTS</b>							
Fatalities.....	11	---	3	12	521	---	547
Injuries.....	2,967	17	74	43	488	7	3,596
Occupational illnesses...	77	---	---	---	---	---	77
Total casualties.....	3,055	17	77	55	1,009	7	4,220
<b>NONTRAIN INCIDENTS</b>							
Fatalities.....	15	---	---	3	21	3	42
Injuries.....	17,049	293	206	288	68	231	18,135
Occupational illnesses...	470	5	---	---	---	2	477
Total casualties.....	17,534	298	206	291	89	236	18,654
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>							
Fatalities.....	5	---	---	536	157	---	698
Injuries.....	165	2	11	1,990	233	2	2,403
Occupational illnesses...	4	---	---	---	---	---	4
Total casualties.....	174	2	11	2,526	390	2	3,105
<b>GRAND TOTAL</b>							
Fatalities.....	40	---	3	551	700	3	1,297
Injuries.....	20,416	321	473	2,339	793	240	24,582
Occupational illnesses...	554	5	---	---	---	2	561
Total casualties.....	21,010	326	476	2,890	1,493	245	26,440

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	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>TRAIN ACCIDENTS</b>								
Collisions	8	8	---	8	---	---	---	---
Derailments	2	1	---	1	---	---	---	1
Rail-highway x-ing	52	4	---	4	---	---	30	18
Miscellaneous	---	---	---	---	---	---	---	---
Total	62	13	---	13	---	---	30	19
<b>TRAIN INCIDENTS</b>								
Coupling and uncoupling locomotives or cars	1	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	1	1	---	1	---	---	---	---
Getting on or off cars or locomotives	7	1	---	1	---	2	---	4
Collisions, derailments, etc. (<= \$5,701)	12	---	---	---	---	---	---	12
Rail-highway crossing accidents/incidents	636	1	---	1	---	---	496	139
Struck by/ran into loco/car(not at rr-hwy x-ing)	511	1	4	5	---	---	12	494
Servicing or maintenance of equipment	1	---	1	1	---	---	---	---
Maintenance of way and structures	---	---	---	---	---	---	---	---
Freight, baggage, express or mail	---	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	1	---	---	---	---	1	---	---
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	---	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	---	---
Other occurrences	7	1	---	1	---	---	---	6
Total	1,183	7	5	12	---	3	508	660
<b>NONTRAIN INCIDENTS</b>								
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	10	---	---	---	---	---	10	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	2	---	---	---	---	---	---	2
Servicing or maintenance of equipment	2	---	2	2	---	---	---	---
Maintenance of way and structures	5	---	5	5	---	---	---	---
Freight, baggage, express or mail	---	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	11	1	---	1	---	---	1	9
Flying or falling objects, burns, etc., N.O.C.	8	---	---	---	---	---	2	6
Operation of on-track work equipment	---	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	---	---
Other occurrences	14	2	5	7	---	---	3	4
Total	52	3	12	15	---	---	16	21
Grand total	1,297	23	17	40	---	3	554	700

**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
<b>TRAIN ACCIDENTS</b>							
Collisions	139	87	26	113	8	12	4
Derailements	272	71	19	90	1	170	9
Rail-highway x-ing	160	68	13	81	---	7	65
Miscellaneous	40	25	10	35	---	---	5
Total	611	251	68	319	9	189	83
<b>TRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	200	194	6	200	---	---	---
Coupling/uncoupling air/steam hose, safety chains	45	43	2	45	---	---	---
Operating or on locomotives	857	807	50	857	---	---	---
Operating rail motorcars	14	8	6	14	---	---	---
Operating hand brakes	78	72	6	78	---	---	---
Operating switches or derails	30	30	---	30	---	---	---
Contacting fixed objects while on locos or cars	80	73	7	80	---	---	---
Getting on or off cars or locomotives	666	548	42	590	2	30	3
Collisions, derailments, etc. (< \$5,701)	103	74	16	90	---	---	4
Rail-highway crossing accidents/incidents	2,203	71	16	87	2	4	1,886
Struck by/ran into loco/car(not at rr-hwy x-ing)	448	19	18	37	1	---	16
Servicing or maintenance of equipment	64	1	61	62	1	---	1
Maintenance of way and structures	92	1	90	91	---	---	---
Freight, baggage, express or mail	10	5	6	9	---	---	---
Windows, doors, etc., on on-track equipment	85	60	20	80	1	3	1
Passenger car doors	4	---	---	---	---	4	---
Stumbling, slipping, falling, caught, N.O.C.	203	128	38	166	3	16	3
Flying or falling objects, burns, etc., N.O.C.	209	162	29	191	4	3	9
Operation of on-track work equipment	75	6	68	74	---	---	1
Assault	69	58	8	66	1	1	---
Other occurrences	341	215	69	284	4	16	11
Total	5,876	2,575	556	3,131	19	78	1,936
<b>NONTRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	467	424	42	466	---	---	---
Coupling/uncoupling air/steam hose, safety chains	255	210	45	255	---	---	---
Operating or on locomotives	627	543	83	626	1	---	---
Operating rail motorcars	23	1	22	23	---	---	---
Operating hand brakes	368	343	25	368	---	---	---
Operating switches or derails	1,053	948	105	1,053	---	---	---
Contacting fixed objects while on locos or cars	17	10	7	17	---	---	---
Getting on or off cars or locomotives	984	726	147	873	3	97	7
Collisions, derailments, etc. (< \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	44	1	---	1	---	---	41
Struck by/ran into loco/car(not at rr-hwy x-ing)	13	5	2	7	---	---	2
Servicing or maintenance of equipment	4,274	107	4,114	4,221	34	---	19
Maintenance of way and structures	5,482	31	5,372	5,403	37	---	42
Freight, baggage, express or mail	69	23	41	64	---	---	3
Windows, doors, etc., on on-track equipment	288	135	128	263	---	18	7
Passenger car doors	12	1	1	2	1	9	---
Stumbling, slipping, falling, caught, N.O.C.	1,970	791	754	1,545	113	64	227
Flying or falling objects, burns, etc., N.O.C.	372	205	111	316	13	3	31
Operation of on-track work equipment	85	3	79	82	3	---	---
Assault	209	54	130	184	6	2	13
Other occurrences	2,044	440	1,311	1,751	87	13	170
Total	18,656	5,001	12,519	17,520	298	206	562
Grand total	25,143	7,827	13,143	20,970	326	473	2,581

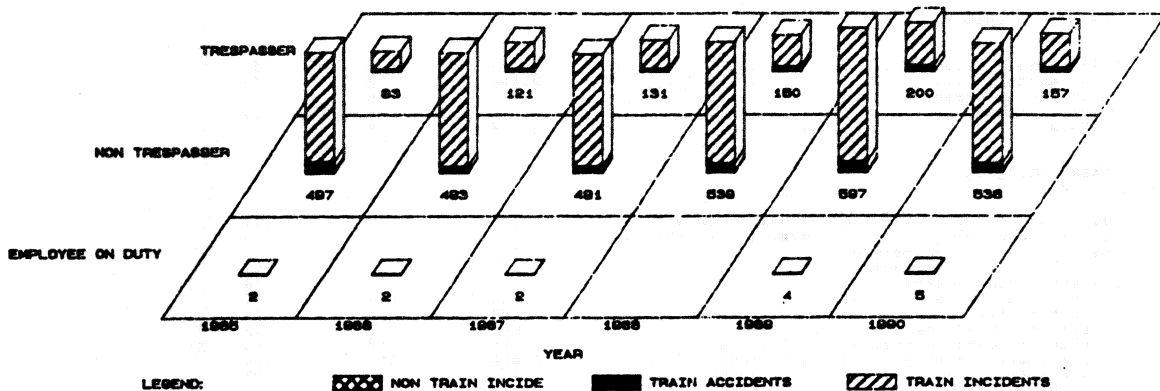
**TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE**

Type Of Accident/Incident	.....Accidents/Incidents.....		
	Total	Fatal	Nonfatal
<b>TRAIN ACCIDENTS *</b>			
Collisions.....	315	3	51
Derailements.....	2,146	2	50
Rail-highway crossing.....	166	36	75
Miscellaneous.....	418	---	20
Total.....	3,045	41	196
<b>TRAIN INCIDENTS</b>			
Coupling and uncoupling locomotives or cars.....	201	1	200
Coupling/uncoupling air/steam hose, safety chains.....	45	---	45
Operating on or on locomotives.....	814	---	814
Operating rail motorcars.....	14	---	14
Operating hand brakes.....	78	---	78
Operating switches or derails.....	30	---	30
Contacting fixed objects while on locos or cars..	77	1	76
Getting on or off cars or locomotives.....	669	7	662
Collisions, derailements, etc. (<= \$5,701).....	95	12	83
Rail-highway crossing accidents/incidents.....	2,044	518	1,526
Struck by/ran into loco/car(not at rr-hwy x-ing).	916	496	420
Servicing or maintenance of equipment.....	64	1	63
Maintenance of way and structures.....	90	---	90
Freight, baggage, express or mail.....	10	---	10
Windows, doors, etc., on on-track equipment.....	84	1	83
Passenger car doors.....	4	---	4
Stumbling, slipping, falling, caught, N.O.C.....	207	5	202
Flying or falling objects, burns, etc., N.O.C.....	188	---	188
Operation of on-track work equipment.....	73	---	73
Assault.....	64	---	64
Other occurrences.....	340	7	333
Total.....	6,107	1,049	5,058
<b>NONTRAIN INCIDENTS</b>			
Coupling and uncoupling locomotives or cars.....	467	---	467
Coupling/uncoupling air/steam hose, safety chains.....	255	---	255
Operating on or on locomotives.....	610	---	610
Operating rail motorcars.....	23	---	23
Operating hand brakes.....	368	---	368
Operating switches or derails.....	1,052	---	1,052
Contacting fixed objects while on locos or cars..	17	---	17
Getting on or off cars or locomotives.....	983	---	983
Collisions, derailements, etc. (<= \$5,701).....	---	---	---
Rail-highway crossing accidents/incidents.....	36	8	28
Struck by/ran into loco/car(not at rr-hwy x-ing).	15	2	13
Servicing or maintenance of equipment.....	4,253	2	4,251
Maintenance of way and structures.....	5,475	5	5,470
Freight, baggage, express or mail.....	69	---	69
Windows, doors, etc., on on-track equipment.....	288	---	288
Passenger car doors.....	12	---	12
Stumbling, slipping, falling, caught, N.O.C.....	1,977	11	1,966
Flying or falling objects, burns, etc., N.O.C.....	374	8	366
Operation of on-track work equipment.....	85	---	85
Assault.....	206	---	206
Other occurrences.....	1,990	13	1,977
Total.....	18,555	49	18,506
Grand total.....	27,707	1,139	23,760

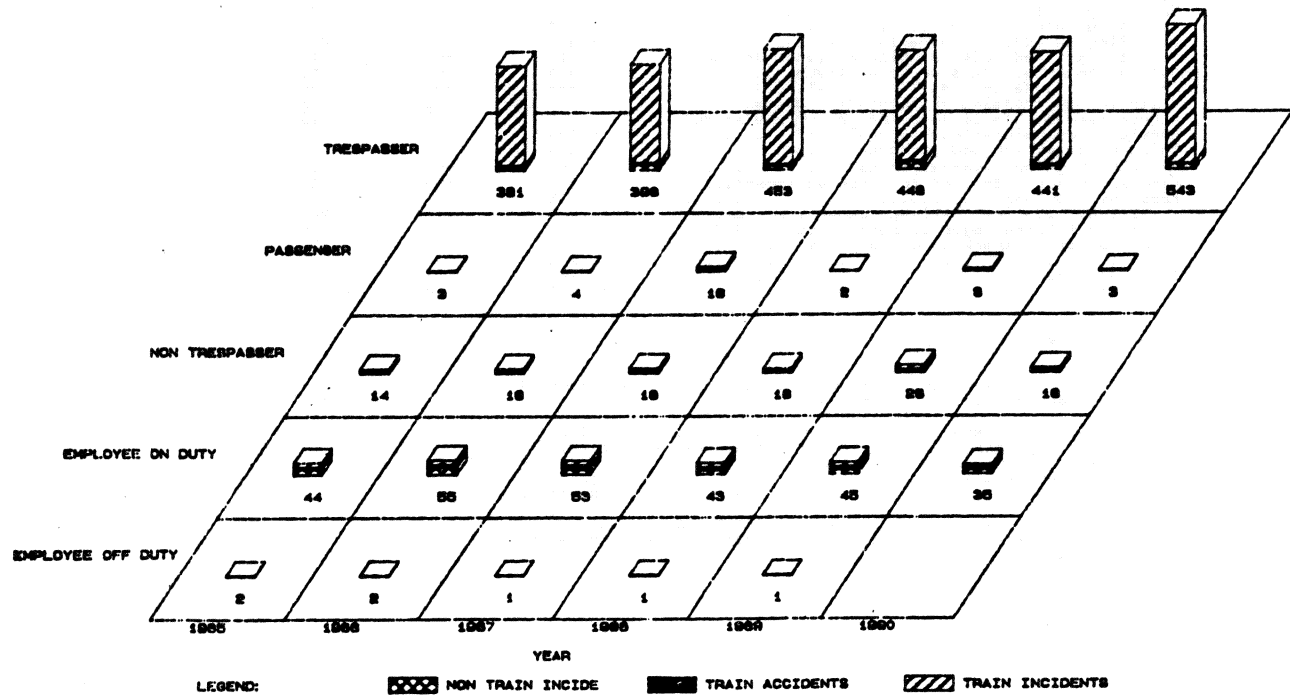
NOTE: Train accidents do not require a casualty to be reportable. See definition in Appendix A.

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 MTH	Train Miles			Total
	Accs Per MTH	Per MTH			Locomotive	Motor	Yard Switching	
January	267	5.22	13,500,239	\$263,831.13	40,163,997	2,685,237	8,320,345	51,169,579
February	251	5.22	16,098,126	\$334,951.96	37,634,057	2,652,573	7,774,034	48,060,664
March	263	4.94	19,429,100	\$364,721.89	41,928,674	2,830,331	8,512,288	53,271,293
April	241	4.75	16,294,404	\$321,401.32	39,837,984	2,708,137	8,151,992	50,698,113
May	246	4.75	15,414,533	\$297,463.01	40,634,769	2,784,544	8,401,066	51,820,379
June	301	5.92	21,241,461	\$417,752.49	40,201,886	2,354,776	8,289,914	50,846,576
July	283	5.59	15,488,453	\$305,745.45	39,845,126	2,689,350	8,123,652	50,658,128
August	245	4.71	15,456,997	\$297,032.88	40,937,327	2,743,921	8,356,564	52,037,812
September	235	4.72	15,816,278	\$317,462.07	39,132,746	2,782,819	7,905,206	49,820,771
October	266	5.02	14,367,776	\$271,212.93	41,358,273	2,944,375	8,473,242	52,975,890
November	200	4.05	18,429,686	\$372,836.60	38,510,957	3,143,166	7,776,813	49,430,936
December	247	5.14	30,253,820	\$629,671.36	37,072,981	2,907,891	8,066,271	48,047,143
Total...	3,045	5.00	211,790,873	\$347,861.37	477,458,777	33,227,120	98,151,387	608,837,284

NOTE: "MTH" = Million train miles

**TABLE 18. TRAIN ACCIDENTS BY TYPE AND MONTH**

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	185	175	186	179	173	237	197	166	159	176	131	182	2,146
Head on collision	2	3	---	3	2	3	3	1	3	3	2	3	28
Rear end collision	2	1	3	5	2	4	3	---	2	3	2	2	29
Side collision	17	12	17	14	18	12	22	17	17	20	15	19	200
Raking collision	2	2	2	1	5	2	9	4	5	3	5	6	46
Broken train collision	---	---	1	---	---	---	1	1	3	2	1	2	12
Rail-hwy crossing	10	11	7	16	17	15	15	16	14	24	12	9	166
RR grade crossing	---	---	---	---	---	---	---	---	---	---	---	---	---
Obstruction	3	3	4	1	4	5	6	9	3	5	3	---	48
Explosion-detonation	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire or violent rupture	4	2	4	2	3	2	3	1	---	1	2	1	25
Other	40	42	39	19	22	21	24	30	29	29	27	23	345
Total	267	251	263	241	246	301	283	245	235	266	200	247	3,045





### 3. ACCIDENTS: DETAILS OF 1990 OCCURRENCES

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
<b>TRACK, ROADBED AND STRUCTURES</b>						
Roadbed defects	57	4,608,903	---	55	2	---
Track geometry defects	432	23,372,099	4	423	---	---
Rail and joint bar defects	232	22,732,498	---	230	---	---
Frogs, switches and track appliances	240	6,798,627	5	230	---	---
Other way and structure	13	265,237	1	10	---	---
Signal and communication failures	14	280,933	1	5	---	---
Subtotal.....	988	58,058,297	11	951	26	---
<b>MECHANICAL AND ELECTRICAL FAILURES</b>						
<b>*LOCOMOTIVE FAILURE*</b>						
Brakes	1	124,234	1	---	---	---
Body	---	---	---	---	---	---
Coupler and draft system	3	179,000	---	2	1	---
Truck components	6	1,200,742	---	5	1	---
Axles and journal bearings	5	288,150	---	3	---	---
Wheels	20	1,421,306	4	6	10	---
Locomotives	---	---	---	---	---	---
Doors	5	278,892	---	---	---	---
General mechanical and electrical failures	38	3,492,324	5	16	17	---
Subtotal (Locomotives)..						
<b>*CAR FAILURE*</b>						
Brakes	48	1,909,270	1	40	7	---
Trailer or container on flat car	3	93,000	---	3	---	---
Body	36	3,362,581	1	35	2	---
Coupler and draft system	41	3,888,534	6	29	6	---
Truck components	90	9,469,413	1	87	2	---
Axles and journal bearings	78	14,382,082	---	78	---	---
Wheels	79	6,463,320	---	77	2	---
Doors	5	471,067	1	3	1	---
General mechanical and electrical failures	7	93,961	---	---	---	---
Subtotal (cars).....	387	40,133,228	10	351	26	---
<b>TOTAL EQUIPMENT FAILURES....</b>	<b>425</b>	<b>43,625,552</b>	<b>15</b>	<b>367</b>	<b>43</b>	<b>---</b>
<b>TRAIN OPERATION - HUMAN FACTORS</b>						
Brakes, use of	184	10,420,205	45	94	45	---
Employee physical condition	3	4,559,651	1	2	---	---
Flagging, fixed, hand and radio signals	48	14,151,594	23	8	17	---
Other rules and instructions	303	9,039,458	115	91	97	---
Speed	65	3,095,143	16	29	20	---
Switches, use of	163	4,814,524	26	119	18	---
Miscellaneous	329	14,045,477	25	253	51	---
Subtotal.....	1,095	60,126,052	251	596	248	---
<b>MISCELLANEOUS FACTORS</b>						
Collision with highway user at crossing site	166	13,078,256	---	---	---	166
Emergency brake application to avoid accident	7	174,527	---	7	---	---
Vandalism	53	3,684,843	4	39	10	---
Interference with rr operation, not vandals	12	179,536	3	8	1	---
Load shifted	12	428,580	3	6	3	---
Load fell from car	5	580,007	---	3	2	---
Overloaded car	9	269,907	---	4	1	---
Improperly loaded car	5	314,475	1	7	1	---
Oversized load, misrouted	5	204,200	1	1	3	---
Object on or fouling track	28	1,804,816	---	11	17	---
Equipment on or fouling track	5	121,922	---	1	4	---
Trail/container tiedown eqp impr applied	2	92,400	---	1	1	---
Overload/improper loaded container etc.	6	224,469	1	5	1	---
Interaction of lateral/vertical forces	80	6,326,011	1	77	---	---
Failure to control car spd with hand brk	1	26,905	1	---	2	---
Snow, ice, or mud on track	6	112,425	---	4	2	---
Other acts of God	22	4,994,184	2	14	6	---
Fire, not due to vandalism	10	443,398	---	---	10	---
Hump retarder failed to slow car	54	879,108	11	21	22	---
Switch fouled by lading chains, etc.	4	82,825	---	3	1	---
Other causes	45	15,958,176	10	20	15	---
Subtotal.....	537	49,980,972	38	232	101	166
<b>GRAND TOTAL.....</b>	<b>3,045</b>	<b>211,790,873</b>	<b>315</b>	<b>2,146</b>	<b>418</b>	<b>166</b>

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

Cause Of Accident	-----Total-----					Rail Way Crossing
	Accidents	Damage	Collisions	Derailments	Other	
<b>BRAKES, USE OF</b>						
500 Automatic brake, improper use	19	864,392	1	17	1	---
501 Dynamic brake, improper use	9	2,782,728	---	8	1	---
502 Failure to secure eng (R.R. emp.)	8	2,704,790	3	3	2	---
503 Failure to secure hnd brk (R.R. emp)	36	842,393	12	12	12	---
504 Failure to apply sufficient hand brake	44	1,240,104	19	12	13	---
505 Failure to apply hnd brk on car (emp.)	22	343,093	6	9	7	---
506 Fail. to secure eng/car (Non R.R. emp)	3	43,200	---	3	---	---
507 Independent (eng.) brake, improper use	17	544,565	---	17	---	---
508 Fail. to control spd.hnd brk (R.R.emp)	5	75,100	1	1	3	---
509 Other causes involving use of brakes	21	979,840	3	12	6	---
<b>SUBTOTAL.....</b>	<b>184</b>	<b>10,420,205</b>	<b>45</b>	<b>94</b>	<b>45</b>	<b>---</b>
<b>EMPLOYEE PHYSICAL CONDITION</b>						
513 Employee falling asleep	3	4,559,651	1	2	---	---
<b>SUBTOTAL.....</b>	<b>3</b>	<b>4,559,651</b>	<b>1</b>	<b>2</b>	<b>---</b>	<b>---</b>
<b>FLAGGING, FIXED, HAND AND RADIO SIGNALS</b>						
519 Fixed signal improperly displayed	2	22,246	---	---	2	---
52A Block signal, failure to comply	11	10,587,199	10	---	1	---
52B Interlocking signal, failure to comply	2	117,204	2	---	---	---
52B Fixed signal, failure to comply	6	2,957,978	2	2	2	---
522 Flagging signal, failure to comply	1	12,000	---	---	1	---
523 Hand signal, failure to comply	1	18,000	---	---	1	---
525 Hand signal, failure to give/receive	5	73,160	2	1	2	---
526 Radio communication, failure to comply	6	94,077	2	1	3	---
527 Radio communication, improper	4	53,529	1	2	1	---
528 Radio comm., failure to give/receive	5	93,951	1	1	3	---
529 Flagging, fixed, hand & radio (other)	5	122,250	3	1	1	---
<b>SUBTOTAL.....</b>	<b>48</b>	<b>14,151,594</b>	<b>23</b>	<b>8</b>	<b>17</b>	<b>---</b>
<b>OTHER RULES AND INSTRUCTIONS</b>						
530 Car(s) shoved out & left out of clear	15	233,092	6	4	5	---
531 Cars left foul	37	517,550	9	3	25	---
532 Derail, failure to apply or remove	17	322,674	---	16	1	---
533 Failure to stop train in clear	35	573,521	24	3	8	---
535 Instruction to trn/yard crew improper	10	149,298	1	5	4	---
536 Mtr car/on-trk eqp rules, fail to cmply	16	655,754	4	1	1	---
537 Equip move without authority (RR emp)	7	137,200	5	1	11	---
538 Shoving move, missing man at lead	102	2,482,011	36	35	31	---
539 Shoving movement, fail to control	16	1,052,221	5	7	4	---
540 Skate, failure to remove or place	4	56,927	---	4	---	---
541 Special op. instr., failure to comply	20	1,438,767	10	7	3	---
542 Trn ord/timetable auth. fail to comply	7	645,057	3	4	---	---
543 Trn ord(radio)arr in prep/trans/deliv	1	56,800	1	---	---	---
549 Rules and instructions, other	16	718,586	11	1	4	---
<b>SUBTOTAL.....</b>	<b>303</b>	<b>9,039,458</b>	<b>115</b>	<b>91</b>	<b>97</b>	<b>---</b>

**TABLE 20. (CONTINUED)**

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
<b>SPEED</b>						
550 Coupling speed excessive	27	1,238,135	2	9	16	---
553 Switch movement, excessive speed	11	274,456	4	5	2	---
554 Trn inside yrd limit, excess speed	10	1,078,458	5	5	---	---
555 Trn out yrd limit, clear blk, excess spd	5	249,010	1	4	---	---
559 Other Causes involving excessive speed	12	255,084	4	6	2	---
<b>SUBTOTAL.....</b>	<b>65</b>	<b>3,095,143</b>	<b>16</b>	<b>29</b>	<b>20</b>	<b>---</b>
<b>SWITCHES, USE OF</b>						
560 Spring switch not clear before reverse	7	113,100	---	7	---	---
561 Switch improperly lined	95	3,238,693	22	57	16	---
562 Switch not latched or locked	7	297,998	1	6	---	---
563 Switch previously run through	48	992,100	3	44	1	---
569 Use of switches, other	6	172,633	---	5	1	---
<b>SUBTOTAL.....</b>	<b>163</b>	<b>4,814,524</b>	<b>26</b>	<b>119</b>	<b>18</b>	<b>---</b>
<b>MISCELLANEOUS</b>						
570 Buffing or slack action excessive	156	9,113,560	2	148	6	---
571 Failure to couple	13	741,533	5	3	5	---
572 Lateral drawbar force on curve excess	39	1,055,735	---	39	---	---
574 Passed couplers	42	538,535	---	27	15	---
575 Retarder, improper manual operation	21	259,904	3	12	6	---
599 Other train operation/human factors	58	2,336,210	15	24	19	---
<b>SUBTOTAL.....</b>	<b>329</b>	<b>14,045,477</b>	<b>25</b>	<b>253</b>	<b>51</b>	<b>---</b>
<b>GRAND TOTAL.....</b>	<b>1,095</b>	<b>60,126,052</b>	<b>251</b>	<b>596</b>	<b>248</b>	<b>---</b>

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
<b>BRAKES</b>						
400 Air hose uncoupled or burst	9	472,980	---	9	---	---
401 Hydraulic hose uncoupled or burst	1	10,500	---	---	---	---
402 Broken brake pipe or connections	1	97,700	---	1	1	---
403 Obstructed brake pipe	1	125,000	---	---	---	---
404 Other brake component failure, etc.	3	59,027	---	3	---	---
404L Other brake component failure - loco	1	124,234	1	---	---	---
405 Brk valve malf. (undesired emergency)	6	238,344	---	6	---	---
406 Brake valve malfunction/stuck brake/etc	8	312,516	---	5	3	---
407 Rigging down or dragging	13	428,175	---	13	---	---
408 Hand brake/gear broken or defective	1	68,300	---	1	---	---
409 Hand brk linkage/connections failure	1	9,700	---	1	1	---
410 Other brake failure(not on locomotive)	4	87,028	1	2	---	---
SUBTOTAL.....	49	2,033,504	2	40	7	---
<b>TRAILER OR CONTAINER ON FLAT CAR</b>						
413 Broken or defective trailer	1	34,000	---	1	---	---
419 Oth trailer/container on flat car fail	2	59,000	---	2	---	---
SUBTOTAL.....	3	93,000	---	3	---	---
<b>BODY</b>						
421 Center sill broken or bent	6	69,348	---	5	1	---
422 Draft sill broken or bent	1	12,000	---	1	---	---
423 Center plate broken or defective	4	239,668	---	4	---	---
424 Center plate disengaged from truck	14	2,569,809	---	14	---	---
425 Center pin broken or missing	1	18,500	---	1	---	---
426 Center plate attachment defective	1	105,856	---	1	---	---
429 Other causes due to body (not loco)	9	349,400	1	7	1	---
SUBTOTAL.....	36	3,362,581	1	33	2	---
<b>COUPLER AND DRAFT SYSTEM</b>						
430 Knuckle broken or defective	6	930,197	1	5	---	---
431 Coupler mismatch, high/low	5	134,100	---	3	2	---
432 Coupler drawhead broken or defective	3	80,920	---	3	2	---
433 Coupler retainer pin/cross key missing	8	505,152	---	6	1	---
434 Draft gear/mechanism broken/defective	4	1,133,700	1	4	---	---
435 Coupler carrier broken or defective	2	19,955	---	1	---	---
436 Coupler shank broken or defective	2	19,650	---	2	---	---
439 Other coupler and draft system causes	9	1,066,900	3	5	1	---
SUBTOTAL.....	41	3,888,534	6	29	6	---
<b>TRUCK COMPONENTS</b>						
440 Side bearing clearance improper	24	2,642,156	---	24	---	---
441 Side bearing(s) broken	3	92,268	---	3	---	---
442 Side bearing(s) missing	1	37,000	---	1	---	---
443 Truck bolster broken	5	1,189,621	---	5	---	---
444 Side frame broken	2	14,100	---	1	---	---
445 Truck (stiff/improper lateral)	41	3,245,336	1	39	1	---
445L Truck (stiff/improper lateral) - loco	2	168,900	---	1	1	---
446 Defective snubbing	2	115,400	---	2	---	---
449 Other truck component causes	12	2,133,532	---	12	---	---
449L Other truck component causes - loco	1	10,100	---	1	---	---
SUBTOTAL.....	93	9,648,413	1	89	3	---

TABLE 21. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Way Crossing
	Accidents	Damage				
<b>AXLES AND JOURNAL BEARINGS</b>						
450 Broken or bent between wheel seats	2	1,448,470	---	2	---	---
450L Broken/bent between wheel seats-loco	3	99,911	---	3	---	---
451 Journal (plain) failure - overheating	18	2,288,498	---	18	---	---
452 Journal (R. B.) failure - overheat	52	10,433,372	---	52	---	---
452L Journal (R. B.) failure-overheat(loco)	1	6,331	---	---	1	---
453 Journal fractured, new cold break	2	52,824	---	2	---	---
459 Axles and journal bearings (other)	4	158,918	---	4	---	---
459L Axles/journal bearings (other) - loco	2	1,094,500	---	2	---	---
SUBTOTAL .....	84	15,582,824	---	83	1	---
<b>WHEELS</b>						
460 Broken flange	6	568,026	---	6	---	---
461 Broken rim	9	1,060,656	---	9	---	---
462 Broken plate	17	1,733,837	---	16	1	---
463 Broken hub	3	274,459	---	3	---	---
464 Horn flange	27	829,679	---	26	1	---
464L Horn flange - locomotive	2	18,750	---	2	---	---
465 Horn thread	3	191,850	---	3	---	---
465L Horn thread - locomotive	1	269,400	---	1	---	---
466 Damaged flange or tread, flat	1	18,825	---	1	---	---
467 Loose wheel	3	1,207,977	---	3	---	---
468 Thermal crack, flange or tread	3	88,705	---	3	---	---
469 Other causes involving wheels-not loco	7	497,306	---	7	---	---
SUBTOTAL .....	82	6,751,470	---	80	2	---
<b>LOCOMOTIVES</b>						
470L Running gear failure - locomotive	1	18,930	---	1	---	---
471L Traction motor failure - locomotive	2	17,236	---	2	---	---
474L Electrically caused fire - locomotive	7	364,746	---	---	7	---
476L Remote control eqp. inoperative-loco	2	84,968	---	1	1	---
477L Brake/defect swing hanger or plank-loco	1	18,746	1	---	---	---
479L Other causes involving locomotives	7	916,680	3	2	2	---
SUBTOTAL .....	20	1,421,306	4	6	10	---
<b>DOORS</b>						
481 Box car plug door, attachment defective	1	18,167	1	---	---	---
485 Bottom outlet car door open	1	379,700	---	1	---	---
486 Bottom outlet car door attach defect.	1	40,500	---	1	---	---
489 Other causes involving doors	2	32,700	---	1	1	---
SUBTOTAL .....	5	471,067	1	3	1	---
<b>GENERAL MECHANICAL AND ELECTRICAL FAILURES</b>						
499 General mech/elect failures-not loco	7	93,961	---	1	6	---
499L General mech/elect failures - loco	5	278,892	---	---	5	---
SUBTOTAL .....	12	372,853	---	1	11	---
<b>GRAND TOTAL .....</b>	<b>425</b>	<b>43,625,552</b>	<b>15</b>	<b>367</b>	<b>43</b>	<b>---</b>

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Way Crossing
	Accidents	Damage				
<b>ROADBED DEFECTS</b>						
101 Roadbed settled or soft	39	1,584,008	---	38	1	---
102 Washout/rain/slide/ice, etc. dmg to trk	14	2,872,155	---	13	1	---
109 Other roadbed defects	4	152,740	---	4	---	---
<b>SUBTOTAL.....</b>	<b>57</b>	<b>4,608,903</b>	<b>---</b>	<b>55</b>	<b>2</b>	<b>---</b>
<b>TRACK GEOMETRY DEFECTS</b>						
110 Wide gage (defect/missing cross-ties)	204	6,429,661	3	198	3	---
111 Wide gage (def/missing rail fasteners)	54	1,436,710	---	34	---	---
112 Wide gage (involving gage rods)	6	89,600	---	6	---	---
113 Wide gage due to worn rail	19	387,048	---	18	1	---
114 Track alignment irregular	10	2,063,738	---	10	---	---
115 Track alignment irregular (buckled)	28	3,013,288	---	28	---	---
116 Track profile improper	5	61,372	---	5	---	---
117 Superelevation incorrect	19	1,590,422	---	19	---	---
118 Superelevation runoff improper	1	26,000	---	1	---	---
119 Cross level irregular at joints	50	3,143,741	---	49	1	---
120 Cross level irregular not at joints	40	4,064,671	---	40	---	---
129 Other track geometry defects	16	1,065,848	1	15	---	---
<b>SUBTOTAL.....</b>	<b>432</b>	<b>23,372,099</b>	<b>4</b>	<b>423</b>	<b>5</b>	<b>---</b>
<b>RAIL AND JOINT BAR DEFECTS</b>						
130 Belt hole crack or break	11	750,680	---	11	---	---
131 Broken base of rail	31	2,069,804	---	30	1	---
132 Broken weld, field	7	1,684,013	---	7	---	---
133 Broken weld, plant	2	409,100	---	2	---	---
134 Detail fracture fm shelling/head check	19	4,685,439	---	19	---	---
135 Engine burn fracture	1	22,650	---	1	---	---
136 Head/web sep.(outside joint bar limit)	31	2,325,450	---	31	---	---
137 Head/web sep.(within joint bar limits)	8	447,613	---	8	---	---
138 Horizontal split head	4	26,639	---	3	1	---
141 Transverse/compound fissure	50	4,992,228	---	50	---	---
142 Vertical split head	21	711,810	---	21	---	---
143 Horn rail	13	765,214	---	13	---	---
144 Mismatched rail-head contour	3	139,791	---	3	---	---
146 Joint bar broken, insulated	1	137,500	---	1	---	---
147 Joint bar broken, noninsulated	4	165,068	---	4	---	---
148 Joint bolts, broken or missing	2	143,650	---	2	---	---
149 Other rail and joint bar defects	24	3,257,849	---	24	---	---
<b>SUBTOTAL.....</b>	<b>232</b>	<b>22,732,498</b>	<b>---</b>	<b>230</b>	<b>2</b>	<b>---</b>

TABLE 22. (CONTINUED)

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Way Crossing
	Accidents	Damage				
<b>FROGS, SWITCHES AND TRACK APPLIANCES</b>						
160 Guard rail loose/broken/etc.	4	568,197	---	4	---	---
161 Switch damaged/out of adjustment	53	1,087,988	1	52	---	---
162 Switch stand failure (hand oper.)	2	16,200	---	2	---	---
163 Switch connecting/oper. rod fail.	5	215,568	1	4	---	---
164 Stock rail worn/broken/disconnect	4	67,598	---	4	---	---
165 Switch point worn or broken	123	3,633,929	---	122	1	---
166 Switch rod worn/bent/broken/etc.	2	47,090	---	2	---	---
167 Frog, rigid, worn or broken	1	13,700	---	1	---	---
173 Retarder worn/broken/malfunction	10	103,724	1	5	4	---
174 Spring/power switch mech. malfunction	4	145,503	2	2	---	---
175 Retarder yard skate defective	2	24,700	---	2	---	---
176 Switch out of adjust.(insuf rail anch)	9	197,275	---	9	---	---
179 Other frog/switches/track appl. causes	21	677,155	---	21	---	---
<b>SUBTOTAL.....</b>	<b>240</b>	<b>6,798,627</b>	<b>5</b>	<b>230</b>	<b>5</b>	<b>---</b>
<b>OTHER WAY AND STRUCTURES</b>						
181 Flangeway clogged	1	25,000	---	1	---	---
189 Other way and structure causes	12	240,237	1	2	9	---
<b>SUBTOTAL.....</b>	<b>13</b>	<b>265,237</b>	<b>1</b>	<b>3</b>	<b>9</b>	<b>---</b>
<b>SIGNAL AND COMMUNICATION FAILURES</b>						
200 Fix sig. improperly displayed (defect)	1	7,500	---	1	---	---
201 Radio communication equipment failure	5	79,100	1	3	1	---
202 Other communication equipment failure	1	34,500	---	1	---	---
209 Signal & communication failure N.O.C.	7	159,833	---	5	2	---
<b>SUBTOTAL.....</b>	<b>14</b>	<b>280,933</b>	<b>1</b>	<b>10</b>	<b>3</b>	<b>---</b>
<b>GRAND TOTAL.....</b>	<b>988</b>	<b>58,058,297</b>	<b>11</b>	<b>951</b>	<b>26</b>	<b>---</b>

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
<b>MISC CAUSES NOT OTHERWISE LISTED</b>						
700 Collision with hwy user at grade xing	166	13,078,256	---	---	---	166
701 Emergency brk appl to avoid accident	7	174,527	---	7	---	---
702 Vandalism	53	3,684,843	4	39	10	---
703 Interference with RR oper.-not vandals	12	179,536	3	8	1	---
704 Load shifted	12	428,580	3	6	3	---
705 load fell from car	5	580,007	---	3	2	---
706 Overloaded car	9	269,907	---	4	1	---
707 Improperly loaded car	5	514,475	1	7	1	---
708 Oversized load, misrouted	5	204,200	1	1	3	---
709 Object on or fouling track	28	1,804,816	---	11	17	---
710 Equipment on or fouling track	5	121,922	---	1	4	---
711 Trail/container tiedown eqp-impr applied	2	92,400	---	1	1	---
712 Overload/improper loaded container etc	6	224,469	1	5	---	---
713 Interaction of lateral/vertical forces	80	6,326,011	1	77	2	---
714 Failure to control spd with hand brake	1	26,905	1	---	---	---
715 Snow, ice, or mud on track	6	112,425	---	4	2	---
716 Other acts of God	22	4,994,186	2	14	6	---
717 Fire, other than vandalism, involving	10	443,398	---	---	10	---
718 Hump retarder failed to sufficiently s	54	879,108	11	21	22	---
719 Objects such as lading chains or strap	4	82,825	---	3	1	---
799 Other miscellaneous causes	45	15,958,176	10	20	15	---
<b>SUBTOTAL.....</b>	<b>537</b>	<b>49,980,972</b>	<b>38</b>	<b>232</b>	<b>101</b>	<b>166</b>
<b>GRAND TOTAL.....</b>	<b>537</b>	<b>49,980,972</b>	<b>38</b>	<b>232</b>	<b>101</b>	<b>166</b>

**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....	144	17,935,638	1,519	88,683,493	111	2,892,507	108	8,787,439	1,882	118,299,077
Passenger train..	17	881,992	42	13,460,679	56	1,292,683	40	2,730,877	155	18,366,231
Mixed train.....	---	---	---	---	---	---	---	---	---	---
Work train.....	5	142,000	12	118,807	3	76,000	1	11,877	21	348,684
Single car.....	56	633,742	20	235,800	59	816,099	3	70,000	138	1,755,641
Cut of cars.....	99	1,512,966	78	1,208,987	38	921,044	1	100	236	3,643,077
Yard/mitching....	170	3,011,605	467	6,875,942	151	2,066,124	5	35,054	793	11,988,725
Light loco(s)....	50	1,616,880	25	336,395	32	993,403	3	86,500	110	3,033,178
Unknown.....	---	---	1	800	---	---	---	---	1	800
<b>Total.....</b>	<b>541</b>	<b>25,734,803</b>	<b>2,164</b>	<b>110,920,903</b>	<b>470</b>	<b>9,057,860</b>	<b>161</b>	<b>11,721,847</b>	<b>3,336</b>	<b>157,435,413</b>

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.

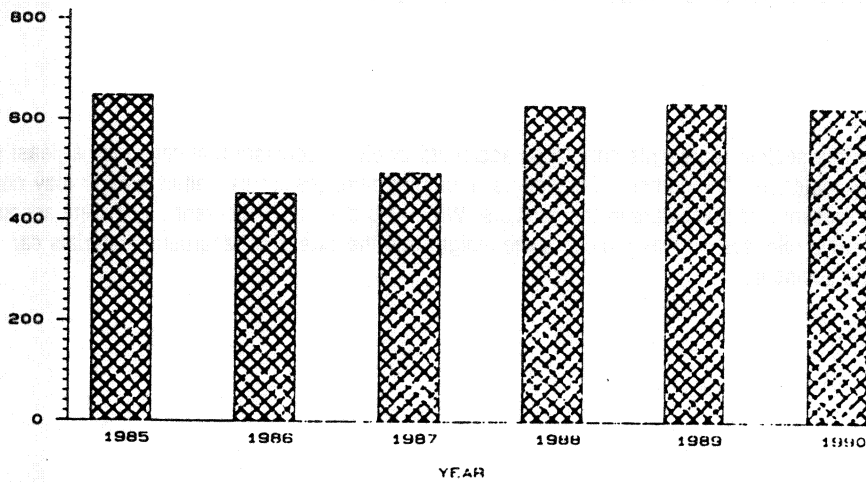
**TABLE 25. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS**

Type Of Accident	Consists Carrying	In Consist	Containing Hazmat	Cars Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
Derailment	366	25,264	2,480	541	73	2,944	25,755,838
Head on collision	3	138	10	---	---	---	654,700
Rear end collision	8	505	44	4	2	---	737,199
Side collision	44	1,956	274	35	3	---	974,748
Raking collision	5	217	12	1	---	---	167,322
Broken train collision	---	---	---	---	---	---	---
Rail-hwy crossing	18	1,218	109	7	5	---	2,561,125
RR grade crossing	---	---	---	---	---	---	---
Obstruction	3	309	7	4	4	---	580,800
Explosion-detonation	---	---	---	---	---	---	12,000
Fire or violent rupture	1	42	4	---	---	90	979,816
Other	36	1,839	194	35	3	---	---
<b>Total</b>	<b>484</b>	<b>31,488</b>	<b>3,134</b>	<b>627</b>	<b>90</b>	<b>3,034</b>	<b>32,423,548</b>

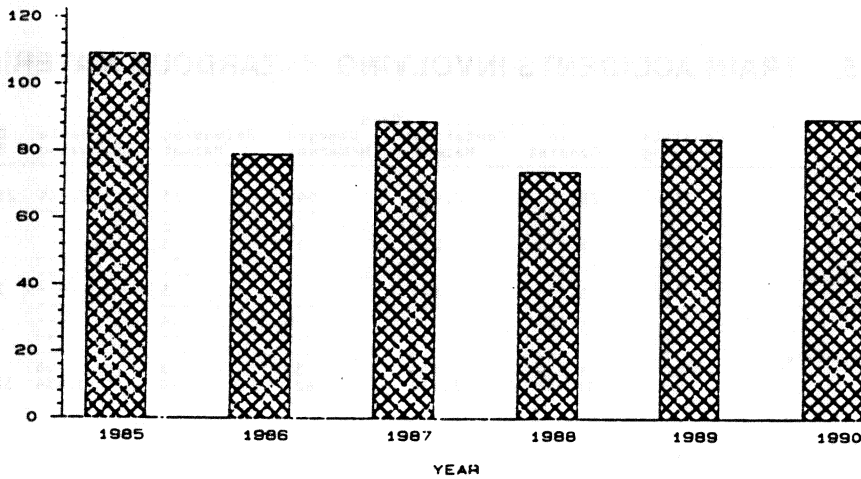
**TABLE 26. TRAIN ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS**

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
1985	415	245	54	22
1986	364	185	51	32
1987	351	186	50	28
1988	475	237	44	32
1989	517	251	55	28
1990	466	236	35	20

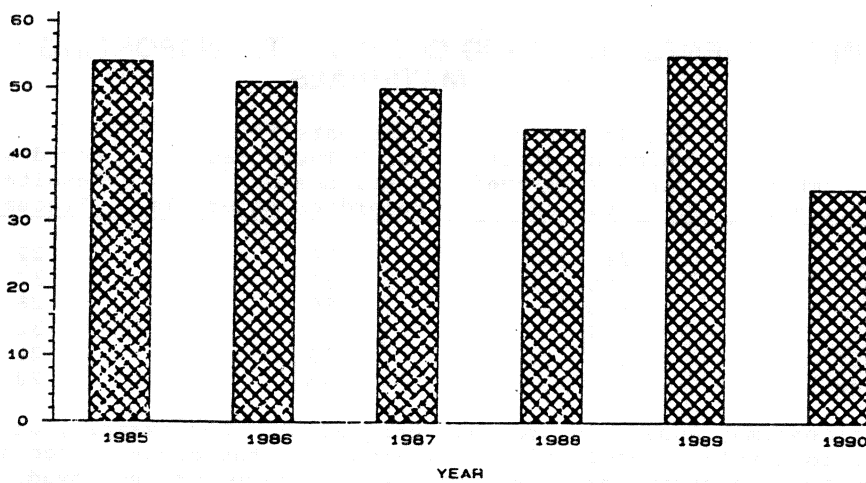
NOTE: An accident may appear in pre than one column. For example, an accident that resulted in a release would also be included in the count of accidents that resulted in a hazardous materials car being damaged or destroyed.



**FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED**



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



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

**TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE**

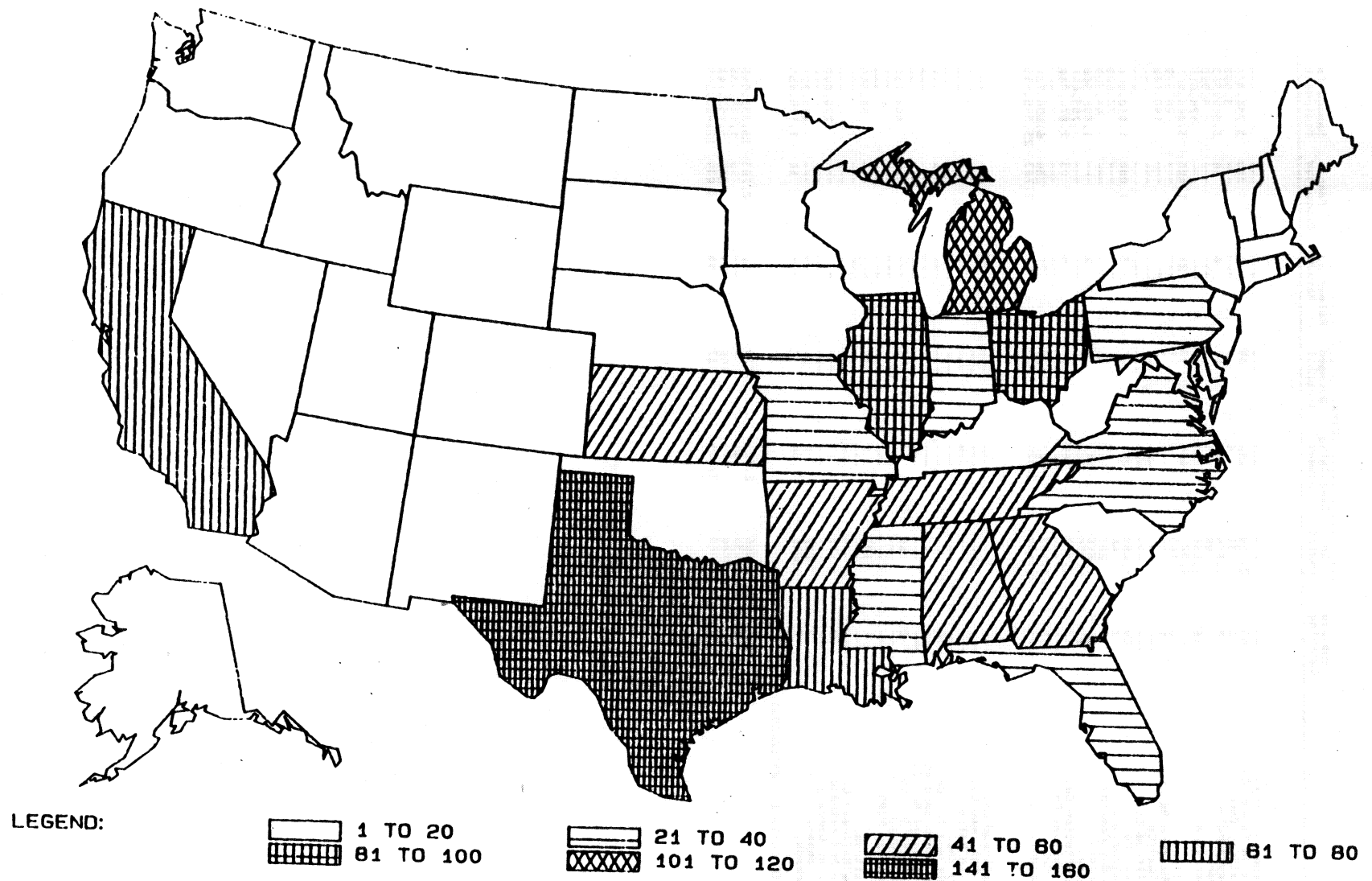
Cause	Consists Carrying	Cars			Releasing Hazmat	People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat			
<b>TRACK, ROADBED AND STRUCTURES</b>							
Roadbed defects	9	431	61	15	3	---	285,372
Track geometry defects	68	4,436	466	100	4	---	2,990,051
Rail and joint bar defects	38	2,492	244	75	5	10	2,299,179
Frogs, switches and track appliances	50	2,968	335	74	12	12	1,640,049
Other way and structure	1	38	1	---	---	---	12,000
Signal and communication failures	1	14	1	---	---	---	15,000
Subtotal.....	167	10,379	1,108	264	24	22	7,241,651
<b>MECHANICAL AND ELECTRICAL FAILURES</b>							
Brakes	13	989	74	32	3	90	574,044
Trailer or container on flat car	---	---	---	---	---	---	---
Body	9	590	37	7	---	15	632,190
Coupler and draft system	6	513	22	2	---	---	235,020
Truck components	25	1,487	214	48	19	415	2,495,819
Axles and journal bearings	21	1,793	160	51	18	1,656	3,381,845
Wheels	20	1,737	141	13	1	---	1,098,821
Locomotives	4	282	44	15	---	15	835,436
Doors	1	88	3	3	---	---	313,700
General mechanical and electrical failures	---	---	---	---	---	---	---
Subtotal.....	99	7,479	695	171	41	2,191	9,566,875
<b>TRAIN OPERATION - HUMAN FACTORS</b>							
Brakes, use of	32	1,731	144	36	2	300	1,504,739
Employee physical condition	1	33	5	5	---	---	1,500,000
Flagging, fixed, hand and radio signals	12	902	145	2	---	---	1,257,498
Other rules and instructions	33	1,568	181	19	4	---	1,181,391
Speed	3	222	19	5	---	---	31,075
Switches, use of	27	1,507	201	32	1	---	901,894
Miscellaneous	40	3,257	242	29	4	100	2,078,213
Subtotal.....	148	9,220	937	128	11	400	8,454,810
<b>MISCELLANEOUS FACTORS</b>							
Collision with highway user at crossing site	18	1,218	109	7	5	---	2,561,125
Emergency brake application to avoid accident	1	87	4	---	---	---	9,500
Vandalism	5	252	55	7	---	---	125,870
Interference with rr operation, not vandals	---	---	---	---	---	---	---
Load shifted	2	123	12	1	---	---	20,667
Load fell from car	---	---	---	---	---	---	---
Overloaded car	---	---	---	---	---	---	---
Improperly loaded car	1	73	6	---	---	---	3,240
Oversized load, misrouted	---	---	---	---	---	---	---
Object on or fouling track	2	184	21	9	1	200	534,900
Equipment on or fouling track	---	---	---	---	---	---	---
Trail/container tiedown eqp impr applied	---	---	---	---	---	---	---
Overload/improper loaded container etc.	1	64	5	---	---	---	50,000
Interaction of lateral/vertical forces	21	1,477	134	19	3	221	2,377,829
Failure to control car spd with hand brk	---	---	---	---	---	---	---
Snow, ice, or mud on track	1	68	2	2	---	---	14,500
Other acts of God	5	299	16	7	4	---	998,531
Fire, not due to vandalism	---	---	---	---	---	---	---
Hump retarder failed to slow car	7	275	19	4	1	---	165,900
Switch fouled by lading chains, etc.	---	---	---	---	---	---	---
Other causes	6	290	11	8	---	---	298,150
Subtotal.....	70	4,610	394	64	14	421	7,160,212
<b>GRAND TOTAL.....</b>	<b>484</b>	<b>31,488</b>	<b>3,134</b>	<b>627</b>	<b>90</b>	<b>3,034</b>	<b>32,423,548</b>

**TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE**

State	Consists Carrying	Cars			Releasing Hazmat	People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat			
Alabama.....	14	955	62	14	4	---	2,076,975
Alaska.....	1	71	61	19	1	---	360,000
Arizona.....	10	470	59	23	12	50	546,640
Arkansas.....	10	743	76	11	5	200	580,060
California.....	26	1,534	94	46	3	43	2,795,849
Colorado.....	5	219	11	6	1	40	313,000
Connecticut.....	---	---	---	---	---	---	---
Delaware.....	---	---	---	---	---	---	---
Dist of Columbia.....	1	70	1	1	---	---	4,700
Florida.....	5	352	64	6	---	---	110,859
Georgia.....	8	355	32	4	3	---	571,499
Idaho.....	4	125	5	3	---	---	51,300
Illinois.....	48	3,195	335	51	7	---	1,844,990
Indiana.....	17	1,441	167	12	1	---	602,225
Iowa.....	13	927	80	22	---	15	1,163,517
Kansas.....	13	835	79	11	2	---	1,815,512
Kentucky.....	9	801	63	10	2	---	870,700
Louisiana.....	32	1,704	320	35	---	15	1,115,831
Maine.....	2	74	2	1	---	---	5,000
Maryland.....	2	43	25	---	---	---	36,977
Massachusetts.....	1	57	2	2	---	---	500
Michigan.....	3	162	7	2	---	---	27,300
Minnesota.....	9	612	36	7	---	16	692,721
Mississippi.....	8	493	35	5	---	---	264,718
Missouri.....	19	1,314	114	24	1	1	1,305,648
Montana.....	12	523	41	12	---	---	1,917,804
Nebraska.....	10	888	66	11	1	---	895,805
Nevada.....	1	30	2	---	---	---	6,000
New Hampshire.....	---	---	---	---	---	---	---
New Jersey.....	2	146	27	2	---	---	37,750
New Mexico.....	10	541	67	6	1	---	682,100
New York.....	7	245	35	4	---	---	59,546
North Carolina.....	11	812	108	17	4	200	577,604
North Dakota.....	6	537	21	1	---	---	278,350
Ohio.....	7	471	91	13	1	200	238,325
Oklahoma.....	9	423	30	12	---	---	295,293
Oregon.....	7	582	18	13	---	---	388,289
Pennsylvania.....	12	950	54	25	10	200	737,208
Rhode Island.....	---	---	---	---	---	---	---
South Carolina.....	7	649	43	3	2	600	493,036
South Dakota.....	1	26	26	3	---	---	11,000
Tennessee.....	26	2,088	156	30	8	1,120	2,019,900
Texas.....	55	3,097	391	109	19	325	3,459,030
Utah.....	2	6	4	4	---	---	14,800
Vermont.....	9	54	3	3	---	---	147,251
Virginia.....	9	711	72	7	---	---	533,732
Washington.....	4	181	43	18	2	9	478,550
West Virginia.....	4	338	7	2	---	---	148,984
Wisconsin.....	12	851	54	4	---	---	344,927
Wyoming.....	8	787	45	13	---	---	1,491,733
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	484	31,488	3,134	627	90	3,034	32,423,548

**TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD**

Railroad	Consists Carrying	In Consist	Cars Containing Hazmat	Cars Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
<b>CLASS I RAILROADS</b>							
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---
Atchafalaya, Topeka And Santa Fe Rwy Co.	43	2,560	286	49	4	300	3,256,328
Springfield Terminal Railway Company	3	131	4	3	---	---	5,500
Burlington Northern Incorporated	48	3,174	202	44	6	16	3,566,583
Chicago And North Western	1	99	1	1	---	---	5,000
Consolidated Rail Corporation	16	1,131	97	17	---	---	178,011
CSX Transportation	81	6,521	686	93	21	1,120	5,868,087
Delaware And Hudson Railway	3	163	13	1	---	---	28,500
Denver And Rio Grande Western RR Co.	1	86	7	3	---	---	140,000
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---
Illinois Central Railroad Co.	20	1,609	241	27	3	1,000	1,010,068
Kansas City Southern Railway Co.	2	46	8	1	---	---	72,600
Louisiana And Arkansas Rwy Company	2	201	15	6	---	---	41,500
Norfolk Southern Corporation	23	1,810	112	5	2	---	1,598,560
Soo Line Railroad Company	23	1,575	99	9	---	---	705,447
Southern Pacific Transportation Co.	42	2,437	166	95	4	93	2,874,980
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---
Union Pacific Railroad Co.	85	5,103	587	125	21	234	6,004,781
Total Class I Railroads.....	393	26,646	2,524	479	61	2,763	25,355,945
<b>CLASS II RAILROADS</b>							
Bangor And Aroostook Railroad Co.	---	---	---	---	---	---	---
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine	---	---	---	---	---	---	---
Central Vermont Railway Inc.	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co.	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.	2	169	14	6	---	16	444,150
Green Bay And Western Railroad	---	---	---	---	---	---	---
Ann Arbor Railroad (formerly MIRR)	---	---	---	---	---	---	---
Monongahela Railway	1	103	1	---	---	---	38,584
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Pittsburg And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac	2	177	13	---	---	---	220,000
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	2	207	8	1	---	---	411,721
Total Class II Railroads.....	7	656	36	7	---	16	1,114,455
<b>RECAPITULATION (INCLUDES CLASS III RAILROADS)</b>							
Class I Railroads	393	26,646	2,524	479	61	2,763	25,355,945
Class II Railroads	7	656	36	7	---	16	1,114,455
Class III Railroads	84	4,186	574	141	29	255	5,953,148
Total All Railroads.....	484	31,488	3,134	627	90	3,034	32,423,548

**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

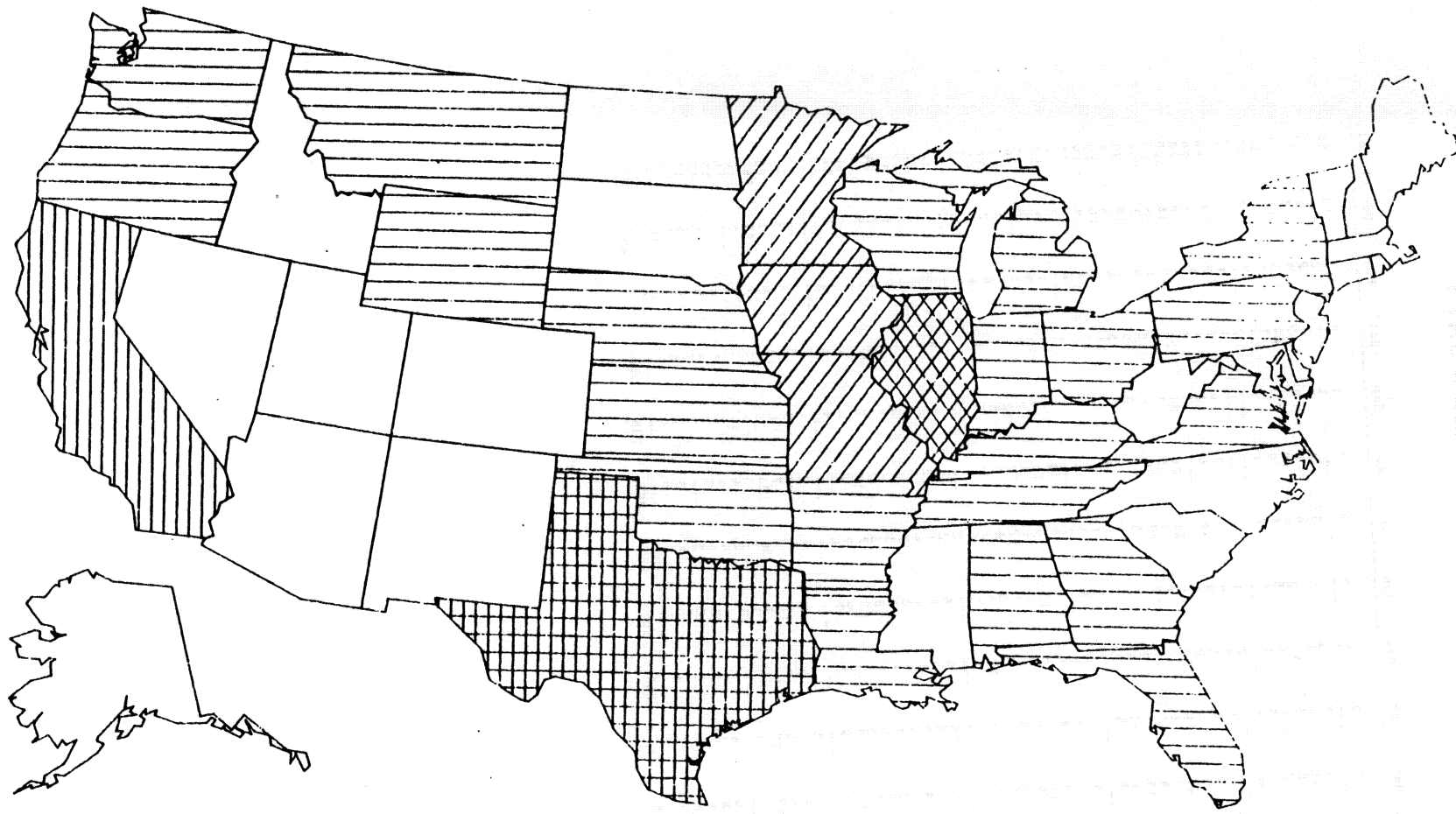
### TABLE 30. TRAIN ACCIDENTS BY STATE AND TYPE

State	...Collisions....		...Derailments....		.....Other.....		..Rail-They X-ing..		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	7	85,991	39	1,502,582	2	527,100	10	1,292,720	58	3,408,393
Alaska.....	---	---	4	630,080	---	---	1	12,300	5	642,380
Arizona.....	4	2,096,100	22	3,380,304	8	1,501,150	3	498,950	37	7,476,504
Arkansas.....	9	686,721	58	2,872,731	3	104,193	3	255,525	73	3,917,170
California.....	17	5,644,456	120	9,429,913	25	490,468	15	808,545	177	16,393,382
Colorado.....	2	56,500	21	2,694,146	6	192,170	2	16,860	31	2,959,676
Connecticut.....	2	27,880	10	861,626	9	191,928	2	58,000	23	1,119,434
Delaware.....	1	---	---	---	1	16,300	2	50,714	4	67,014
Dist of Columbia.....	---	---	2	40,200	3	74,246	---	---	5	114,446
Florida.....	2	56,300	46	1,356,239	5	173,413	7	497,486	60	2,083,438
Georgia.....	10	2,484,116	39	2,040,214	9	117,400	8	696,048	66	5,337,778
Idaho.....	3	186,291	18	1,067,946	4	86,500	3	21,750	28	1,362,487
Illinois.....	43	3,307,013	206	11,064,820	44	869,515	7	735,848	300	15,977,196
Indiana.....	5	268,200	48	2,569,954	7	138,907	5	95,574	65	3,072,635
Iowa.....	9	662,616	78	6,426,251	9	208,892	8	190,779	104	7,486,538
Kansas.....	15	345,620	57	4,855,055	14	197,500	4	450,300	90	5,848,475
Kentucky.....	15	472,972	56	3,331,071	5	174,043	2	25,800	78	4,003,886
Louisiana.....	14	312,496	59	3,688,221	10	339,039	6	106,075	89	4,445,831
Maine.....	3	42,500	11	498,974	---	---	---	---	14	541,474
Maryland.....	6	149,062	19	373,637	2	96,348	1	378,950	28	997,997
Massachusetts.....	5	259,351	8	12,747,583	3	53,300	1	16,500	17	13,076,734
Michigan.....	2	52,481	42	1,667,860	5	68,781	4	157,298	53	1,946,420
Minnesota.....	20	376,327	88	3,882,674	16	235,860	---	---	124	4,494,861
Mississippi.....	3	64,200	23	1,453,075	3	104,891	5	1,290,286	34	2,912,452
Missouri.....	6	504,103	78	6,549,983	12	338,027	6	129,439	102	7,521,552
Montana.....	7	241,100	38	6,045,278	6	588,845	---	---	51	6,875,223
Nebraska.....	6	508,671	45	4,799,536	42	1,143,277	2	69,811	95	6,521,295
Nevada.....	1	12,811	8	683,003	---	---	3	51,000	12	746,814
New Hampshire.....	1	15,500	3	33,341	---	---	---	---	4	48,841
New Jersey.....	5	136,415	19	602,559	16	247,735	4	66,879	44	1,051,588
New Mexico.....	3	442,400	25	2,369,227	4	345,113	---	---	32	3,156,740
New York.....	4	96,436	43	1,224,437	21	569,100	1	30,465	69	1,920,438
North Carolina.....	3	235,350	25	2,069,917	1	24,200	6	92,046	35	2,421,713
North Dakota.....	2	1,309,768	19	2,339,859	2	22,500	1	10,000	24	3,682,127
Ohio.....	7	306,450	59	2,570,320	5	72,400	5	83,457	76	3,032,627
Oklahoma.....	4	94,168	48	1,253,003	13	213,290	3	71,791	66	1,632,252
Oregon.....	2	24,385	47	5,271,996	8	142,764	1	12,749	58	5,451,894
Pennsylvania.....	4	52,000	48	2,883,923	7	442,185	3	310,436	62	3,688,544
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina.....	3	84,350	12	973,536	4	58,474	3	219,148	22	1,335,508
South Dakota.....	---	---	25	1,243,494	---	---	1	14,850	26	1,258,344
Tennessee.....	4	114,050	66	3,128,900	11	160,000	4	803,500	85	4,206,450
Texas.....	30	1,515,184	212	15,401,842	30	571,813	16	3,137,069	288	20,625,908
Utah.....	3	81,972	18	1,186,280	4	65,250	1	24,046	26	1,357,548
Vermont.....	---	---	11	1,667,640	---	---	---	---	11	1,667,640
Virginia.....	5	95,698	43	1,971,660	6	145,688	4	99,936	58	2,312,982
Washington.....	6	4,118,265	44	3,970,096	22	298,225	---	---	72	8,386,586
West Virginia.....	4	74,200	26	1,593,061	2	16,000	1	50,700	33	1,733,961
Wisconsin.....	4	44,185	56	2,962,122	4	88,638	1	80,000	65	3,174,945
Wyoming.....	4	46,750	56	8,086,396	5	72,980	1	84,626	66	8,290,752
Unknown.....	---	---	---	---	---	---	---	---	---	---
<b>TOTAL.....</b>	<b>315</b>	<b>27,809,604</b>	<b>2,146</b>	<b>159,314,565</b>	<b>418</b>	<b>11,588,448</b>	<b>166</b>	<b>13,078,236</b>	<b>3,045</b>	<b>211,790,873</b>

**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	23	634,769	9	632,216	14	282,588	12	1,858,820	58	3,408,393
Alaska	2	442,080	---	---	1	95,000	2	107,300	5	642,380
Arizona	8	179,865	8	1,483,618	11	3,925,750	10	1,887,271	37	7,476,504
Arkansas	26	694,059	11	921,678	28	1,919,202	8	382,231	73	3,917,170
California	42	3,852,892	17	1,267,795	77	9,282,090	41	1,990,605	177	16,393,382
Colorado	10	1,332,606	4	857,301	9	257,707	8	517,062	31	2,959,674
Connecticut	8	308,461	4	56,593	4	99,880	7	654,500	23	1,119,434
Delaware	---	---	---	---	---	---	4	67,014	4	67,014
Dist. of Columbia	2	50,200	1	60,000	2	24,246	---	---	5	114,446
Florida	25	432,792	10	837,449	12	177,068	13	636,129	60	2,083,438
Georgia	13	567,477	9	987,002	28	2,643,201	16	1,140,098	66	5,337,778
Idaho	7	393,640	5	339,432	11	556,531	5	72,864	28	1,362,487
Illinois	86	2,414,550	26	1,657,727	129	6,904,433	59	5,001,486	300	15,977,196
Indiana	16	465,878	8	899,442	28	853,668	13	853,647	65	3,072,635
Iowa	48	3,940,523	14	1,796,647	25	1,157,782	17	591,586	104	7,488,538
Kansas	29	1,676,102	13	2,211,402	31	692,784	17	1,268,187	90	5,848,475
Kentucky	21	1,267,799	7	822,177	33	1,217,077	15	696,833	78	4,003,886
Louisiana	36	1,514,764	8	1,631,040	29	655,372	16	644,655	89	4,445,831
Maine	2	214,704	6	250,545	5	42,500	3	33,725	14	541,474
Maryland	8	245,621	2	46,741	10	126,988	8	578,647	28	997,997
Massachusetts	3	108,550	---	---	7	282,651	7	12,685,533	17	13,076,734
Michigan	24	1,053,162	3	373,103	20	344,157	6	175,998	53	1,946,420
Minnesota	46	2,378,314	17	619,306	41	1,136,126	20	361,115	124	4,494,861
Mississippi	12	330,790	2	121,253	11	1,036,614	9	1,425,795	34	2,912,452
Missouri	33	3,520,458	13	720,414	59	2,450,207	17	850,473	102	7,521,552
Montana	14	1,709,172	10	1,353,938	15	2,788,800	12	1,023,313	51	6,875,223
Nebraska	20	1,614,789	18	2,765,572	48	1,703,651	9	459,285	95	6,521,295
Nevada	1	206,174	3	325,811	5	163,829	3	51,000	12	746,814
New Hampshire	5	33,341	---	---	1	15,500	---	---	4	48,841
New Jersey	12	403,635	7	196,155	16	314,951	9	138,847	44	1,053,588
New Mexico	14	602,717	9	1,786,210	7	650,700	2	117,113	32	3,156,740
New York	24	594,495	9	495,284	29	612,563	7	218,096	69	1,920,438
North Carolina	9	539,700	7	468,604	8	507,963	11	1,125,466	35	2,421,713
North Dakota	8	610,266	5	1,257,215	9	1,787,493	2	27,153	24	3,682,127
Ohio	28	760,499	12	1,076,242	27	933,092	9	262,794	76	3,032,627
Oklahoma	25	794,617	4	73,870	25	523,288	12	240,477	66	1,632,252
Oregon	18	2,448,807	12	1,687,495	18	733,534	10	582,058	58	5,451,894
Pennsylvania	28	1,525,907	10	1,022,384	12	367,988	12	772,265	62	3,688,544
Rhode Island	---	---	---	---	---	---	---	---	---	---
South Carolina	4	159,600	4	460,136	11	496,624	3	219,148	22	1,335,508
South Dakota	19	1,027,358	2	23,326	3	109,335	2	98,325	26	1,258,344
Tennessee	25	701,230	10	648,927	32	1,003,717	18	1,852,576	85	4,206,450
Texas	98	5,709,677	41	5,356,066	111	3,661,225	58	5,898,940	288	20,625,908
Utah	8	402,690	6	572,652	9	320,410	3	61,796	26	1,357,548
Vermont	6	1,306,623	2	31,119	1	45,000	---	---	11	1,667,640
Virginia	19	720,711	11	471,478	16	361,739	2	284,898	58	2,317,982
Washington	15	1,910,384	11	1,290,118	34	4,633,285	12	759,054	72	8,586,586
West Virginia	9	236,610	9	303,319	10	1,067,082	5	126,940	33	1,733,961
Wisconsin	31	2,129,879	10	557,439	21	349,417	5	138,210	65	3,174,945
Wyoming	18	3,909,360	16	2,831,311	24	1,020,224	8	579,857	66	8,290,752
Unknown	---	---	---	---	---	---	---	---	---	---
<b>TOTAL</b>	<b>988</b>	<b>58,058,297</b>	<b>425</b>	<b>43,625,552</b>	<b>1,095</b>	<b>60,126,052</b>	<b>537</b>	<b>49,980,972</b>	<b>3,045</b>	<b>211,790,873</b>





FREQUENCY COUNT

	0 - 49		50 - 99
	100 - 149		150 - 199
	250 - 299		300 - 349

**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.....	9												
Alaska.....		1	3	7	6	6	9	1	1	2	3	10	58
Arizona.....	1	4	3	3	1	2	3	1	1				5
Arkansas.....	8	2	3	3	3	2	3	6	7	1	2	7	37
California.....	15	14	11	6	4	4	2	1	8	1	2	8	73
Colorado.....	1	5	18	5	14	12	16	19	4	5	9	11	177
Connecticut.....	3		2	1	4	5	3	4	20	20	13	11	31
Delaware.....			1	3	1	4	2	2	1	1	1	1	23
Dist of Columbia.....				1			1	1	1		4	2	3
Florida.....	4	3	4		2	1				2			23
Georgia.....	6	5	4	11	9	4	4	7	4	1	1		4
Idaho.....	4	1	3	4	3	9	6	7	7	2	2	1	5
Illinois.....	34	34	27	4	2	1	1	6	7	4	5	7	60
Indiana.....	8	3	1	14	20	46	26	21	3	3	2	4	66
Iowa.....	10	6	6	10	7	7	9	5	21	20	19	18	308
Kansas.....	8	8	11	7	11	12	17	4	3	5	7	4	65
Kentucky.....	8	6	6	10	9	6	5	11	6	10	4	8	104
Louisiana.....	10	6	8	13	4	5	11	6	3	9	3	10	90
Maine.....				8	7	3	6	5	7	5	4	4	78
Maryland.....	4		1		1	1	1	1	1	11	8	10	89
Massachusetts.....	4	3	1	3	4	4	3	6	1	2	3	4	14
Michigan.....	4	3	4		1		2		1		2		28
Minnesota.....	4	3	4	8	4	7	8	4	3	3		2	17
Mississippi.....	11	8	11	6	4	13	6	15	14	10	9	15	53
Missouri.....	6	2	4	4	6	2	2	1	2	2	1		34
Montana.....	7	6	8	8	4	2	7	1	12	7	1		124
Nebraska.....	3	7	3	6	7	11	12	7	7	2	1		51
Nevada.....	9	8	12	9	3	3	4	5	12	11	6	7	102
New Hampshire.....	2	2	1	1	1	1	6	6	3	3	4	2	51
New Jersey.....				1		1	1	1	1	1	6	11	95
New Mexico.....	3	5	5	4			2		1	1			12
New York.....	4	1	3	5	4	4	2	5	4				4
North Carolina.....	3	5	8	5	3	2	1	2	2	4	3	1	44
North Dakota.....	1	4	3	6	4	6	4	10	6	4	3	2	32
Ohio.....	5	2	3	4	1	3	7	3	6	3	3	7	69
Oklahoma.....	1	6	5	5	1	2	3	2	4	2	1	1	35
Oregon.....	2	6	3	5	6	10	3	7	3	2	2	2	24
Pennsylvania.....	6	6	10	3	3	10	7	11	5	17	4	5	76
Rhode Island.....		4	6	9	3	6	9	2	4	3	7	5	66
South Carolina.....	3				7	4	4	6	4	3	4	5	58
South Dakota.....	1		2	5					4		3	6	62
Tennessee.....	1	1	4		1	1	1	2	5	3			22
Texas.....	6	9	9	11	3	3	1	2	5	3			22
Utah.....	19	29	19	10	7	10	3	7	2	5	3	3	26
Vermont.....	1	3		1	5	28	36	23	25	10	4	3	85
Virginia.....	1				3	3	3	3	26	25	18		288
Washington.....	7	7		1		1	2	4		3		4	26
West Virginia.....	10	12	8	6	3	11	4	4	2	2			11
Wisconsin.....	1	4	1	3	8	8	4	3	2	1	4	5	58
Wyoming.....	5	5	8	4	2	2	5	3	1	4	5	5	72
Unknown.....	9	4	9	3	3	3	6	3	3	3	3	8	33
TOTAL.....	267	251	263	241	246	301	283	245	235	266	200	247	3,045

**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.....	3	18	---	23	91	1	1	241	1	27	550	2
Alaska.....	---	1	---	---	21	1	---	61	---	---	83	1
Arizona.....	2	8	1	17	62	---	---	120	---	19	190	1
Arkansas.....	2	12	---	21	113	---	---	384	5	23	509	5
California.....	10	27	---	96	395	---	3	996	21	109	1,418	21
Colorado.....	1	7	---	9	103	---	---	280	4	10	590	4
Connecticut.....	1	4	---	8	24	6	---	152	3	9	180	9
Delaware.....	---	4	---	2	11	---	---	91	2	2	106	2
Dist of Columbia.....	---	---	---	---	6	---	1	93	---	1	99	---
Florida.....	4	7	---	62	141	---	3	212	2	69	360	2
Georgia.....	5	13	---	28	133	1	1	360	6	34	506	7
Idaho.....	2	4	---	11	65	1	---	155	4	13	224	5
Illinois.....	6	39	---	92	354	3	5	1,430	17	103	1,823	20
Indiana.....	1	15	---	54	183	1	3	437	11	58	635	12
Iowa.....	1	41	---	6	129	1	---	521	18	7	691	19
Kansas.....	1	9	2	18	142	---	---	348	9	19	499	11
Kentucky.....	---	12	---	19	104	---	3	299	2	22	415	2
Louisiana.....	---	12	---	39	274	5	1	270	4	40	556	9
Maine.....	---	---	---	3	22	---	---	46	3	3	68	3
Maryland.....	---	3	---	13	47	1	---	189	1	13	239	2
Massachusetts.....	---	168	---	8	45	1	---	205	6	8	418	7
Michigan.....	1	5	---	25	150	---	4	495	3	30	650	3
Minnesota.....	---	6	---	22	148	1	5	479	12	27	633	13
Mississippi.....	---	26	---	20	126	1	2	97	2	22	249	5
Missouri.....	---	21	---	35	141	3	---	542	31	35	704	34
Montana.....	---	3	---	22	88	16	1	299	15	23	390	31
Nebraska.....	1	13	---	24	105	---	---	771	102	25	889	102
Nevada.....	1	---	---	6	17	---	---	49	---	7	66	---
New Hampshire.....	---	---	---	---	1	---	---	15	1	---	16	1
New Jersey.....	2	8	---	37	120	5	1	740	6	40	868	11
New Mexico.....	---	1	---	4	38	---	---	94	---	4	133	---
New York.....	1	2	---	42	243	8	3	1,996	50	46	2,241	58
North Carolina.....	1	22	---	40	118	---	---	150	1	41	290	1
North Dakota.....	1	4	---	6	39	1	---	113	4	7	156	5
Ohio.....	1	8	---	74	240	3	2	622	8	77	870	11
Oklahoma.....	---	7	---	21	160	3	---	202	9	21	369	12
Oregon.....	---	4	---	21	99	---	---	255	10	23	358	10
Pennsylvania.....	---	10	---	32	186	9	3	918	24	35	1,114	33
Rhode Island.....	---	---	---	5	1	---	---	10	---	3	11	---
South Carolina.....	---	4	---	21	83	---	---	136	4	21	225	4
South Dakota.....	---	2	---	1	20	---	1	47	3	2	69	3
Tennessee.....	5	4	---	11	83	---	1	276	6	17	363	6
Texas.....	7	28	---	115	568	3	---	970	14	122	1,566	17
Utah.....	---	1	---	8	58	1	3	201	5	11	260	6
Vermont.....	---	2	---	---	3	---	---	28	2	---	33	2
Virginia.....	2	5	---	20	111	---	1	376	7	23	492	7
Washington.....	---	9	---	27	174	1	1	551	23	28	734	24
West Virginia.....	---	2	---	7	28	4	1	191	2	8	221	6
Wisconsin.....	---	3	---	10	126	---	---	413	5	10	542	5
Wyoming.....	---	4	---	---	56	---	---	253	9	---	313	9
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
<b>TOTAL.....</b>	<b>62</b>	<b>608</b>	<b>3</b>	<b>1,183</b>	<b>5,795</b>	<b>81</b>	<b>52</b>	<b>18,179</b>	<b>477</b>	<b>1,297</b>	<b>24,582</b>	<b>561</b>

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

State	Trespassers				Nontrespassers				Total			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama.....	1	7	---	8	---	17	1	18	1	24	1	26
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	1	12	2	15	---	3	1	4	1	15	3	19
Arkansas.....	1	7	1	9	---	12	2	14	1	19	3	23
California.....	6	45	36	87	---	6	8	14	6	51	44	101
Colorado.....	---	3	---	3	2	3	2	7	2	6	2	10
Connecticut.....	---	9	---	9	---	---	---	---	---	9	---	9
Delaware.....	1	---	---	1	---	---	1	1	1	---	1	2
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	3	46	7	56	2	8	---	10	5	54	7	66
Georgia.....	1	14	---	15	---	15	---	15	1	29	---	30
Idaho.....	---	3	---	3	---	10	---	10	---	13	---	13
Illinois.....	2	40	9	51	4	32	7	43	6	72	16	94
Indiana.....	1	23	2	26	1	19	7	27	2	42	9	53
Iowa.....	---	4	---	4	---	3	---	3	---	7	---	7
Kansas.....	1	1	2	4	---	11	4	15	1	12	6	19
Kentucky.....	---	10	---	10	1	8	---	9	1	18	---	19
Louisiana.....	---	8	3	11	6	19	3	28	6	27	6	39
Maine.....	---	1	---	1	---	2	---	2	---	3	---	3
Maryland.....	---	8	3	11	---	2	---	2	---	10	3	13
Massachusetts.....	---	5	3	8	---	---	---	---	---	5	3	8
Michigan.....	2	3	4	9	2	12	2	16	4	15	6	25
Minnesota.....	---	7	---	7	1	13	1	15	1	20	1	22
Mississippi.....	---	5	2	7	---	10	3	13	---	15	5	20
Missouri.....	---	13	---	13	2	19	1	22	2	32	1	35
Montana.....	---	8	---	8	---	13	---	13	---	21	---	21
Nebraska.....	---	8	---	8	6	11	---	17	6	19	---	25
Nevada.....	---	4	---	4	---	3	---	3	---	7	---	7
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	1	20	14	35	1	---	---	1	2	20	14	36
New Mexico.....	---	---	1	1	---	1	2	3	---	1	3	4
New York.....	1	38	2	41	2	2	---	2	1	40	2	43
North Carolina.....	1	23	4	28	1	12	---	13	2	35	4	41
North Dakota.....	1	2	---	3	---	3	---	3	1	5	---	6
Ohio.....	---	20	4	24	4	42	4	50	4	62	8	74
Oklahoma.....	---	6	---	6	3	12	---	15	3	18	---	21
Oregon.....	1	13	1	15	---	2	4	6	1	15	5	21
Pennsylvania.....	1	20	5	26	---	5	1	6	1	25	6	32
Rhode Island.....	1	1	1	3	---	---	---	---	1	1	1	3
South Carolina.....	1	10	1	12	---	9	---	9	1	19	1	21
South Dakota.....	---	---	---	---	---	1	---	1	---	1	---	1
Tennessee.....	1	7	---	8	1	3	---	4	2	10	---	12
Texas.....	4	34	9	47	5	56	12	73	9	90	21	120
Utah.....	1	2	1	4	2	2	---	4	3	4	1	8
Vermont.....	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	1	8	1	10	1	9	1	11	2	17	2	21
Washington.....	---	20	---	20	---	7	---	7	---	27	---	27
West Virginia.....	1	2	---	3	---	4	---	4	1	6	---	7
Wisconsin.....	---	3	2	5	---	3	2	5	---	6	4	10
Wyoming.....	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	36	523	120	679	45	424	69	538	81	947	189	1,217

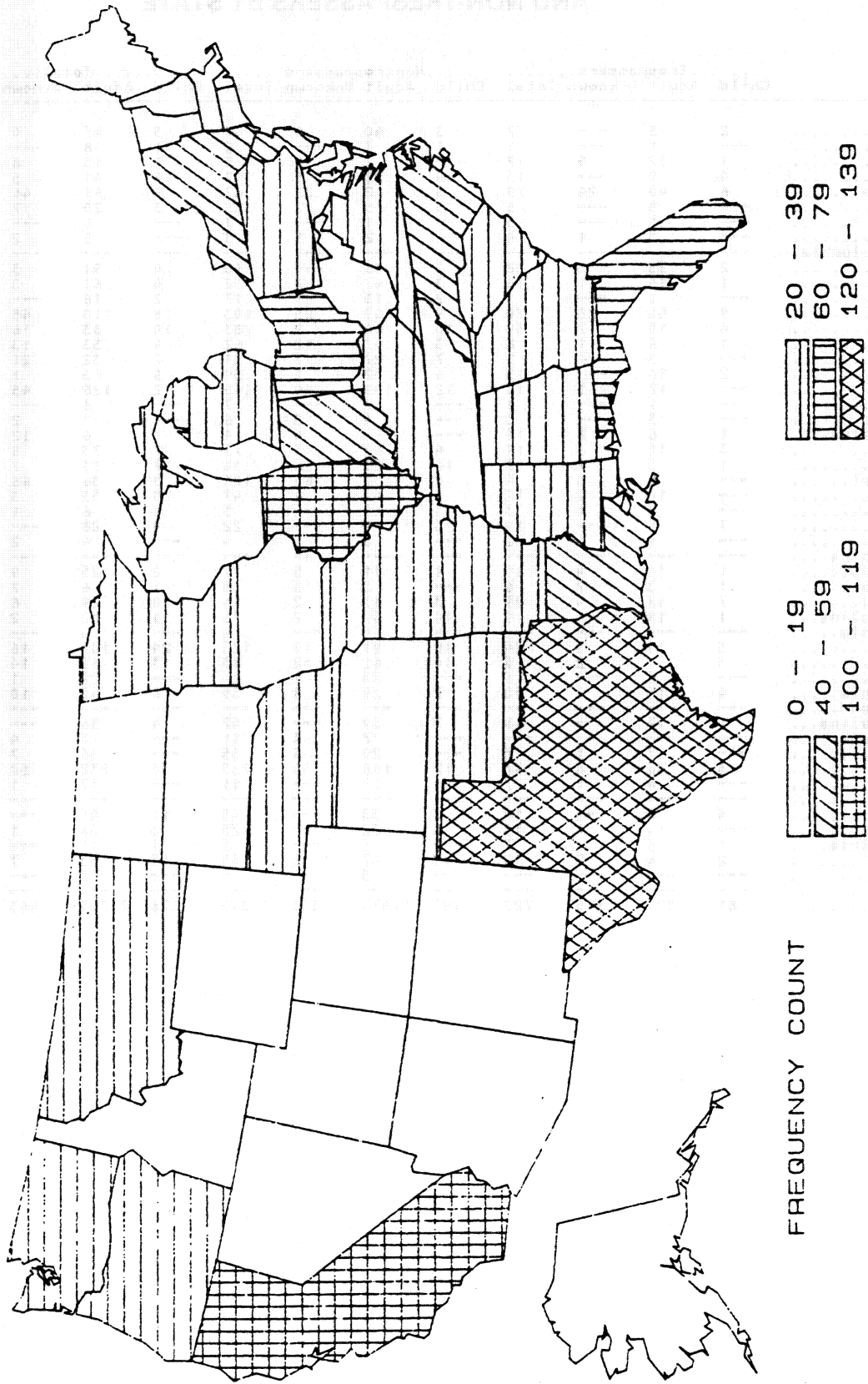
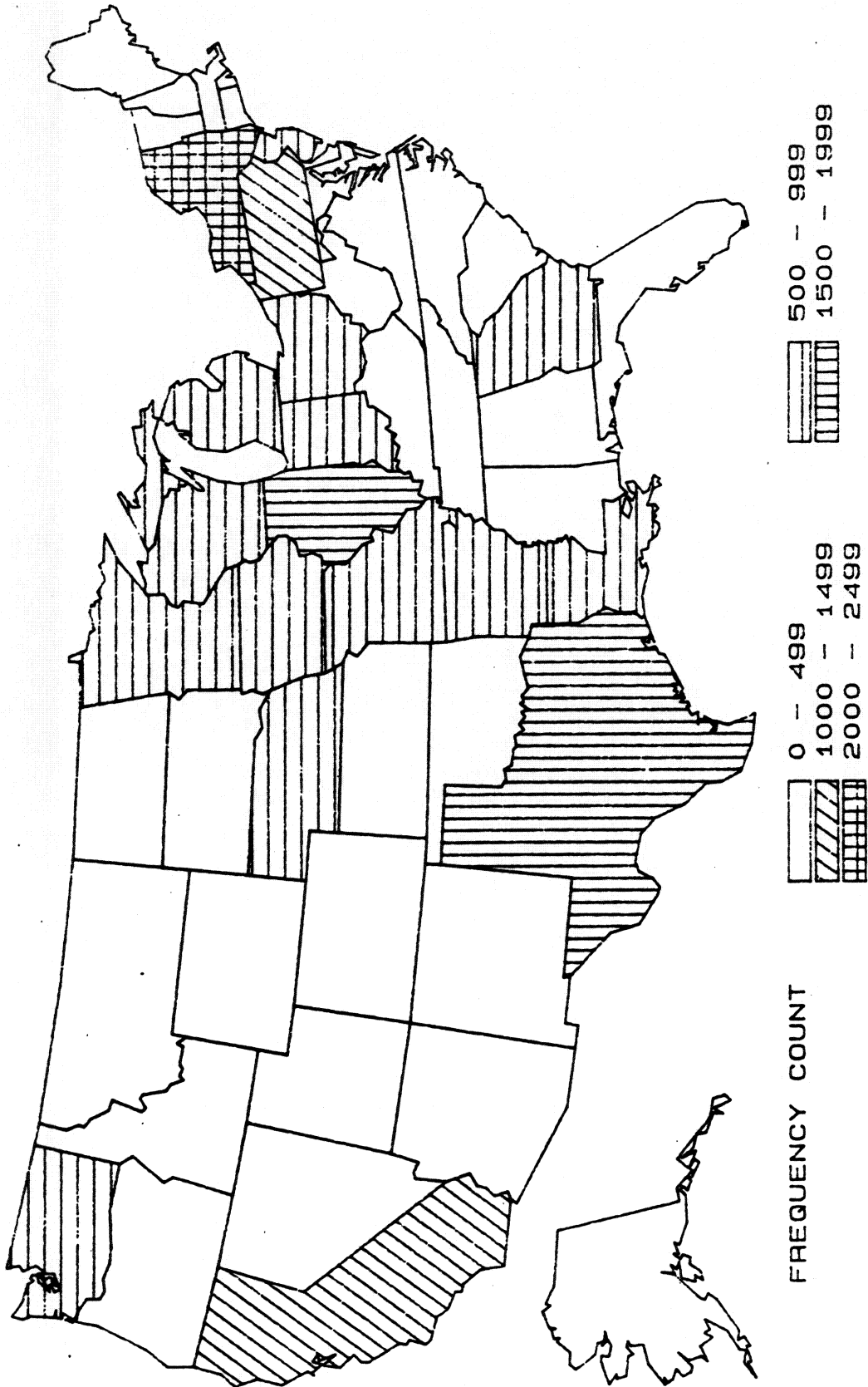


FIGURE 26. FATALITIES BY STATE

**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.....	2	5	---	7	3	40	4	47	5	45	4	54
Alaska.....	---	1	---	1	1	7	---	8	1	8	---	9
Arizona.....	1	12	4	17	---	1	4	5	1	13	8	22
Arkansas.....	4	9	---	13	10	32	5	47	14	41	5	60
California.....	6	49	24	79	3	42	22	67	9	91	46	146
Colorado.....	---	5	---	5	3	15	7	25	3	20	7	30
Connecticut.....	---	5	---	5	---	1	---	1	---	6	---	6
Delaware.....	---	3	1	4	---	2	1	3	---	5	2	7
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	2	53	3	58	2	38	---	40	4	91	3	98
Georgia.....	1	14	1	16	3	47	2	52	4	61	3	68
Idaho.....	---	1	---	1	2	15	---	17	2	16	---	18
Illinois.....	9	41	20	70	9	69	25	103	18	110	45	173
Indiana.....	4	19	7	30	10	64	9	83	14	83	16	113
Iowa.....	1	6	1	8	3	47	12	62	4	53	13	70
Kansas.....	---	5	4	9	7	27	17	51	7	32	21	60
Kentucky.....	2	13	---	15	6	52	1	59	8	65	1	74
Louisiana.....	---	17	1	18	12	109	44	165	12	126	45	183
Maine.....	---	1	---	1	---	7	---	7	---	8	---	8
Maryland.....	---	3	---	3	---	4	2	6	---	7	2	9
Massachusetts.....	1	6	8	15	---	---	4	4	1	6	12	19
Michigan.....	3	11	3	17	4	62	5	71	7	73	8	88
Minnesota.....	1	5	1	7	16	28	6	50	17	33	7	57
Mississippi.....	---	1	3	4	8	35	63	106	8	36	66	110
Missouri.....	---	10	2	12	3	43	1	47	3	53	3	59
Montana.....	---	2	1	3	1	4	---	5	1	6	1	8
Nebraska.....	1	9	---	10	3	19	---	22	4	28	---	32
Nevada.....	---	1	1	2	---	3	1	4	---	4	2	6
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	1	14	4	19	1	11	5	17	2	25	9	36
New Mexico.....	1	3	2	6	---	3	5	8	1	6	7	14
New York.....	7	18	4	29	3	11	2	16	10	29	6	45
North Carolina.....	1	18	---	19	10	64	2	76	11	82	2	95
North Dakota.....	---	---	---	---	---	4	---	4	---	4	---	4
Ohio.....	5	16	3	24	19	91	13	123	24	107	16	147
Oklahoma.....	3	1	2	6	10	61	12	83	13	62	14	89
Oregon.....	---	6	---	6	---	23	1	24	---	29	1	30
Pennsylvania.....	4	14	2	20	2	29	8	39	6	43	10	59
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	1	17	---	18	3	39	---	42	4	56	---	60
South Dakota.....	---	---	---	---	---	7	4	11	---	7	4	11
Tennessee.....	---	7	1	8	---	29	6	35	---	36	7	43
Texas.....	13	66	8	87	17	166	50	233	30	232	58	320
Utah.....	---	6	1	7	---	11	---	11	---	17	1	18
Vermont.....	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	4	8	---	12	7	33	---	40	11	41	---	52
Washington.....	---	14	1	15	3	22	---	25	3	36	1	40
West Virginia.....	1	6	---	7	---	5	---	5	1	11	---	12
Wisconsin.....	2	6	2	10	13	47	5	65	15	53	7	75
Wyoming.....	---	---	---	---	---	5	---	5	---	5	---	5
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
<b>TOTAL.....</b>	<b>81</b>	<b>527</b>	<b>115</b>	<b>723</b>	<b>197</b>	<b>1,474</b>	<b>348</b>	<b>2,019</b>	<b>278</b>	<b>2,001</b>	<b>463</b>	<b>2,742</b>



**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
<b>CLASS I RAILROADS</b>				
Amtrak (National RR Passenger Corp)	31,281,837	5,000,485	2,975,604	39,257,926
Atchison, Topeka And Santa Fe Rwy Co.	42,609,783	---	3,918,972	46,528,755
Springfield Terminal Railway Company	1,026,880	---	129,212	1,156,092
Burlington Northern Incorporated	75,850,161	---	13,907,576	89,757,737
Chicago And North Western	13,530,685	---	3,111,516	16,642,201
Consolidated Rail Corporation	34,898,801	---	10,936,398	45,835,199
CSX Transportation	57,100,045	---	13,321,126	70,421,171
Delaware And Hudson Railway	1,395,000	---	54,900	1,449,900
Denver And Rio Grande Western RR Co.	5,289,172	---	695,725	5,984,897
Florida East Coast Railway Co.	2,624,049	---	715,319	3,339,368
Grand Trunk Western Railroad Co.	4,057,503	---	1,755,270	5,812,773
Illinois Central Railroad Co.	5,524,181	---	1,922,289	7,446,470
Kansas City Southern Railway Co.	8,696,398	---	1,176,357	9,872,755
Louisiana And Arkansas Rwy Company	4,028,842	---	718,869	4,747,711
Norfolk Southern Corporation	40,073,409	---	10,067,688	50,141,097
Seo Line Railroad Company	7,266,500	---	2,401,886	9,668,386
Southern Pacific Transportation Co.	28,429,110	---	6,209,817	34,638,927
St. Louis Southwestern Railway Co.	8,213,940	---	761,271	8,975,211
Union Pacific Railroad Co.	68,988,049	---	8,064,492	77,052,541
Total Class I Railroads.....	440,884,345	5,000,485	82,844,287	528,729,117
<b>CLASS II RAILROADS</b>				
Bangor And Arodstook Railroad Co.	364,771	---	55,208	419,979
Bessemer And Lake Erie Railroad Co.	303,038	---	21,720	324,758
Canadian Pacific Lines In Maine	241,773	---	---	241,773
Central Vermont Railway Inc.	222,762	---	32,943	255,705
Chicago And Illinois Midland Rwy Co.	63,048	---	26,874	89,922
Chicago South Shore And South Bend RR	117,578	---	---	117,578
Duluth, Missabe And Iron Range Rwy Co.	572,846	---	228,571	801,417
Duluth, Winnipeg And Pacific Rwy Co.	412,500	---	144,000	556,500
Green Bay And Western Railroad	186,540	---	103,772	290,312
Ann Arbor Railroad (formerly MIRR)	---	---	33,663	33,663
Monogahela Railway	246,685	---	---	246,685
Northwestern Pacific Railroad	91,112	---	---	91,112
Pittsburg And Lake Erie Railroad Co.	110,443	---	86,084	196,527
Richmond, Frederickburg And Potomac	1,300,171	---	453,735	1,753,906
Texas And Northern Railway Company	15,552	---	12,029	27,581
Texas, Mexican Railway Company	113,509	---	116,004	229,513
Total Class II Railroads.....	4,362,328	---	1,314,603	5,676,931
<b>RECAPITULATION (INCLUDES CLASS III RAILROADS)</b>				
Class I Railroads	440,884,345	5,000,485	82,844,287	528,729,117
Class II Railroads	4,362,328	---	1,314,603	5,676,931
Class III Railroads	32,212,104	28,226,635	13,992,497	74,431,236
Total All Railroads.....	477,458,777	33,227,120	98,151,387	608,837,284

**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	
<b>CLASS I RAILROADS</b>												
Amtrak (National RR Passenger Corp)	9	2	1	3	15	929,131	8	2	14	7	31	15,472,683
Atchison, Topeka And Santa Fe Rwy Co.	30	2	1	---	33	4,997,427	37	10	42	13	102	5,715,081
Springfield Terminal Railway Company	4	---	---	---	4	58,000	1	4	5	5	15	519,724
Burlington Northern Incorporated	15	1	---	1	17	7,241,165	85	54	128	43	310	25,695,317
Chicago And North Western	19	2	---	4	25	893,569	16	10	39	8	73	2,296,536
Consolidated Rail Corporation	17	---	---	1	18	632,581	37	18	49	12	116	3,682,731
CSX Transportation	40	---	---	6	46	1,501,448	77	40	109	37	263	15,332,124
Delaware And Hudson Railway	---	---	---	---	---	---	---	1	5	1	7	194,555
Denver And Rio Grande Western RR Co.	2	---	---	---	2	85,172	---	1	3	2	6	644,026
Florida East Coast Railway Co.	---	---	---	---	---	---	---	2	11	---	13	324,557
Grand Trunk Western Railroad Co.	2	---	---	---	2	86,700	14	3	19	2	38	1,691,531
Illinois Central Railroad Co.	7	---	---	2	9	220,550	10	5	27	3	45	1,852,565
Kansas City Southern Railway Co.	2	---	---	---	2	82,801	8	1	7	---	16	444,271
Louisiana And Arkansas Rwy Company	1	---	1	---	2	37,045	3	---	7	1	11	689,472
Norfolk Southern Corporation	18	---	1	2	21	2,197,703	30	25	29	8	92	2,543,894
Soo Line Railroad Company	15	3	2	9	29	1,188,542	18	11	46	9	84	3,344,516
Southern Pacific Transportation Co.	10	---	---	---	10	3,439,325	36	36	69	25	166	14,776,366
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	11	12	10	1	34	2,627,172
Union Pacific Railroad Co.	46	5	3	7	61	2,843,977	141	86	156	36	419	34,810,329
<b>Total Class I Railroads.....</b>	<b>237</b>	<b>15</b>	<b>9</b>	<b>35</b>	<b>296</b>	<b>26,435,136</b>	<b>532</b>	<b>321</b>	<b>775</b>	<b>213</b>	<b>1,841</b>	<b>132,657,440</b>
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>												
<b>Class I Railroads</b>	<b>214</b>	<b>15</b>	<b>9</b>	<b>31</b>	<b>269</b>	<b>26,435,136</b>	<b>494</b>	<b>304</b>	<b>720</b>	<b>201</b>	<b>1,719</b>	<b>132,657,44</b>
<b>Class II Railroads</b>	<b>2</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>2</b>	<b>64,755</b>	<b>3</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>30</b>	<b>4,050,68</b>
<b>Class III Railroads</b>	<b>35</b>	<b>---</b>	<b>2</b>	<b>7</b>	<b>44</b>	<b>1,309,713</b>	<b>99</b>	<b>53</b>	<b>217</b>	<b>28</b>	<b>397</b>	<b>22,606,43</b>
<b>Total All Railroads.....</b>	<b>251</b>	<b>15</b>	<b>11</b>	<b>38</b>	<b>315</b>	<b>27,809,604</b>	<b>596</b>	<b>367</b>	<b>951</b>	<b>232</b>	<b>2,146</b>	<b>159,314,56</b>

TABLE 37. (CONTINUED)

Railroad	Other Accidents				Total	Damages	Total		Damages
	Human	Equip	Track	Other			Accs.	Rate*	
<b>CLASS I RAILROADS</b>									
Amtrak (National RR Passenger Corp)	4	11	5	47	67	3,804,707	113	2.87	20,206,521
Atchison, Topeka And Santa Fe Rwy Co.	14	1	4	16	35	1,094,419	170	3.65	11,806,927
Springfield Terminal Railway Company	---	---	---	---	---	---	19	16.37	577,724
Burlington Northern Incorporated	70	5	1	40	116	2,406,214	443	4.93	35,342,696
Chicago And North Western	14	1	---	8	23	432,181	121	7.27	3,622,286
Consolidated Rail Corporation	9	---	5	12	26	782,738	160	3.49	5,098,050
CSX Transportation	13	3	---	27	43	2,918,972	352	4.99	19,752,544
Delaware And Hudson Railway	2	---	---	1	3	17,750	10	6.89	212,305
Denver And Rio Grande Western RR Co.	---	---	---	1	1	10,000	9	1.50	739,198
Florida East Coast Railway Co.	---	---	---	3	3	32,740	16	4.79	357,297
Grand Trunk Western Railroad Co.	2	---	---	---	2	17,581	42	7.22	1,795,812
Illinois Central Railroad Co.	12	---	2	6	20	468,822	74	9.93	2,541,937
Kansas City Southern Railway Co.	1	---	---	---	1	66,393	19	1.92	593,465
Louisiana And Arkansas Rwy Company	1	---	---	1	2	32,333	15	3.15	758,850
Norfolk Southern Corporation	12	4	---	29	45	1,814,145	158	3.15	6,555,742
Soo Line Railroad Company	2	---	---	5	7	67,131	120	12.40	4,600,189
Southern Pacific Transportation Co.	19	6	---	28	53	4,512,183	229	6.61	22,727,864
St. Louis Southwestern Railway Co.	4	1	---	4	9	124,391	43	4.78	2,751,563
Union Pacific Railroad Co.	49	5	6	39	99	1,980,908	579	7.51	39,635,214
Total Class I Railroads.....	228	37	23	267	555	20,583,608	2,692	5.09	179,676,184
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>									
Class I Railroads	223	34	22	235	514	20,583,608	2,502	4.73	179,676,184
Class II Railroads	3	---	---	---	3	89,470	35	6.16	4,204,912
Class III Railroads	22	9	4	32	67	3,993,626	508	6.82	27,909,777
Total All Railroads.....	248	43	26	267	584	24,666,704	3,045	5.00	211,790,873

\* Accident rate per million train miles.

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

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

Railroad	Train Accident						Train Incident					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
<b>CLASS I RAILROADS</b>												
Amtrak (National RR Passenger Corp)	1	---	---	6	11	18	---	---	1	24	80	105
Atchison, Topeka And Santa Fe Rwy Co.	4	---	---	2	---	6	---	---	---	29	26	55
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	---	---	2	2
Burlington Northern Incorporated	2	---	---	4	1	7	4	---	---	81	64	149
Chicago And North Western	---	---	---	---	---	---	---	---	---	7	20	27
Consolidated Rail Corporation	---	---	---	---	---	---	3	---	---	36	57	96
CSX Transportation	3	---	---	5	---	8	---	---	---	57	70	127
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	---	2	2
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	2	1	3	---	---	---	1	23	24
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	1	---	---	8	2	11
Illinois Central Railroad Co.	---	---	---	---	---	---	---	---	---	8	2	10
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	1	3	4
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	2	---	2
Norfolk Southern Corporation	3	---	---	4	1	8	1	---	---	80	80	161
Soo Line Railroad Company	---	---	---	1	---	1	---	---	---	7	8	15
Southern Pacific Transportation Co.	---	---	---	2	1	3	---	---	---	50	63	113
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---	---	---	17	9	26
Union Pacific Railroad Co.	---	---	---	3	---	3	---	---	---	72	76	148
Total Class I Railroads.....	13	---	---	29	15	57	9	---	1	480	587	1,077
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>												
Class I Railroads	13	---	---	29	15	57	9	---	1	480	587	1,077
Class II Railroads	---	---	---	---	---	---	1	---	---	2	---	3
Class III Railroads	---	---	---	1	4	5	2	---	2	26	73	103
Total All Railroads.....	13	---	---	30	19	62	12	---	3	508	660	1,183

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

TABLE 38. (CONTINUED)

Railroad	Nontrain Incident						Total					
	Eod	Enod	Pagr	Nont	Tres	Total	Eod	Enod	Pagr	Nont	Tres	Total
<b>CLASS I RAILROADS</b>												
Amtrak (National RR Passenger Corp)	1	---	---	1	2	4	2	---	1	31	93	127
Atchafalaya, Topeka And Santa Fe Rwy Co.	---	---	---	2	1	3	4	---	---	33	27	64
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	---	---	2	2
Burlington Northern Incorporated	5	---	---	3	4	12	11	---	---	88	69	168
Chicago And North Western	1	---	---	---	---	1	1	---	---	7	20	28
Consolidated Rail Corporation	1	---	---	---	3	4	4	---	---	36	60	100
CSX Transportation	---	---	---	4	---	4	3	---	---	66	70	139
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	---	2	2
Denver And Rio Grande Western RR Co.	1	---	---	---	---	1	1	---	---	---	---	1
Florida East Coast Railway Co.	---	---	---	---	1	1	---	---	---	3	25	28
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	1	---	---	8	2	11
Illinois Central Railroad Co.	---	---	---	---	2	2	---	---	---	8	4	12
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	1	3	4
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	2	---	2
Norfolk Southern Corporation	1	---	---	3	3	7	5	---	---	87	84	176
See Line Railroad Company	1	---	---	---	---	1	1	---	---	8	8	17
Southern Pacific Transportation Co.	---	---	---	---	---	---	---	---	---	52	64	116
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---	---	---	17	9	26
Union Pacific Railroad Co.	2	---	---	1	---	3	2	---	---	76	76	154
Total Class I Railroads.....	13	---	---	14	16	43	35	---	1	523	618	1,177
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>												
Class I Railroads	13	---	---	14	16	43	35	---	1	523	618	1,177
Class II Railroads	---	---	---	1	---	1	1	---	---	3	---	4
Class III Railroads	2	---	---	---	5	8	4	---	2	28	82	116
Total All Railroads.....	15	---	---	16	21	52	40	---	3	554	700	1,297

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					Total	
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont		Tres
<b>CLASS I RAILROADS</b>												
Amtrak (National RR Passenger Corp)	67	9	188	13	1	278	187	14	27	21	46	295
Atchison, Topeka And Santa Fe Rwy Co.	9	---	---	4	---	13	259	---	---	108	41	408
Springfield Terminal Railway Company	---	---	---	---	---	---	17	---	---	---	3	20
Burlington Northern Incorporated	56	---	---	4	2	62	539	---	2	160	44	745
Chicago And North Western	11	---	---	2	---	13	51	---	3	31	20	105
Consolidated Rail Corporation	24	---	---	5	---	29	215	1	---	108	70	394
CSX Transportation	36	---	---	4	---	40	203	---	---	267	92	562
Delaware And Hudson Railway	---	---	---	---	---	---	8	---	---	4	4	16
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	20	---	---	7	---	27
Florida East Coast Railway Co.	1	---	---	1	---	2	4	---	---	2	27	33
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	44	---	---	35	4	83
Illinois Central Railroad Co.	2	---	---	5	---	7	45	---	---	115	4	164
Kansas City Southern Railway Co.	1	---	---	---	---	1	34	---	---	20	1	55
Louisiana And Arkansas Rwy Company	1	---	---	---	---	1	18	---	---	22	3	43
Norfolk Southern Corporation	19	---	---	11	1	31	144	---	---	261	80	485
Soo Line Railroad Company	3	---	---	---	---	3	103	---	---	55	13	171
Southern Pacific Transportation Co.	33	---	---	8	---	41	199	2	4	141	68	414
St. Louis Southwestern Railway Co.	3	---	---	---	1	4	30	1	---	37	12	80
Union Pacific Railroad Co.	36	---	---	20	5	61	444	---	---	269	105	818
Total Class I Railroads.....	302	9	188	77	10	586	2,564	18	36	1,663	637	4,918
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>												
Class I Railroads	302	9	188	77	10	586	2,564	18	36	1,663	637	4,918
Class II Railroads	3	---	---	---	---	3	35	---	---	11	7	53
Class III Railroads	14	---	1	6	1	22	532	1	42	262	68	905
Total All Railroads.....	319	9	189	83	11	611	3,131	19	78	1,936	712	5,876

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
<b>CLASS I RAILROADS</b>												
Amtrak (National RR Passenger Corp)	971	57	24	16	1	1,069	1,225	80	239	50	48	1,642
Atchison, Topeka And Santa Fe Rwy Co.	716	13	---	4	5	738	984	13	---	116	46	1,159
Springfield Terminal Railway Company	64	1	---	---	---	65	81	1	---	---	3	85
Burlington Northern Incorporated	3,117	38	3	14	10	3,182	3,712	38	5	178	56	3,989
Chicago And North Western	420	6	23	18	1	468	482	6	26	51	21	586
Consolidated Rail Corporation	1,332	29	---	36	7	1,404	1,571	30	---	149	77	1,827
CSX Transportation	1,444	41	---	11	1	1,497	1,683	41	---	282	93	2,099
Delaware And Hudson Railway	38	---	---	---	---	38	46	---	---	4	4	54
Denver And Rio Grande Western RR Co.	146	---	---	1	---	147	166	---	---	8	---	174
Florida East Coast Railway Co.	11	---	---	2	---	13	16	---	---	5	27	48
Grand Trunk Western Railroad Co.	277	2	---	1	---	280	321	2	---	36	4	363
Illinois Central Railroad Co.	196	3	---	---	---	199	243	3	---	120	4	370
Kansas City Southern Railway Co.	72	---	---	3	---	75	107	---	---	23	1	131
Louisiana And Arkansas Rwy Company	24	---	---	1	---	25	43	---	---	23	3	69
Norfolk Southern Corporation	908	22	1	131	8	1,070	1,071	22	1	403	89	1,586
Seo Line Railroad Company	504	1	---	1	1	507	610	1	---	56	14	681
Southern Pacific Transportation Co.	910	10	7	6	6	939	1,142	12	11	155	74	1,394
St. Louis Southwestern Railway Co.	144	---	---	2	1	147	177	1	---	39	14	231
Union Pacific Railroad Co.	1,994	33	---	29	8	2,064	2,474	33	---	318	118	2,943
Total Class I Railroads.....	13,288	256	58	276	49	13,927	16,154	283	282	2,016	696	19,431
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>												
Class I Railroads	13,288	256	58	276	49	13,927	16,154	283	282	2,016	696	19,431
Class II Railroads	287	---	---	13	---	300	325	---	---	24	7	356
Class III Railroads	3,945	42	148	273	21	4,429	4,491	43	191	541	90	5,356
Total All Railroads.....	17,520	298	206	562	70	18,656	20,970	326	473	2,581	793	25,143

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					Total
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	
<b>CLASS I RAILROADS</b>											
Amtrak (National RR Passenger Corp)	---	---	---	---	---	13	24	15	14	5	71
Atchison, Topeka And Santa Fe Rwy Co.	1	3	---	---	---	12	24	14	4	18	72
Springfield Terminal Railway Company	---	---	---	---	---	2	1	---	---	---	3
Burlington Northern Incorporated	---	6	4	2	---	12	31	77	14	35	203
Chicago And North Western	---	---	---	---	---	7	14	8	7	9	45
Consolidated Rail Corporation	---	2	2	---	---	4	21	33	23	18	104
CSX Transportation	---	3	1	---	---	4	20	38	27	29	127
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	1	1
Denver And Rio Grande Western RR Co.	---	---	---	---	---	1	4	3	---	3	11
Florida East Coast Railway Co.	---	---	---	---	---	---	2	---	---	2	4
Grand Trunk Western Railroad Co.	---	---	---	---	---	3	4	5	1	---	13
Illinois Central Railroad Co.	---	1	1	1	---	4	13	3	3	4	27
Kansas City Southern Railway Co.	---	---	---	---	---	---	3	1	---	1	7
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	1	2
Norfolk Southern Corporation	2	1	---	1	---	4	16	34	15	6	82
Soo Line Railroad Company	---	---	---	---	---	---	7	7	9	5	35
Southern Pacific Transportation Co.	---	3	1	---	---	4	7	18	18	7	65
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	1	1	2	1	7
Union Pacific Railroad Co.	---	2	---	2	---	4	25	48	22	18	154
<b>Total Class I Railroads.....</b>	<b>3</b>	<b>21</b>	<b>9</b>	<b>6</b>	<b>---</b>	<b>39</b>	<b>170</b>	<b>346</b>	<b>211</b>	<b>105</b>	<b>1,033</b>
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>											
Class I Railroads	3	21	9	6	---	39	170	346	211	105	1,033
Class II Railroads	---	1	---	---	---	1	3	11	11	3	32
Class III Railroads	1	8	1	2	---	12	34	85	51	28	235
<b>Total All Railroads.....</b>	<b>4</b>	<b>30</b>	<b>10</b>	<b>8</b>	<b>---</b>	<b>52</b>	<b>207</b>	<b>442</b>	<b>273</b>	<b>136</b>	<b>1,300</b>



TABLE 40. (CONTINUED)

Railroad	Other Injuries								Total	Total
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other		
<b>CLASS I RAILROADS</b>										
Amtrak (National RR Passenger Corp)	260	532	167	10	13	7	34	120	1,143	1,214
Atchison, Topeka And Santa Fe Rwy Co.	177	461	106	2	13	6	62	73	900	976
Springfield Terminal Railway Company	14	38	10	---	---	1	5	9	77	80
Burlington Northern Incorporated	500	1,887	354	4	52	12	243	245	3,297	3,512
Chicago And North Western	71	249	40	1	5	4	25	28	423	468
Consolidated Rail Corporation	247	728	174	6	28	3	83	107	1,376	1,484
CSX Transportation	288	903	142	6	13	10	41	142	1,545	1,676
Delaware And Hudson Railway	6	25	9	---	---	---	2	3	45	46
Denver And Rio Grande Western RR Co.	22	89	23	---	1	---	5	14	154	165
Florida East Coast Railway Co.	2	2	5	---	---	1	---	2	12	16
Grand Trunk Western Railroad Co.	65	159	21	4	3	1	21	34	308	321
Illinois Central Railroad Co.	48	97	23	---	1	2	20	14	205	235
Kansas City Southern Railway Co.	22	47	11	---	3	1	11	3	98	105
Louisiana And Arkansas Rwy Company	12	19	3	---	---	1	3	3	41	43
Norfolk Southern Corporation	171	480	154	1	12	8	50	82	958	1,044
Seo Line Railroad Company	97	325	62	6	7	1	23	43	564	599
Southern Pacific Transportation Co.	219	520	142	7	15	9	45	92	1,049	1,118
St. Louis Southwestern Railway Co.	35	98	21	---	2	3	4	6	169	176
Union Pacific Railroad Co.	341	1,323	193	3	30	12	122	213	2,237	2,395
Total Class I Railroads.....	2,597	7,982	1,660	50	198	82	799	1,233	14,601	15,673
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>										
Class I Railroads	2,597	7,982	1,660	50	198	82	799	1,233	14,601	15,673
Class II Railroads	41	149	39	4	10	---	26	19	288	321
Class III Railroads	870	1,871	567	43	68	21	389	346	4,175	4,422
Total All Railroads.....	3,508	10,002	2,266	97	276	103	1,214	1,598	19,064	20,416

**TABLE 41. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD**

Railroad	..Collisions..		...Derailments...		.....Other.....		.....Total.....		Rate*	Train Miles
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured		
<b>CLASS I RAILROADS</b>										
Amtrak (National RR Passenger Corp)	---	34	---	203	18	41	18	278	7.53	39,257,926
Atchison, Topeka And Santa Fe Rwy Co.	4	7	---	---	2	6	6	13	0.40	46,528,755
Springfield Terminal Railway Company	---	---	---	---	---	---	---	---	0.00	1,156,092
Burlington Northern Incorporated	1	24	2	21	4	17	7	62	0.76	89,757,737
Chicago And North Western	---	9	---	---	---	4	---	13	0.78	16,642,201
Consolidated Rail Corporation	---	8	---	3	---	18	---	29	0.63	45,835,199
CSX Transportation	---	18	---	4	8	18	8	40	0.68	70,421,171
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	0.00	1,449,900
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	0.00	5,984,897
Florida East Coast Railway Co.	---	---	---	---	3	2	3	2	1.49	3,339,368
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	0.00	5,812,773
Illinois Central Railroad Co.	---	6	---	---	---	1	---	7	0.94	7,446,470
Kansas City Southern Railway Co.	---	---	---	1	---	---	---	1	0.10	9,872,755
Louisiana And Arkansas Rwy Company	---	---	---	---	---	1	---	1	0.21	4,747,711
Norfolk Southern Corporation	3	4	---	4	5	23	8	31	0.77	50,141,097
Soo Line Railroad Company	---	2	---	1	1	---	1	3	0.41	9,668,386
Southern Pacific Transportation Co.	---	9	---	5	3	27	3	41	1.27	34,638,927
St. Louis Southwestern Railway Co.	---	---	---	---	---	4	---	4	0.44	8,975,211
Union Pacific Railroad Co.	---	16	---	18	3	27	3	61	0.83	77,052,541
<b>Total Class I Railroads.....</b>	<b>8</b>	<b>137</b>	<b>2</b>	<b>260</b>	<b>47</b>	<b>189</b>	<b>57</b>	<b>586</b>	<b>1.21</b>	<b>528,729,117</b>
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>										
Class I Railroads	8	137	2	260	47	189	57	586	1.21	528,729,117
Class II Railroads	---	---	---	3	---	---	---	3	0.52	5,676,931
Class III Railroads	---	2	---	9	5	11	5	22	0.36	74,431,236
<b>Total All Railroads.....</b>	<b>8</b>	<b>139</b>	<b>2</b>	<b>272</b>	<b>52</b>	<b>200</b>	<b>62</b>	<b>611</b>	<b>1.10</b>	<b>608,837,284</b>

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
<b>CLASS I RAILROADS</b>									
Amtrak (National RR Passenger Corp)	---	97	2	---	236	---	---	383	1
Atchison, Topeka And Santa Fe Ry Co.	---	25	---	---	283	5	---	246	1
Springfield Terminal Railway Company	---	6	---	---	24	---	---	13	1
Burlington Northern Incorporated	1	83	9	3	1,072	37	1	849	95
Chicago And North Western	---	19	2	1	156	5	---	120	6
Consolidated Rail Corporation	1	127	1	1	365	23	---	340	22
CSX Transportation	---	69	1	---	446	2	---	384	3
Delaware And Hudson Railway	---	---	---	---	24	---	---	13	---
Denver And Rio Grande Western RR Co.	1	3	---	---	65	---	---	28	1
Florida East Coast Railway Co.	---	4	---	---	6	---	---	1	---
Grand Trunk Western Railroad Co.	---	14	---	---	62	---	---	89	---
Illinois Central Railroad Co.	---	5	---	---	71	2	---	39	1
Kansas City Southern Railway Co.	---	4	---	---	32	1	---	22	---
Louisiana And Arkansas Ry Company	---	---	---	---	15	---	---	2	---
Norfolk Southern Corporation	---	34	3	1	306	2	---	297	8
Seo line Railroad Company	---	10	1	1	302	7	---	69	---
Southern Pacific Transportation Co.	---	112	2	---	307	9	---	249	3
St. Louis Southwestern Railway Co.	---	17	---	---	49	1	---	37	---
Union Pacific Railroad Co.	1	117	30	---	647	17	1	622	15
Total Class I Railroads.....	4	746	51	7	4,468	111	2	3,803	157
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>									
Class I Railroads	4	746	51	7	4,468	111	2	3,803	157
Class II Railroads	---	9	---	---	112	3	1	103	---
Class III Railroads	---	270	7	2	1,453	20	1	1,200	11
Total All Railroads.....	4	1,025	58	9	6,033	134	4	5,106	168

TABLE 42. (CONTINUED)

Railroad	V. Transportation Not train, engine			VI Transportation Train and Engine		
	Killed	Injured	Illness	Killed	Injured	Illness
<b>CLASS I RAILROADS</b>						
Amtrak (National RR Passenger Corp)	---	272	6	2	226	2
Atchison, Topeka And Santa Fe Rwy Co.	---	8	---	4	414	2
Springfield Terminal Railway Company	---	4	---	---	33	---
Burlington Northern Incorporated	---	46	3	6	1,462	56
Chicago And North Western	---	8	1	---	165	---
Consolidated Rail Corporation	---	30	1	2	622	40
CSX Transportation	---	30	---	3	747	1
Delaware And Hudson Railway	---	---	---	---	9	---
Denver And Rio Grande Western RR Co.	---	---	---	---	69	---
Florida East Coast Railway Co.	---	---	---	---	5	---
Grand Trunk Western Railroad Co.	---	3	---	1	153	---
Illinois Central Railroad Co.	---	3	---	---	117	5
Kansas City Southern Railway Co.	---	---	---	---	47	1
Louisiana And Arkansas Rwy Company	---	---	---	---	26	---
Norfolk Southern Corporation	---	24	1	4	383	13
Soo Line Railroad Company	---	12	1	---	206	2
Southern Pacific Transportation Co.	---	17	---	---	433	10
St. Louis Southwestern Railway Co.	---	2	---	---	71	---
Union Pacific Railroad Co.	---	26	4	---	983	13
Total Class I Railroads.....	---	485	17	22	6,171	145
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>						
Class I Railroads	---	485	17	22	6,171	145
Class II Railroads	---	6	---	---	91	1
Class III Railroads	---	107	4	1	1,392	27
Total All Railroads.....	---	598	21	23	7,654	173

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)	2	0.01	1,214	5.13	11	0.05	1,227	5.19	47,302,413
Atchison, Topeka And Santa Fe Rwy Co.	4	0.03	976	6.68	8	0.05	988	6.76	29,222,198
Springfield Terminal Railway Company	---	0.00	80	5.81	1	0.07	81	5.88	2,756,401
Burlington Northern Incorporated	11	0.04	3,512	11.19	200	0.64	3,723	11.87	62,752,166
Chicago And North Western	1	0.01	468	6.26	14	0.19	483	6.46	14,942,085
Consolidated Rail Corporation	4	0.02	1,484	5.84	87	0.34	1,575	6.19	50,848,104
CSX Transportation	3	0.01	1,676	4.96	7	0.02	1,686	4.99	67,595,498
Delaware And Hudson Railway	---	0.00	46	5.43	---	0.00	46	5.43	1,694,280
Denver And Rio Grande Western RR Co.	1	0.05	165	7.47	1	0.05	167	7.56	4,416,775
Florida East Coast Railway Co.	---	0.00	16	1.46	---	0.00	16	1.46	2,186,101
Grand Trunk Western Railroad Co.	1	0.03	321	9.54	---	0.00	322	9.57	6,729,154
Illinois Central Railroad Co.	---	0.00	235	6.66	8	0.23	243	6.89	7,054,613
Kansas City Southern Railway Co.	---	0.00	105	10.33	2	0.20	107	10.53	2,031,993
Louisiana And Arkansas Rwy Company	---	0.00	43	4.69	---	0.00	43	4.69	1,832,775
Norfolk Southern Corporation	5	0.02	1,044	3.84	27	0.10	1,076	3.97	54,143,936
Soo Line Railroad Company	1	0.02	599	12.95	11	0.24	611	13.21	9,247,378
Southern Pacific Transportation Co.	---	0.00	1,118	6.77	24	0.15	1,142	6.92	33,016,707
St. Louis Southwestern Railway Co.	---	0.00	176	7.63	1	0.04	177	7.67	4,612,593
Union Pacific Railroad Co.	2	0.01	2,395	7.83	79	0.26	2,476	8.09	61,188,506
Total Class I Railroads.....	35	0.02	15,673	6.76	481	0.21	16,189	6.98	463,573,676
Class I Railroads	35	0.02	15,673	6.76	481	0.21	16,189	6.98	463,573,676
Class II Railroads	1	0.03	321	8.28	4	0.10	326	8.41	7,755,684
Class III Railroads	4	0.01	4,422	10.75	69	0.17	4,495	10.93	82,273,717
Total All Railroads.....	40	0.01	20,416	7.38	554	0.20	21,010	7.59	553,603,077

"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 Days Away From Work Or Days Of Restriction			Or Days Of Restriction	Days Of Restriction	Other Cases
		Total Cases	Lost Day Cases	Restricted Cases			
<b>CLASS I RAILROADS</b>							
Amtrak (National RR Passenger Corp)	1,214	929	907	22	40,092	903	285
Atchison, Topeka And Santa Fe Rwy Co.	976	704	575	129	20,860	5,368	272
Springfield Terminal Railway Company	80	62	41	21	859	208	18
Burlington Northern Incorporated	3,512	2,933	2,441	492	110,514	12,750	579
Chicago And North Western	468	357	353	4	29,028	179	111
Consolidated Rail Corporation	1,484	1,186	1,123	63	79,587	1,127	298
CSX Transportation	1,676	1,427	1,418	9	53,440	572	249
Delaware And Hudson Railway	46	34	27	7	146	52	12
Denver And Rio Grande Western RR Co.	165	126	101	25	2,572	724	39
Florida East Coast Railway Co.	16	9	6	3	217	58	7
Grand Trunk Western Railroad Co.	321	242	196	46	4,596	975	79
Illinois Central Railroad Co.	235	157	152	5	4,255	65	78
Kansas City Southern Railway Co.	105	66	66	---	2,379	---	39
Louisiana And Arkansas Rwy Company	43	32	32	---	959	---	11
Norfolk Southern Corporation	1,044	726	638	88	52,343	2,078	318
Soo Line Railroad Company	599	432	325	107	12,848	2,999	167
Southern Pacific Transportation Co.	1,118	752	632	120	14,131	1,459	366
St. Louis Southwestern Railway Co.	176	126	120	6	3,125	130	50
Union Pacific Railroad Co.	2,395	1,891	1,527	364	67,665	7,957	504
Total Class I Railroads.....	15,673	12,191	10,680	1,511	499,616	37,604	3,482
<b>CLASS II RAILROADS</b>							
Bangor And Aroostook Railroad Co.	16	13	13	---	409	---	3
Bessemer And Lake Erie Railroad Co.	18	9	7	2	379	18	9
Canadian Pacific Lines In Maine	5	1	1	---	365	---	4
Central Vermont Railway Inc.	19	13	13	---	221	---	6
Chicago And Illinois Midland Rwy Co.	7	19	17	2	1,397	45	7
Chicago South Shore And South Bend RR	10	5	5	---	43	---	2
Duluth, Missabe And Iron Range Rwy Co.	38	23	8	15	202	295	15
Duluth, Winnipeg And Pacific Rwy Co.	10	5	3	2	48	15	5
Green Bay And Western Railroad	15	8	8	---	84	---	7
Ann Arbor Railroad (formerly MIRR)	3	3	3	---	76	---	---
Monogahela Railway	28	15	14	1	680	11	13
Northwestern Pacific Railroad	3	2	2	---	88	---	1
Pittsburg And Lake Erie Railroad Co.	33	15	14	1	410	5	18
Richmond, Fredericksburg And Potomac	53	41	41	---	1,389	---	12
Texas And Northern Railway Company	3	1	---	---	---	10	2
Texas, Mexican Railway Company	44	40	33	7	583	67	4
Total Class II Railroads.....	321	213	182	31	6,374	466	108
<b>RECAPITULATION (INCLUDES CLASS III RAILROADS)</b>							
Class I Railroads	15,673	12,191	10,680	1,511	499,616	37,604	3,482
Class II Railroads	321	213	182	31	6,374	466	108
Class III Railroads	4,422	3,353	3,016	337	68,689	8,060	1,069
Total All Railroads.....	20,416	15,757	13,878	1,879	574,679	46,130	4,659

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

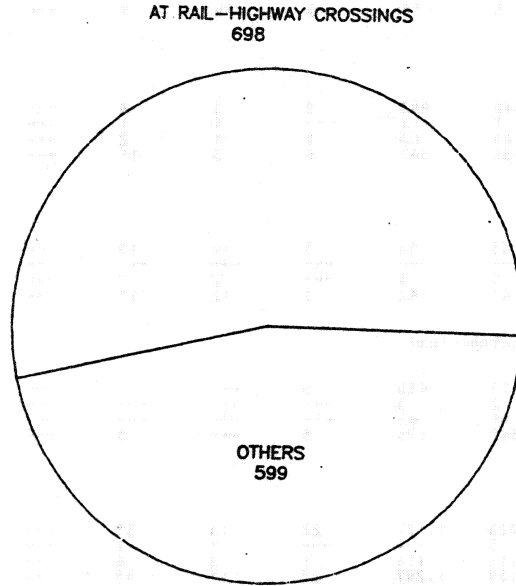
Railroad	Total Cases	Fatalities	Total Injuries	Injuries Reported For Days Away From Work	Restricted Activity	Following Medication	Reasons. Medical Treatment	Occupational Illness
<b>CLASS I RAILROADS</b>								
Amtrak (National RR Passenger Corp)	1,227	2	1,214	907	22	90	195	11
Atchison, Topeka And Santa Fe Rwy Co.	988	4	976	575	129	85	187	8
Springfield Terminal Railway Company	81	---	80	41	21	3	15	1
Burlington Northern Incorporated	3,723	11	3,512	2,441	492	62	517	200
Chicago And North Western	483	1	468	353	4	49	62	14
Consolidated Rail Corporation	1,575	4	1,484	1,123	63	81	217	87
CSX Transportation	1,686	3	1,676	1,418	9	92	157	7
Delaware And Hudson Railway	46	---	46	27	7	4	8	---
Denver And Rio Grande Western RR Co.	167	1	165	101	25	---	39	1
Florida East Coast Railway Co.	16	---	16	6	3	1	6	---
Grand Trunk Western Railroad Co.	322	1	321	196	46	---	79	---
Illinois Central Railroad Co.	243	---	235	152	5	28	50	8
Kansas City Southern Railway Co.	107	---	105	66	---	---	39	2
Louisiana And Arkansas Rwy Company	43	---	43	32	---	---	11	---
Norfolk Southern Corporation	1,076	5	1,044	638	88	11	307	27
Seo Line Railroad Company	611	1	599	325	107	55	112	11
Southern Pacific Transportation Co.	1,142	---	1,118	632	120	---	366	24
St. Louis Southwestern Railway Co.	177	---	176	120	6	---	50	1
Union Pacific Railroad Co.	2,476	2	2,395	1,527	364	190	314	79
Total Class I Railroads.....	16,189	35	15,673	10,680	1,511	751	2,731	481
<b>RECAPITULATION</b>								
Class I Railroads	16,189	35	15,673	10,680	1,511	751	2,731	481
Class II Railroads	326	1	321	182	31	50	58	4
Class III Railroads	4,495	4	4,422	3,016	337	250	819	69
Total All Railroads.....	21,010	40	20,416	13,878	1,879	1,051	3,608	554



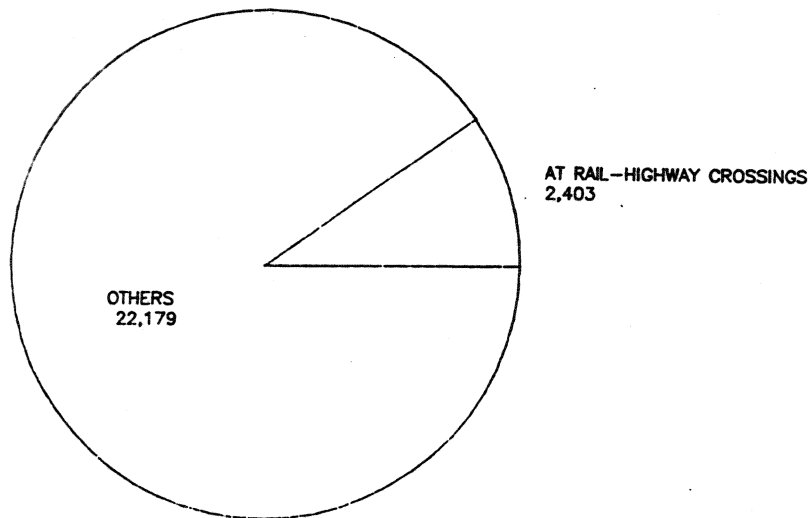


**CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS**

**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			
<b>TRAIN ACCIDENTS</b>									
Class I Railroads.....	112	5	10	9	---	9	---	---	1
Class II Railroads.....	3	---	---	---	---	---	---	---	---
Class III Railroads.....	11	---	---	---	---	---	---	---	---
Total All Railroads.....	126	5	10	9	---	9	---	---	1
<b>TRAIN INCIDENTS</b>									
Class I Railroads.....	3,316	466	483	5	3	8	---	12	462
Class II Railroads.....	42	1	1	---	1	1	---	---	---
Class III Railroads.....	785	64	63	1	1	2	---	---	59
Total All Railroads.....	4,063	531	547	6	5	11	---	12	521
<b>NONTRAIN INCIDENTS</b>									
Class I Railroads.....	13,733	33	34	3	10	13	---	5	16
Class II Railroads.....	298	---	---	---	---	---	---	---	---
Class III Railroads.....	4,488	8	8	---	2	2	---	1	5
Total All Railroads.....	18,519	41	42	3	12	15	---	6	21
<b>RAIL-HIGHWAY CROSSING (Excluded from above categories)</b>									
Class I Railroads.....	1,928	519	650	5	---	5	---	506	139
Class II Railroads.....	11	2	3	---	---	---	---	3	---
Class III Railroads.....	252	41	45	---	---	---	---	27	18
Total All Railroads.....	2,191	562	698	5	---	5	---	536	157
<b>GRAND TOTAL</b>									
Class I Railroads.....	19,089	1,023	1,177	22	13	35	---	523	618
Class II Railroads.....	354	3	4	---	1	1	---	3	---
Class III Railroads.....	5,456	113	116	1	3	4	---	28	82
Total All Railroads.....	24,899	1,139	1,297	23	17	40	---	554	700

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 M. Cas	Injury A/I	Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers	
				Trainmen	Other	Total				
<b>TRAIN ACCIDENTS</b>										
Class I Railroads.....	112	106	434	168	53	221	9	182	18	4
Class II Railroads.....	3	3	3	3	---	3	---	---	---	---
Class III Railroads.....	11	10	11	9	2	11	---	---	---	---
Total All Railroads.....	126	119	448	180	55	235	9	182	18	4
<b>TRAIN INCIDENTS</b>										
Class I Railroads.....	3,316	2,799	2,940	1,976	446	2,422	16	33	34	435
Class II Railroads.....	42	41	42	29	6	35	---	---	1	6
Class III Railroads.....	705	631	614	428	82	510	1	41	15	47
Total All Railroads.....	4,063	3,471	3,596	2,433	534	2,967	17	74	50	488
<b>NONTRAIN INCIDENTS</b>										
Class I Railroads.....	13,733	13,305	13,474	3,898	8,979	12,877	251	58	241	47
Class II Railroads.....	298	294	296	59	224	283	---	---	13	---
Class III Railroads.....	4,488	4,424	4,365	948	2,941	3,889	42	148	265	21
Total All Railroads.....	18,519	18,023	18,135	4,905	12,144	17,049	293	206	519	68
<b>RAIL-HIGHWAY CROSSING (Excluded from above categories)</b>										
Class I Railroads.....	1,928	1,408	2,095	129	24	153	2	9	1,721	210
Class II Railroads.....	11	9	11	---	---	---	---	---	10	1
Class III Railroads.....	252	211	297	7	5	12	---	2	261	22
Total All Railroads.....	2,191	1,628	2,403	136	29	165	2	11	1,992	233
<b>GRAND TOTAL</b>										
Class I Railroads.....	19,089	17,618	18,943	6,171	9,502	15,673	278	282	2,014	696
Class II Railroads.....	354	347	352	91	230	321	---	---	24	7
Class III Railroads.....	5,456	5,276	5,287	1,392	3,030	4,422	43	191	541	90
Total All Railroads.....	24,899	23,241	24,582	7,654	12,762	20,416	321	473	2,579	793

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



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

Type Of Accident/Incident	Total A/I W. Cas	Illness A/I	Total Illness	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
				Trainmen	Other	Total			
<b>TRAIN ACCIDENTS</b>									
Class I Railroads.....	112	1	2	2	---	2	---	---	---
Class II Railroads.....	3	---	---	---	---	---	---	---	---
Class III Railroads.....	11	1	1	1	---	1	---	---	---
Total All Railroads.....	126	2	3	3	---	3	---	---	---
<b>TRAIN INCIDENTS</b>									
Class I Railroads.....	3,316	51	65	60	5	65	---	---	---
Class II Railroads.....	42	---	---	---	---	---	---	---	---
Class III Railroads.....	705	10	12	11	1	12	---	---	---
Total All Railroads.....	4,063	61	77	71	6	77	---	---	---
<b>NONTRAIN INCIDENTS</b>									
Class I Railroads.....	13,733	395	418	80	331	411	5	---	2
Class II Railroads.....	298	4	4	1	3	4	---	---	---
Class III Railroads.....	4,488	56	55	14	41	55	---	---	---
Total All Railroads.....	18,519	455	477	95	375	470	5	---	2
<b>RAIL-HIGHWAY CROSSING (Excluded from above categories)</b>									
Class I Railroads.....	1,928	1	3	3	---	3	---	---	---
Class II Railroads.....	11	---	---	---	---	---	---	---	---
Class III Railroads.....	252	---	1	1	---	1	---	---	---
Total All Railroads.....	2,191	1	4	4	---	4	---	---	---
<b>GRAND TOTAL</b>									
Class I Railroads.....	19,089	448	488	145	336	481	5	---	2
Class II Railroads.....	354	4	4	1	3	4	---	---	---
Class III Railroads.....	5,456	67	69	27	42	69	---	---	---
Total All Railroads.....	24,899	519	561	173	381	554	5	---	2

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
<b>TRAIN ACCIDENTS</b>												
Collisions	---	---	---	---	---	---	1	---	2	---	10	13
Derailements	---	---	---	---	---	---	6	---	4	2	19	31
Rail-highway x-ing	---	---	---	---	---	---	2	1	1	---	5	9
Miscellaneous	---	---	---	---	---	---	1	---	---	---	2	3
Total	---	---	---	---	---	---	10	1	7	2	36	56
<b>TRAIN INCIDENTS</b>												
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf Operating or on locomotives	---	1	2	---	---	3	3	7	1	1	2	14
Operating rail motorcars	---	---	---	---	---	---	3	1	---	---	3	7
Operating hand brakes	---	---	---	---	---	---	4	7	1	2	4	18
Operating switches or derails	---	1	2	1	---	4	1	1	1	---	1	4
Contacting fixed objects while on loco	---	---	---	---	---	---	1	2	---	5	4	11
Getting on or off cars or locomotives	1	---	---	---	---	1	2	---	5	---	4	11
Collisions, derailements, etc. (<= \$5.7	2	1	14	4	---	21	10	2	20	4	9	45
Rail-highway crossing accidents/incide	---	1	4	---	1	6	1	1	2	---	1	5
Struck by/ran into loco/car(not at rr	---	---	6	1	---	7	29	2	57	---	130	218
Servicing or maintenance of equipment	14	8	69	9	4	104	31	---	29	---	33	93
Maintenance of way and structures	---	1	---	---	---	1	1	1	2	---	1	5
Freight, baggage, express or mail	---	2	---	---	---	2	1	1	6	1	1	10
Windows, doors, etc., on on-track equi	---	1	---	---	---	1	2	5	1	2	1	11
Passenger car doors	---	---	---	---	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught,	---	---	1	---	---	1	7	2	11	---	3	23
Flying or falling objects, burns, etc.	---	---	---	---	---	---	1	---	---	1	1	3
Operation of on-track work equipment	---	---	---	---	---	---	1	1	3	---	2	7
Assault	---	---	---	---	---	---	---	---	1	---	1	2
Other occurrences	---	1	4	---	---	5	1	7	5	1	10	24
Total	17	17	104	15	5	158	99	41	147	12	207	506
<b>NONTRAIN INCIDENTS</b>												
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf	1	---	---	---	---	1	5	11	3	6	1	26
Operating or on locomotives	---	---	1	---	---	1	2	6	1	1	5	15
Operating rail motorcars	---	---	---	---	---	---	5	11	7	1	4	28
Operating hand brakes	---	---	---	1	---	1	6	9	1	1	1	18
Operating switches or derails	---	---	---	---	---	---	8	14	3	13	3	41
Contacting fixed objects while on loco	---	---	---	---	---	---	---	---	1	---	---	1
Getting on or off cars or locomotives	---	---	---	1	---	1	8	6	20	4	13	51
Collisions, derailements, etc. (<= \$5.7	---	---	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	---	---	---	---	---	---	2	1	1	---	---	4
Struck by/ran into loco/car(not at rr	---	---	1	---	---	1	---	---	---	---	1	1
Servicing or maintenance of equipment	---	9	---	---	---	9	38	120	34	33	34	259
Maintenance of way and structures	---	14	---	---	---	14	53	167	87	53	78	438
Freight, baggage, express or mail	---	---	---	---	---	---	1	---	2	---	---	3
Windows, doors, etc., on on-track equi	1	---	---	---	---	1	---	21	4	---	1	26
Passenger car doors	---	---	---	---	---	---	2	1	1	1	---	5
Stumbling, slipping, falling, caught,	---	---	---	---	---	---	61	20	95	9	44	229
Flying or falling objects, burns, etc.	---	---	---	---	---	---	1	4	1	4	2	12
Operation of on-track work equipment	---	---	---	---	---	---	1	3	1	---	1	6
Assault	---	---	---	---	---	---	5	5	3	1	11	25
Other occurrences	2	4	1	1	---	8	13	24	30	5	33	105
Total	4	27	3	3	---	37	211	423	295	132	232	1,293
Grand Total	21	44	107	18	5	195	320	465	449	146	475	1,855

TABLE 49. (CONTINUED)

Type of Accident/Incident	Other Injuries							Total Injured		
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye			
<b>TRAIN ACCIDENTS</b>										
Collisions	45	55	11	---	---	3	---	12	126	139
Derailements	36	104	11	---	---	---	---	88	239	270
Rail-highway x-ing	48	41	19	1	1	---	2	39	151	160
Miscellaneous	22	10	2	---	---	---	---	2	36	39
Total.....	151	210	43	1	1	3	2	141	552	608
<b>TRAIN INCIDENTS</b>										
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf	49	115	7	---	---	1	6	4	182	199
Operating or on locomotives.....	10	16	6	---	---	---	1	3	36	45
Operating rail motorcars.....	138	339	46	3	4	2	175	85	792	810
Operating hand brakes.....	3	8	---	---	---	---	---	1	12	14
Operating switches or derails.....	18	42	6	---	---	---	1	2	70	78
Contacting fixed objects while on loco	9	8	4	---	---	---	1	3	26	30
Getting on or off cars or locomotives.	35	21	9	---	---	---	1	2	68	80
Collisions, derailsments, etc. (<= \$5,7	122	386	58	---	1	7	---	26	600	666
Rail-highway crossing accidents/incide	20	58	3	---	---	---	1	9	92	103
Struck by/ran into loco/car/net at rr-	483	218	513	---	6	10	1	743	1,974	2,199
Servicing or maintenance of equipment.	46	14	89	---	1	2	---	97	249	446
Maintenance of way and structures.....	17	23	11	---	---	---	1	5	57	63
Freight, baggage, express or mail.....	28	35	12	---	---	---	1	3	80	92
Windows, doors, etc., on on-track equi	1	8	---	---	1	---	---	---	10	10
Passenger car doors.....	22	28	15	---	---	2	---	2	73	85
Stumbling, slipping, falling, caught,	1	1	2	---	---	---	---	---	4	4
Flying or falling objects, burns, etc.	48	96	26	---	1	1	1	6	179	203
Operation of on-track work equipment..	20	7	10	3	21	---	102	37	200	203
Assault.....	21	39	4	---	---	---	---	14	67	74
Other occurrences.....	15	9	21	---	---	1	7	37	67	69
Total.....	78	128	44	6	36	31	307	1,082	5,131	5,795
<b>NONTRAIN INCIDENTS</b>										
Coupling and uncoupling locomotives or	60	304	36	---	---	2	8	27	437	464
Coupling/uncoupling air/steam hose, saf	59	97	48	---	---	2	19	13	238	254
Operating or on locomotives.....	112	264	48	2	5	1	70	65	567	595
Operating rail motorcars.....	4	9	5	---	---	---	---	5	23	23
Operating hand brakes.....	46	272	17	---	---	4	1	6	346	365
Operating switches or derails.....	82	853	23	---	3	5	8	33	1,007	1,048
Contacting fixed objects while on loco	8	4	2	1	1	---	---	---	16	17
Getting on or off cars or locomotives.	228	586	53	3	---	9	6	44	929	981
Collisions, derailsments, etc. (<= \$5,7	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	7	5	13	---	---	---	---	15	40	44
Struck by/ran into loco/car/net at rr-	5	4	---	---	---	---	---	2	11	13
Servicing or maintenance of equipment.	625	1,802	564	42	118	17	410	290	3,868	4,136
Maintenance of way and structures.....	848	2,425	876	32	85	24	252	388	4,930	5,382
Freight, baggage, express or mail.....	8	43	7	---	---	1	1	5	65	68
Windows, doors, etc., on on-track equi	62	116	57	---	---	---	2	22	259	286
Passenger car doors.....	3	1	3	---	---	---	---	---	7	12
Stumbling, slipping, falling, caught,	385	1,089	161	1	3	13	1	86	1,739	1,968
Flying or falling objects, burns, etc.	32	10	28	19	31	---	142	67	329	361
Operation of on-track work equipment..	19	43	11	1	---	---	---	4	78	84
Assault.....	73	56	36	---	---	1	4	14	184	209
Other occurrences.....	276	831	230	1	11	10	21	396	1,776	1,889
Total.....	2,942	8,814	2,218	102	257	89	945	1,482	16,849	18,179
Grand Total.....	4,277	10,623	3,147	109	294	123	1,254	2,705	22,532	24,582

**TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON**

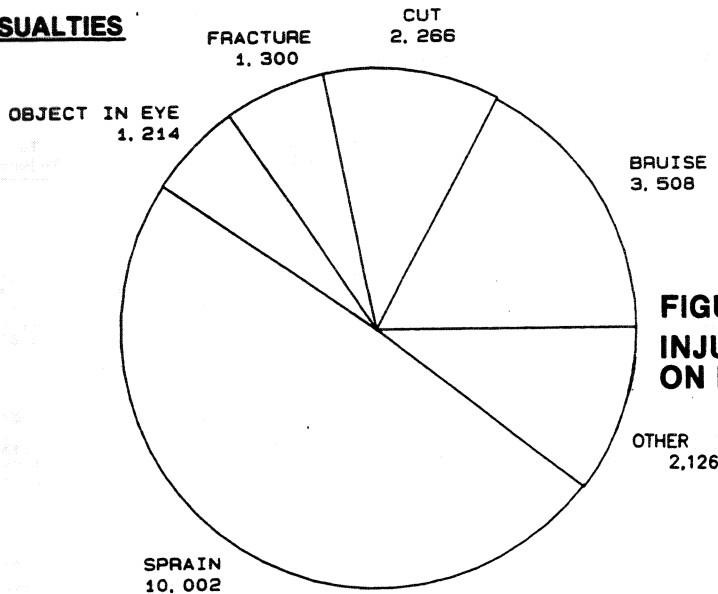
Type Person	Amputations					Fractures						
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
<b>EMPLOYEES ON DUTY</b>												
<b>YARD SERVICE:</b>												
Engineers and Motormen	---	---	---	---	---	---	---	5	5	---	3	13
Firemen and Helpers	---	---	---	---	---	---	---	---	---	---	---	---
Conductors and Foremen	---	1	2	---	---	3	5	8	13	9	8	43
Brakemen and Helpers	1	2	3	2	---	8	12	21	23	8	14	78
Total.....	1	3	5	2	---	11	17	34	41	17	25	134
<b>FREIGHT SERVICE:</b>												
Engineers and Motormen	---	---	---	1	---	1	4	3	10	2	7	26
Firemen and Helpers	---	---	---	---	---	---	1	1	---	---	---	2
Conductors and Foremen	---	---	2	1	---	3	15	15	12	3	21	66
Brakemen and Helpers	1	---	2	1	---	4	23	36	18	7	20	104
Total.....	1	---	4	3	---	8	43	55	40	12	48	198
<b>PASSENGER SERVICE:</b>												
Engineers and Motormen	---	---	---	---	---	---	2	1	1	---	2	6
Firemen and Helpers	---	1	---	---	---	1	---	1	---	---	---	1
Conductors and Foremen	---	---	---	---	---	---	5	8	1	4	---	18
Baggagemen	---	---	---	---	---	---	---	---	---	---	---	---
Brakemen and Helpers	---	---	---	---	---	---	---	3	1	---	---	4
Total.....	---	1	---	---	---	1	7	13	3	4	2	29
HOSTLERS	---	---	---	---	---	---	---	3	3	1	---	7
<b>--SUMMARY--</b>												
Total employees on duty	4	30	10	8	---	52	207	442	273	136	242	1,300
Employees not on duty	---	---	---	---	---	---	6	4	14	1	9	34
Passengers	---	---	---	---	---	---	11	4	19	5	26	65
Nontrespassers	2	3	3	---	1	9	58	15	92	1	139	305
Trespassers	15	11	94	10	4	134	38	---	51	3	59	151
Grand total	21	44	107	18	5	195	320	465	449	146	475	1,855



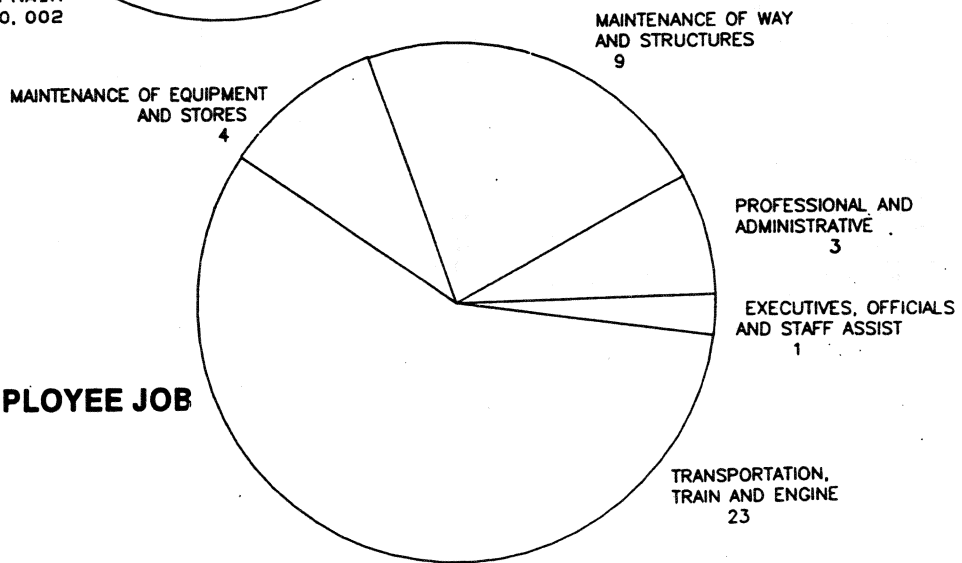
TABLE 50. (CONTINUED)

Type Person	Bruise	Sprain/ Strain	Cut	Other Injuries			Object In Eye	Other	Total	Total Injured
				Elec. Burn	Other Burns	Disloc- Cation				
<b>EMPLOYEES ON DUTY</b>										
<b>YARD SERVICE:</b>										
Engineers and Motormen	75	213	26	---	2	1	34	28	379	392
Firemen and Helpers	1	10	1	---	---	---	2	---	14	14
Conductors and Foremen	136	362	41	---	5	4	41	42	631	677
Brakemen and Helpers	286	986	113	1	9	9	93	93	1,510	1,596
Total.....	498	1,491	181	1	16	14	170	163	2,534	2,679
<b>FREIGHT SERVICE:</b>										
Engineers and Motormen	125	425	54	3	6	9	73	85	780	807
Firemen and Helpers	3	16	1	---	---	---	2	1	23	25
Conductors and Foremen	226	629	83	---	7	7	78	87	1,117	1,186
Brakemen and Helpers	322	1,109	128	1	8	12	112	141	1,833	1,941
Total.....	676	2,179	266	4	21	28	265	314	3,753	3,959
<b>PASSENGER SERVICE:</b>										
Engineers and Motormen	44	88	22	2	1	---	26	24	207	213
Firemen and Helpers	6	10	1	1	---	---	1	3	22	24
Conductors and Foremen	126	280	38	4	---	2	44	42	536	554
Baggagemen	---	3	---	---	---	1	---	---	4	4
Brakemen and Helpers	17	26	6	---	---	---	13	7	69	73
Total.....	193	407	67	7	1	3	84	76	838	868
<b>HOSTLERS</b>										
	19	49	3	---	---	---	5	12	88	95
										95
<b>--SUMMARY--</b>										
Total employees on duty	3,508	10,002	2,266	97	276	103	1,214	1,598	19,064	20,416
Employees not on duty	62	147	30	---	2	---	16	30	287	321
Passengers	76	121	82	2	1	3	1	122	408	473
Nontrespassers	540	329	610	3	10	14	23	736	2,265	2,579
Trespassers	91	24	159	7	5	3	---	219	508	793
Grand total	4,277	10,623	3,147	109	294	123	1,254	2,705	22,532	24,582

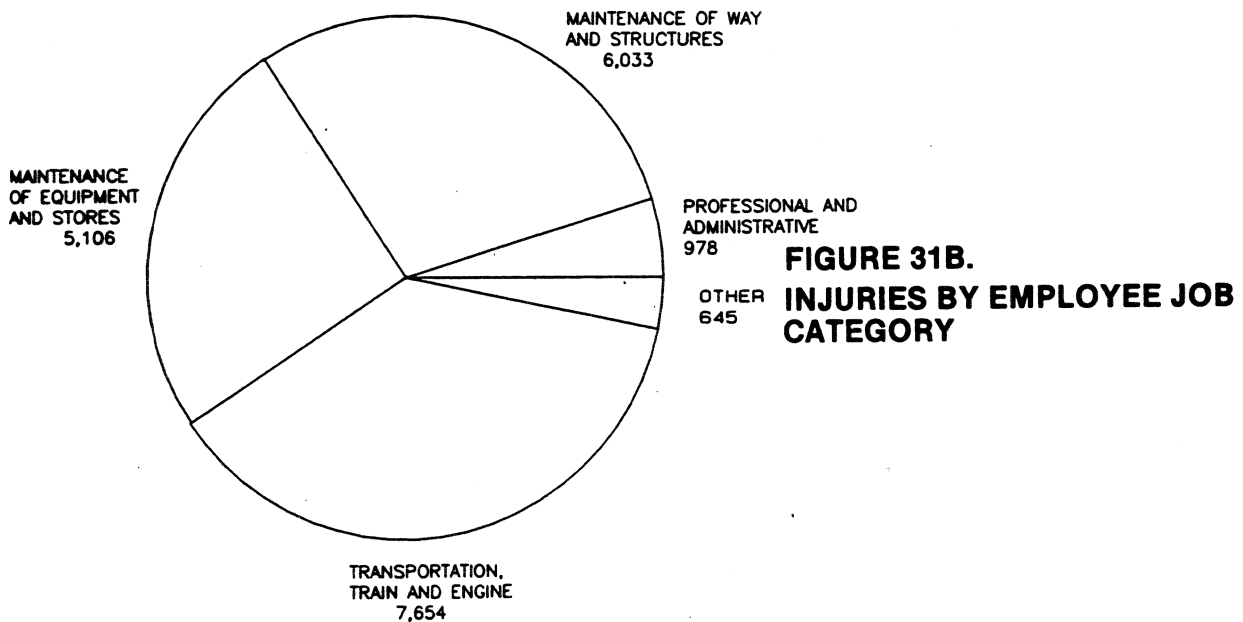
**EMPLOYEE CASUALTIES**



**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 From Work Lost Day Cases	Or Days Of Restricted Days Away From Work	Restriction Days Of Restriction	Other Cases
<b>I N J U R I E S</b>						
Bruise - Contusion--						
Arm or hand.	632	456	374	82	10,869	1,299
Fingers.....	346	198	149	49	2,248	523
Leg or foot.	1,134	925	824	101	24,254	1,825
Toes.....	93	77	61	16	1,069	180
Torso.....	898	754	671	83	29,576	1,763
Other parts.	405	324	306	18	11,125	1,079
Sprain - Strain--						
Arm or hand.	824	679	546	133	22,987	3,217
Fingers.....	127	90	71	19	1,697	451
Leg or foot.	2,331	2,109	1,911	198	78,129	6,200
Toes.....	20	15	11	4	266	45
Torso.....	5,857	5,155	4,647	508	239,182	14,915
Other parts.	843	727	674	53	31,946	1,603
Cut or Laceration--						
Arm or hand.	422	202	158	44	4,512	423
Fingers.....	736	365	272	93	5,111	1,582
Leg or foot.	314	190	171	19	4,146	333
Toes.....	13	9	9	---	153	22
Head or Face	699	298	267	31	6,885	462
Torso.....	36	20	19	1	1,373	16
Other parts.	46	20	17	3	989	41
Electrical burn or shock.....	97	69	60	9	1,416	81
Other burns.....	276	151	114	37	1,988	564
Dislocation.....	103	88	78	10	5,352	519
Fracture--						
Arm or hand.	207	194	172	22	10,362	1,257
Fingers.....	442	343	255	108	8,113	2,672
Leg or foot.	273	262	248	14	17,544	1,075
Toes.....	136	115	98	17	3,165	519
Head or Face	49	35	34	1	1,931	7
Torso.....	172	157	150	7	10,643	720
Other parts.	21	20	18	2	869	141
Amputation--						
Arm or hand.	4	2	2	---	478	---
Fingers.....	30	25	23	2	1,360	189
Leg or foot.	10	10	10	---	2,781	---
Toes.....	8	6	6	---	1,443	116
Other parts.	---	---	---	---	---	---
Dust or other object in eye.....	1,214	573	483	90	2,689	260
Hernia.....	138	130	120	10	5,317	440
Concussion.....	48	43	41	2	2,288	79
Nervous shock.....	22	20	18	2	520	3
Internal injuries.....	37	35	34	1	1,144	7
Loss of eye.....	2	2	1	1	22	1
Puncture type wound.....	318	148	121	27	1,487	316
Dental related injuries.....	74	18	16	2	437	3
Skin reaction (one-time exposure)	103	56	48	8	393	22
Not otherwise classified.....	856	642	590	52	16,620	980
Total nonfatal injuries.....	20,416	15,757	13,878	1,879	574,679	46,130
<b>I L L N E S S E S</b>						
Skin diseases or disorders.....	60	26	25	1	365	1
Dust diseases of the lungs.....	4	4	4	---	373	---
Respiratory conditions.....	105	64	64	---	1,175	42
Poisoning.....	9	4	4	---	21	5
Disorders due to physical agents	55	31	29	2	503	31
Disorders due to repeated trauma	241	152	123	29	4,771	1,513
All other occupational illnesses	80	59	50	9	1,314	66
Total nonfatal illnesses.....	554	340	299	41	8,520	1,658
<b>-----F A T A L I T I E S-----</b>						
Fatal injuries.....	40	---	---	---	---	---
Fatal illnesses.....	---	---	---	---	---	---
Total fatalities.....	40	---	---	---	---	---

**TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY**

	Killed	Injured	Illness	Total
<b>EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS</b>				
Executives and general officers.....	---	9	---	9
Corporate staff managers.....	---	5	---	5
Regional and division officers, assistants and staff assistants....	---	11	1	12
Transportation officers/managers.....	1	22	---	23
Subtotal.....	1	47	1	49
<b>PROFESSIONAL AND ADMINISTRATIVE</b>				
Professional and administrative (miscellaneous).....	---	1	---	1
Professional.....	---	27	1	28
Subprofessionals.....	---	6	---	6
Auditors, traveling auditors or accountants.....	---	9	---	9
General and administrative supervisors.....	---	32	2	34
Sales and traffic representatives and agents.....	---	14	---	14
Freight and other claim agents and investigators.....	1	10	1	12
Supervising and chief claim agents.....	---	3	1	4
Lieutenants and sergeants of police.....	---	31	1	32
Police officers, watchmen and guards (except crossing & bridge)....	---	209	4	213
Inspectors, (except MOW & MOE), other investigators, examiners, etc	---	4	---	4
Buyers, and sales agents.....	---	13	---	13
Clerical technicians and clerical specialists.....	---	40	4	44
Office machine and data equipment operators.....	---	18	---	18
Secretaries, stenographers, and typists.....	---	36	2	38
General and other clerks (except yard clerk and crew dispatcher)...	---	325	38	363
Telephone and switchboard operators.....	---	4	---	4
Building and office attendants.....	---	68	2	70
Messengers and office persons.....	---	7	---	7
Motor vehicle operators.....	2	121	1	124
Subtotal.....	3	978	57	1,038
<b>MAINTENANCE OF WAY AND STRUCTURES</b>				
Supervisors, maintenance of way, structures, communication & signals	1	88	---	89
Maintenance of way, structures, comm. & signals, & scale inspectors	---	84	5	89
Bridge and building gang foreman.....	---	159	4	163
Bridge and building carpenters.....	1	264	4	269
Bridge and building ironworkers.....	---	88	---	88
Bridge and building painters.....	---	28	1	29
Masons, bricklayers, plasterers, and plumbers.....	---	229	7	236
Bridge and building helpers and apprentices.....	---	99	3	102
Bridge and building gang and bridge and building dept laborers....	---	81	---	81
Track gang foremen (extra gang work train laborers).....	1	155	8	164
Gang or section foreman.....	---	391	9	400
Extra gang laborers.....	---	503	10	513
Section laborers.....	---	2,067	45	2,112
Machine operators.....	4	911	15	930
Gang foremen, communications and signals.....	---	47	---	47
Signalmen and signal maintainers.....	1	562	19	582
Linemen and groundmen and communications craftsmen.....	1	183	2	186
Assistant signalmen and assistant signal maintainers.....	---	54	1	55
Signal helpers and signal maintainer helpers.....	---	30	1	31
Camp car cooks.....	---	10	---	10
Subtotal.....	9	6,033	134	6,176

TABLE 52. (CONTINUED)

	Killed	Injured	Illness	Total
<b>MAINTENANCE OF EQUIPMENT AND STORES</b>				
Supervisors and general foremen, maintenance of equipment.....	1	72	1	74
Supervisors and general foremen, materials and stores.....	---	3	---	3
Equipment, shop, electrical inspectors.....	---	31	---	31
Materials and supplies inspectors.....	---	140	3	143
Storekeeper.....	---	24	3	27
Gang foremen, maintenance of equipment.....	---	76	3	79
Blacksmiths.....	---	21	1	22
Boilermakers.....	---	72	1	73
Carmen (freight).....	1	1,376	42	1,419
Carmen (other).....	---	461	2	463
Electrical workers (A).....	---	560	18	578
Electrical workers (B).....	---	30	---	30
Electrical workers (C).....	---	15	---	15
Machinists.....	1	1,005	57	1,063
Sheet metal workers.....	1	210	11	222
Skilled trades, helpers, maintenance of equipment and stores.....	---	187	4	191
Apprentices, maintenance of equipment and stores.....	---	33	3	36
Coach cleaners.....	---	201	3	204
Laborers: shops, enginehouses and power plants.....	---	457	12	469
Gang foremen, materials and stores.....	---	20	---	20
Equipment operators and general laborers, materials and stores.....	---	102	4	106
Stationary engineers.....	---	5	---	5
Stationary firemen.....	---	5	---	5
Subtotal.....	4	5,106	168	5,278
<b>TRANSPORTATION, OTHER THAN TRAIN AND ENGINE</b>				
Transportation supervisor and chief train dispatcher.....	---	14	---	14
Train dispatchers.....	---	10	2	12
Station, freight and passenger agents.....	---	19	---	19
Chief operators and wire chiefs.....	---	1	---	1
Clerk operators, towerman, train directors.....	---	67	6	73
Station masters & assts, supervising bag. agents, bag. agents, etc.	---	8	---	8
Baggage, parcel room and station attendants.....	---	44	4	48
General & asst gnrl foremen, stations, warehouses, grain elev., docks.	---	6	---	6
Gang foremen, stations, warehouses, grain elevators and docks.....	---	3	---	3
Grain elevator, and dock laborers.....	---	34	1	35
Station, and warehouse laborers.....	---	33	---	33
Truckers (station, warehouse and platforms).....	---	20	---	20
Food and lodging manager, supervisors.....	---	23	---	23
Transportation and dining-service inspectors.....	---	1	---	1
Waiters and kitchen helpers (restaurant and dining car).....	---	27	---	27
Chefs and cooks (restaurant and dining car).....	---	35	---	35
Marine officers and workers and shore workers.....	---	3	---	3
Train attendants.....	---	148	1	149
Bridge operators and helpers.....	---	7	---	7
Yards clerks.....	---	47	3	50
Crew dispatchers.....	---	12	4	16
Yardmasters and assistant yardmasters.....	---	36	---	36
Subtotal.....	---	598	21	619
<b>TRANSPORTATION, TRAIN AND ENGINE</b>				
Transportation, train and engine (miscellaneous).....	---	2	---	2
Switchtenders.....	---	23	---	23
Car retarder operators and ground service employees.....	---	4	---	4
Outside hostlers.....	2	77	1	80
Outside hostler helpers.....	---	18	---	18
Inside hostler.....	---	24	---	24
Road passenger conductors.....	---	394	5	399
Assistant road passenger conductors and ticket collectors.....	1	160	2	163
Road freight conductors (through freight).....	4	645	17	666
Road freight conductors (local and way freight).....	2	541	15	558
Road passenger baggage person.....	---	4	---	4
Road Passenger brakemen and flagmen.....	---	73	---	73
Road freight brakemen and flagmen (through freight).....	3	1,111	27	1,141
Road freight brakemen and flagmen (local and way freight).....	2	830	17	849
Yard conductors and yard foremen.....	---	677	9	686
Yard brakemen and yard helpers.....	4	1,596	25	1,625
Road passenger engineers and motormen.....	1	213	10	224
Road freight engineers (through freight).....	2	531	26	559
Road freight engineers (local and way freight).....	1	276	12	289
Yard engineers.....	1	392	5	398
Road passenger firemen and helpers.....	---	24	---	24
Road freight firemen and helpers (through freight).....	---	16	---	16
Road freight firemen and helpers (local and way freight).....	---	9	2	11
Yard firemen and helpers.....	---	14	---	14
Subtotal.....	23	7,654	173	7,850
Total.....	40	20,416	554	21,010

**TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY**

Type accident/incident	IR	II	III	IV	V	VI	Total
<b>TRAIN ACCIDENTS</b>							
Collisions	---	---	---	---	---	8	8
Derailements	---	---	---	---	---	1	1
Rail-highway x-ing	---	---	---	---	---	4	4
Miscellaneous	---	---	---	---	---	---	---
Total	---	---	---	---	---	13	13
<b>TRAIN INCIDENTS</b>							
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	---	---	---	---	---	1	1
Getting on or off cars or locomotives	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	1	1
Struck by/ran into loco/car(not at rr-hwy x-ing)	1	1	2	---	---	1	5
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	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	---	1	1
Flying or falling objects, burns, etc., N.O.C.	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	---
Other occurrences	1	1	2	1	---	1	12
Total	1	1	2	1	---	7	12
<b>NONTRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	---	---	2	---	---	2
Maintenance of way and structures	---	1	4	---	---	---	5
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	---	1	1
Flying or falling objects, burns, etc., N.O.C.	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	---
Other occurrences	---	1	3	1	---	2	7
Total	---	2	7	3	---	3	15
Grand total	1	3	9	4	---	23	40

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

**TABLE 54. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY**

Type accident/incident	I*	II	III	IV	V	VI	Total
<b>TRAIN ACCIDENTS</b>							
Collisions	---	1	9	5	11	87	113
Derailements	---	---	2	1	16	69	88
Rail-highway x-ing	---	---	1	---	12	68	81
Miscellaneous	---	---	9	---	1	24	34
Total	---	1	21	6	40	248	316
<b>TRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	---	---	1	5	---	193	199
Coupling/uncoupling air/steam hose, safety chains	---	---	---	1	1	43	45
Operating or on locomotives	1	---	---	41	6	762	810
Operating rail motorcars	---	1	4	1	---	8	14
Operating hand brakes	---	---	1	4	1	72	78
Operating switches or derails	---	---	---	---	---	30	30
Contacting fixed objects while on locos or cars	---	---	1	3	3	73	80
Getting on or off cars or locomotives	2	1	4	27	8	548	590
Collisions, derailments, etc. (<= \$5,701)	---	---	5	9	2	74	90
Rail-highway crossing accidents/incidents	---	---	10	5	1	67	83
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	4	10	3	1	17	35
Servicing or maintenance of equipment	1	3	3	53	3	1	61
Maintenance of way and structures	---	3	84	3	---	1	91
Freight, baggage, express or mail	---	1	---	---	3	5	9
Windows, doors, etc., on on-track equipment	---	---	9	6	5	60	80
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	1	4	4	11	18	128	166
Flying or falling objects, burns, etc., N.O.C.	---	1	6	5	16	157	185
Operation of on-track work equipment	1	---	63	2	1	6	73
Assault	---	4	---	---	4	58	66
Other occurrences	---	4	5	14	45	197	265
Total	5	24	210	193	118	2,500	3,050
<b>NONTRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	1	---	2	37	2	421	463
Coupling/uncoupling air/steam hose, safety chains	---	---	5	39	1	209	254
Operating or on locomotives	2	4	4	66	5	513	594
Operating rail motorcars	---	---	19	2	1	1	23
Operating hand brakes	---	---	2	20	3	340	365
Operating switches or derails	2	2	32	57	12	943	1,048
Contacting fixed objects while on locos or cars	---	---	---	6	1	10	17
Getting on or off cars or locomotives	1	20	11	94	20	724	870
Collisions, derailments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	1	1
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	1	1	---	5	7
Servicing or maintenance of equipment	4	57	274	3,599	43	106	4,083
Maintenance of way and structures	9	101	4,793	352	20	29	5,304
Freight, baggage, express or mail	---	6	---	1	33	23	63
Windows, doors, etc., on on-track equipment	1	8	26	79	12	135	261
Passenger car doors	---	---	---	---	1	---	2
Stumbling, slipping, falling, caught, N.O.C.	6	158	199	289	102	789	1,543
Flying or falling objects, burns, etc., N.O.C.	1	23	21	38	22	181	286
Operation of on-track work equipment	---	5	69	4	---	3	81
Assault	---	100	7	10	13	54	184
Other occurrences	15	469	337	213	149	418	1,601
Total	42	953	5,802	4,907	440	4,906	17,050
Grand total	47	978	6,033	5,106	598	7,654	20,416

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

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

Type of Occurrence	Total Cases	Cases With Total Cases	Days Away From Work Lost Day Cases	Restricted Cases	Or Days Of Days Away From Work	Restriction Days Of Restriction	Other Cases
<b>TRAIN ACCIDENTS</b>							
Collisions	113	98	95	3	3,662	67	15
Deraillments	88	77	76	1	4,673	19	11
Rail-highway x-ing	81	69	69	---	3,601	28	12
Miscellaneous	34	28	27	1	1,569	5	6
Total	316	272	267	5	13,505	119	44
<b>TRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars.....	199	177	163	14	7,872	384	22
Coupling/uncoupling air/steam hose, safety chains.	45	33	31	2	1,516	163	12
Operating or on locomotives.....	810	663	635	28	26,383	986	147
Operating rail motorcars.....	14	13	12	1	212	48	1
Operating hand brakes.....	78	67	62	5	4,043	237	11
Operating switches or derails.....	39	28	26	2	665	113	2
Contacting fixed objects while on locos or cars..	80	73	69	4	2,838	78	7
Getting on or off cars or locomotives.....	590	533	483	50	25,653	1,388	57
Collisions, deraillments, etc. (<= \$5,701).....	90	83	78	5	5,829	235	7
Rail-highway crossing accidents/incidents.....	83	69	66	3	2,463	105	14
Struck by/ran into loco/car(not at rr-hwy x-ing).	35	28	28	---	3,496	201	7
Servicing or maintenance of equipment.....	61	51	47	4	1,720	181	10
Maintenance of way and structures.....	91	70	66	4	2,645	146	21
Freight, baggage, express or mail.....	9	8	8	---	746	---	1
Windows, doors, etc., on on-track equipment.....	80	64	58	6	1,732	197	16
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	166	151	145	6	7,033	417	15
Flying or falling objects, burns, etc., N.O.C.....	185	124	112	12	1,353	68	61
Operation of on-track work equipment.....	73	63	57	6	3,420	321	10
Assault.....	66	50	47	3	2,130	70	16
Other occurrences.....	265	225	208	17	7,601	459	40
Total	3,050	2,573	2,401	172	109,350	5,797	477
<b>NONTRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars.....	463	399	357	42	17,261	1,057	64
Coupling/uncoupling air/steam hose, safety chains.	254	201	183	18	7,014	414	53
Operating or on locomotives.....	594	487	459	28	18,102	889	107
Operating rail motorcars.....	23	15	14	1	376	1	8
Operating hand brakes.....	365	320	296	24	14,564	791	45
Operating switches or derails.....	1,048	948	868	80	40,826	2,139	100
Contacting fixed objects while on locos or cars..	17	12	9	3	196	4	5
Getting on or off cars or locomotives.....	870	770	726	44	33,960	1,833	100
Collisions, deraillments, etc. (<= \$5,701).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	1	1	1	---	19	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	7	7	7	---	194	---	---
Servicing or maintenance of equipment.....	4,083	2,903	2,388	515	79,564	11,508	1,180
Maintenance of way and structures.....	9,304	3,674	3,003	673	122,129	13,524	1,628
Freight, baggage, express or mail.....	63	55	49	6	2,160	121	8
Windows, doors, etc., on on-track equipment.....	261	199	175	24	6,697	562	62
Passenger car doors.....	2	2	2	---	49	---	---
Stumbling, slipping, falling, caught, N.O.C.....	1,543	1,340	1,229	111	61,116	3,981	203
Flying or falling objects, burns, etc., N.O.C.....	286	194	175	19	1,657	150	92
Operation of on-track work equipment.....	81	63	55	8	1,960	266	18
Assault.....	184	160	155	5	4,203	598	24
Other occurrences.....	1,601	1,160	1,059	101	39,777	2,376	441
Total	17,050	12,912	11,210	1,702	451,824	40,214	4,138
Grand total.....	20,416	15,757	13,878	1,879	574,679	46,130	4,659



**TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY**

Type accident/incident	I	II	III	IV	V	VI	Total
<b>TRAIN ACCIDENTS</b>							
Collisions	---	---	---	---	---	---	---
Deraillments	---	---	---	---	---	2	2
Rail-highway x-ing	---	---	---	---	---	1	1
Miscellaneous	---	---	---	---	---	3	3
Total	---	---	---	---	---	3	3
<b>TRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	2	---	45	47
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, deraillments, etc. (<= \$5,701)	---	---	---	---	---	4	4
Rail-highway crossing accidents/incidents	---	---	---	---	---	2	2
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	2	2
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	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	1	5	6
Flying or falling objects, burns, etc., N.O.C.	---	---	1	---	---	---	1
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	---	---	---	---	1	18	19
Other occurrences	---	---	---	---	---	---	---
Total	---	---	1	3	2	75	81
<b>NONTRAIN INCIDENTS</b>							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	3	3
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	1	1
Operating or on locomotives	---	---	1	1	---	30	32
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	3	3
Operating switches or derails	---	---	---	---	---	5	5
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	1	---	2	3
Collisions, deraillments, etc. (<= \$5,701)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	---	2	135	---	1	138
Maintenance of way and structures	---	1	91	5	---	2	99
Freight, baggage, express or mail	---	---	---	1	---	---	1
Windows, doors, etc., on on-track equipment	---	---	---	2	---	---	2
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.	---	---	---	---	---	2	2
Flying or falling objects, burns, etc., N.O.C.	---	3	---	2	1	24	30
Operation of on-track work equipment	---	---	1	---	---	---	1
Assault	---	---	---	---	---	---	---
Other occurrences	1	53	38	18	18	22	150
Total	1	57	133	165	19	95	470
Grand total	1	57	134	168	21	173	554

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	On Cars	Not On Consist	On Consists	Not On Consists	
<b>CLASS I RAILROADS</b>							
Amtrak (National RR Passenger Corp)	1	---	---	---	7	25	33
Atchison, Topeka And Santa Fe Rwy Co.	---	---	---	---	---	---	---
Springfield Terminal Railway Company	---	---	---	---	---	1	1
Burlington Northern Incorporated	1	---	---	---	2	2	5
Chicago And North Western	3	---	1	---	---	5	9
Consolidated Rail Corporation	5	---	---	1	1	7	14
CSX Transportation	4	---	---	1	3	3	11
Delaware And Hudson Railway	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---
Florida East Coast Railway Co.	1	---	---	---	---	---	1
Grand Trunk Western Railroad Co.	2	---	---	2	---	2	6
Illinois Central Railroad Co.	---	---	---	---	---	---	---
Kansas City Southern Railway Co.	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company	1	---	---	---	---	---	1
Norfolk Southern Corporation	4	---	1	---	1	1	7
Soo Line Railroad Company	---	2	---	---	---	1	3
Southern Pacific Transportation Co.	5	---	---	1	---	10	16
St. Louis Southwestern Railway Co.	7	---	---	---	---	1	1
Union Pacific Railroad Co.	7	---	---	1	2	3	13
Total Class I Railroads.....	34	2	2	6	16	61	121
<b>RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)</b>							
Class I Railroads	34	2	2	6	16	61	121
Class II Railroads	---	---	---	---	---	---	---
Class III Railroads	7	---	5	1	11	105	129
Total All Railroads.....	41	2	7	7	27	166	250

**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
<b>MISC CAUSES NOT OTHERWISE LISTED</b>						
700 Collision with hwy user at grade xing	52	4	---	---	30	18
716 Other acts of God	1	1	---	---	---	---
<b>SUBTOTAL.....</b>	<b>53</b>	<b>5</b>	<b>---</b>	<b>---</b>	<b>30</b>	<b>18</b>
<b>GRAND TOTAL.....</b>	<b>53</b>	<b>5</b>	<b>---</b>	<b>---</b>	<b>30</b>	<b>18</b>

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
<b>MISC CAUSES NOT OTHERWISE LISTED</b>						
700 Collision with hwy user at grade xing	160	68	13	81	---	7
701 Emergency brk appl to avoid accident	1	---	---	---	---	1
702 Vandalism	7	6	1	7	---	---
703 Interference with RR oper.--not vandals	3	3	---	3	---	---
709 Object on or fouling track	3	3	---	3	---	---
713 Interaction of lateral/vertical forces	1	1	---	1	---	---
716 Other acts of God	7	7	---	7	---	---
799 Other miscellaneous causes	170	10	---	10	1	151
<b>SUBTOTAL.....</b>	<b>352</b>	<b>98</b>	<b>14</b>	<b>112</b>	<b>1</b>	<b>158</b>
<b>GRAND TOTAL.....</b>	<b>352</b>	<b>98</b>	<b>14</b>	<b>112</b>	<b>1</b>	<b>158</b>

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	Passengers	Nontrespassers	Trespassers
			Trainmen	Other	Total			
FLAGGING, FIXED, HAND AND RADIO SIGNALS								
52A	Block signal, failure to comply	6	6	---	6	---	---	---
520	Fixed signal, failure to comply	3	3	---	3	---	---	---
SUBTOTAL.....		9	9	---	9	---	---	---
GRAND TOTAL.....		9	9	---	9	---	---	---

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 Total	Passengers	Nontrespassers	Trespassers
<b>BRAKES, USE OF</b>							
500 Automatic brake, improper use	2	2	---	2	---	---	---
502 Failure to secure engine (R.R. emp.)	8	4	4	8	---	---	---
503 Failure to secure hnd brk (R.R. emp)	3	2	1	3	---	---	---
504 Failure to apply sufficient hand brake	4	4	---	4	---	---	---
509 Other causes involving use of brakes	2	2	---	2	---	---	---
SUBTOTAL.....	19	14	5	19	---	---	---
<b>EMPLOYEE PHYSICAL CONDITION</b>							
513 Employee falling asleep	5	4	1	5	---	---	---
SUBTOTAL.....	5	4	1	5	---	---	---
<b>FLAGGING, FIXED, HAND AND RADIO SIGNALS</b>							
52A Block signal, failure to comply	25	25	---	25	---	---	---
52B Interlocking signal, failure to comply	1	---	1	1	---	---	---
520 Fixed signal, failure to comply	8	8	---	8	---	---	---
528 Radio comm., failure to give/receive	3	1	---	1	---	2	---
529 Flagging, fixed, hand & radio (other)	4	2	2	4	---	---	---
SUBTOTAL.....	41	36	3	39	---	2	---
<b>OTHER RULES AND INSTRUCTIONS</b>							
530 Car(s) shoved out & left out of clear	1	1	---	1	---	---	---
531 Cars left foul	1	1	---	1	---	---	---
533 Failure to stop train in clear	2	2	---	2	---	---	---
535 Instruction to trn/yard crew improper	1	1	---	1	---	---	---
536 Mtr car/on-trk eqp rules, fail to comply	12	2	10	12	---	---	---
537 Equip move without authority (RR emp)	2	2	---	2	---	---	---
538 Shoving move, missing man at lead	5	5	---	5	---	---	---
541 Special op. instr., failure to comply	11	2	7	9	---	2	---
542 Trn ord/timetable auth, fail to comply	9	9	---	9	---	---	---
543 Trn ord/radio/err in prep/trans/deliv	3	3	---	3	---	---	---
549 Rules and instructions, other	7	7	---	7	---	---	---
SUBTOTAL.....	54	35	17	52	---	2	---
<b>SPEED</b>							
550 Coupling speed excessive	4	3	1	4	---	---	---
553 Switch movement, excessive speed	2	1	1	2	---	---	---
554 Trn inside yrd limit, excess speed	15	1	3	4	8	3	---
555 Trn out yrd limit, clear blk, excess spd	1	1	---	1	---	---	---
559 Other Causes involving excessive speed	2	2	---	2	---	---	---
SUBTOTAL.....	24	8	5	13	8	3	---
<b>SWITCHES, USE OF</b>							
561 Switch improperly lined	15	9	4	13	---	---	2
562 Switch not latched or locked	12	4	1	5	---	7	---
SUBTOTAL.....	27	13	5	18	---	7	2
<b>MISCELLANEOUS</b>							
570 Buffing or slack action excessive	2	2	---	2	---	---	---
599 Other train operation/human factors	4	4	---	4	---	---	---
SUBTOTAL.....	6	6	---	6	---	---	---
GRAND TOTAL.....	176	116	36	152	8	12	2

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

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

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

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

Cause	Total Injured	... Employees On Duty... Trainmen	Other	Emp Not On Duty Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>BRAKES</b>								
401 Hydraulic hose uncoupled or burst	1	---	1	1	---	---	---	---
404L Other brake component failure - loco	1	1	---	1	---	---	---	---
408 Hand brake/gear broken or defective	2	1	1	2	---	---	---	---
SUBTOTAL.....	4	2	2	4	---	---	---	---
<b>COUPLER AND DRAFT SYSTEM</b>								
435 Coupler carrier broken or defective	1	1	---	1	---	---	---	---
439 Other coupler and draft system causes	1	---	1	1	---	---	---	---
SUBTOTAL.....	2	1	1	2	---	---	---	---
<b>TRUCK COMPONENTS</b>								
440 Side bearing clearance improper	6	2	---	2	---	---	4	---
445 Truck (stiff/improper lateral)	3	---	---	---	---	---	3	---
445L Truck (stiff/improper lateral) - loco	2	2	---	2	---	---	---	---
SUBTOTAL.....	11	4	---	4	---	---	7	---
<b>WHEELS</b>								
464 Horn flange	1	1	---	1	---	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---	---
<b>LOCOMOTIVES</b>								
474L Electrically caused fire - locomotive	1	1	---	1	---	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---	---
GRAND TOTAL.....	19	9	3	12	---	---	7	---

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

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

Cause	Total Killed	... Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>RAIL AND JOINT BAR DEFECTS</b>						
134 Detail fracture fm shelling/head check	1	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	1
GRAND TOTAL.....	1	---	---	---	---	1

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

**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
<b>ROADBED DEFECTS</b>						
101 Roadbed settled or soft	2	2	---	---	---	---
102 Washout/rain/slide/ice,etc. dmg to trk	9	9	---	---	---	---
SUBTOTAL.....	11	11	---	---	---	---
<b>TRACK GEOMETRY DEFECTS</b>						
110 Wide gage (defect/missing crossties)	6	4	2	---	---	---
115 Track alignment irregular (buckled)	3	3	---	---	---	---
120 Cross level irregular not at joints	6	5	---	---	---	---
129 Other track geometry defects	1	---	1	---	1	---
SUBTOTAL.....	16	12	3	---	1	---
<b>RAIL AND JOINT BAR DEFECTS</b>						
133 Broken weld, plant	2	2	---	---	---	---
134 Detail fracture fm shelling/head check	3	2	---	---	---	1
136 Head/web sep.(outside joint bar limit)	1	1	---	---	---	---
142 Vertical split head	1	---	1	---	---	---
149 Other rail and joint bar defects	33	1	13	19	---	---
SUBTOTAL.....	40	6	14	19	---	1
<b>FROGS, SWITCHES AND TRACK APPLIANCES</b>						
161 Switch damaged/out of adjustment	1	1	---	---	---	---
165 Switch point worn or broken	4	4	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
<b>OTHER WAY AND STRUCTURES</b>						
181 Flangeway clogged	2	2	---	---	---	---
SUBTOTAL.....	2	2	---	---	---	---
GRAND TOTAL.....	74	36	17	53	19	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	Passengers	Nontrespassers	Trespassers
<b>COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS</b>						
002T Adjusting coupler - equipment moving	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
<b>CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS</b>						
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
<b>GETTING ON OR OFF CARS OR LOCOMOTIVES</b>						
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	1	---	---	---	---	1
513T Jumping from equipment - equipment moving	2	---	---	2	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	4	1	---	---	---	3
SUBTOTAL.....	7	1	---	2	---	4
<b>COLLISIONS, DERAILMENTS, ETC.(=&lt; \$5,701)</b>						
601T Casualty resulting fm a collision which did not satisfy \$ threshold	1	---	---	---	---	1
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	11	---	---	---	---	11
SUBTOTAL.....	12	---	---	---	---	12
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>						
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	592	---	---	---	456	136
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	44	1	---	---	40	3
SUBTOTAL.....	636	1	---	---	496	139
<b>STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)</b>						
701T Standing, walking or running on or along track - equipment moving	186	1	1	2	---	182
702T Crossing track at private rail-highway crossing - equipment moving	2	---	---	---	---	2
703T Crossing track not at a crossing - equipment moving	28	---	---	---	---	1
704T While on public thoroughfare - equipment moving	2	---	---	---	---	2
705T On bridges or trestles - equipment moving	22	---	---	---	---	1
706T Sitting or lying on track or near track, not in clear - eqp moving	215	---	---	---	---	3
707T While working on or along track - equipment moving	5	---	3	3	---	1
708T Passing over, through, or under cars - equipment moving	12	---	---	---	---	12
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	39	---	---	---	---	2
SUBTOTAL.....	511	1	4	5	---	12



TABLE 66. (CONTINUED)

Occurrence	Total Killed	... Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>							
825T Other acc/inc while servicing or maintaining eqp-eqp moving	1	---	1	1	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---
<b>WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT</b>							
918T Opening and closing other windows-equipment moving	1	---	---	---	1	---	---
SUBTOTAL.....	1	---	---	---	1	---	---
<b>STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED</b>							
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	2	1	---	1	---	---	1
935T From bridges of trestles-equipment moving	1	---	---	---	---	---	1
938T While on locomotive or car equipment moving	2	---	---	---	---	---	2
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	1	---	---	---	---	---	1
SUBTOTAL.....	6	1	---	1	---	---	5
<b>OTHER OCCURRENCES</b>							
972T Sudden movement of car, not otherwise classified	1	---	---	1	---	---	---
989T Other accidents/incidents-equipment moving	6	1	---	---	---	---	---
SUBTOTAL.....	7	1	---	1	---	---	6
GRAND TOTAL.....	1,183	7	5	12	3	508	660

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	Duty... Total	Emp Not On Duty	Passengers	Nontrespassers	Trespasser
<b>COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS</b>							
001T Adjusting coupler, equipment moving unexpectedly	19	18	1	19	---	---	---
002T Adjusting coupler - equipment moving	12	12	---	12	---	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	3	3	---	3	---	---	---
005T Use of uncoupling lever - equipment moving	54	51	3	54	---	---	---
006T Use of uncoupling lever - equipment moving unexpectedly	3	3	---	3	---	---	---
007T Striking parts of body against equipment - equipment moving	15	15	---	15	---	---	---
008T Stumbled,slipped,fall,etc. on foreign obj/irreg surface-eqp moving	46	44	2	46	---	---	---
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	47	47	---	47	---	---	---
SUBTOTAL.....	199	193	6	199	---	---	---
<b>COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.</b>							
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	6	6	---	6	---	---	---
053T Coupling air hose, stk by hose due to sudden release of air - eqp mov	3	3	---	3	---	---	---
054T Stumbled,slipped,fall, or stepped on foreign obj, etc., eqp moving	6	6	---	6	---	---	---
055T Defective equipment - equipment moving	1	1	---	1	---	---	---
057T Opening or closing angle cocks - equipment moving	3	3	---	3	---	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	26	24	2	26	---	---	---
SUBTOTAL.....	45	43	2	45	---	---	---
<b>OPERATING OR ON LOCOMOTIVES</b>							
101T Burn or electrical shock - equipment moving	2	2	---	2	---	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	55	52	3	55	---	---	---
103T Struck by tools or other objects falling - equipment moving	18	17	1	18	---	---	---
104T Stumbled, slipped, fall, stepped on foreign obj, etc., - eqp moving	55	49	6	55	---	---	---
105T Checking, oiling, servicing locomotive, etc. - equipment moving	3	3	---	3	---	---	---
106T Unexpected movement of locomotive, other than slack action	92	83	9	92	---	---	---
107T Slack action in locomotive	94	88	6	94	---	---	---
108T Striking parts of body against equipment due to sudden stop of loco	53	51	2	53	---	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	33	32	1	33	---	---	---
110T Defective locomotive seat - equipment moving	44	40	4	44	---	---	---
111T Adjusting locomotive seat - equipment moving	15	13	2	15	---	---	---
112T Foreign object in eye - equipment moving	180	177	3	180	---	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	166	155	11	166	---	---	---
SUBTOTAL.....	810	762	48	810	---	---	---
<b>OPERATING RAIL MOTORCARS</b>							
151T Striking parts of body against equipment - equipment moving	6	4	2	6	---	---	---
154T Unexpected movement of rail motorcar	1	---	1	1	---	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	7	4	3	7	---	---	---
SUBTOTAL.....	14	8	6	14	---	---	---

**TABLE 67. (CONTINUED)**

Occurrence	Total Injured	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
<b>OPERATING HAND BRAKES</b>							
200T Manipulating hand brakes, no defects, equipment moving	32	30	2	32	---	---	---
201T Defective equipment - equipment moving	5	4	1	5	---	---	---
203T Striking body due to movement of equipment	11	9	2	11	---	---	---
204T Losing hold, slipping or falling due to coupling impact	5	5	---	5	---	---	---
205T Caught between parts of equipment or lading - equipment moving	3	3	---	3	---	---	---
206T Brake chains or bolts, breaking or giving way - equipment moving	3	2	1	3	---	---	---
207T Losing hold, slipping, or falling - equipment moving	11	11	---	11	---	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	8	8	---	8	---	---	---
SUBTOTAL.....	78	72	6	78	---	---	---
<b>OPERATING SWITCHES OR DERAILS</b>							
304T Struck by moving on-track equipment	7	7	---	7	---	---	---
309T Other acc/inc while operating switches/derails - equipment moving	23	23	---	23	---	---	---
SUBTOTAL.....	30	30	---	30	---	---	---
<b>CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS</b>							
401T Persons on top locos/cars contacting fixed objects - equipment mov	2	2	---	2	---	---	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	52	48	4	52	---	---	---
409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov	26	23	3	26	---	---	---
SUBTOTAL.....	80	73	7	80	---	---	---
<b>GETTING ON OR OFF CARS OR LOCOMOTIVES</b>							
501T Slip/fall due to lost/missed hold of grabiron, handhold, etc. -eqp mov	45	38	2	40	---	---	5
502T Slip/fall due to losing/missing footing on step, stirrup, etc. -eqp mov	78	69	6	75	---	---	3
503T Stepping or tripping on parts of track in place - equipment moving	14	13	1	14	---	---	---
504T Stepping or tripping on foreign material or irreg surface - eqp mov	150	141	9	150	---	---	---
505T Slipping on ice or snow on ground - equipment moving	12	12	---	12	---	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	10	10	---	10	---	---	---
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	60	37	5	42	---	3	15
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	21	3	5	8	---	8	3
510T Striking body or falling due to sudden movement of equipment	19	14	3	17	---	2	---
511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	21	20	---	20	---	1	---
513T Jumping from equipment - equipment moving	59	33	3	36	1	16	---
514T Defective equipment - equipment moving	8	8	---	8	---	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	169	150	8	158	1	---	10
SUBTOTAL.....	666	548	42	590	2	30	3

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Trainmen	Duty... Other	Duty... Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>COLLISIONS, DERAILMENTS, ETC.(≤ \$5,701)</b>								
601T Casualty resulting fm a collision which did not satisfy \$ threshold	43	34	5	39	---	---	2	2
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	29	25	4	29	---	---	---	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	31	15	7	22	---	---	2	7
SUBTOTAL.....	103	74	16	90	---	---	4	9
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>								
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,064	59	13	72	1	3	1,770	218
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	135	8	3	11	1	1	116	6
SUBTOTAL.....	2,199	67	16	83	2	4	1,886	224
<b>STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HMY X-INGS)</b>								
701T Standing, walking or running on or along track - equipment moving	160	8	1	9	---	---	2	149
702T Crossing track at private rail-highway crossing - equipment moving	3	---	2	2	---	---	---	1
703T Crossing track not at a crossing - equipment moving	35	1	---	1	---	---	3	31
704T While on public thoroughfare - equipment moving	2	---	---	---	---	---	---	2
705T On bridges or trestles - equipment moving	18	---	2	2	---	---	1	15
706T Sitting or lying on track or near track, not in clear - eqp moving	111	---	---	---	---	---	4	107
707T While working on or along track - equipment moving	19	5	9	14	---	---	4	1
708T Passing over, through, or under cars - equipment moving	49	---	---	---	---	---	---	49
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	49	3	4	7	1	---	2	39
SUBTOTAL.....	446	17	18	35	1	---	16	394
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>								
803T Striking or being struck by eqp, structures, or material-eqp mov	27	---	25	25	1	---	1	---
815T Moving equipment for repairs	23	1	22	23	---	---	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	13	---	13	13	---	---	---	---
SUBTOTAL.....	63	1	60	61	1	---	1	---
<b>MAINTENANCE OF WAY AND STRUCTURES</b>								
852T Crossing over, under, or between locos or cars-eqp moving	1	---	1	1	---	---	---	---
853T Striking or being struck by eqp, structures, or material-eqp mov	52	---	52	52	---	---	---	---
899T Other accs/incs while maintaining way and structures - eqp moving	39	1	37	38	---	---	1	---
SUBTOTAL.....	92	1	90	91	---	---	1	---
<b>FREIGHT, BAGGAGE, EXPRESS OR MAIL</b>								
901T Handling freight, baggage, express or mail-eqp moving	7	4	3	7	---	---	---	---
902T Struck or caught by shifted lading-eqp moving	1	1	---	1	---	---	---	---
904T Other acc/inc involving freight, baggage, express, or mail - eqp mov	2	---	1	1	---	1	---	---
SUBTOTAL.....	10	5	4	9	---	1	---	---

**TABLE 67. (CONTINUED)**

Occurrence	Total Injured	... Employees On Duty ... Trainmen Other	Emp Net On Duty	Passengers	Nontrespassers	Trespassers	
<b>WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT</b>							
907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	8	---	8	---	---	---	
908T Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov	1	1	---	1	---	---	
909T Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	3	---	3	---	---	---	
910T Closing or opening plug type car doors, defective equipment-eqp mov	1	---	1	---	---	---	
911T Closing or opening plug type car doors, no defects-equipment mov	1	---	1	---	---	---	
912T Closing or opening coach trap doors-equipment moving	6	6	---	6	---	---	
913T Interior doors-equipment moving	19	9	5	14	1	3	
914T Opening or closing locomotive doors-equipment moving	18	18	---	18	---	1	
915T Opening or closing locomotive windows-equipment moving	4	4	---	4	---	---	
917T Opening or closing caboose windows-equipment moving	1	1	---	1	---	---	
918T Opening and closing other windows-equipment moving	1	1	---	1	---	---	
919T Other accidents/incidents involving windows or doors-eqp mov	22	20	2	22	---	---	
<b>SUBTOTAL.....</b>	<b>85</b>	<b>60</b>	<b>20</b>	<b>80</b>	<b>1</b>	<b>3</b>	<b>1</b>
<b>PASSENGER CAR DOORS</b>							
920T Caught by side doors while entering coach-equipment moving	3	---	---	---	3	---	
925T Struck by side doors while exiting coach-equipment moving	1	---	---	---	1	---	
<b>SUBTOTAL.....</b>	<b>4</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>4</b>	<b>---</b>	
<b>STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED</b>							
930T Stumbling/slipping, etc. on snow or ice - equipment moving	8	6	2	8	---	---	
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	43	36	6	42	---	1	
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	15	15	---	15	---	---	
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	13	9	1	10	---	2	
935T From bridges of trestles-equipment moving	4	---	1	1	---	---	
937T Into depressions - equipment moving	4	1	3	4	---	---	
938T While on locomotive or car-equipment moving	77	43	14	57	1	10	
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	39	18	11	29	2	3	
<b>SUBTOTAL.....</b>	<b>203</b>	<b>128</b>	<b>38</b>	<b>166</b>	<b>3</b>	<b>16</b>	<b>3</b>
<b>FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.</b>							
940T Foreign object in eye-equipment moving	105	95	8	103	1	1	
941T Struck by flying or falling object (except assaults)-eqp mov	31	16	12	28	---	1	
942T Electrical flash, shock, or burn-equipment moving	2	1	1	2	---	---	
943T Fire or explosion of fuses or torpedoes-equipment moving	4	4	---	4	---	---	
944T Other fire or explosion-equipment moving	13	2	4	6	---	7	
945T Burned by hot or corrosive substances-equipment moving	14	11	2	13	---	---	
946T Inhalation of or contact with fumes or gases-equipment moving	27	23	1	24	3	---	
947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	---	---	---	---	---	
949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	6	5	---	5	---	1	
<b>SUBTOTAL.....</b>	<b>203</b>	<b>157</b>	<b>28</b>	<b>185</b>	<b>4</b>	<b>3</b>	<b>9</b>

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>OPERATION OF ON-TRACK WORK EQUIPMENT</b>						
950T Collision with train or car	3	---	3	---	---	---
951T Collision with other on-track work equipment	22	---	22	---	---	---
952T Jumping from equipment in anticipation of a collision	9	---	9	---	---	---
953T Derailment that does not satisfy monetary threshold	20	3	17	---	---	---
954T Getting on/off on-track work equipment - equipment moving	5	1	4	---	---	---
959T Other A/I involving on-track work equipment - equipment moving	15	2	12	---	---	1
SUBTOTAL.....	74	6	67	---	---	1
<b>ASSAULT</b>						
96AT Shot while on moving on-track equipment	4	4	---	---	---	---
96CT Struck by other propelled object while on locomotive - equip moving	36	36	---	---	---	---
96DT Struck by other propelled object while on car - equip moving	1	1	---	---	---	---
96ET Struck by other propelled object while on caboose - equip moving	2	2	---	---	---	---
96GT Other unprovoked assaults to persons on moving on-track equipment	21	12	6	1	1	1
96JT Shot while on moving on-track equipment	2	2	---	---	---	---
96LT Other assaults connected with the protection of RR property - eqp moving	1	---	1	---	---	---
96MT All other assaults involving moving on-track equipment	2	1	1	---	---	---
SUBTOTAL.....	69	58	8	1	1	1
<b>OTHER OCCURRENCES</b>						
970T Performing rerailing or other clearing operations-equipment moving	1	---	1	---	---	---
971T Loco or car coming against car placed for loading or unloading	5	4	1	---	---	---
972T Sudden movement of car, not otherwise classified	21	12	6	18	1	2
974T Slack action in caboose	40	38	2	40	---	---
975T Slack action, other	60	51	4	55	2	1
976T Emergency or severe application of air brakes due to def eqp	1	1	---	1	---	---
977T Emergency or severe application of air brakes not due to def eqp	9	9	---	9	---	---
986T Unexpected move of caboose, not slack action (include emergency & severe braking)	2	2	---	2	---	---
988T Other accidents/incidents while in caboose, equipment moving	20	19	1	20	---	---
989T Other accidents/incidents-equipment moving	163	61	53	114	4	8
SUBTOTAL.....	322	197	68	265	4	11
GRAND TOTAL.....	5,795	2,500	550	3,050	19	1,936

NOTE: Contractor employees are included with nontrespassers

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

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
<b>COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS</b>						
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
<b>OPERATING OR ON LOCOMOTIVES</b>						
109T Inhalation of or contact with fumes or gases - equipment moving	34	33	1	34	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	13	12	1	13	---	---
SUBTOTAL.....	47	45	2	47	---	---
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>						
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	3	3	---	3	---	---
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	1	1	---	1	---	---
SUBTOTAL.....	4	4	---	4	---	---
<b>STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)</b>						
701T Standing, walking or running on or along track - equipment moving	2	2	---	2	---	---
SUBTOTAL.....	2	2	---	2	---	---
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>						
825T Other acc/inc while servicing or maintaining eqp-eqp moving	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---
<b>FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.</b>						
946T Inhalation of or contact with fumes or gases-equipment moving	6	5	1	6	---	---
SUBTOTAL.....	6	5	1	6	---	---
<b>OPERATION OF ON-TRACK WORK EQUIPMENT</b>						
959T Other A/I involving on-track work equipment - equipment moving	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---
<b>OTHER OCCURRENCES</b>						
989T Other accidents/incidents-equipment moving	19	18	1	19	---	---
SUBTOTAL.....	19	18	1	19	---	---
GRAND TOTAL.....	81	75	6	81	---	---

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
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>						
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	10	---	---	---	10	---
SUBTOTAL.....	10	---	---	---	10	---
<b>STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)</b>						
701 Standing, walking or running on or along track - equipment standing	1	---	---	---	---	1
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	1	---	---	---	---	1
SUBTOTAL.....	2	---	---	---	---	2
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>						
803 Striking or being struck by eqp, structures, or material-eqp std	1	---	1	1	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	1	---	1	1	---	---
SUBTOTAL.....	2	---	2	2	---	---
<b>MAINTENANCE OF WAY AND STRUCTURES</b>						
855 Use of portable power tools	1	---	1	1	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---
869 Struck by flying of falling object	1	---	1	1	---	---
870 Electrical flash, shock, or burn	1	---	1	1	---	---
893 Servicing or repairing MOW equipment at work site	1	---	1	1	---	---
SUBTOTAL.....	5	---	5	5	---	---
<b>STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED</b>						
932 Stumbling/slipping, etc. on parts of track in place	1	---	---	---	---	1
933 Stumbling/slipping, etc. on stairways, ramps or platforms	1	---	---	---	1	---
935 From bridges or trestles	4	1	---	1	---	3
936 From structures other than bridges or trestles	2	---	---	---	---	2
938 While on locomotive or car-equipment standing	1	---	---	---	---	1
939 Other, stumbling, slipping, falling, caught, etc.	2	---	---	---	---	2
SUBTOTAL.....	11	1	---	1	---	9
<b>FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.</b>						
941 Struck by flying of falling object (except assaults)	1	---	---	---	1	---
942 Electrical flash, shock, or burn	3	---	---	---	1	2
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	4	---	---	---	---	4
SUBTOTAL.....	8	---	---	---	2	6
<b>OTHER OCCURRENCES</b>						
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	7	2	4	6	1	---
989 Other accidents/incidents	7	---	1	1	2	4
SUBTOTAL.....	14	2	5	7	3	4
<b>GRAND TOTAL.....</b>	<b>52</b>	<b>3</b>	<b>12</b>	<b>15</b>	<b>16</b>	<b>21</b>

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	Passengers	Nontrespassers	Trespassers
<b>COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS</b>						
Adjusting coupler - equipment standing	177	166	11	177	---	---
Crossing over, under or between on-track equipment, equipment standing	5	2	2	4	---	1
Adjusting coupler, part of coupler fall striking person-eqp standing	20	17	3	20	---	---
Use of uncoupling lever - equipment standing	70	65	5	70	---	---
Striking parts of body against equipment - equipment standing	22	20	2	22	---	---
Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std	82	75	7	82	---	---
Other acc/inc while coupling/uncoupling cars or locos - equip std	88	76	12	88	---	---
SUBTOTAL.....	464	421	42	463	---	1
<b>COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.</b>						
Crossing over, under or between on-track equipment, equipment standing	1	1	---	1	---	---
Uncoupl air hose, struck by hose due to sudden release of air-eqp std	39	30	9	39	---	---
Coupling air hose, stk by hose due to sudden release of air - eqp std	12	10	2	12	---	---
Stumbled, slipped, fell, or stepped on foreign obj, etc. - eqp standing	42	33	9	42	---	---
Defective equipment - equipment standing	6	4	2	6	---	---
Opening or closing angle cocks - equipment standing	37	36	1	37	---	---
Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	117	95	22	117	---	---
SUBTOTAL.....	254	209	45	254	---	---
<b>OPERATING OR ON LOCOMOTIVES</b>						
Burn or electrical shock - equipment standing	5	4	1	5	---	---
Striking parts of body against equipment, moving about loco-eqp std	69	58	10	68	1	---
Struck by tools or other objects falling - equipment standing	16	8	8	16	---	---
Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	159	142	17	159	---	---
Checking, oiling, servicing locomotive, etc. - equipment standing	31	16	15	31	---	---
Inhalation of or contact with fumes or gases - equipment standing	29	26	3	29	---	---
Defective locomotive seat - equipment standing	41	40	1	41	---	---
Adjusting locomotive seat - equipment standing	41	37	4	41	---	---
Foreign object in eye - equipment standing	71	65	6	71	---	---
Other accidents/incidents while operating locomotives - eqp standing	133	117	16	133	---	---
SUBTOTAL.....	595	513	81	594	1	---
<b>OPERATING RAIL MOTORCARS</b>						
Striking parts of body against equipment - equipment standing	5	---	5	5	---	---
Struck by tools or other objects falling - equipment standing	4	---	4	4	---	---
Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	3	1	2	3	---	---
Placing or removing rail motorcar on or off rail	5	---	5	5	---	---
Other accidents/incidents while operating rail motorcars - eqp std	6	---	6	6	---	---
SUBTOTAL.....	23	1	22	23	---	---

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>OPERATING HAND BRAKES</b>							
200	196	182	14	196	---	---	---
201	29	29	---	29	---	---	---
202	2	1	1	2	---	---	---
203	10	10	---	10	---	---	---
205	3	3	---	3	---	---	---
206	13	13	---	13	---	---	---
207	48	47	1	48	---	---	---
208	8	7	1	8	---	---	---
209	56	48	8	56	---	---	---
SUBTOTAL.....	365	340	25	365	---	---	---
<b>OPERATING SWITCHES OR DERAILS</b>							
301	23	21	2	23	---	---	---
302	40	38	2	40	---	---	---
303	55	46	9	55	---	---	---
305	165	148	17	165	---	---	---
306	548	497	51	548	---	---	---
307	34	27	7	34	---	---	---
308	5	5	---	5	---	---	---
309	178	161	17	178	---	---	---
SUBTOTAL.....	1,048	943	105	1,048	---	---	---
<b>CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS</b>							
401	5	2	3	5	---	---	---
402	6	4	2	6	---	---	---
409	6	4	2	6	---	---	---
SUBTOTAL.....	17	10	7	17	---	---	---
<b>GETTING ON OR OFF CARS OR LOCOMOTIVES</b>							
501	66	47	19	66	---	---	---
502	160	114	34	148	---	11	1
503	21	21	---	21	---	---	---
504	187	170	14	184	---	2	1
505	23	21	1	22	---	---	1
506	25	22	2	24	---	1	---
507	111	67	19	86	---	22	2
508	72	13	12	25	---	46	1
511	39	28	3	31	1	6	1
513	10	4	4	8	---	---	---
514	10	10	---	10	---	---	---
519	257	207	38	245	2	9	---
SUBTOTAL.....	981	724	146	870	3	97	7

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS</b>							
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	43	1	---	1	---	---	40
610 Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std	1	---	---	---	---	---	1
SUBTOTAL.....	44	1	---	1	---	---	41
<b>STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)</b>							
701 Standing, walking or running on or along track - equipment standing	4	1	---	1	---	---	1
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	9	4	2	6	---	---	1
SUBTOTAL.....	13	5	2	7	---	---	2
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>							
802 Crossing over, under, or between locos or cars - equipment standing	12	1	11	12	---	---	---
803 Striking or being struck by eqp, structures, or material-eqp std	324	4	318	322	---	---	2
804 Use of hand tools	405	3	400	403	---	---	2
805 Use of portable power tools	98	1	97	98	---	---	---
806 Use of welding equipment	73	---	73	73	---	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	36	---	36	36	---	---	---
808 Use of grinding equipment	39	---	36	36	---	---	3
809 Use of scaffolds, ladders, etc.	46	---	46	46	---	---	---
81A Lifting parts to install while making repairs	110	2	108	110	---	---	---
810 Use of cranes, hoists, derricks, piledrivers, etc.	64	---	63	63	---	---	1
811 Use of lift trucks and other portable material handling eqp	54	---	53	53	1	---	---
812 Use of shop machinery not elsewhere classified	74	---	74	74	---	---	---
813 Loading and unloading materials	133	1	131	132	1	---	---
814 Handling material by hand	542	12	527	539	---	---	3
816 Inhalation of or contact with fumes or gases	26	6	20	26	---	---	---
817 Foreign object in eye, using eye protection	253	20	228	248	2	---	3
818 Foreign object in eye, not using eye protection	91	8	77	85	3	---	3
819 Struck by flying or falling object	157	6	150	156	1	---	---
820 Electrical flash, shock, or burn	54	3	51	54	---	---	---
821 Fire or explosion of fuses or torpedoes	2	2	---	2	---	---	---
822 Other fire or explosion	7	---	7	7	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	55	3	52	55	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	671	19	630	649	21	---	1
825 Other acc/inc while servicing or maintaining eqp-eqp std	810	15	789	804	5	---	1
SUBTOTAL.....	4,136	106	3,977	4,083	36	---	19

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>MAINTENANCE OF WAY AND STRUCTURES</b>							
852 Crossing over, under, or between locos or cars-eqp std	2	---	2	2	---	---	---
853 Striking or being struck by eqp, structures, or material-eqp std	316	6	305	311	2	---	3
854 Use of hand tools	615	1	605	606	2	---	7
855 Use of portable power tools	254	1	250	251	---	---	3
856 Use of welding equipment	50	---	49	49	---	---	1
857 Use of oxygen-acetylene, natural gas cutting equipment	17	---	17	17	---	---	---
858 Use of grinding equipment	57	---	56	56	---	---	1
859 Use of scaffolds, ladders, etc.	37	---	37	37	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	92	---	92	92	---	---	---
861 Use of lift trucks and other portable material handling eqp	43	---	42	42	---	---	1
862 Use of shop machinery not elsewhere classified	18	1	17	18	---	---	---
863 Loading and unloading materials	415	---	413	413	---	---	2
864 Handling material by hand	519	1	516	517	---	---	2
866 Inhalation of or contact with fumes or gases	7	---	7	7	---	---	---
867 Foreign object in eye, using eye protection	114	2	107	109	---	---	5
868 Foreign object in eye, not using eye protection	94	4	86	90	1	---	3
869 Struck by flying or falling object	254	4	248	252	---	---	2
870 Electrical flash, shock, or burn	32	---	32	32	---	---	---
871 Fire or explosion of fuses or torpedoes	1	---	1	1	---	---	---
872 Other fire or explosion	11	---	10	10	1	---	---
873 Burned or irritated by hot, corrosive or toxic substances	37	---	37	37	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	626	4	597	601	23	---	2
875 Use of maintenance of way equipment not elsewhere classified	127	---	125	125	---	---	2
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	192	---	189	189	1	---	2
877 Insert/remove ties, switch timbers and tie plates using portable power tools	63	---	63	63	---	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	124	---	122	122	---	---	2
879 Handling rail by use of power tools	27	---	27	27	---	---	---
880 Handling rail by use of hand tools	101	1	100	101	---	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	105	---	105	105	---	---	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	290	1	287	288	1	---	1
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	125	2	122	124	---	---	1
893 Servicing or repairing MOW equipment at work site	110	1	108	109	---	---	1
899 Other accs/incs while maintaining way and structures - eqp standing	507	---	501	501	5	---	1
<b>SUBTOTAL.....</b>	<b>5,382</b>	<b>29</b>	<b>5,275</b>	<b>5,304</b>	<b>36</b>	<b>---</b>	<b>42</b>
<b>FREIGHT, BAGGAGE, EXPRESS OR MAIL</b>							
901 Handling freight, baggage, express or mail	54	20	32	52	---	---	2
902 Struck or caught by shifted lading	2	---	1	1	---	---	---
903 Tripping over, or struck by falling baggage in passenger car-eqp std	4	2	2	4	---	---	---
904 Other accident/incident involving freight, baggage, express, or mail	8	1	5	6	---	---	1
<b>SUBTOTAL.....</b>	<b>68</b>	<b>23</b>	<b>40</b>	<b>63</b>	<b>---</b>	<b>---</b>	<b>3</b>

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
			Trainmen	Other	Total			
<b>WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT</b>								
907	Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	32	1	30	31	---	---	1
908	Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	14	4	10	14	---	---	---
909	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	27	4	19	23	---	---	4
910	Closing or opening plug type car doors, defective equipment-eqp std	3	1	2	3	---	---	---
911	Closing or opening plug type car doors, no defects-equipment std	18	1	16	17	---	---	1
912	Closing or opening coach trap doors-equipment standing	26	10	4	14	---	12	---
913	Interior doors-equipment standing	37	28	9	37	---	---	---
914	Opening or closing locomotive doors-equipment standing	50	43	4	47	---	3	---
915	Opening or closing locomotive windows-equipment standing	8	7	1	8	---	---	---
916	Opening or closing caboose doors-equipment standing	1	---	1	1	---	---	---
918	Opening and closing other windows	6	6	---	6	---	---	---
919	Other accidents/incidents involving windows or doors	64	30	30	60	---	3	1
SUBTOTAL.....		286	135	126	261	---	18	7
<b>PASSENGER CAR DOORS</b>								
920	Caught by side doors while entering coach-equipment standing	3	---	---	---	---	3	---
921	Caught by side doors while exiting coach-equipment standing	2	1	---	1	---	1	---
924	Struck by side doors while entering coach-equipment standing	5	---	1	1	---	4	---
925	Struck by side doors while exiting coach-equipment standing	2	---	---	---	1	1	---
SUBTOTAL.....		12	1	1	2	1	9	---
<b>STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED</b>								
930	Stumbling/slipping, etc. on snow or ice	219	108	72	180	29	3	7
931	Stumbling/slipping, etc. on foreign material or irregular surface	607	343	216	559	27	2	16
932	Stumbling/slipping, etc. on parts of track in place	175	87	66	153	6	3	7
933	Stumbling/slipping, etc. on stairways, ramps or platforms	386	44	155	199	27	29	128
934	Slip/fall, etc. between loco/car and other cars and struct-eqp std	45	15	9	24	1	17	1
935	From bridges or trestles	25	7	11	18	1	---	2
936	From structures other than bridges or trestles	36	6	22	28	---	---	8
937	Into depressions	99	51	41	92	4	---	2
938	While on locomotive or car-equipment standing	75	26	27	53	1	7	12
939	Other, stumbling, slipping, falling, caught, etc.	301	102	135	237	17	3	44
SUBTOTAL.....		1,968	789	754	1,543	113	64	227

TABLE 70. (CONTINUED)

Occurrence	Total Injured	Employees On Duty... Trainmen	Other	Duty... Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.</b>								
940 Foreign object in eye	142	95	36	131	5	---	6	---
941 Struck by flying or falling object (except assaults)	78	32	26	58	5	---	14	1
942 Electrical flash, shock, or burn	13	3	6	9	---	---	2	2
943 Fire or explosion of fuses or torpedoes	3	3	---	3	---	---	---	---
944 Other fire or explosion	7	1	5	6	---	---	---	1
945 Burned by hot or corrosive substances	25	7	12	19	1	---	5	---
946 Inhalation of or contact with fumes or gases	43	33	9	42	---	---	1	---
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	10	---	3	3	---	---	2	5
949 Other acc/inc resulting from flying/falling objs, burns, etc.	20	7	8	15	1	3	1	---
SUBTOTAL.....	341	181	105	286	12	3	31	9
<b>OPERATION OF ON-TRACK WORK EQUIPMENT</b>								
954 Getting on/off on-track work equipment - equipment standing	39	1	35	36	3	---	---	---
959 Other A/I involving on-track work equipment - equipment standing	45	2	43	45	---	---	---	---
SUBTOTAL.....	84	3	78	81	3	---	---	---
<b>ASSAULT</b>								
96A Shot while on standing on-track equipment	1	1	---	1	---	---	---	---
96B Shooting incidents not involving persons on on-track equipment	4	1	1	2	1	---	---	1
96C Struck by other propelled object while on locomotive - equip standing	5	5	---	5	---	---	---	---
96D Struck by other propelled object while on car - equip standing	6	6	---	6	---	---	---	---
96F Struck by other propelled object, not on on-track equipment	7	5	2	7	---	---	---	---
96G All other unprovoked assaults	106	35	56	91	3	2	9	1
96K Shooting incidents that did not involve persons on on-track equipment	1	---	1	1	---	---	---	---
96L Other assaults connected with the protection of RR property - eqp standing	44	1	42	43	---	---	1	---
96M All other assaults not involving moving on-track equipment	32	---	27	27	2	---	3	---
96N Injuries sustained by ther perpetrator of an assault	3	---	1	1	---	---	---	2
SUBTOTAL.....	209	54	130	184	6	2	13	4
<b>OTHER OCCURRENCES</b>								
970 Performing rerailling or other clearing operations	28	5	23	28	---	---	---	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	490	116	317	433	30	---	20	7
979 Servicing and maintenance of highway vehicles	12	---	12	12	---	---	---	---
980 Horseplay	11	---	4	4	2	4	---	1
981 Animal bites, including snake bites	14	3	10	13	---	---	---	1
982 Insect bites	145	47	89	136	9	---	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	404	5	379	384	16	---	4	---
984 Contact with poisonous plants	14	---	14	14	---	---	---	---
985 Stepping on nails or other sharp objects	60	33	23	56	3	1	---	---
987 Caboose fire, equipment standing	1	1	---	1	---	---	---	---
988 Other accidents/incidents while in caboose, equipment standing	6	4	2	6	---	---	---	---
989 Other accidents/incidents	704	204	310	514	24	8	144	14
SUBTOTAL.....	1,889	418	1,183	1,601	84	13	168	23
GRAND TOTAL.....	18,179	4,906	12,144	17,050	293	206	560	70

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...	Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS</b>									
005 Use of uncoupling lever - equipment standing	1	1	---	---	1	---	---	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	2	2	---	---	2	---	---	---	---
SUBTOTAL.....	3	3	---	---	3	---	---	---	---
<b>COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.</b>									
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	1	1	---	---	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	1	---	---	---	---
<b>OPERATING OR ON LOCOMOTIVES</b>									
109 Inhalation of or contact with fumes or gases - equipment standing	18	18	---	---	18	---	---	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	14	12	2	---	14	---	---	---	---
SUBTOTAL.....	32	30	2	---	32	---	---	---	---
<b>OPERATING HAND BRAKES</b>									
200 Manipulating hand brakes, no defects, equipment standing	1	1	---	---	1	---	---	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing	2	2	---	---	2	---	---	---	---
SUBTOTAL.....	3	3	---	---	3	---	---	---	---
<b>OPERATING SWITCHES OR DERAILS</b>									
306 Lining switches, no defects	2	2	---	---	2	---	---	---	---
309 Other acc/inc while operating switches/derails - equipment standing	3	3	---	---	3	---	---	---	---
SUBTOTAL.....	5	5	---	---	5	---	---	---	---
<b>GETTING ON OR OFF CARS OR LOCOMOTIVES</b>									
506 Slipping on ice/snow on cars or locomotives - equipment standing	1	---	1	---	1	---	---	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std	2	2	---	---	2	---	---	---	---
SUBTOTAL.....	3	2	1	---	3	---	---	---	---
<b>SERVICING OR MAINTENANCE OF EQUIPMENT</b>									
804 Use of hand tools	30	---	30	---	30	---	---	---	---
805 Use of portable power tools	4	---	4	---	4	---	---	---	---
806 Use of welding equipment	3	---	3	---	3	---	---	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	1	---	1	---	1	---	---	---	---
81A Lifting parts to install while making repairs	1	---	1	---	1	---	---	---	---
811 Use of lift trucks and other portable material handling eqp	1	---	1	---	1	---	---	---	---
812 Use of shop machinery not elsewhere classified	2	---	2	---	2	---	---	---	---
814 Handling material by hand	2	---	2	---	2	---	---	---	---
816 Inhalation of or contact with fumes or gases	24	1	23	---	24	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	6	---	6	---	6	---	---	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	64	---	64	---	64	---	---	---	---
SUBTOTAL.....	138	1	137	---	138	---	---	---	---

TABLE 71. (CONTINUED)

Occurrence	Total Illness	... Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
<b>MAINTENANCE OF WAY AND STRUCTURES</b>						
854 Use of hand tools	7	---	7	---	---	---
855 Use of portable power tools	2	---	2	---	---	---
856 Use of welding equipment	3	---	3	---	---	---
858 Use of grinding equipment	1	---	1	---	---	---
861 Use of lift trucks and other portable material handling eqp	2	---	2	---	---	---
862 Use of shop machinery not elsewhere classified	1	---	1	---	---	---
864 Handling material by hand	5	---	5	---	---	---
866 Inhalation of or contact with fumes or gases	10	1	9	10	---	---
870 Electrical flash, shock, or burn	1	---	1	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances	7	---	6	1	---	---
875 Use of maintenance of way equipment not elsewhere classified	4	---	4	---	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	2	---	2	---	---	---
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	2	---	2	---	---	---
880 Handling rail by use of hand tools	2	---	2	---	---	---
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	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	43	1	42	43	---	---
SUBTOTAL.....	100	2	97	99	1	---
<b>FREIGHT, BAGGAGE, EXPRESS OR MAIL</b>						
904 Other accident/incident involving freight, baggage, express, or mail	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---
<b>WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT</b>						
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	2	---	2	2	---	---
SUBTOTAL.....	2	---	2	2	---	---
<b>STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED</b>						
937 Into depressions	1	1	---	1	---	---
938 While on locomotive or car-equipment standing	1	1	---	1	---	---
SUBTOTAL.....	2	2	---	2	---	---
<b>FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.</b>						
944 Other fire or explosion	3	---	3	3	---	---
946 Inhalation of or contact with fumes or gases	25	21	3	24	1	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	3	3	---	3	---	---
SUBTOTAL.....	31	24	6	30	1	---
<b>OPERATION OF ON-TRACK WORK EQUIPMENT</b>						
959 Other A/I involving on-track work equipment - equipment standing	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---
<b>OTHER OCCURRENCES</b>						
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	2	---	2	2	---	---
979 Servicing and maintenance of highway vehicles	1	---	1	1	---	---
982 Insect bites	2	---	2	2	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	57	---	56	56	1	---
984 Contact with poisonous plants	35	---	35	35	---	---
989 Other accidents/incidents	58	22	32	54	2	2
SUBTOTAL.....	155	22	128	150	3	2
GRAND TOTAL.....	477	95	375	470	5	2

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 1990, define a reportable accident/incident as an event arising from the operation of a railroad which, with minor exceptions, results in one or more of the following circumstances:

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

## CLASSIFICATION OF ACCIDENTS/INCIDENTS

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

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

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

## DEFINITIONS

Accident. See "train accident," above.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**APPENDIX B  
REPORTING FORMS**





DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION <b>RAILROAD INJURY AND ILLNESS SUMMARY</b>										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)									
<p>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.</p> <p>Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19 _____.</p> <p>(Use an im- [L.S] pression seal) _____ (Notary Public) _____ (Signature of affiant)</p>																	
<b>7. MILES RUN DURING MONTH</b>																	
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 6180-94			TOTAL FRA FORMS 6180-97								
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									
<b>SECTION C--MEMORANDUM--SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES</b>																	
LINE NO.	ACCIDENT/INCIDENT NUMBER			TYPE PERSON OR JOB CODE		DATE OF INJURY			DATE OF DEATH			STATE					
1.																	
2.																	
3.																	
4.																	

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

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



RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1 NAME OF REPORTING RAILROAD		Amtrak <input type="checkbox"/> AutoTrain <input type="checkbox"/>	1a Alphabetic Code	1b Railroad Accident/Incident No.
2 NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a Alphabetic Code	2b Railroad Accident/Incident No.
3 NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a Alphabetic Code	3b Railroad Accident/Incident No.
4 U.S. DOT AAR GRADE CROSSING IDENTIFICATION NUMBER		5 DATE OF ACCIDENT/INCIDENT month   day   year		6 TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
7 TYPE OF ACCIDENT/INCIDENT (enter number in code box; single entry)				
1. Derailment    3. Rear end collision    5. Raking collision    7. Rail Hwy crossing    9. Obstruction    11. Fire or violent rupture    12. Other (specify) _____ 2. Head on collision    4. Side collision    6. Broken train collision    8. RR grade crossing    10. Explosion/Detonation				
<b>HAZARDOUS MATERIALS (number of)</b>				
8 CARS CARRYING	9 CARS DAMAGED OR DERAILED	10 CARS WHICH RELEASED HAZ MAT	11 PEOPLE EVACUATED (est.)	
<b>LOCATION</b>				
12 DIVISION	13 NEAREST STATION	14 MILEPOST (to nearest tenth)	15 STATE (two letter code)	CODE
<b>ENVIRONMENTAL CONDITIONS</b>				
16 TEMPERATURE (specify if minus) °F	17 VISIBILITY (single entry) 1. Dawn    3. Dusk 2. Day    4. Dark	CODE	18 WEATHER (single entry) 1. Clear    2. Cloudy    3. Rain    4. Fog    5. Sleet    6. Snow	CODE
<b>OPERATIONAL DATA</b>				
19 METHOD (place X in appropriate boxes)				
1. Manual block	4. Automatic block	7. Yard rules	10. Auto train control	13. Other (specify)
2. Interlocking	5. Traffic control	8. Time table	11. Verbal permission	
3. Cab signal	6. Auto. train stop	9. Radio	12. 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
<b>EQUIPMENT</b>				
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 loco(s)		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	30a Initial and Number	30b Position in Train	30c Loaded (Y/N or NO)	
(1) First Involved (derailed, struck, striking, etc.)				
(2) Causing (mechanical failures)				
31. LOCOMOTIVE UNITS (no. of)	a. Head End	b. Mid Train	c. Rear End	32. CARS (no. of)
	b. Manual	c. Remote	d. Manual	e. Remote
(1) Total in Train				(1) Total in Equipment Consist
(2) Total Derailed				(2) Total Derailed
<b>PROPERTY DAMAGE (estimated cost, including labor to repair or replace)</b>				
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)		\$
<b>ACCIDENT/INCIDENT CAUSE CODE</b>				
35. PRIMARY CAUSE	CODE	36 CONTRIBUTING CAUSE	37 If no code available, explain cause.	
<b>CASUALTIES</b>				
38 NUMBER OF PERSONS INJURED	39 ESTIMATED TOTAL DAYS DISABILITY	40 NUMBER OF FATALITIES		
<b>CREW (no. of)</b>				
41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN	45. ENGINEER
				46. CONDUCTOR
				Mrs:    Mins:
47 TYPED NAME AND TITLE		48 SIGNATURE		49 DATE
50 NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident				

# RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

1 NAME OF REPORTING RAILROAD <div style="text-align: right; font-size: small;">Amtrak Autotrain</div>		1a Alphabetic Code	1b Railroad Accident/Incident No.
2 NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT		2a Alphabetic Code	2b Railroad Accident/Incident No.
3 NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)		3a Alphabetic Code	3b Railroad Accident/Incident No.
4 U.S. DOT AAR GRADE CROSSING IDENTIFICATION NUMBER	5 DATE OF ACCIDENT/INCIDENT month      day      year		6 TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
<b>LOCATION</b>			
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)		
<b>ACCIDENT/INCIDENT SITUATION</b>			
12 HIGHWAY USER INVOLVED		13 RAILROAD EQUIPMENT INVOLVED	
12 TYPE      3 Truck Trailer      6 Motorcycle 1 Auto      4 Bus      7 Pedestrian 2 Truck      5 School Bus      8 Other (specify)		13 EQUIPMENT      3 Train (standing)      6 Light locos (moving) 1 Train (units pulling)      4 Carts (moving)      7 Light locos (standing) 2 Train (units pushing)      5 Carts (standing)      8 Other (specify)	
13 SPEED (estimated mph at impact)	14 DIRECTION (geographical) 1 North      3 East 2 South      4 West	17 POSITION OF CAR/UNIT IN TRAIN	CODE
16 POSITION 1 Stalled on crossing      2 Stopped on crossing      3 Moving over crossing	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			
<b>ENVIRONMENT</b>			
20 TEMPERATURE (specify if minus) °F	21 VISIBILITY (single entry) 1 Dawn      3 Dusk 2 Day      4 Dark	22 WEATHER (single entry) 1 Clear      3 Rain      5 Sleet 2 Cloudy      4 Fog      6 Snow	CODE
<b>TRAIN AND TRACK</b>			
23 TYPE OF TRAIN 1 Freight      3 Mixed      5 Yard/Switching 2 Passenger      4 Work      6 Light Locomotive(s)	24 TRACK TYPE USED BY TRAIN INVOLVED 1 Main      3 Siding 2 Yard      4 Industry		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      Recorded      Est	30 TIME TABLE DIRECTION 1 North      3 East 2 South      4 West	CODE
<b>CROSSING WARNING</b>			
31 TYPE (place X in appropriate box(es))	5 <input type="checkbox"/> Hwy Traffic Signals      9 <input type="checkbox"/> Watchman 6 <input type="checkbox"/> Audible      10 <input type="checkbox"/> Flagged by crew 7 <input type="checkbox"/> Crossbucks      11 <input type="checkbox"/> Other (specify) 8 <input type="checkbox"/> Stop Signs      12 <input type="checkbox"/> None	32 SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes      2. No	
33 LOCATION OF WARNING 1 Both sides      2 Side of vehicle approach      3 Opposite side of vehicle approach	34 CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1 Yes      2 No      3 Unknown	35 CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1 Yes      2 No      3 Unknown	CODE
<b>MOTORIST ACTION</b>			
36 MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes      2. No      3. Unknown	37 MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes      2. No      3. Unknown		CODE
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      5 Vegetation      7 Other (specify) 4 Topography      6 Highway vehicles      8 Not obstructed			CODE
<b>HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES</b>			
40 HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41 DRIVER WAS 1 Killed      2 Injured      3 Uninjured	42 WAS DRIVER IN THE VEHICLE? 1. Yes      2. No	CODE
43 TOTAL NUMBER OF OCCUPANTS KILLED	44 TOTAL NUMBER OF OCCUPANTS INJURED	45 TOTAL NUMBER OF OCCUPANTS (include driver)	CODE
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. _____

B-7

**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	<b>OCCUPATIONAL INJURIES</b>								
2	<b>OCCUPATIONAL ILLNESSES</b>	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		<b>TOTAL OCCUPATIONAL ILLNESSES</b> (Add Lines 2 through 8)							
10	<b>TOTAL OCCUPATIONAL INJURIES AND ILLNESSES</b> (Add Lines 1 and 9)								

**VII. COMMENTS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Report prepared by: \_\_\_\_\_ Area Code and Phone: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

ANNUAL RAILROAD REPORT  
OF  
MANHOURS BY STATE

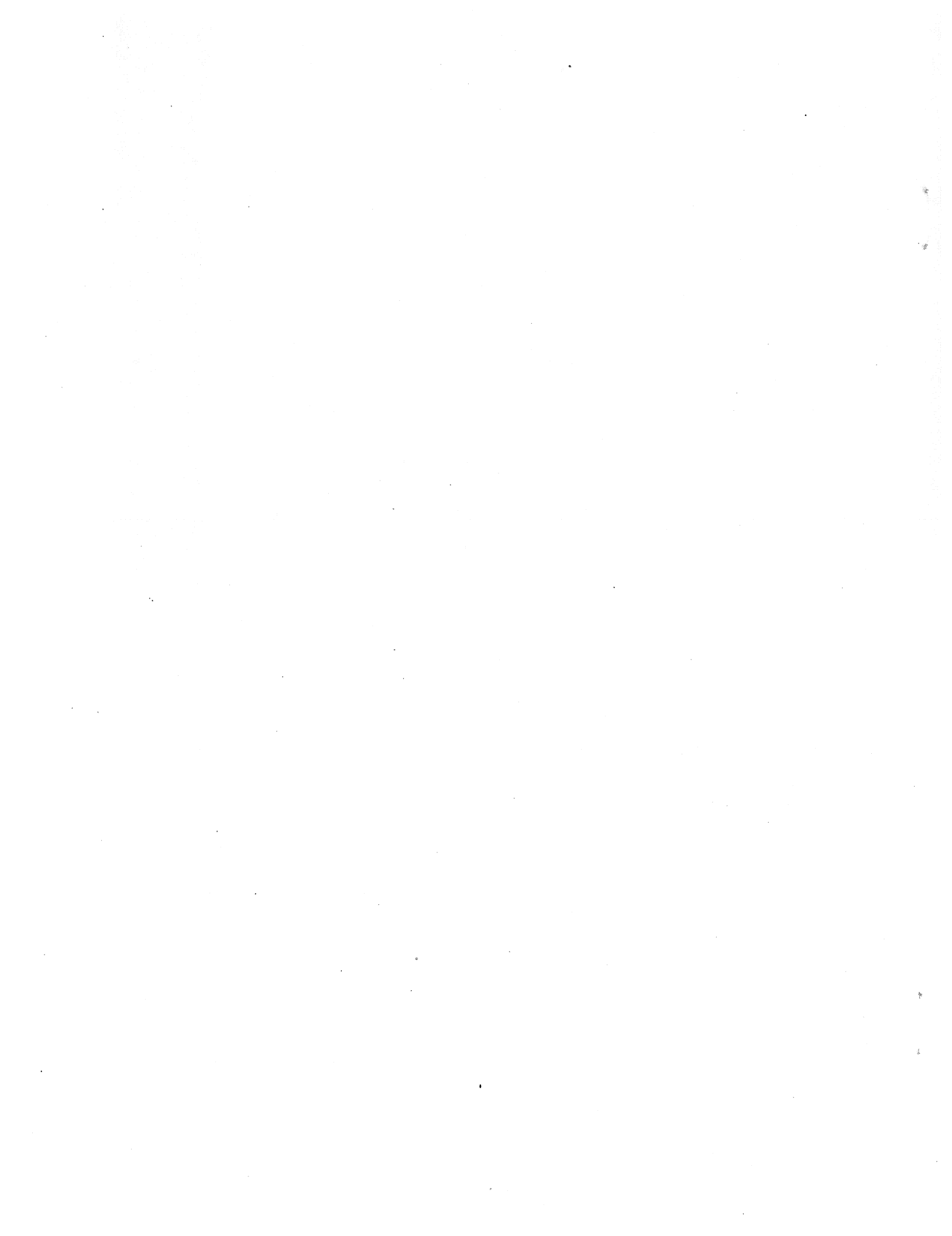
1. REPORTING RAILROAD			ALPHABETIC CODE		2. REPORT YEAR	
ANNUAL MANHOURS						
A	STATE	B. CODE	C.	M/HRS	A.	STATE
(1)	ALABAMA	AL			(26)	MONTANA
(2)	ALASKA	AK			(27)	NEBRASKA
(3)	ARIZONA	AZ			(28)	NEVADA
(4)	ARKANSAS	AR			(29)	NEW HAMPSHIRE
(5)	CALIFORNIA	CA			(30)	NEW JERSEY
(6)	COLORADO	CO			(31)	NEW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









U.S. Department  
of Transportation

**Federal Railroad  
Administration**

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