



**U.S. Department of
Transportation**

Federal Railroad
Administration
Office of Safety

Accident/Incident Bulletin

No. 155

Calendar Year 1986

JUNE 1987



NOTICE

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366-2760

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INTRODUCTION

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

Bulletin 155 summarizes reportable accidents/incidents that occurred in the United States during 1986.

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 1986 was \$4,900.

While this revision improved the comparability of the data, comparisons are valid only for those years when the threshold was adjusted. Generally, the number of reported accidents is higher in a year following an adjustment. Biennial adjustments not only make year-to-year statistical comparisons difficult, but also impose an unnecessary reporting burden on the railroads. To get a clearer picture of annual trends, it is necessary to adjust the second year of a threshold. This was done by limiting the count of accidents in 1982 to those over \$4,100; in 1984 to those over \$4,700, and in 1986 to those over \$5,050. For all other years, the actual number of accidents is reported.

To better assess the impact of increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. Therefore, the 1986 Accident/Incident Bulletin gives data for train accidents and train incidents by billions of revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

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

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

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

EMPLOYEE INJURIES

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

- 1) Any event or activity that causes an employee physical harm while in the work-environment is considered to be work-related. This means that an injury may occur in a derailment or it may be associated with routine activity, such as, the throwing of switches.
- 2) All employees, regardless of occupation or location of work assignment are covered by the rules. This includes every employee; from members of train crews and maintenance workers, to employees who work in office environments.
- 3) The physical harm sustained by an employee does not need to be major in nature, but there are certain consequences that must occur in order for an injury to be reportable. These are:
 - i) treatment beyond first aid was required (28.2% in 1986);
 - ii) the injury caused the employee to be absent from work for at least one day (57.4% in 1986);
 - iii) the injury caused the employee to be restricted in the performance of his work (14.5% in 1986).

An example of the types of injuries reported can be found in this year's bulletin. In 1986, 45% of all injuries were sprains and strains, 18% were bruises and contusions, and 14% were cuts and lacerations. These injuries accounted for 77% of the total. Many 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 6% of the total employee injuries. In 58% 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 8%, respectively, of all injuries reported in 1986.

There is a common perception that most employee injuries occur in connection with the movement of on-track equipment. Approximately 84%, however, involve other circumstances. There were 18,601 employees hurt in 1986 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 66% of these injuries.

1. HISTORICAL TRENDS, LAST 6 YEARS

OPERATIONS

TABLE 1. RAILROAD OPERATIONAL PROFILE

Year	Man-Hours	Motor Train-Miles	Yard Switching Miles	Locomotive Miles	Total Train-Miles
1981	949,204	30,301	164,754	481,161	676,216
1982	801,442	27,359	133,424	412,586	573,369
1983	730,001	27,787	122,234	408,170	558,191
1984	742,802	31,798	126,465	434,336	592,599
1985	696,911	32,457	117,059	421,395	570,911
1986	644,351	34,015	108,258	424,825	567,098

NOTE: All figures shown in thousands

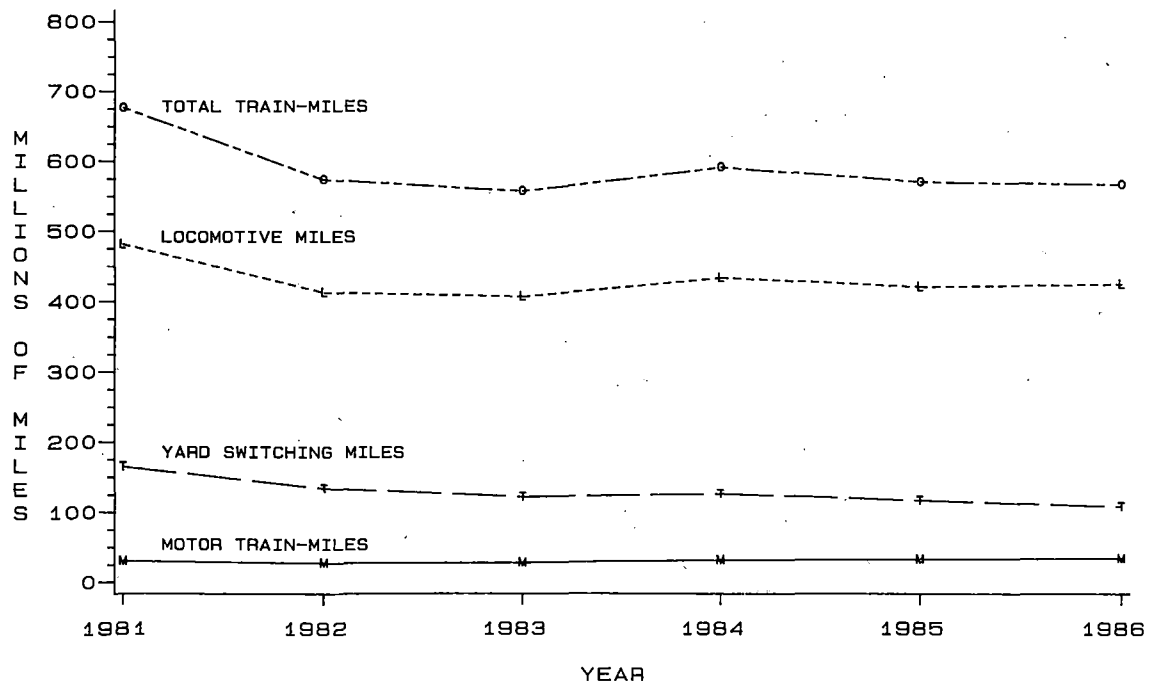


FIGURE 1. RAILROAD TRAIN-MILES

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

1981	910.2
1982	797.8
1983	826.2
1984	921.5
1985	877.0
1986	874.2

1986 figures are preliminary



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES

TRAIN ACCIDENTS

TABLE 3. TRAIN ACCIDENT CAUSES

<u>Year</u>	<u>Human Factors</u>	<u>Mechanical & Electrical Failures</u>	<u>Track Defects</u>	<u>Other</u>	<u>Total Accidents</u>
1981	1,597	1,016	2,273	895	5,781
1982	1,284	796	1,769	740	4,589
1983	1,101	638	1,581	586	3,906
1984	1,100	661	1,481	658	3,900
1985	999	559	1,280	592	3,430
1986	816	433	1,016	496	2,761

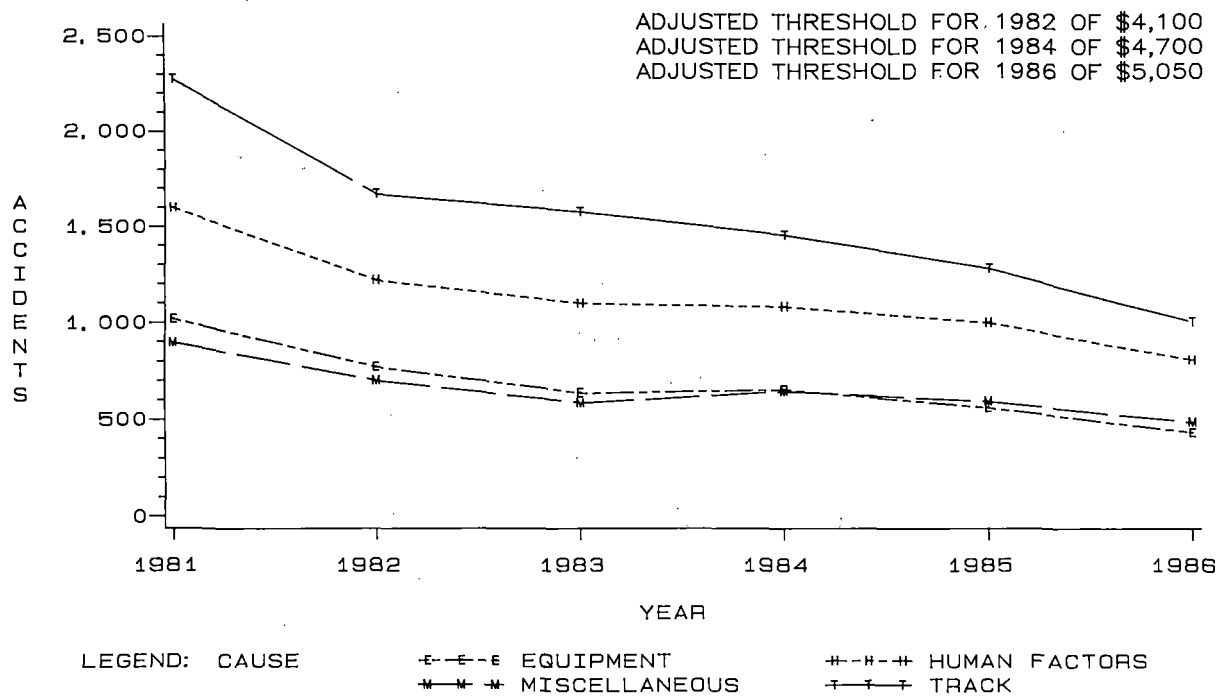


FIGURE 3A. ACCIDENT CAUSES - ADJUSTED

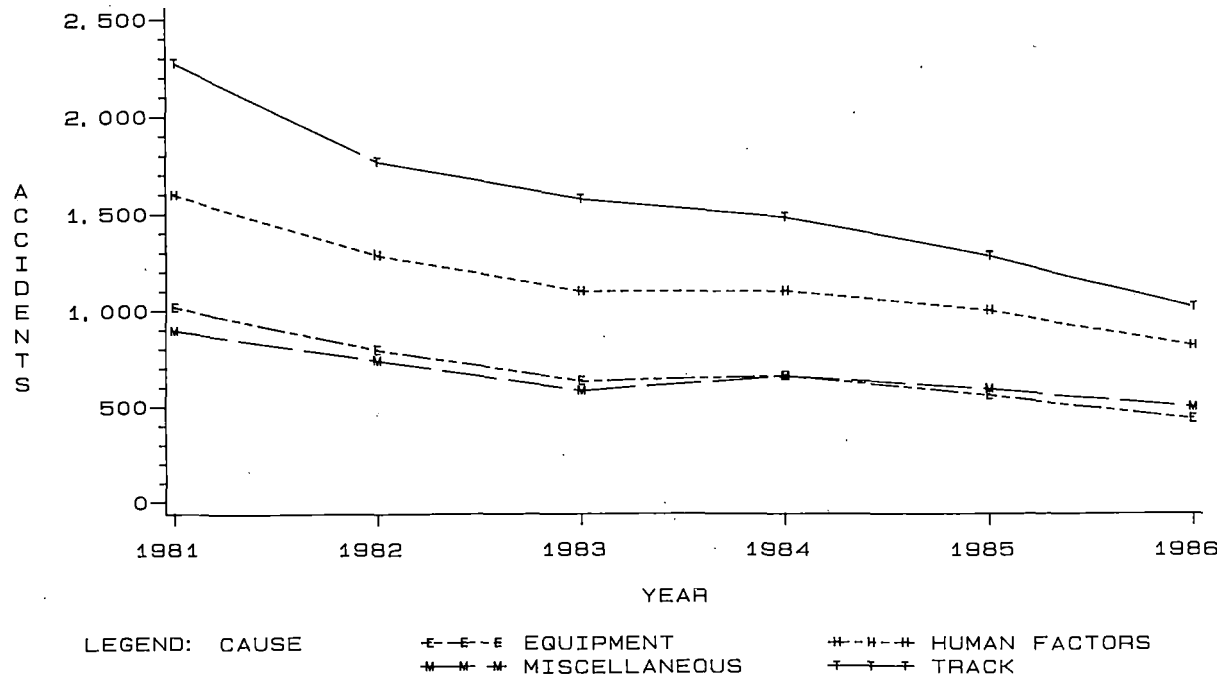


FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED

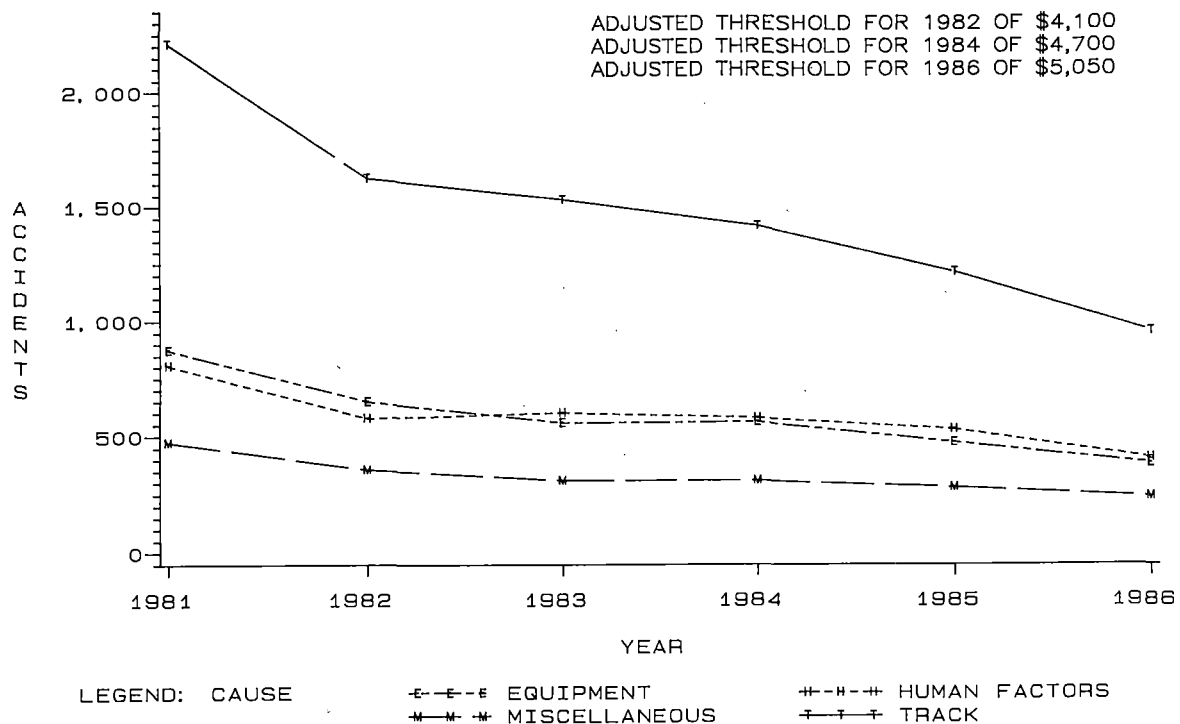


FIGURE 4A. DERAILMENT CAUSES - ADJUSTED

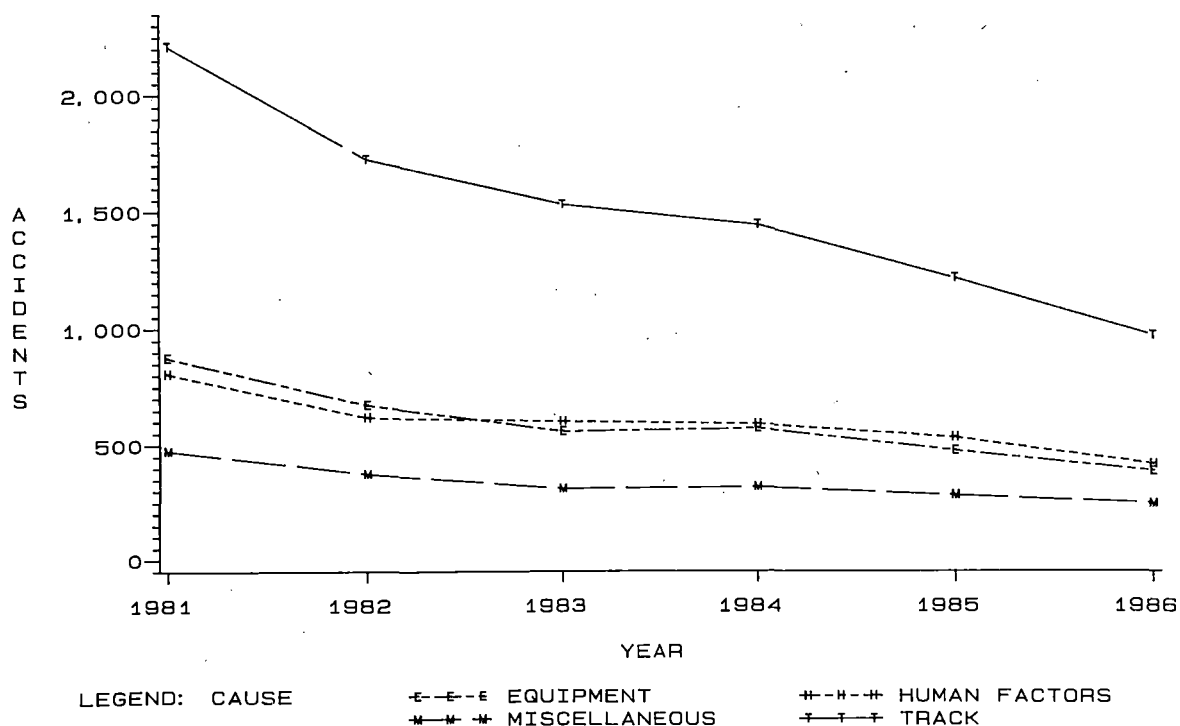


FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED

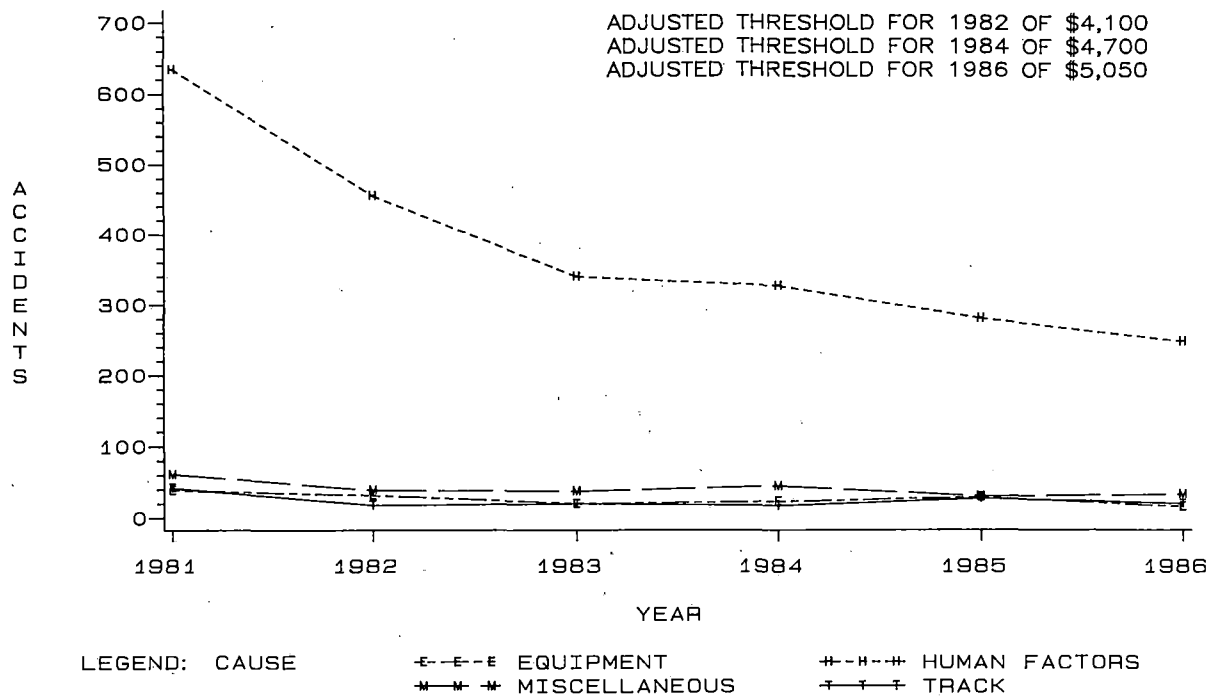


FIGURE 5A. COLLISION CAUSES - ADJUSTED

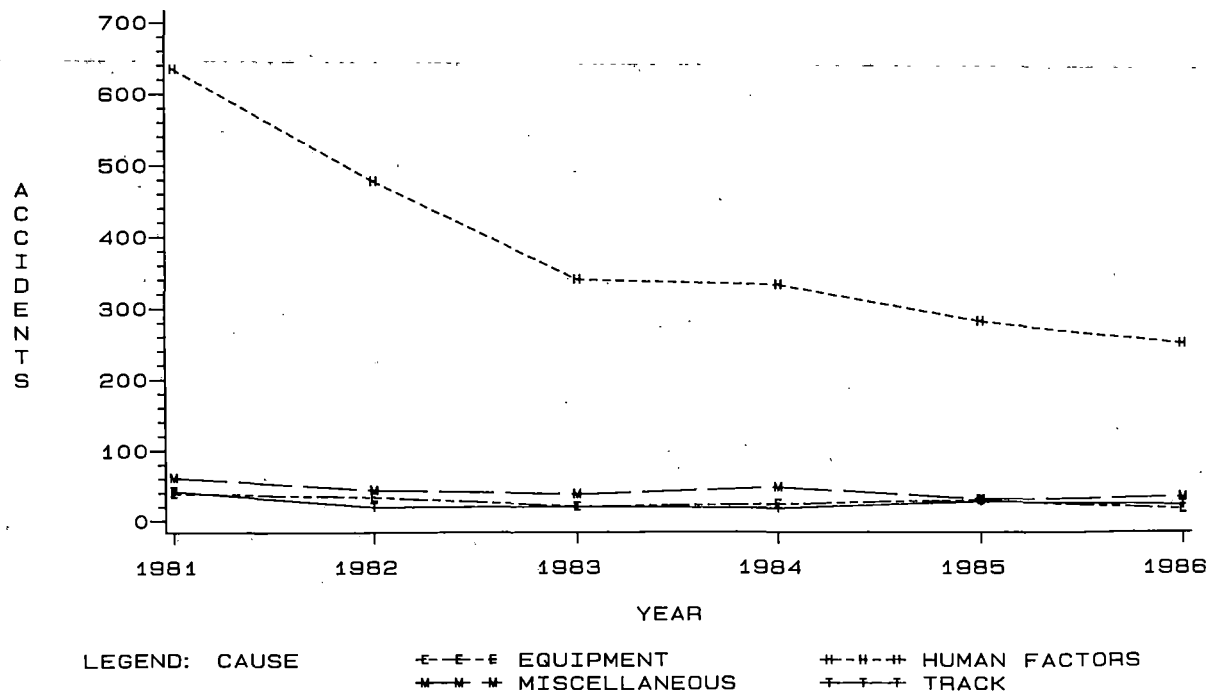


FIGURE 5B. COLLISION CAUSES - UNADJUSTED

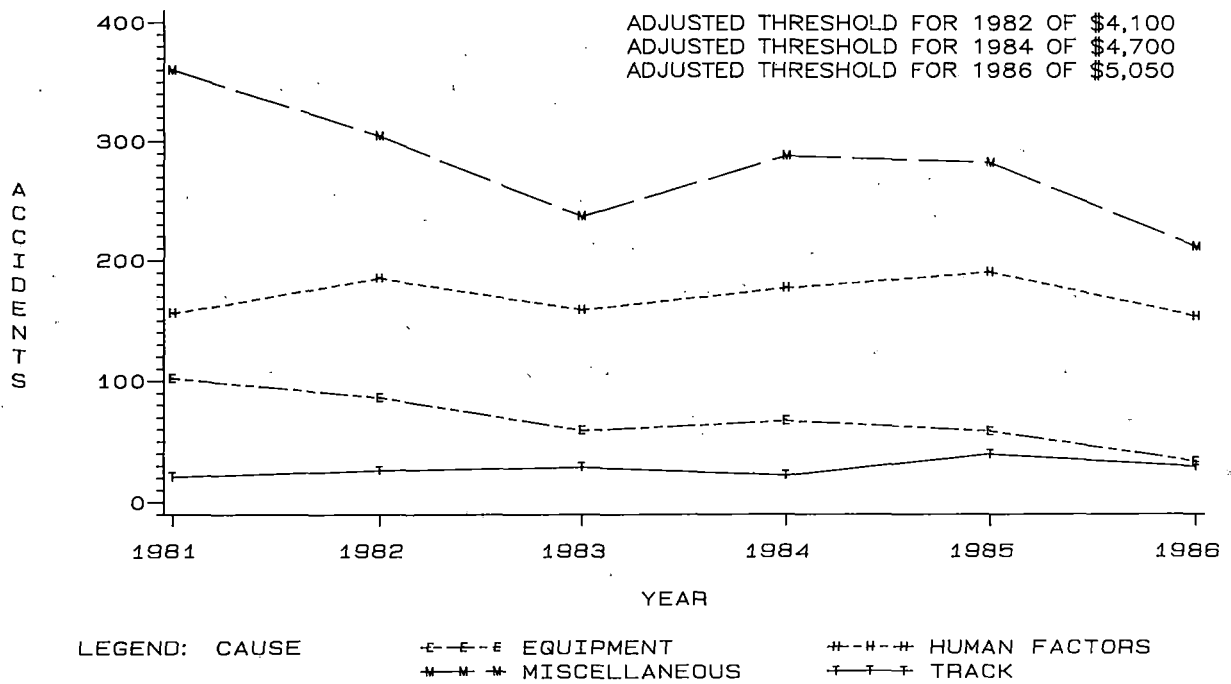


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - ADJUSTED

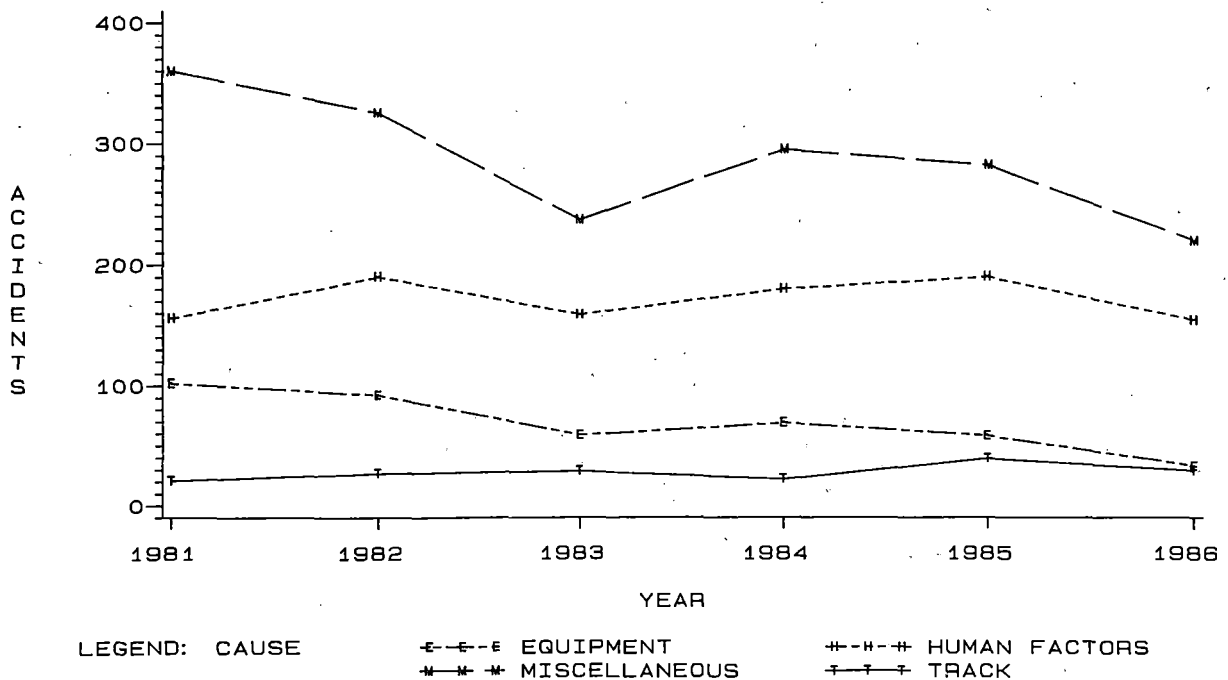


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - UNADJUSTED

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

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/ Million Train-Miles
1981	5,781	237,514,603	41,085	351,240	8.55
1982	4,589	222,215,592	48,424	387,561	8.00
1983	3,906	208,350,456	53,341	373,261	7.00
1984	3,900	240,462,514	61,657	405,775	6.58
1985	3,430	188,017,822	54,816	329,330	6.01
1986	2,761	167,549,306	60,684	295,450	4.87

TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/ Million Train-Miles
COLLISIONS					
1981	776	24,814,627	31,978	36,696	1.15
1982	572	25,730,567	44,984	44,876	1.00
1983	418	27,476,243	65,733	49,224	.75
1984	419	30,185,019	72,041	50,937	.71
1985	366	21,785,209	59,522	38,159	.64
1986	320	14,945,554	46,705	26,308	.56
DERAILMENTS					
1981	4,366	184,299,946	42,213	272,546	6.46
1982	3,383	174,930,472	51,709	305,093	5.90
1983	3,004	164,659,964	54,814	294,989	5.38
1984	2,915	190,265,177	65,271	321,068	4.92
1985	2,495	145,634,901	58,371	255,092	4.37
1986	2,006	135,903,081	67,748	239,224	3.54
OTHER					
1981	639	28,400,030	44,444	41,998	.94
1982	634	21,554,553	33,998	37,593	1.11
1983	484	16,214,249	33,501	29,048	.87
1984	566	20,012,318	35,357	33,770	.96
1985	569	20,597,712	36,200	36,079	1.00
1986	435	16,700,671	38,392	29,397	.77

TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

Year	Total Accidents	Total Damage (\$)	Average Damage (\$)	Damage/Million Train-Miles (\$)	Accidents/ Million Train-Miles
HUMAN FACTORS					
1981	1,597	48,474,562	30,354	71,685	2.36
1982	1,284	41,815,988	32,567	72,930	2.24
1983	1,101	48,359,615	43,923	86,636	1.97
1984	1,100	54,963,882	49,967	92,750	1.86
1985	999	46,566,550	46,613	81,565	1.75
1986	816	36,994,772	45,337	65,235	1.44
EQUIPMENT FAILURES					
1981	1,016	60,480,146	59,528	89,439	1.50
1982	796	58,323,219	73,270	101,720	1.39
1983	638	50,293,734	78,830	90,101	1.14
1984	661	56,137,827	84,929	94,731	1.12
1985	559	47,584,553	85,124	83,349	.98
1986	433	42,162,233	97,372	74,216	.76
TRACK DEFECTS					
1981	2,273	79,997,917	35,195	118,302	3.36
1982	1,769	83,108,370	46,980	144,948	3.09
1983	1,581	83,340,024	52,713	149,304	2.83
1984	1,481	84,215,013	56,864	142,111	2.50
1985	1,280	59,720,068	46,656	104,605	2.24
1986	1,016	48,459,373	47,696	85,301	1.79
OTHER					
1981	895	48,561,978	54,259	71,814	1.32
1982	740	38,968,015	52,659	67,963	1.29
1983	586	26,357,083	44,978	47,219	1.05
1984	658	45,145,792	68,611	76,183	1.11
1985	592	34,146,651	57,680	59,811	1.04
1986	496	39,932,928	80,510	70,292	.87

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

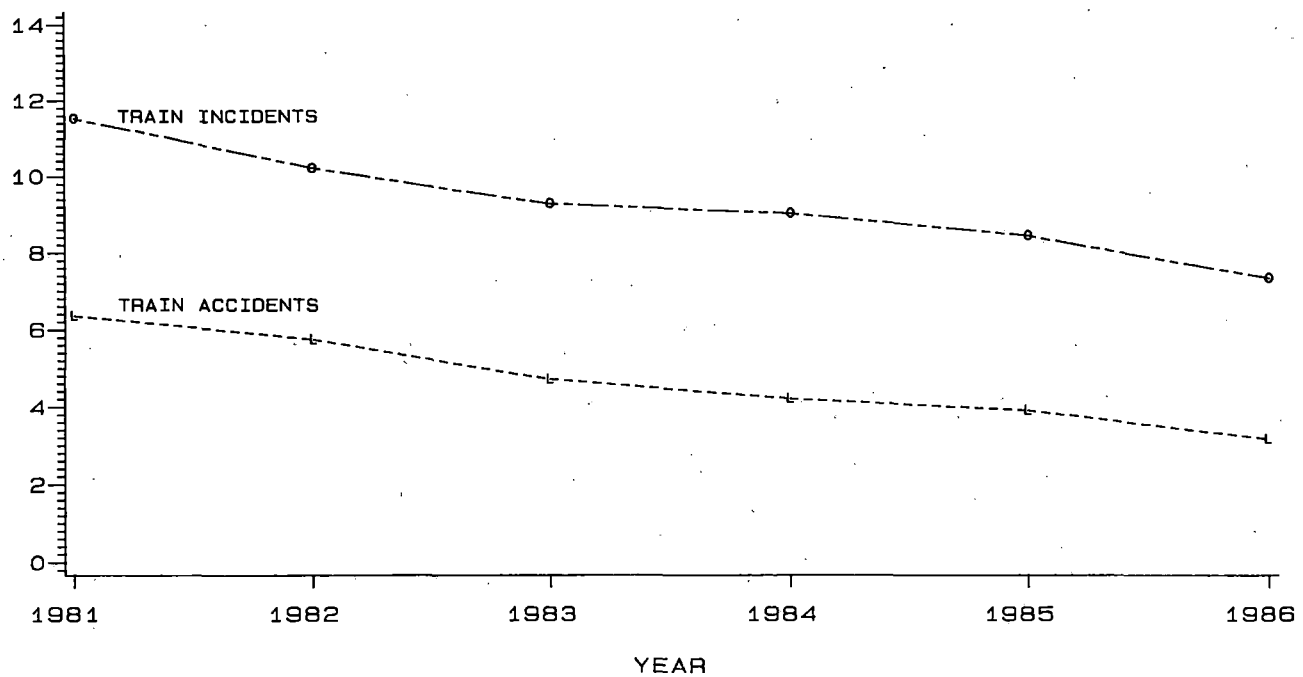


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

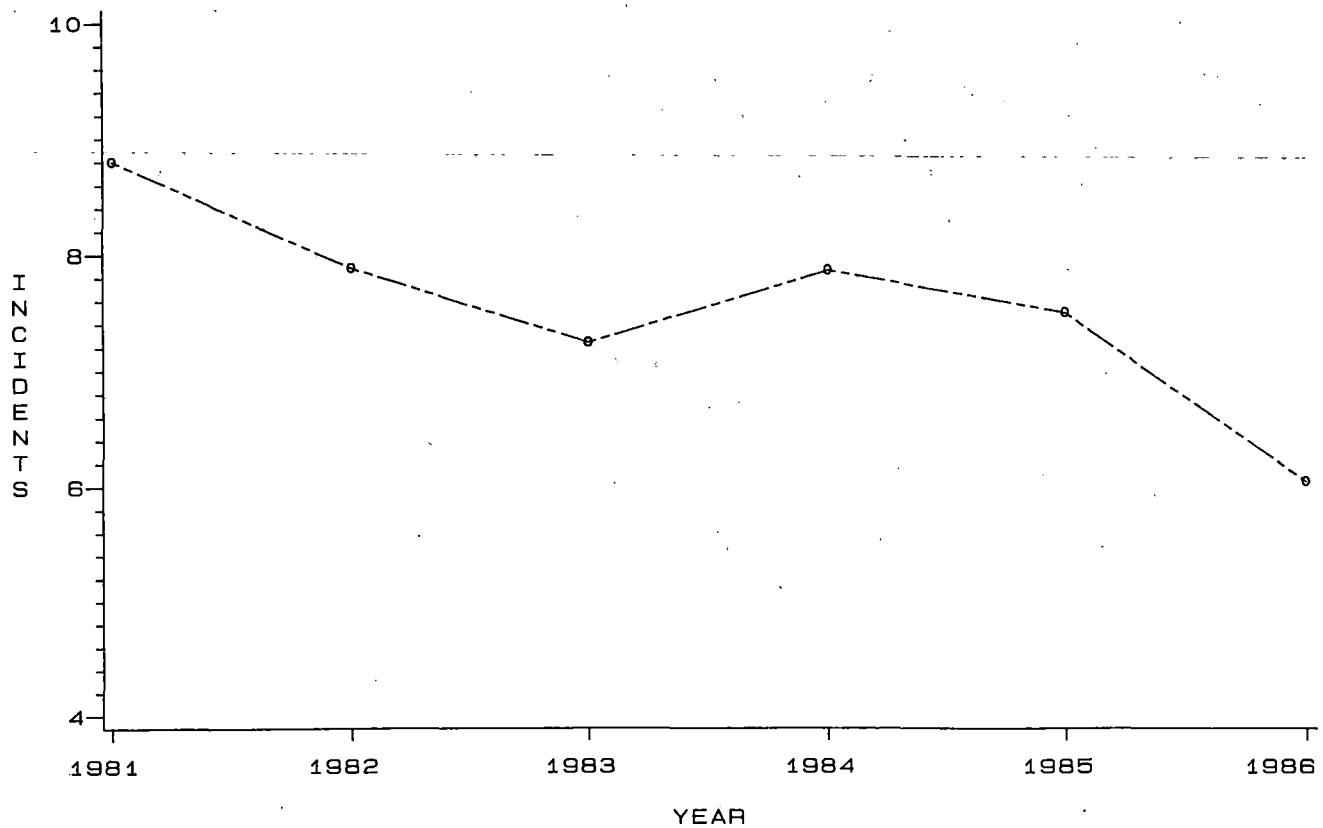


FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE 7. TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1981	5,781	10,485	41,757	58,023
1982	4,589	8,147	31,606	44,342
1983	3,906	7,695	26,485	38,086
1984	3,900	8,346	29,256	41,502
1985	3,430	7,418	26,146	36,994
1986	2,761	6,407	19,455	26,623

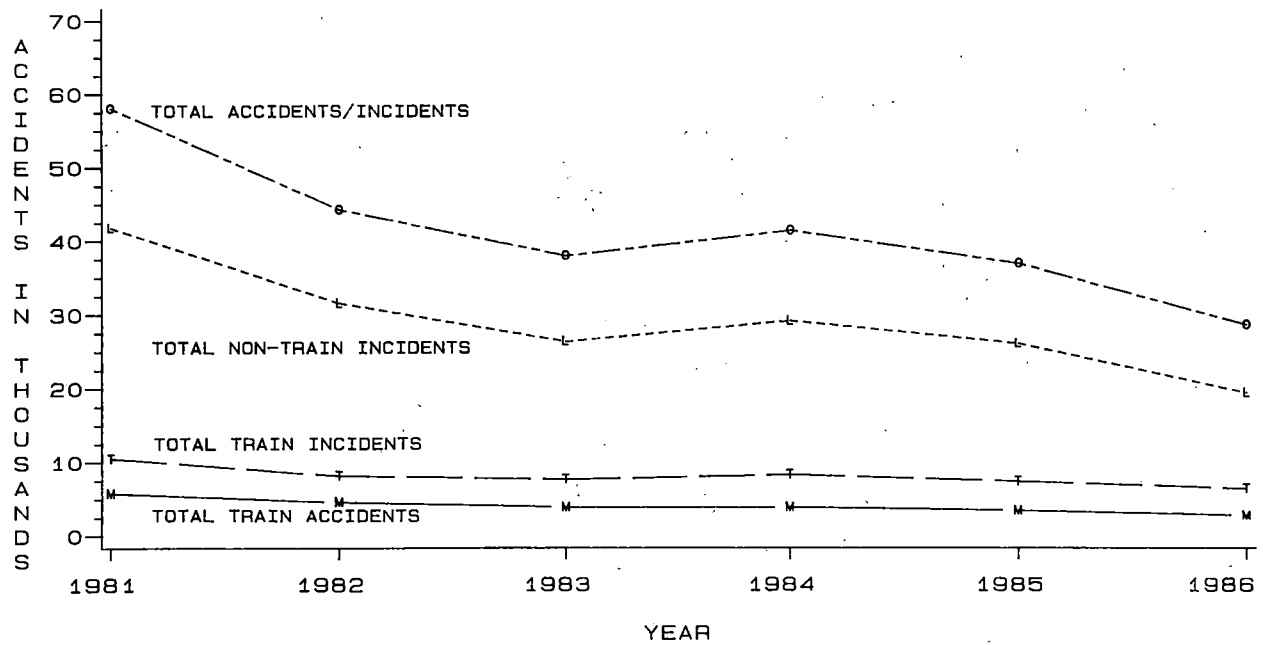


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS

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

Class of Acc/Inc by Year	Casualties.....			Accidents	Casualties per Million Train Miles
	Fatal	Nonfatal	Total		
TRAIN ACCIDENTS					
1981	63	562	625	5,781	.92
1982	49	472	521	4,589	.91
1983	56	502	558	3,906	1.00
1984	63	893	956	3,900	1.61
1985	52	647	699	3,430	1.13
1986	51	1,117	1,168	2,761	2.06
TRAIN INCIDENTS					
1981	1,157	10,505	11,662	10,485	17.25
1982	1,004	8,026	9,030	8,147	15.75
1983	966	7,642	8,608	7,695	15.42
1984	1,118	8,245	9,363	8,346	15.80
1985	930	7,384	8,314	7,418	14.56
1986	980	6,256	7,236	6,407	12.74
NONTRAIN INCIDENTS					
1981	64	41,936	42,000	41,757	62.11
1982	66	31,777	31,843	31,606	55.54
1983	51	26,675	26,726	26,485	47.88
1984	66	29,432	29,498	29,256	49.78
1985	54	26,273	26,327	26,146	46.11
1986	60	19,550	19,610	19,455	34.52
ALL ACCIDENTS					
1981	1,284	53,003	54,287	58,023	80.28
1982	1,119	40,275	41,394	44,342	72.19
1983	1,073	34,819	35,892	38,086	64.30
1984	1,247	38,570	39,817	41,502	67.19
1985	1,036	34,304	35,340	36,994	61.90
1986	1,091	26,923	28,014	26,623	49.31

TABLE 9. CASUALTIES BY TYPE OF PERSON

Year	Employees On Duty		Employees Not On Duty		Passengers On Trains		Nontrespassers		Trespassers		Contractor Employees		Total	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
1981	65	47,838	2	645	4	409	626	3,278	582	761	5	72	1,284	53,003
1982	78	36,032	2	509	9	387	525	2,595	501	671	4	81	1,119	40,275
1983	61	30,416	3	395	4	502	527	2,728	472	683	6	95	1,073	34,819
1984	59	33,364	5	444	12	1,000	576	2,881	588	773	7	108	1,247	38,570
1985	46	29,822	2	419	3	657	507	2,562	474	734	4	110	1,036	34,304
1986	57	22,387	2	384	4	686	505	2,639	519	706	4	121	1,091	26,923

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

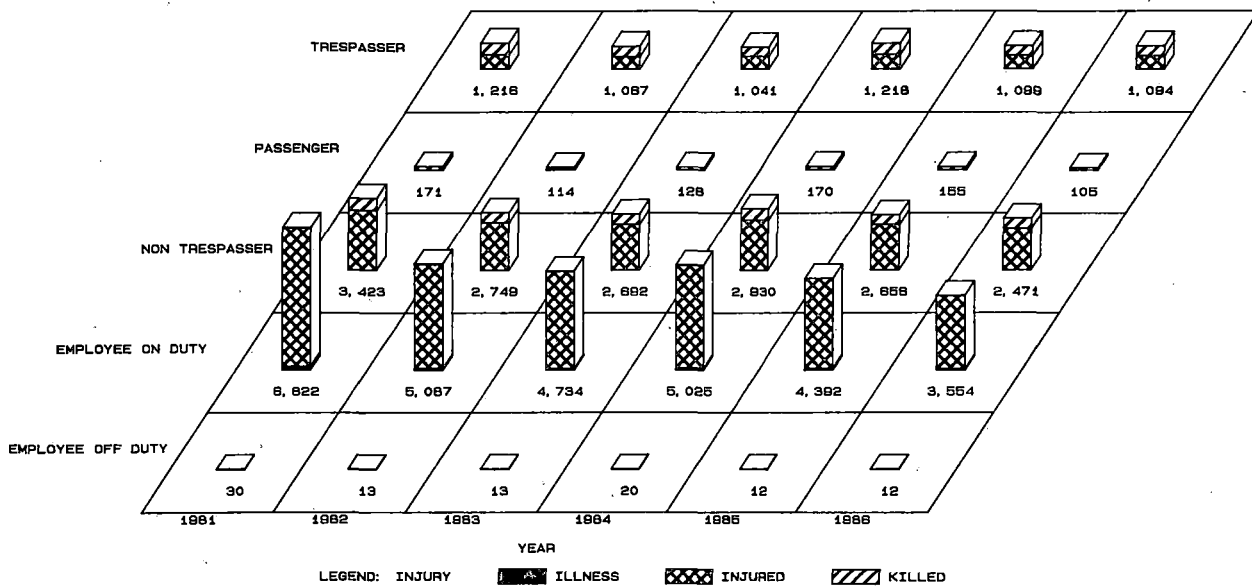


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS

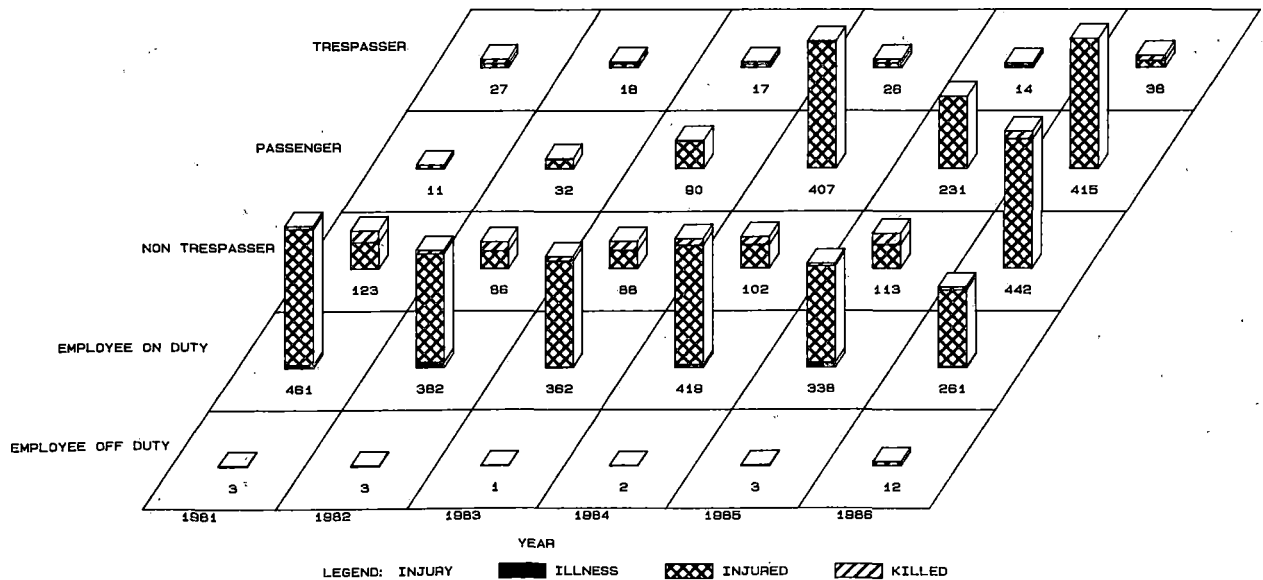


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS

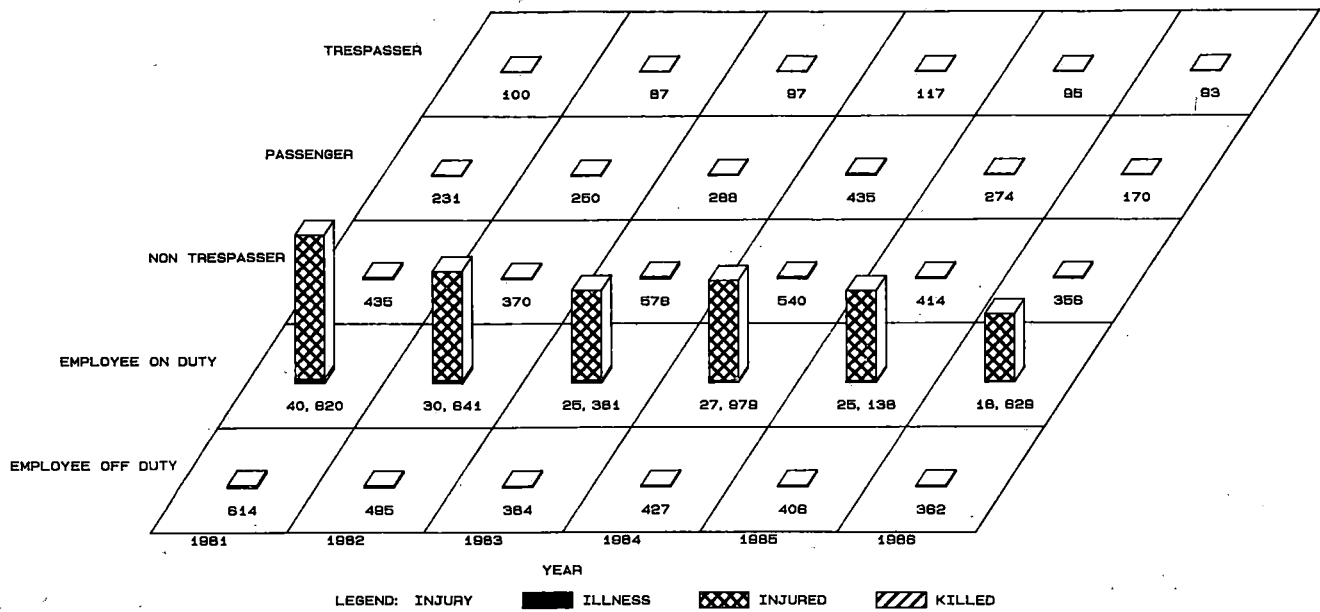


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS

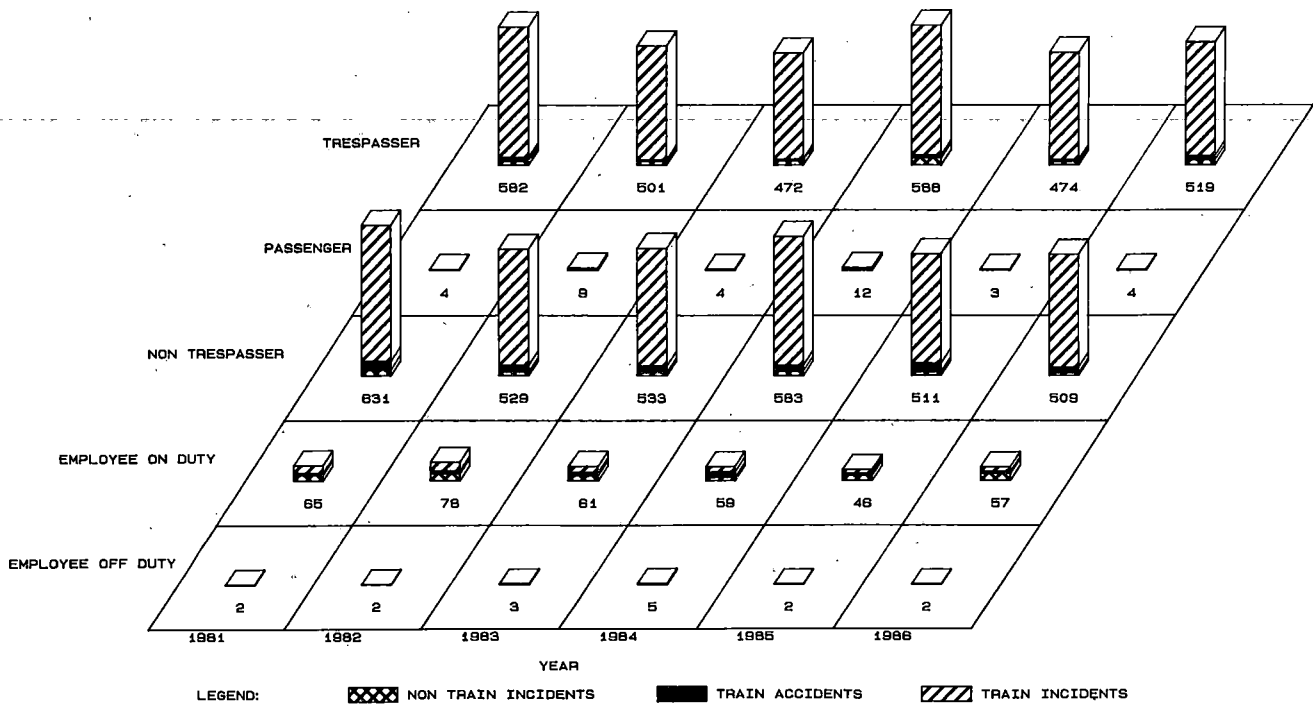


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS

2. OVERVIEW OF 1986 DATA

SPEED FACTOR IN ACCIDENTS

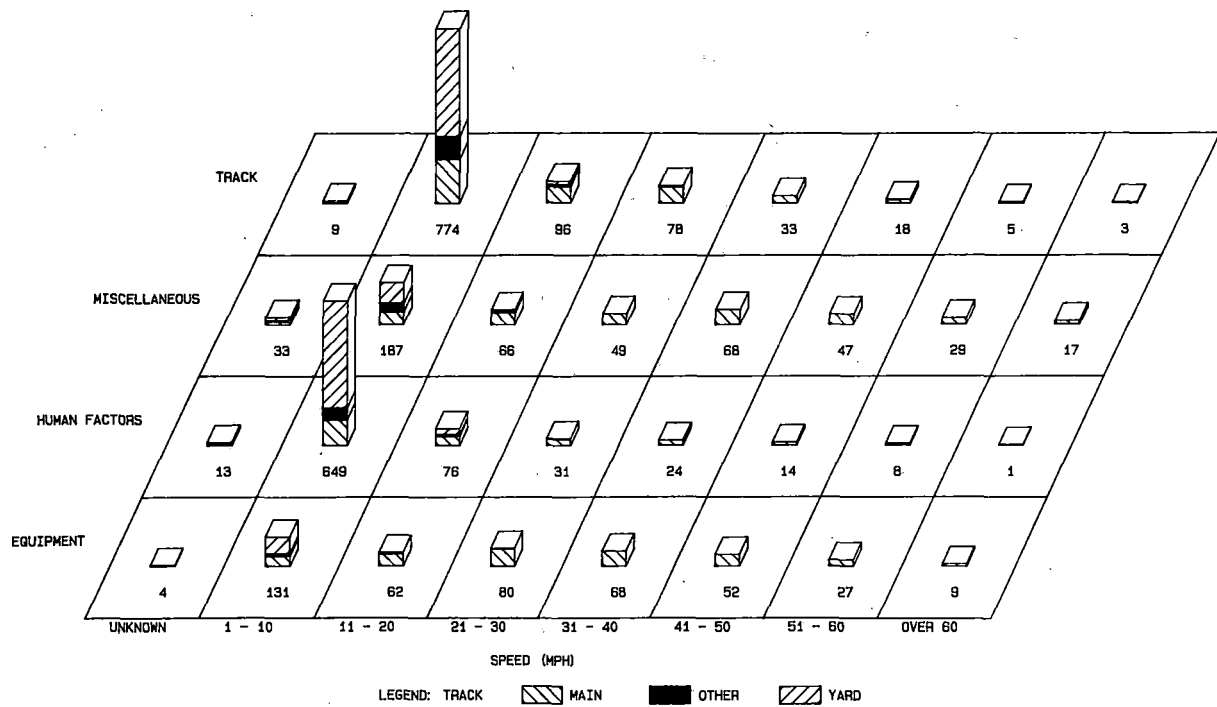


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

TABLE 10. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
ACCIDENTS ON MAIN LINE TRACK											
UNKNOWN	17	405,062	366,062	39,000	3	5	9	3	2	1	11
1-10	413	13,583,857	8,382,352	5,201,505	28	346	39	196	45	115	57
11-20	219	12,668,630	9,610,200	3,058,430	16	182	21	71	55	41	52
21-30	225	21,528,031	16,723,775	4,804,256	11	176	38	72	78	27	48
31-40	191	39,152,008	33,140,767	6,011,241	12	129	50	32	68	24	67
41-50	128	31,262,220	27,842,903	3,419,317	3	84	41	16	52	13	47
51-60	69	12,693,102	10,313,835	2,379,267	1	47	21	5	27	8	29
61-70	19	3,692,850	3,396,461	296,389	1	6	12	3	6	1	9
71-80	9	248,419	231,100	17,319	---	---	9	---	1	---	8
81-90	2	52,600	48,300	4,300	---	---	2	---	2	---	---
TOTAL	1,292	135,286,779	110,055,755	25,231,024	75	975	242	398	336	230	328
ACCIDENTS ON YARD TRACK											
UNKNOWN	32	611,970	564,038	47,932	3	9	20	5	1	10	16
1-10	1,124	21,265,239	16,844,075	4,421,164	210	782	132	477	74	481	92
11-20	53	1,722,378	1,341,028	381,350	8	37	8	15	5	25	8
21-30	9	387,559	315,500	72,059	2	7	---	3	2	3	1
31-40	1	16,000	16,000	---	---	---	1	---	---	---	1
41-50	2	45,285	44,075	1,210	1	1	---	1	---	1	---
TOTAL	1,221	24,048,431	19,124,716	4,923,715	224	836	161	501	82	520	118
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	10	279,755	257,838	21,917	1	4	5	1	1	2	6
1-10	204	5,111,445	4,279,824	831,621	17	164	23	101	12	53	38
11-20	28	2,339,021	2,057,634	281,387	2	22	4	10	2	10	6
21-30	4	228,025	174,925	53,100	1	3	---	3	---	1	---
31-40	1	249,800	177,800	72,000	---	1	---	1	---	---	---
41-50	1	6,050	3,350	2,700	---	1	---	1	---	---	---
TOTAL	248	8,214,096	6,951,371	1,262,725	21	195	32	117	15	66	50
FINAL	2,761	167,549,306	136,131,842	31,417,464	320	2,006	435	1,016	433	816	496

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

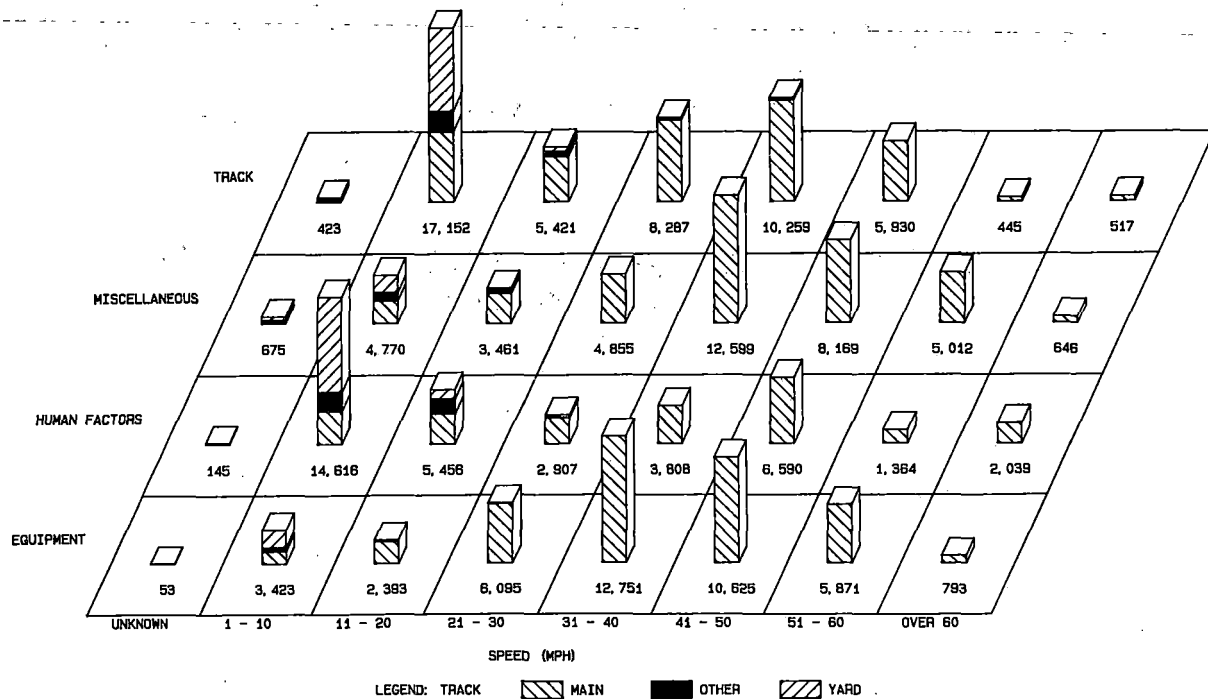


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

ACCIDENTS AND TRACK TYPE

TABLE 11. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

TRACK CLASS	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
?	208	7,068,277	5,597,624	1,470,653	19	148	41	83	27	71	27
1	1,308	30,276,600	23,022,480	7,254,120	205	966	137	575	93	475	165
2	477	26,616,858	21,503,121	5,113,737	54	358	65	192	73	136	76
3	398	36,706,904	28,897,281	7,809,623	21	281	96	105	110	73	110
4	331	59,731,195	50,784,444	8,946,751	19	236	76	56	115	53	107
5	30	6,789,187	6,115,592	673,595	2	14	14	4	9	8	9
6	9	360,285	211,300	148,985	—	3	6	1	6	—	2
TOTAL	2,761	167,549,306	136,131,842	31,417,464	320	2,006	435	1,016	433	816	496

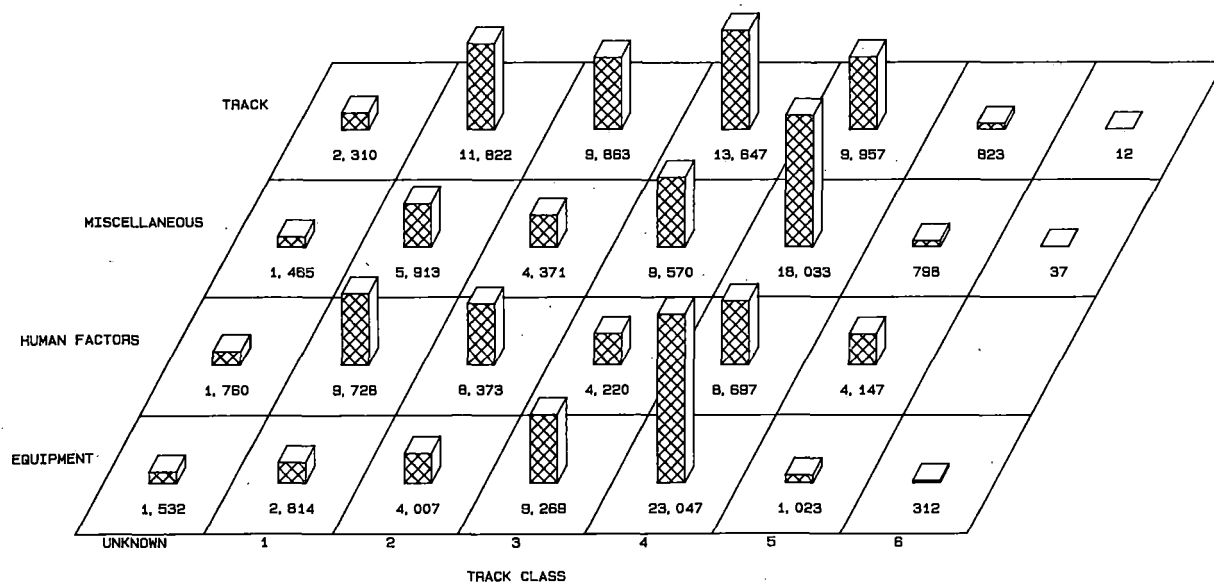


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

CAUSE BY TYPE OF ACCIDENT

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

Type of Accident	...Track Caused...		.Equipment Caused.		...Human Factors...		...Other Causes...		Total Damage.....	
	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg
Derailment	9,143,983	37,311,104	9,060,573	30,866,378	4,246,311	17,288,228	5,915,279	22,071,225	28,366,146	107,536,935
Head on collision	3,400	30,000	---	---	93,864	5,190,980	12,100	175,800	109,364	5,396,780
Rear end collision	6	366,240	---	---	109,262	2,117,138	700	399,100	109,968	2,882,478
Side collision	37,447	587,450	48,918	252,800	200,435	3,268,065	39,129	445,402	325,929	4,553,717
Raking collision	---	19,000	---	7,600	22,246	265,680	217,038	153,945	239,284	446,225
Broken trn collision	---	---	88,577	663,382	3,900	125,950	---	---	92,477	789,332
Rail-hwy crossing	---	---	---	---	---	---	945,762	6,274,500	945,762	6,274,500
RR grade crossing	---	---	---	---	---	---	---	---	---	---
Obstruction	---	---	---	---	47,849	505,980	66,701	188,408	114,550	694,388
Explosion-detonation	---	---	---	---	---	---	---	---	---	---
Fire/violent rupture	---	8,000	200,086	542,684	400	---	9,121	641,724	209,607	1,192,408
Other	409,517	543,226	73,186	358,049	244,947	3,263,537	176,727	2,200,267	904,377	6,365,079
TOTAL.....	9,594,353	38,865,020	9,471,340	32,690,893	4,969,214	32,025,558	7,382,557	32,550,371	31,417,464	136,131,842

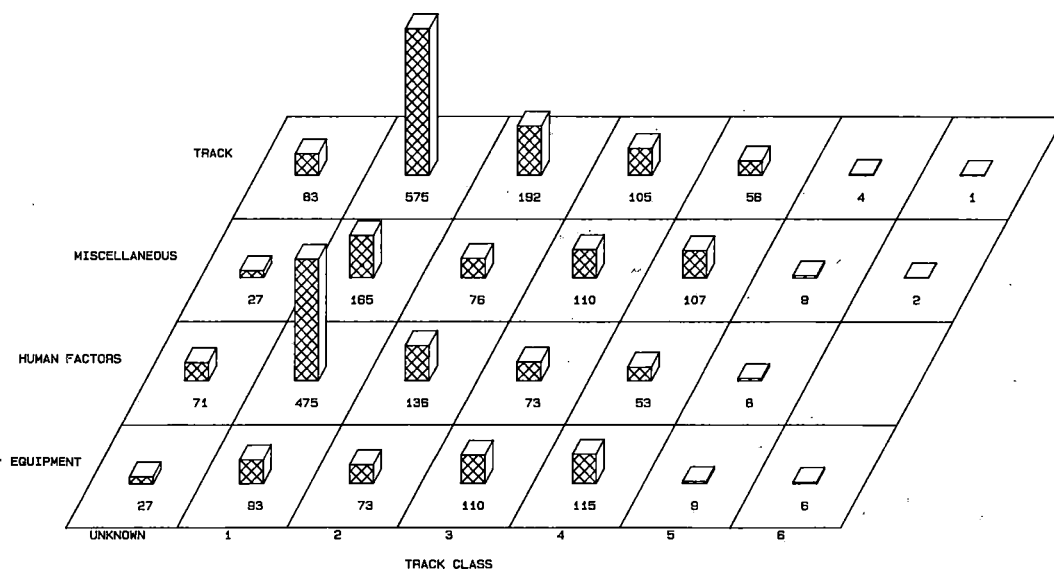


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

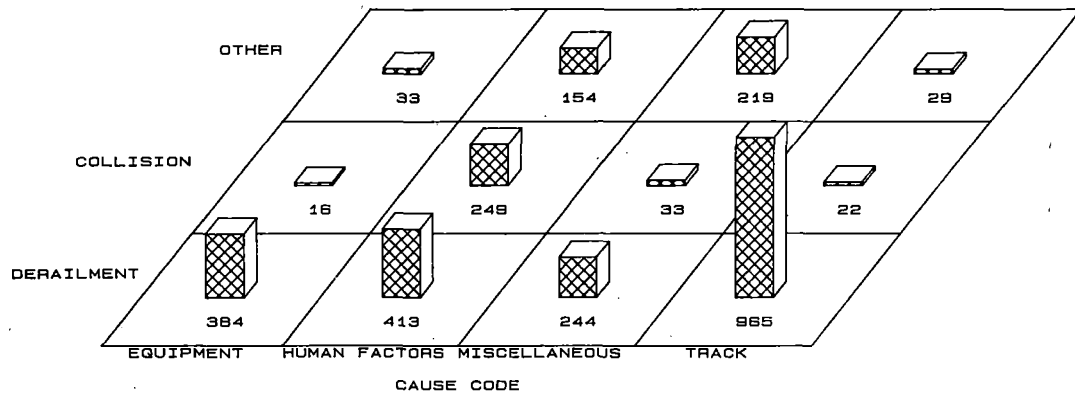
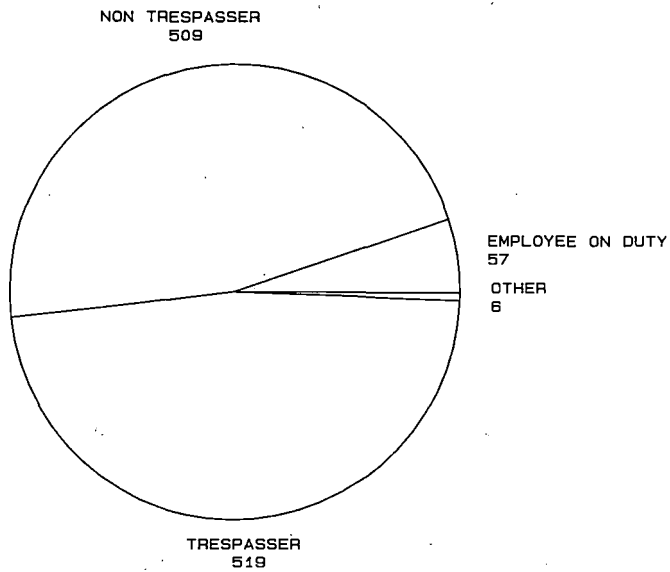
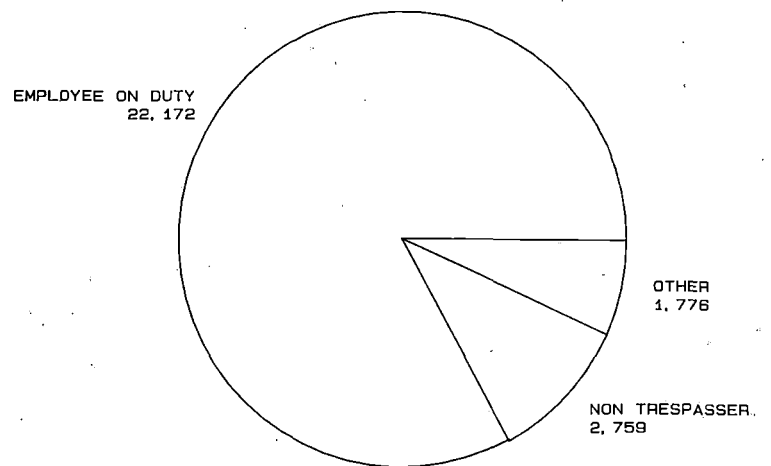


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON



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



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

TABLE 13. CASUALTIES BY TYPE OF PERSON

	Employees On Duty	Employees Not On Duty	Passengers On Trains	Non- trespassers	Trespassers	Contractor Employees	Total
TRAIN ACCIDENTS							
Fatalities.....	8	---	---	---	5	---	13
Injuries.....	215	12	354	365	1	---	947
Occupational illnesses...	1	---	---	---	---	---	1
Total casualties.....	224	12	354	365	6	---	961
TRAIN INCIDENTS							
Fatalities.....	19	1	4	9	372	1	406
Injuries.....	3,432	11	99	41	390	11	3,984
Occupational illnesses...	38	---	---	---	---	---	38
Total casualties.....	3,489	12	103	50	762	12	4,428
NONTRAIN INCIDENTS							
Fatalities.....	28	1	---	3	21	3	56
Injuries.....	18,425	361	170	184	69	109	19,318
Occupational illnesses...	176	---	---	---	---	1	177
Total casualties.....	18,629	362	170	187	90	113	19,551
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities.....	2	---	---	493	121	---	616
Injuries.....	100	---	63	2,049	246	---	2,458
Occupational illnesses...	---	---	---	---	---	---	---
Total casualties.....	102	---	63	2,542	367	---	3,074
GRAND TOTAL							
Fatalities.....	57	2	4	505	519	4	1,091
Injuries.....	22,172	384	686	2,639	706	120	26,707
Occupational illnesses...	215	---	---	---	---	1	216
Total casualties.....	22,444	386	690	3,144	1,225	125	28,014

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

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

TABLE 14. TOTAL FATALITIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Killed	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS							
Collisions	6	6	---	6	---	---	---
Derailments	7	2	---	2	---	---	5
Rail-highway x-ing	38	2	---	2	---	24	12
Miscellaneous	---	---	---	---	---	---	---
Total.....	51	10	---	10	---	24	17
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	2	2	---	2	---	---	---
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..	2	1	---	1	---	1	---
Getting on or off cars or locomotives.....	9	---	---	1	1	---	7
Collisions, derailments, etc. (<= \$4,901).....	7	1	---	1	---	1	5
Rail-highway crossing accidents/incidents.....	574	---	---	---	---	465	109
Struck by/ran into loco/car(not at rr-hwy x-ing).	370	5	4	9	---	8	353
Servicing or maintenance of equipment.....	2	---	2	2	---	---	---
Maintenance of way and structures.....	2	---	2	2	---	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	1	---	---	---	---	---	1
Stumbling, slipping, falling, caught, N.O.C.....	2	---	---	---	1	---	1
Flying or falling objects, burns, etc., N.O.C....	1	---	---	---	---	---	1
Operation of on-track work equipment.....	1	---	1	---	---	---	---
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	7	1	---	1	2	---	4
Total.....	980	10	9	19	1	475	481
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	1	1	---	1	---	---	---
Contacting fixed objects while on locos or cars..	1	---	1	1	---	---	---
Getting on or off cars or locomotives.....	1	1	---	1	---	---	---
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	4	---	---	---	---	4	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	1	---	---	1	---	---	---
Servicing or maintenance of equipment.....	6	---	6	6	---	---	---
Maintenance of way and structures.....	8	---	7	7	---	1	---
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	2	---	---	---	---	2	---
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	8	1	---	1	---	---	7
Flying or falling objects, burns, etc., N.O.C....	15	1	2	3	---	2	10
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	1	---	1	---	---	---	---
Other occurrences.....	12	---	7	7	---	1	4
Total.....	60	4	24	28	1	10	21
Grand total.....	1,091	24	33	57	2	509	519

TABLE 15. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS								
Collisions	208	72	7	79	12	117	---	---
Derailments	707	66	39	105	---	236	365	1
Rail-highway x-ing	169	35	---	35	---	61	53	20
Miscellaneous	33	18	14	32	---	1	---	---
Total.....	1,117	191	60	251	12	415	418	21
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	233	223	10	233	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	26	25	1	26	---	---	---	---
Operating or on locomotives.....	643	627	14	641	2	---	---	---
Operating rail motorcars.....	19	2	17	19	---	---	---	---
Operating hand brakes.....	112	111	1	112	---	---	---	---
Operating switches or derails.....	40	39	---	39	1	---	---	---
Contacting fixed objects while on locos or cars..	109	90	13	103	---	4	---	2
Getting on or off cars or locomotives.....	858	752	16	768	2	29	4	55
Collisions, derailments, etc. (<= \$4,901).....	100	68	14	82	1	---	10	7
Rail-highway crossing accidents/incidents.....	2,234	44	21	65	---	2	1,944	223
Struck by/ran into loco/car(not at rr-hwy x-ing).	361	18	11	29	---	---	23	309
Servicing or maintenance of equipment.....	106	1	105	106	---	---	---	---
Maintenance of way and structures.....	107	2	101	103	1	---	3	---
Freight, baggage, express or mail.....	16	4	12	16	---	---	---	---
Windows, doors, etc., on on-track equipment.....	90	64	12	76	---	13	---	1
Passenger car doors.....	7	4	2	6	---	1	---	---
Stumbling, slipping, falling, caught, N.O.C.....	201	117	36	153	2	31	1	14
Flying or falling objects, burns, etc., N.O.C....	324	284	34	318	---	2	4	---
Operation of on-track work equipment.....	110	14	94	108	---	---	2	---
Assault.....	80	78	---	78	---	2	---	---
Other occurrences.....	480	379	75	454	2	17	5	2
Total.....	6,256	2,946	589	3,535	11	101	1,996	613
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	558	524	32	556	---	---	2	---
Coupling/uncoupling air/steam hose, safety chains.	231	195	36	231	---	---	---	---
Operating or on locomotives.....	408	356	50	406	2	---	---	---
Operating rail motorcars.....	37	10	27	37	---	---	---	---
Operating hand brakes.....	357	340	16	356	1	---	---	---
Operating switches or derails.....	984	924	59	983	---	---	1	---
Contacting fixed objects while on locos or cars..	27	16	9	25	---	1	---	1
Getting on or off cars or locomotives.....	923	641	196	837	8	64	9	5
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	55	---	---	---	---	---	52	3
Struck by/ran into loco/car(not at rr-hwy x-ing).	16	3	---	3	---	---	3	10
Servicing or maintenance of equipment.....	4,702	76	4,586	4,662	34	---	6	---
Maintenance of way and structures.....	6,423	24	6,323	6,347	44	---	31	1
Freight, baggage, express or mail.....	156	7	143	150	---	3	3	---
Windows, doors, etc., on on-track equipment.....	377	156	204	360	4	10	2	1
Passenger car doors.....	14	4	4	8	1	5	---	---
Stumbling, slipping, falling, caught, N.O.C.....	1,696	647	676	1,323	147	65	144	17
Flying or falling objects, burns, etc., N.O.C....	439	234	159	393	8	4	28	6
Operation of on-track work equipment.....	82	---	73	73	6	1	2	---
Assault.....	205	65	120	185	9	6	2	3
Other occurrences.....	1,860	375	1,291	1,666	97	11	61	25
Total.....	19,550	4,597	14,004	18,601	361	170	346	72
Grand total.....	26,923	7,734	14,653	22,387	384	686	2,760	706

TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

Type Of Accident/Incident	Accidents/Incidents.....		
	Total	Fatal	Nonfatal
TRAIN ACCIDENTS *			
Collisions.....	320	3	40
Derailments.....	2,006	6	60
Rail-highway crossing.....	141	31	60
Miscellaneous.....	294	---	20
Total.....	2,761	40	180
TRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	232	2	230
Coupling/uncoupling air/steam hose, safety chains.	26	---	26
Operating or on locomotives.....	628	---	628
Operating rail motorcars.....	17	---	17
Operating hand brakes.....	111	---	111
Operating switches or derails.....	39	---	39
Contacting fixed objects while on locos or cars..	106	2	104
Getting on or off cars or locomotives.....	861	9	852
Collisions, derailments, etc. (<= \$4,901).....	92	6	86
Rail-highway crossing accidents/incidents.....	2,083	457	1,626
Struck by/ran into loco/car(not at rr-hwy x-ing).	709	361	348
Servicing or maintenance of equipment.....	108	2	106
Maintenance of way and structures.....	107	2	105
Freight, baggage, express or mail.....	16	---	16
Windows, doors, etc., on on-track equipment.....	89	---	89
Passenger car doors.....	8	1	7
Stumbling, slipping, falling, caught, N.O.C.....	202	2	200
Flying or falling objects, burns, etc., N.O.C....	320	1	319
Operation of on-track work equipment.....	100	1	99
Assault.....	80	---	80
Other occurrences.....	473	7	466
Total.....	6,407	853	5,554
NONTRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	557	---	557
Coupling/uncoupling air/steam hose, safety chains.	231	---	231
Operating or on locomotives.....	408	---	408
Operating rail motorcars.....	37	---	37
Operating hand brakes.....	355	---	355
Operating switches or derails.....	985	1	984
Contacting fixed objects while on locos or cars..	28	1	27
Getting on or off cars or locomotives.....	924	1	923
Collisions, derailments, etc. (<= \$4,901).....	---	---	---
Rail-highway crossing accidents/incidents.....	41	4	37
Struck by/ran into loco/car(not at rr-hwy x-ing).	17	1	16
Servicing or maintenance of equipment.....	4,695	6	4,689
Maintenance of way and structures.....	6,411	8	6,403
Freight, baggage, express or mail.....	155	---	155
Windows, doors, etc., on on-track equipment.....	379	2	377
Passenger car doors.....	14	---	14
Stumbling, slipping, falling, caught, N.O.C.....	1,700	8	1,692
Flying or falling objects, burns, etc., N.O.C....	444	12	432
Operation of on-track work equipment.....	82	---	82
Assault.....	202	1	201
Other occurrences.....	1,790	12	1,778
Total.....	19,455	57	19,398
Grand total.....	28,623	950	25,132

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

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

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

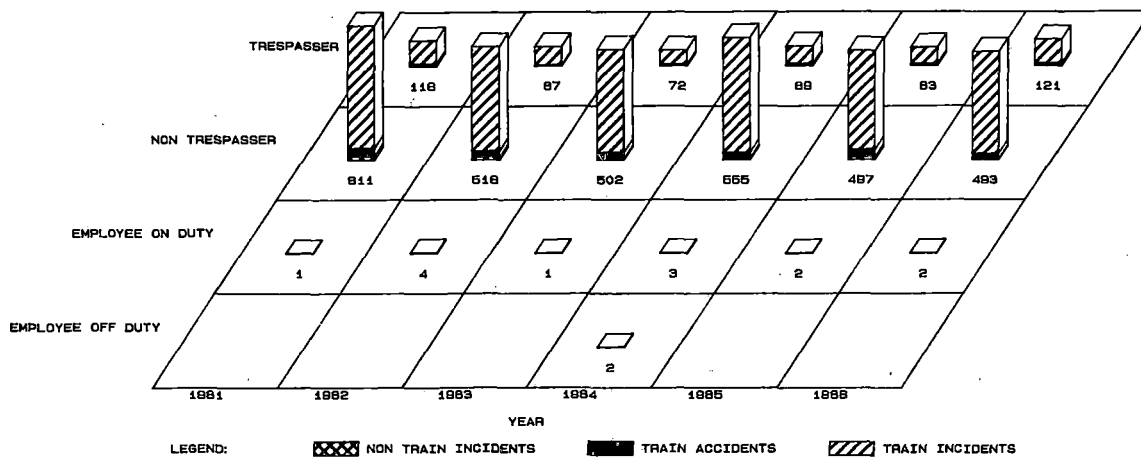


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON

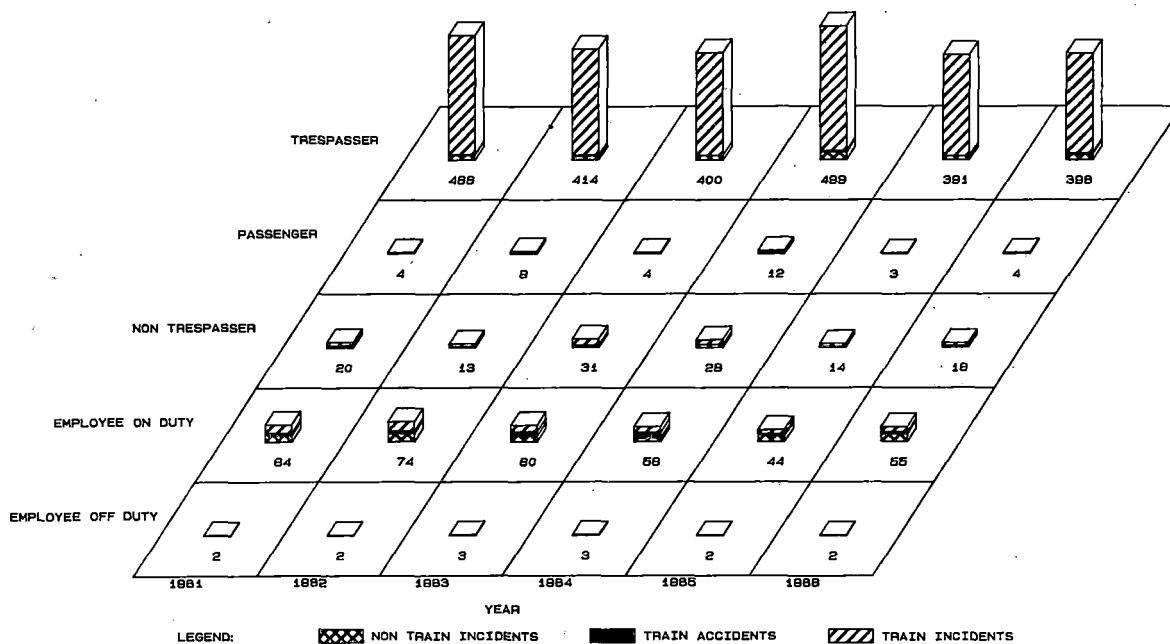


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS

TABLE 17. TRAIN ACCIDENTS BY MONTH

Month	Accs		Total Damage	Damage Per MTM	Train Miles.....			
	Accs	Per MTM			Locomotive	Motor	Yard Switching	Total
January	232	4.90	15,577,638	\$329,121.25	34,975,782	2,781,950	9,573,352	47,331,084
February	221	4.91	11,152,667	\$247,881.11	33,282,228	2,614,289	9,095,132	44,991,649
March	247	5.04	12,798,873	\$260,887.36	37,012,464	2,777,210	9,269,105	49,058,779
April	193	4.10	8,163,230	\$173,320.67	35,049,826	2,659,074	9,390,376	47,099,276
May	230	4.84	15,479,374	\$325,785.54	35,554,488	2,799,806	9,159,417	47,513,711
June	237	5.02	19,376,433	\$410,482.86	35,217,442	2,871,348	9,115,533	47,204,323
July	265	5.69	16,653,643	\$357,758.17	34,777,667	2,977,328	8,794,597	46,549,592
August	216	4.46	17,523,160	\$362,116.10	36,684,630	2,919,727	8,786,251	48,390,608
September	219	4.70	11,167,802	\$239,703.84	34,923,417	2,881,761	8,785,141	46,590,319
October	243	4.92	17,012,096	\$344,304.72	37,236,659	2,950,500	9,222,436	49,409,595
November	233	4.98	13,945,626	\$297,964.36	35,412,664	2,826,605	8,563,548	46,802,817
December	225	4.88	8,698,764	\$188,460.34	34,697,976	2,955,824	8,502,970	46,156,770
Total...	2,761	4.87	167,549,306	\$295,449.84	424,825,243	34,015,422	108,257,858	567,098,523

NOTE: "MTM" = Million train miles

TABLE 18. TRAIN ACCIDENTS BY TYPE AND MONTH

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	161	148	185	149	170	172	194	159	163	180	164	161	2,006
Head on collision	1	5	1	1	3	2	4	6	2	2	---	2	29
Rear end collision	4	2	4	---	1	8	5	3	3	2	3	1	36
Side collision	21	18	23	14	18	19	22	19	14	18	14	17	217
Raking collision	1	2	2	---	2	2	3	2	2	5	2	2	25
Broken train collision	1	1	1	2	1	3	---	1	---	1	1	1	13
Rail-hwy crossing	13	18	13	10	8	9	9	6	12	13	17	13	141
RR grade crossing	---	---	---	---	---	---	---	---	---	---	---	---	---
Obstruction	2	5	2	2	2	6	1	3	4	2	6	---	35
Explosion-detonation	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire or violent rupture	4	5	2	1	3	1	4	3	2	3	4	2	34
Other	24	17	14	14	22	15	23	14	17	17	22	26	225
Total	232	221	247	193	230	237	265	216	219	243	233	225	2,761

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3. ACCIDENTS: DETAILS OF 1986 OCCURRENCES

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				

TRACK, ROADBED AND STRUCTURES						
Roadbed defects	66	5,897,594	---	63	3	---
Track geometry defects	435	19,202,272	4	425	6	---
Rail and joint bar defects	215	15,832,633	1	214	---	---
Frogs, switches and track appliances	281	6,880,479	16	253	12	---
Other way and structure	16	632,288	1	7	8	---
Signal and communication failures	3	14,107	---	3	---	---
Subtotal.....	1,016	48,459,373	22	965	29	---
MECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
Brakes	2	38,521	1	1	---	---
Body	1	12,748	---	1	---	---
Coupler and draft system	---	---	---	---	---	---
Truck components	1	9,131	---	1	---	---
Axles and journal bearings	---	---	---	---	---	---
Wheels	---	---	---	---	---	---
Locomotives	13	480,671	2	6	5	---
Doors	---	---	---	---	---	---
General mechanical and electrical failures	9	160,649	---	---	9	---
Subtotal (Locomotives) ..	26	701,720	3	9	14	---
CAR FAILURE						
Brakes	50	3,934,986	2	44	4	---
Trailer or container on flat car	4	150,750	---	2	2	---
Body	42	2,170,954	---	40	2	---
Coupler and draft system	63	4,450,094	10	49	4	---
Truck components	81	5,020,287	1	79	1	---
Axles and journal bearings	80	14,482,660	---	76	4	---
Wheels	74	10,548,283	---	74	---	---
Doors	7	460,347	---	6	1	---
General mechanical and electrical failures	6	242,152	---	5	1	---
Subtotal (cars).....	407	41,460,513	13	375	19	---
TOTAL EQUIPMENT FAILURES....	433	42,162,233	16	384	33	---
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of	140	6,727,113	54	58	28	---
Employee physical condition	---	15,100	---	---	---	---
Flagging, fixed, hand and radio signals	35	4,801,406	22	5	8	---
Other rules and instructions	202	5,594,692	115	32	55	---
Speed	69	6,280,051	14	39	16	---
Switches, use of	102	2,124,242	27	66	9	---
Miscellaneous	268	11,452,168	17	213	38	---
Subtotal.....	816	36,994,772	249	413	154	---
MISCELLANEOUS FACTORS						
Collision with highway user at crossing site	138	6,370,312	---	---	---	138
Emergency brake application to avoid accident	9	886,339	---	6	2	1
Vandalism	55	4,927,587	4	36	14	1
Interference with rr operation, not vandals	16	1,523,698	3	12	1	---
Load shifted	18	1,686,659	2	12	4	---
Load fell from car	6	541,503	---	2	4	---
Overloaded car	3	59,875	---	2	1	---
Improperly loaded car	14	869,777	---	13	1	---
Oversized load, misrouted	8	411,675	4	1	3	---
Object on or fouling track	24	983,294	---	13	10	1
Equipment on or fouling track	7	287,220	4	---	3	---
Trail/container tiedown eqp impr applied	4	58,968	---	3	1	---
Overload/improper loaded container etc.	4	400,500	---	4	---	---
Interaction of lateral/vertical forces	67	4,125,643	---	67	---	---
Failure to control car spd with hand brk	9	190,137	4	4	1	---
Snow, ice, or mud on track	16	899,889	---	16	---	---
Other acts of God	19	5,429,136	4	12	3	---
Fire, not due to vandalism	17	1,251,224	---	1	16	---
Hump retarder failed to slow car	15	294,625	5	5	5	---
Switch fouled by lading chains, etc.	5	1,432,930	---	4	1	---
Other causes	42	7,301,937	3	31	8	---
Subtotal.....	496	39,932,928	33	244	78	141
GRAND TOTAL.....	2,761	167,549,306	320	2,006	294	141

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
BRAKES, USE OF						
500 Automatic brake, improper use	12	1,097,497	1	10	1	---
501 Dynamic brake, improper use	5	708,700	---	5	---	---
502 Failure to secure engine (R.R. emp.)	6	194,000	2	3	1	---
503 Failure to secure hnd brk (R.R. emp)	31	630,801	15	5	11	---
504 Failure to apply sufficient hand brake	26	1,595,002	15	7	4	---
505 Failure to apply hnd brk on car (emp.)	20	373,835	11	4	5	---
506 Fail. to secure eng/car (Non R.R. emp)	4	989,255	---	3	1	---
507 Independent (eng.) brake, improper use	16	665,325	3	12	1	---
508 Fail. to control spd,hnd brk (R.R.emp)	4	66,400	3	1	---	---
509 Other causes involving use of brakes	16	406,298	4	8	4	---
SUBTOTAL.....	140	6,727,113	54	58	28	---
EMPLOYEE PHYSICAL CONDITION						
513 Employee falling asleep	---	15,100	---	---	---	---
SUBTOTAL.....	---	15,100	---	---	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
517 Absence of fixed signal (Blue signal)	1	29,000	1	---	---	---
52A Block signal, failure to comply	1	48,000	1	---	---	---
52B Interlocking signal, failure to comply	---	21,275	---	---	---	---
52C Automatic cab signal, failure to compl	1	902,797	1	---	---	---
520 Fixed signal, failure to comply	8	3,116,205	7	1	---	---
521 Flagging, improper or failure to flag	1	44,762	1	---	---	---
523 Hand signal, failure to comply	1	10,550	---	---	1	---
524 Hand signal improper	1	13,300	1	---	---	---
525 Hand signal, failure to give/receive	4	70,324	1	1	2	---
526 Radio communication, failure to comply	3	188,300	1	2	---	---
527 Radio communication, improper	2	56,400	2	---	---	---
528 Radio comm., failure to give/receive	9	274,603	3	1	5	---
529 Flagging, fixed, hand & radio (other)	3	25,890	3	---	---	---
SUBTOTAL.....	35	4,801,406	22	5	8	---
OTHER RULES AND INSTRUCTIONS						
530 Car(s) shoved out & left out of clear	18	277,181	12	2	4	---
531 Cars left foul	21	274,965	12	1	8	---
532 Derail, failure to apply or remove	2	23,332	---	2	---	---
533 Failure to stop train in clear	26	1,018,476	22	2	2	---
535 Instruction to trn/yard crew improper	17	518,082	9	4	4	---
536 Mtr car/on-trk exp rules,fail to cmpl	18	335,377	5	---	13	---
537 Equip move without authority (RR emp)	2	118,750	1	---	1	---
538 Shoving move, missing man at lead	55	1,003,502	35	9	11	---
539 Shoving movement, fail to control	21	354,519	9	5	7	---
540 Skate, failure to remove or place	2	54,481	1	---	1	---
541 Special op. instr., failure to comply	7	441,764	5	1	1	---
542 Trn ord/timetable auth, fail to comply	2	217,750	---	1	1	---
544 Trn ord(written)err in preparation,etc	1	149,000	---	---	1	---
549 Rules and instructions, other	10	807,513	4	5	1	---
SUBTOTAL.....	202	5,594,692	115	32	55	---

TABLE 20. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
SPEED						
550 Coupling speed excessive	29	674,967	3	15	11	---
553 Switch movement, excessive speed	5	86,427	---	2	3	---
554 Trn inside yrd limit, excess speed	10	417,705	6	3	1	---
555 Trn out yrd limit,clear blk,excess spd	11	3,170,888	---	11	---	---
559 Other Causes involving excessive speed	14	1,930,064	5	8	1	---
SUBTOTAL.....	69	6,280,051	14	39	16	---
SWITCHES, USE OF						
560 Spring switch not clear before reverse	3	34,625	---	3	---	---
561 Switch improperly lined	70	1,436,023	24	38	8	---
562 Switch not latched or locked	8	142,632	2	5	1	---
563 Switch previously run through	20	496,962	1	19	---	---
569 Use of switches, other	1	14,000	---	1	---	---
SUBTOTAL.....	102	2,124,242	27	66	9	---
MISCELLANEOUS						
570 Buffing or slack action excessive	147	7,519,456	1	144	2	---
571 Failure to couple	3	43,700	1	1	1	---
572 Lateral drawbar force on curve excess	34	633,139	---	33	1	---
573 Moving car,loading ramp not positioned	1	5,500	---	---	1	---
574 Passed couplers	31	325,843	1	21	9	---
575 Retarder, improper manual operation	11	151,651	1	3	7	---
576 Retarder yard skate improperly applied	1	27,700	---	---	1	---
599 Other train operation/human factors	40	2,745,179	13	11	16	---
SUBTOTAL.....	268	11,452,168	17	213	38	---
GRAND TOTAL.....	816	36,994,772	249	413	154	---

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				

BRAKES						
400 Air hose uncoupled or burst	16	1,077,086	1	15	---	---
402 Broken brake pipe or connections	3	23,673	---	2	1	---
404 Other brake component failure, etc.	4	144,998	---	4	---	---
404L Other brake component failure - loco	1	8,000	1	---	---	---
405 Brk valve malf. (undesired emergency)	7	1,546,502	---	7	---	---
406 Brake valve malfunction/stuck brake/etc	4	340,506	---	2	2	---
406L Brk valve malf./stuck brake/etc - loco	1	30,521	---	1	---	---
407 Rigging down or dragging	11	386,202	---	11	---	---
410 Other brake failure(not on locomotive)	5	416,019	1	3	1	---
SUBTOTAL.....	52	3,973,507	3	45	4	---
TRAILER OR CONTAINER ON FLAT CAR						
419 Oth trailer/container on flat car fail	4	150,750	---	2	2	---
SUBTOTAL.....	4	150,750	---	2	2	---
BODY						
421 Center sill broken or bent	12	652,772	---	10	2	---
422 Draft sill broken or bent	3	455,012	---	3	---	---
423 Center plate broken or defective	8	170,749	---	8	---	---
424 Center plate disengaged from truck	11	456,398	---	11	---	---
426 Center plate attachment defective	1	9,700	---	1	---	---
429 Other causes due to body (not loco)	7	426,323	---	7	---	---
429L Other causes due to body - locomotive	1	12,748	---	1	---	---
SUBTOTAL.....	43	2,183,702	---	41	2	---
COUPLER AND DRAFT SYSTEM						
430 Knuckle broken or defective	19	747,811	4	12	3	---
431 Coupler mismatch, high/low	3	63,018	---	3	---	---
432 Coupler drawhead broken or defective	12	794,912	2	10	---	---
433 Coupler retainer pin/cross key missing	8	1,010,116	1	7	---	---
434 Draft gear/mechanism broken/defective	7	1,354,520	---	7	---	---
435 Coupler carrier broken or defective	4	85,038	1	3	---	---
436 Coupler shank broken or defective	2	26,250	---	2	---	---
439 Other coupler and draft system causes	8	368,429	2	5	1	---
SUBTOTAL.....	63	4,450,094	10	49	4	---
TRUCK COMPONENTS						
440 Side bearing clearance improper	30	2,146,450	---	30	---	---
441 Side bearing(s) broken	1	33,000	---	1	---	---
442 Side bearing(s) missing	4	100,050	---	4	---	---
443 Truck bolster broken	2	38,524	---	1	1	---
444 Side frame broken	2	67,350	---	2	---	---
445 Truck (stiff/improper lateral)	33	1,964,981	1	32	---	---
445L Truck (stiff/improper lateral) - loco	1	9,131	---	1	---	---
446 Defective snubbing	1	21,500	---	1	---	---
447 Broken/missing/defective springs	2	55,400	---	2	---	---
449 Other truck component causes	6	593,032	---	6	---	---
SUBTOTAL.....	82	5,029,418	1	80	1	---

TABLE 21. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
AXLES AND JOURNAL BEARINGS						
450 Broken or bent between wheel seats	7	1,060,896	---	6	1	---
451 Journal (plain) failure - overheating	25	2,087,034	---	25	---	---
452 Journal (R. B.) failure - overheat	48	11,334,730	---	45	3	---
SUBTOTAL.....	80	14,482,660	---	76	4	---
WHEELS						
460 Broken flange	5	1,369,124	---	5	---	---
461 Broken rim	15	4,555,729	---	15	---	---
462 Broken plate	11	1,555,293	---	11	---	---
463 Broken hub	1	40,250	---	1	---	---
464 Worn flange	20	652,786	---	20	---	---
467 Loose wheel	12	1,707,944	---	12	---	---
468 Thermal crack, flange or tread	2	12,964	---	2	---	---
469 Other causes involving wheels-not loco	8	654,193	---	8	---	---
SUBTOTAL.....	74	10,548,283	---	74	---	---
LOCOMOTIVES						
470L Running gear failure - locomotive	2	114,220	---	2	---	---
473L Oil fire - locomotive	1	37,849	---	---	1	---
474L Electrically caused fire - locomotive	4	56,502	---	---	4	---
479L Other causes involving locomotives	6	272,100	2	4	---	---
SUBTOTAL.....	13	480,671	2	6	5	---
DOORS						
480 Box car plug door open	1	37,000	---	1	---	---
484 Box car door(not plug) attach defect.	1	160,404	---	1	---	---
485 Bottom outlet car door open	1	10,500	---	1	---	---
486 Bottom outlet car door attach defect.	4	252,443	---	3	1	---
SUBTOTAL.....	7	460,347	---	6	1	---
GENERAL MECHANICAL AND ELECTRICAL FAILURES						
499 General mech/elect failures-not loco	6	242,152	---	5	1	---
499L General mech/elect failures - loco	9	160,649	---	---	9	---
SUBTOTAL.....	15	402,801	---	5	10	---
GRAND TOTAL.....	433	42,162,233	16	384	33	---

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

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
ROADBED DEFECTS						
101 Roadbed settled or soft	49	4,047,622	---	48	1	---
102 Washout/rain/slide/ice, etc. dmg to trk	13	1,707,950	---	11	2	---
109 Other roadbed defects	4	142,022	---	4	---	---
SUBTOTAL.....	66	5,897,594	---	63	3	---
TRACK GEOMETRY DEFECTS						
110 Wide gage (defect/missing crossties)	201	4,132,504	---	197	4	---
111 Wide gage (def/missing rail fasteners)	20	934,058	---	20	---	---
112 Wide gage (involving gage rods)	2	62,434	---	2	---	---
113 Wide gage due to worn rail	10	115,733	1	9	---	---
114 Track alignment irregular	21	1,168,626	---	21	---	---
115 Track alignment irregular (buckled)	50	6,926,329	1	49	---	---
116 Track profile improper	1	6,525	---	1	---	---
117 Superelevation incorrect	12	545,236	---	11	1	---
118 Superelevation runoff improper	2	138,400	---	2	---	---
119 Cross level irregular at joints	62	2,968,899	1	61	---	---
120 Cross level irregular not at joints	37	1,812,174	---	36	1	---
129 Other track geometry defects	17	391,354	1	16	---	---
SUBTOTAL.....	435	19,202,272	4	425	6	---
RAIL AND JOINT BAR DEFECTS						
130 Bolt hole crack or break	8	1,920,025	---	8	---	---
131 Broken base of rail	33	3,413,127	---	33	---	---
132 Broken weld, field	4	81,007	---	4	---	---
133 Broken weld, plant	2	1,044,190	---	2	---	---
134 Detail fracture fm shelling/head check	9	536,956	---	9	---	---
135 Engine burn fracture	1	500	---	1	---	---
136 Head/web sep. (outside joint bar limit)	17	1,328,619	---	17	---	---
137 Head/web sep. (within joint bar limits)	5	193,525	---	5	---	---
138 Horizontal split head	5	98,331	---	5	---	---
139 Piped rail	3	124,585	---	3	---	---
141 Transverse/compound fissure	50	2,460,832	---	50	---	---
142 Vertical split head	33	1,778,973	---	33	---	---
143 Worn rail	10	103,170	---	10	---	---
144 Mismatched rail-head contour	6	44,467	1	5	---	---
145 Joint bar broken, compromise	1	14,797	---	1	---	---
147 Joint bar broken, noninsulated	10	1,421,341	---	10	---	---
148 Joint bolts, broken or missing	1	13,044	---	1	---	---
149 Other rail and joint bar defects	17	1,255,144	---	17	---	---
SUBTOTAL.....	215	15,832,633	1	214	---	---

TABLE 22. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
FROGS, SWITCHES AND TRACK APPLIANCES						
160 Guard rail loose/broken/etc.	6	118,963	---	6	---	---
161 Switch damaged/out of adjustment	63	1,441,446	1	58	4	---
162 Switch stand failure (hand oper.)	7	113,144	1	6	---	---
163 Switch connecting/oper. rod fail.	8	650,660	---	8	---	---
164 Stock rail worn/broken/disconnect	7	248,861	---	7	---	---
165 Switch point worn or broken	131	2,701,430	---	128	3	---
166 Switch rod worn/bent/broken/etc.	3	86,100	---	3	---	---
167 Frog, rigid, worn or broken	3	75,423	---	3	---	---
169 Frog, self guarded, worn/broken	2	20,500	---	2	---	---
171 Derail, defective	2	81,813	1	1	---	---
173 Retarder worn/broken/malfunction	11	215,206	4	3	4	---
174 Spring/power switch mech. malfunction	4	143,502	---	4	---	---
175 Retarder yard skate defective	6	74,700	5	1	---	---
176 Switch out of adjust.(insuf rail anch)	8	218,770	1	7	---	---
179 Other frog/switches/track appl. causes	20	689,961	3	16	1	---
SUBTOTAL.....	281	6,880,479	16	253	12	---
OTHER WAY AND STRUCTURES						
180 Bridge misalignment or failure	1	25,000	---	1	---	---
181 Flangeway clogged	3	33,094	---	3	---	---
189 Other way and structure causes	12	574,194	1	3	8	---
SUBTOTAL.....	16	632,288	1	7	8	---
SIGNAL AND COMMUNICATION FAILURES						
202 Other communication equipment failure	1	6,730	---	1	---	---
203 Block signal displayed false proceed	1	1,000	---	1	---	---
207 Automatic train-stop device inoperativ	1	6,377	---	1	---	---
SUBTOTAL.....	3	14,107	---	3	---	---
GRAND TOTAL.....	1,016	48,459,373	22	965	29	---

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

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	Rail Hwy Crossing
	Accidents	Damage				
MISC CAUSES NOT OTHERWISE LISTED						
700 Collision with hwy user at grade xing	138	6,370,312	---	---	---	138
701 Emergency brk appl to avoid accident	9	886,339	---	6	2	1
702 Vandalism	55	4,927,587	4	36	14	1
703 Interference with RR oper.--not vandals	16	1,523,698	3	12	1	---
704 Load shifted	18	1,686,659	2	12	4	---
705 Load fell from car	6	541,503	---	2	4	---
706 Overloaded car	3	59,875	---	2	1	---
707 Improperly loaded car	14	869,777	---	13	1	---
708 Oversized load, misrouted	8	411,675	4	1	3	---
709 Object on or fouling track	24	983,294	---	13	10	1
710 Equipment on or fouling track	7	287,220	4	---	3	---
711 Trail/contain tiedown eqp-impr applied	4	58,968	---	3	1	---
712 Overload/improper loaded container etc	4	400,500	---	4	---	---
713 Interaction of lateral/vertical forces	67	4,125,643	---	67	---	---
714 Failure to control spd with hand brake	9	190,137	4	4	1	---
715 Snow, ice, or mud on track	16	899,889	---	16	---	---
716 Other acts of God	19	5,429,136	4	12	3	---
717 Fire, other than vandalism, involving	17	1,251,224	---	1	16	---
718 Hump retarder failed to sufficiently s	15	294,625	5	5	5	---
719 Objects such as lading chains or strap	5	1,432,930	---	4	1	---
799 Other miscellaneous causes	42	7,301,937	3	31	8	---
SUBTOTAL.....	496	39,932,928	33	244	78	141
GRAND TOTAL.....	496	39,932,928	33	244	78	141

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....	152	7,679,025	1,487	96,289,500	98	4,001,272	93	4,070,279	1,830	112,040,076
Passenger train..	14	785,837	24	2,903,649	31	511,770	37	1,860,881	106	6,062,137
Mixed train.....	---	---	1	69,000	---	---	---	---	1	69,000
Work train.....	10	398,073	13	324,287	4	208,500	3	218,000	30	1,148,860
Single car.....	53	359,409	19	140,059	68	875,027	3	25,640	143	1,400,135
Cut of cars.....	119	2,074,011	56	2,780,940	35	763,953	1	22,000	211	5,640,904
Yard/switching...	191	1,948,659	406	4,817,684	78	1,635,053	3	12,700	678	8,414,096
Light loco(s)....	39	823,518	17	211,816	11	256,300	2	65,000	69	1,356,634
Unknown.....	---	---	---	---	---	---	---	---	---	---
Total.....	578	14,068,532	2,023	107,536,935	325	8,251,875	142	6,274,500	3,068	136,131,842

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

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

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

TABLE 25. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Derailment	285	21,389	1,411	392	71	39,693	21,999,055
Head on collision	5	419	41	2	---	---	2,648,550
Rear end collision	6	232	17	3	1	6	127,200
Side collision	29	1,044	102	24	1	---	476,959
Raking collision	3	259	10	3	---	---	10,000
Broken train collision	1	137	1	---	---	---	55,004
Rail-hwy crossing	14	1,223	106	3	---	---	1,288,823
RR grade crossing	---	---	---	---	---	---	---
Obstruction	6	481	28	1	---	---	33,600
Explosion-detonation	---	---	---	---	---	---	---
Fire or violent rupture	---	---	---	---	---	---	---
Other	21	899	87	25	6	2	539,112
Total	370	26,083	1,803	453	79	39,701	27,178,303

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	Accidents Which Resulted In A Evacuation
1981	586	353	77	27
1982	494	286	59	13
1983	422	240	52	16
1984	436	237	54	17
1985	415	245	54	22
1986	364	185	51	32

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

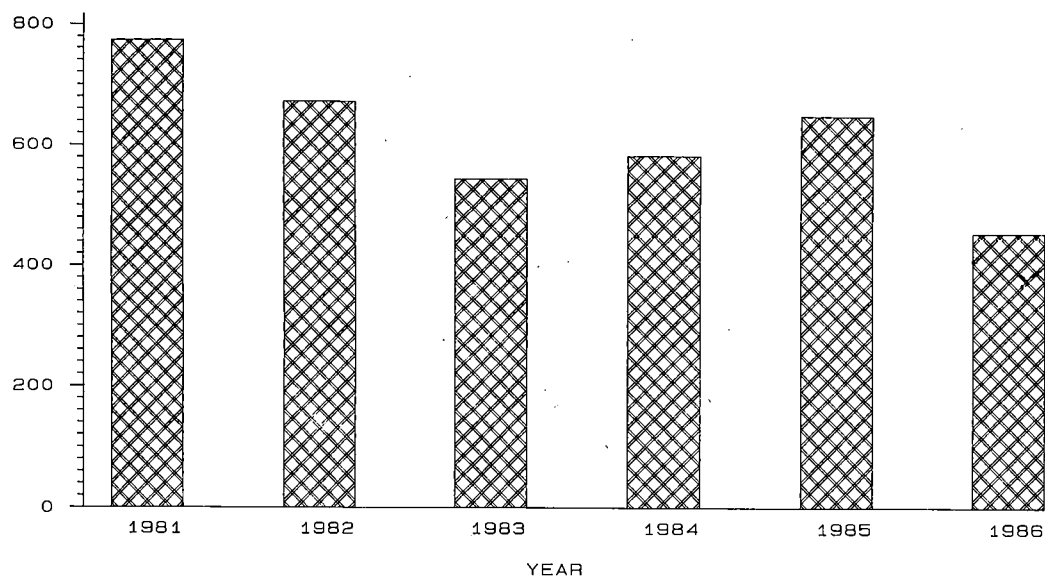


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED

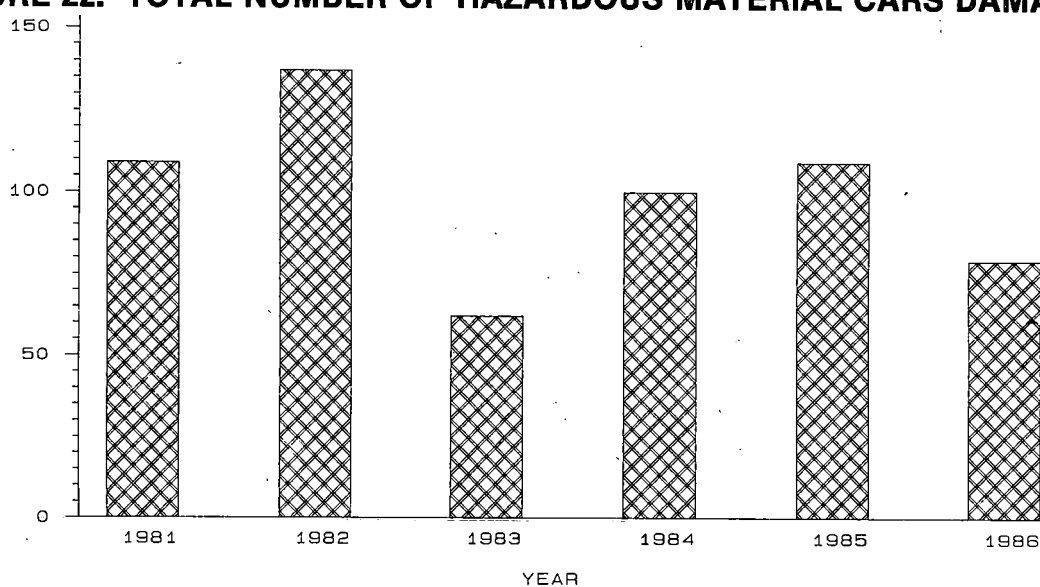


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIALS BY YEAR

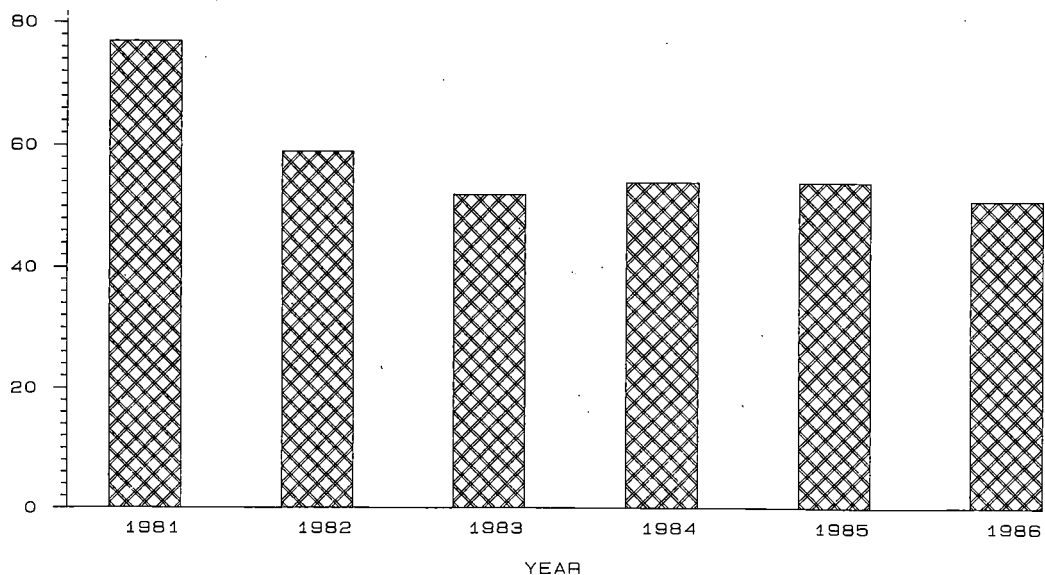


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS

TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

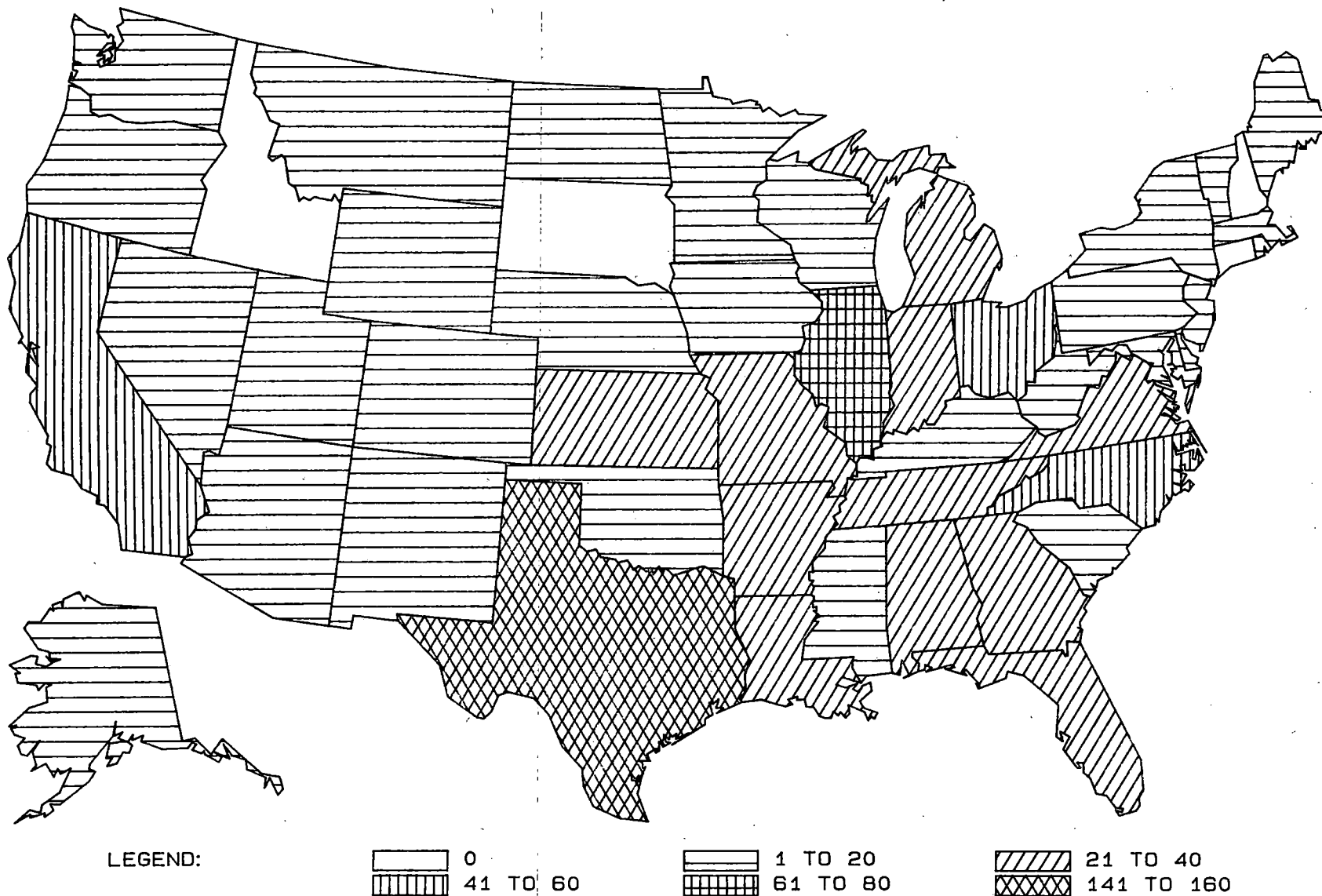
Cause	Consists Carrying	Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
TRACK, ROADBED AND STRUCTURES							
Roadbed defects	8	637	33	13	1	180	910,050
Track geometry defects	56	3,512	270	109	7	295	3,364,874
Rail and joint bar defects	25	1,760	116	35	4	385	1,499,093
Frogs, switches and track appliances	37	2,023	128	43	1	16	933,166
Other way and structure	---	---	---	---	---	---	---
Signal and communication failures	---	---	---	---	---	---	---
Subtotal.....	126	7,932	547	200	13	876	6,707,183
MECHANICAL AND ELECTRICAL FAILURES							
Brakes	13	1,482	56	18	2	---	1,470,654
Trailer or container on flat car	---	---	---	---	---	---	---
Body	10	833	69	10	2	---	724,344
Coupler and draft system	9	811	50	13	2	2	631,446
Truck components	16	1,472	55	4	1	20	1,248,644
Axles and journal bearings	14	1,111	101	29	4	3,215	2,056,727
Wheels	15	1,211	125	30	13	145	1,585,014
Locomotives	---	---	---	---	---	---	---
Doors	---	---	---	---	---	---	---
General mechanical and electrical failures	---	---	---	---	---	---	---
Subtotal.....	77	6,920	456	104	24	3,382	7,716,829
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of	22	1,184	68	24	6	165	1,020,281
Employee physical condition	---	---	---	---	---	---	---
Flagging, fixed, hand and radio signals	9	463	37	6	4	81	2,888,556
Other rules and instructions	18	835	82	12	1	---	149,970
Speed	8	307	30	21	4	300	1,346,351
Switches, use of	10	576	74	13	2	400	195,410
Miscellaneous	41	3,220	177	22	3	---	932,610
Subtotal.....	108	6,585	468	98	20	946	6,533,178
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site	13	1,154	95	1	---	---	809,073
Emergency brake application to avoid accident	1	127	23	6	6	75	336,200
Vandalism	9	766	47	12	5	11	849,859
Interference with rr operation, not vandals	2	168	5	---	---	---	36,500
Load shifted	7	581	37	4	---	---	431,945
Load fell from car	3	212	10	---	---	---	389,350
Overloaded car	1	12	1	1	---	---	46,000
Improperly loaded car	1	117	5	1	1	220	107,000
Oversized load, misrouted	1	167	1	1	---	---	2,000
Object on or fouling track	2	154	14	2	---	---	410,700
Equipment on or fouling track	---	---	---	---	---	---	---
Trail/container tiedown eqp impr applied	---	---	---	---	---	---	---
Overload/improper loaded container etc.	---	---	---	---	---	---	---
Interaction of lateral/vertical forces	8	485	55	9	2	1,475	86,304
Failure to control car spd with hand brk	1	69	6	---	---	---	15,500
Snow, ice, or mud on track	1	31	1	1	---	---	7,800
Other acts of God	1	33	9	1	1	200	800,500
Fire, not due to vandalism	---	---	---	---	---	---	---
Hump retarder failed to slow car	3	151	5	3	2	16	82,500
Switch fouled by lading chains, etc.	---	---	---	---	---	---	---
Other causes	5	419	18	9	5	32,500	1,809,882
Subtotal.....	59	4,646	332	51	22	34,497	6,221,113
GRAND TOTAL.....	370	26,083	1,803	453	79	39,701	27,178,303

TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	Consists Carrying	Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Alabama.....	10	762	25	8	1	---	940,860
Alaska.....	---	---	---	---	---	---	---
Arizona.....	9	709	46	14	4	15	1,461,481
Arkansas.....	8	480	20	14	3	166	804,100
California.....	17	1,123	63	25	1	3,020	1,427,582
Colorado.....	5	330	39	3	2	75	379,000
Connecticut.....	---	---	---	---	---	---	---
Delaware.....	---	---	---	---	---	---	---
Dist of Columbia.	---	---	---	---	---	---	---
Florida.....	5	659	20	3	1	220	218,808
Georgia.....	13	1,101	77	14	3	---	1,294,857
Idaho.....	2	209	32	7	---	---	131,244
Illinois.....	44	2,956	191	20	1	5	1,212,748
Indiana.....	14	1,056	47	13	2	75	438,273
Iowa.....	8	524	31	2	1	200	1,316,100
Kansas.....	4	175	26	13	3	---	730,951
Kentucky.....	10	645	81	10	1	6	399,705
Louisiana.....	23	1,489	134	30	2	---	788,800
Maine.....	2	91	16	3	---	---	23,000
Maryland.....	4	240	16	6	1	200	254,150
Massachusetts....	2	112	2	---	---	---	95,000
Michigan.....	13	781	78	10	1	---	265,950
Minnesota.....	5	397	14	1	---	---	388,800
Mississippi.....	7	399	43	19	2	300	993,810
Missouri.....	13	1,143	68	9	2	302	3,662,651
Montana.....	4	294	7	3	2	335	602,700
Nebraska.....	5	427	15	1	---	---	139,120
Nevada.....	1	95	3	2	1	20	445,000
New Hampshire....	---	---	---	---	---	---	---
New Jersey.....	3	99	6	6	2	---	13,000
New Mexico.....	4	239	23	5	---	20	621,300
New York.....	7	581	48	14	1	20	535,750
North Carolina...	9	1,109	92	27	15	75	819,713
North Dakota.....	---	---	---	---	---	---	---
Ohio.....	16	1,123	50	10	4	30,400	904,867
Oklahoma.....	2	76	13	1	---	---	12,650
Oregon.....	4	243	11	3	1	---	56,549
Pennsylvania.....	6	729	49	18	2	10	526,210
Rhode Island.....	---	---	---	---	---	---	---
South Carolina...	2	202	11	---	---	---	124,000
South Dakota.....	---	---	---	---	---	---	---
Tennessee.....	6	531	33	4	1	---	279,950
Texas.....	59	3,296	256	103	17	4,237	3,607,758
Utah.....	1	78	1	1	---	---	25,500
Vermont.....	1	111	3	---	---	---	---
Virginia.....	6	446	20	5	1	---	131,675
Washington.....	3	74	56	8	---	---	42,700
West Virginia....	4	430	12	12	---	---	200,253
Wisconsin.....	7	411	21	2	---	---	315,161
Wyoming.....	2	108	4	4	1	---	546,577
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	370	26,083	1,803	453	79	39,701	27,178,303

TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

Railroad	Consists Carrying	Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	---
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.	21	1,370	120	24	9	26	5,079,420
Boston And Maine Corporation	2	112	2	---	---	---	95,000
Burlington Northern Incorporated	10	785	31	5	2	335	1,120,400
Central Of Georgia Railroad Company	1	14	1	1	1	---	5,000
Chessie System Railroads	18	1,234	119	40	5	30,406	766,400
Chicago And North Western	3	131	16	2	1	200	894,320
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---
Consolidated Rail Corporation	12	778	84	34	5	210	758,460
Delaware And Hudson Railway	5	522	18	---	---	---	276,800
Denver And Rio Grande Western RR Co.	4	282	32	3	2	75	319,000
Elgin, Joliet And Eastern Railway Co.	5	220	12	2	---	---	212,199
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	10	597	50	7	1	---	167,500
Illinois Central Gulf Railroad Co.	7	316	71	18	2	305	990,840
Kansas City Southern Railway Co.	5	301	16	8	1	300	822,250
Louisiana And Arkansas Rwy Company	3	91	8	2	---	---	178,000
Missouri-Kansas-Texas Railroad Co.	4	204	7	7	---	---	84,590
Norfolk And Western Railway Co.	24	1,928	84	10	1	---	793,759
Seaboard System Railroad	46	4,926	303	51	21	370	3,852,453
Soo Line Railroad Company	28	2,062	81	4	---	---	1,363,386
Southern Pacific Transportation Co.	38	2,546	146	82	8	4,771	2,070,443
Southern Railway Company	7	526	24	2	---	---	159,250
St. Louis Southwestern Railway Co.	3	107	14	12	---	---	60,700
Union Pacific Railroad Co.	61	4,022	246	75	16	2,683	5,646,596
Total Class I Railroads.....	317	23,074	1,485	389	75	39,681	25,716,766
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	---	---	---	---	---	---	---
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine	1	79	4	---	---	---	2,000
Carolina And Northwestern Rwy Company	1	80	1	1	---	---	192,600
Central Vermont Railway Inc.	1	111	3	---	---	---	---
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.	---	---	---	---	---	---	---
Georgia Southern And Florida Railway	---	---	---	---	---	---	---
Green Bay And Western Railroad	---	---	---	---	---	---	---
Maine Central Railroad Company	1	12	12	3	---	---	21,000
Michigan Interstate Railroad	---	---	---	---	---	---	---
Monongahela Railway	2	106	2	2	---	---	5,453
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Oklahoma, Kansas Texas Railroad	---	---	---	---	---	---	---
Pittsburg And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac	3	197	4	3	---	---	35,175
Spokane International Railroad	2	209	32	7	---	---	131,244
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	---	---	---	---	---	---	---
Total Class II Railroads.....	11	794	58	16	---	---	387,472
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	317	23,074	1,485	389	75	39,681	25,716,766
Class II Railroads	11	794	58	16	---	---	387,472
Class III Railroads	42	2,215	260	48	4	20	1,074,065
Total All Railroads.....	370	26,083	1,803	453	79	39,701	27,178,303



Note:

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

FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES, MATERIALS TRANSPORTATION BUREAU

5. ACCIDENTS AND CASUALTIES BY STATE

TABLE 30. TRAIN ACCIDENTS BY STATE AND TYPE

State	Collisions....		...Derailments....		Other.....		..Rail-Hwy X-ing..		Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	2	30,000	27	2,562,602	4	52,454	4	303,200	37	2,948,256
Alaska.....	---	---	8	895,666	2	98,250	---	---	10	993,916
Arizona.....	---	---	22	2,882,625	2	39,500	---	---	24	2,922,125
Arkansas.....	2	84,245	30	2,841,678	4	82,301	2	10,000	38	3,018,224
California.....	8	161,341	103	7,318,353	10	116,270	9	1,137,501	130	8,733,465
Colorado.....	1	1,355,000	16	2,485,087	4	161,428	1	36,784	22	4,038,299
Connecticut.....	2	185,000	2	67,564	4	124,358	2	17,220	10	394,142
Delaware.....	---	---	3	46,825	---	---	1	5,700	4	52,525
Dist of Columbia.	---	---	---	---	---	---	---	---	---	---
Florida.....	2	73,539	23	1,670,359	2	53,529	7	183,160	34	1,980,587
Georgia.....	10	203,650	55	3,572,637	7	121,692	9	388,600	81	4,286,579
Idaho.....	1	27,884	15	1,128,430	2	504,183	---	---	18	1,660,497
Illinois.....	40	1,269,798	227	9,293,175	36	494,256	12	182,148	315	11,239,377
Indiana.....	5	143,008	45	3,014,843	8	576,203	11	1,178,563	69	4,912,617
Iowa.....	15	240,106	107	6,005,020	7	143,628	3	39,934	132	6,428,688
Kansas.....	8	227,889	48	3,159,652	5	143,160	7	750,009	68	4,280,710
Kentucky.....	5	163,400	45	2,302,938	2	90,600	1	43,637	53	2,600,575
Louisiana.....	7	126,950	43	1,557,372	9	184,590	3	23,760	62	1,892,672
Maine.....	---	---	9	352,185	1	9,000	1	6,000	11	367,185
Maryland.....	8	287,683	21	1,530,350	5	99,300	1	17,600	35	1,934,933
Massachusetts....	5	159,150	15	285,600	8	106,550	3	121,100	31	672,400
Michigan.....	4	42,691	52	2,039,533	18	393,489	4	254,114	78	2,729,827
Minnesota.....	20	293,905	92	6,381,047	7	107,755	---	---	119	6,782,707
Mississippi.....	1	25,800	39	1,723,478	2	35,200	6	655,295	48	2,439,773
Missouri.....	17	3,260,942	66	4,875,656	7	548,476	3	75,186	93	8,760,260
Montana.....	2	164,800	25	4,591,175	2	135,600	---	---	29	4,891,575
Nebraska.....	18	1,410,743	44	4,881,799	9	181,773	3	31,300	74	6,505,615
Nevada.....	---	---	6	780,203	1	9,300	---	---	7	789,503
New Hampshire....	---	---	1	15,000	---	---	---	---	1	15,000
New Jersey.....	2	53,570	22	481,264	9	122,544	2	22,008	35	679,386
New Mexico.....	1	112,700	19	1,854,639	1	8,000	---	---	21	1,975,339
New York.....	5	548,113	45	2,256,554	17	409,537	3	80,393	70	3,294,597
North Carolina...	1	30,150	19	1,818,190	4	113,185	3	149,250	27	2,110,775
North Dakota.....	2	27,500	24	1,375,792	1	9,702	---	---	27	1,412,994
Ohio.....	15	429,606	79	4,999,695	14	205,679	11	139,067	119	5,774,047
Oklahoma.....	8	494,519	32	1,746,343	6	228,099	3	93,475	49	2,562,436
Oregon.....	5	110,226	36	2,145,721	6	154,726	1	10,050	48	2,420,723
Pennsylvania.....	9	780,951	73	4,013,599	10	199,702	5	122,342	97	5,116,594
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina...	1	31,260	9	1,756,290	5	158,050	3	28,450	18	1,974,050
South Dakota.....	---	---	14	1,238,637	---	---	---	---	14	1,238,637
Tennessee.....	7	107,650	40	2,901,740	3	57,000	3	298,100	53	3,364,490
Texas.....	34	678,705	184	13,041,500	22	2,509,906	10	570,316	250	16,800,427
Utah.....	---	---	12	1,706,262	2	31,000	---	---	14	1,737,262
Vermont.....	---	---	2	12,783	---	---	---	---	2	12,783
Virginia.....	15	226,125	34	1,285,195	7	81,370	1	20,000	57	1,612,690
Washington.....	4	91,333	24	2,558,957	3	44,710	2	216,000	33	2,911,000
West Virginia....	13	452,472	56	3,027,454	4	109,700	---	---	73	3,589,626
Wisconsin.....	12	155,000	67	5,476,539	7	103,927	1	10,000	87	5,745,466
Wyoming.....	3	678,150	26	3,945,075	5	320,727	---	---	34	4,943,952
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	320	14,945,554	2,006	35,903,081*	294	9,480,409	141	7,220,262	2,761	167,549,306

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.....	13	902,529	6	1,034,060	10	155,069	8	856,598	37	2,948,256
Alaska.....	4	78,802	1	13,396	2	412,095	3	489,623	10	993,916
Arizona.....	8	319,864	7	1,044,105	4	984,981	5	573,175	24	2,922,125
Arkansas.....	22	1,662,485	1	93,000	8	214,794	7	1,047,945	38	3,018,224
California.....	57	1,922,751	22	1,737,873	22	1,751,058	29	3,321,783	130	8,733,465
Colorado.....	2	776,775	4	1,367,772	8	1,639,940	8	253,812	22	4,038,299
Connecticut.....	6	249,922	1	120,000	---	---	3	24,220	10	394,142
Delaware.....	2	38,625	1	8,200	---	---	1	5,700	4	52,525
Dist of Columbia.	---	---	---	---	---	---	---	---	---	---
Florida.....	13	700,669	3	111,281	5	307,292	13	861,345	34	1,980,587
Georgia.....	16	559,718	14	565,497	34	1,243,327	17	1,918,037	81	4,286,579
Idaho.....	7	323,799	6	810,704	3	81,756	2	444,238	18	1,660,497
Illinois.....	105	4,304,642	40	1,945,776	132	2,570,541	38	2,418,418	315	11,239,377
Indiana.....	23	687,569	8	927,528	23	2,036,497	15	1,261,023	69	4,912,617
Iowa.....	66	3,043,366	14	1,094,015	35	780,600	17	1,510,707	132	6,428,688
Kansas.....	22	1,195,875	9	158,296	23	1,839,175	14	1,087,364	68	4,280,710
Kentucky.....	21	804,550	7	441,288	16	512,430	9	842,307	53	2,600,575
Louisiana.....	28	840,638	4	171,850	19	284,700	11	595,484	62	1,892,672
Maine.....	4	89,900	3	127,900	1	62,000	3	87,385	11	367,185
Maryland.....	9	141,515	10	1,267,335	10	438,883	6	87,200	35	1,934,933
Massachusetts....	11	110,200	4	69,700	7	232,250	9	260,250	31	672,400
Michigan.....	25	312,403	10	191,815	25	641,452	18	1,584,157	78	2,729,827
Minnesota.....	55	3,085,809	16	1,725,091	38	684,266	10	1,287,541	119	6,782,707
Mississippi.....	31	985,558	4	114,805	4	586,000	9	753,410	48	2,439,773
Missouri.....	34	2,341,767	15	2,229,250	39	4,049,557	5	139,686	93	8,760,260
Montana.....	13	2,440,650	3	720,400	7	350,600	6	1,379,925	29	4,891,575
Nebraska.....	23	2,061,615	10	2,772,109	30	1,392,817	11	279,074	74	6,505,615
Nevada.....	---	---	3	724,656	3	43,547	1	21,300	7	789,503
New Hampshire....	---	---	---	---	---	---	1	15,000	1	15,000
New Jersey.....	13	278,624	6	148,500	11	191,754	5	60,508	35	679,386
New Mexico.....	7	956,065	7	785,633	6	199,850	1	33,791	21	1,975,339
New York.....	25	1,202,174	10	531,902	12	170,042	23	1,390,479	70	3,294,597
North Carolina...	5	340,430	3	188,423	11	962,122	8	619,800	27	2,110,775
North Dakota.....	21	917,867	2	441,950	3	32,877	1	20,300	27	1,412,994
Ohio.....	35	912,352	22	1,225,428	35	899,631	27	2,736,636	119	5,774,047
Oklahoma.....	21	1,082,670	5	281,552	11	972,516	12	225,698	49	2,562,436
Oregon.....	11	281,390	11	1,300,395	13	684,258	13	154,680	48	2,420,723
Pennsylvania.....	26	1,392,371	33	2,291,027	19	764,375	19	668,821	97	5,116,594
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina...	3	44,225	3	59,715	5	154,050	7	1,716,060	18	1,974,050
South Dakota.....	9	975,840	---	---	3	228,697	2	34,100	14	1,238,637
Tennessee.....	14	413,375	11	1,752,835	21	783,880	7	414,400	53	3,364,490
Texas.....	104	4,040,180	35	4,902,285	68	3,304,708	43	4,553,254	250	16,800,427
Utah.....	2	243,034	3	912,300	6	480,500	3	101,428	14	1,737,262
Vermont.....	1	7,011	---	---	1	5,772	---	---	2	12,783
Virginia.....	18	407,142	10	458,563	21	368,115	8	378,870	57	1,612,690
Washington.....	13	403,552	6	991,205	8	200,493	6	1,315,750	33	2,911,000
West Virginia....	29	1,823,804	18	927,550	13	309,600	13	528,672	73	3,589,626
Wisconsin.....	34	1,808,721	11	388,678	27	2,471,193	15	1,076,874	87	5,745,466
Wyoming.....	5	946,550	11	2,986,590	14	514,712	4	496,100	34	4,943,952
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	1,016	48,459,373	433	42,162,233	816	36,994,772	496	39,932,928	2,761	167,549,306

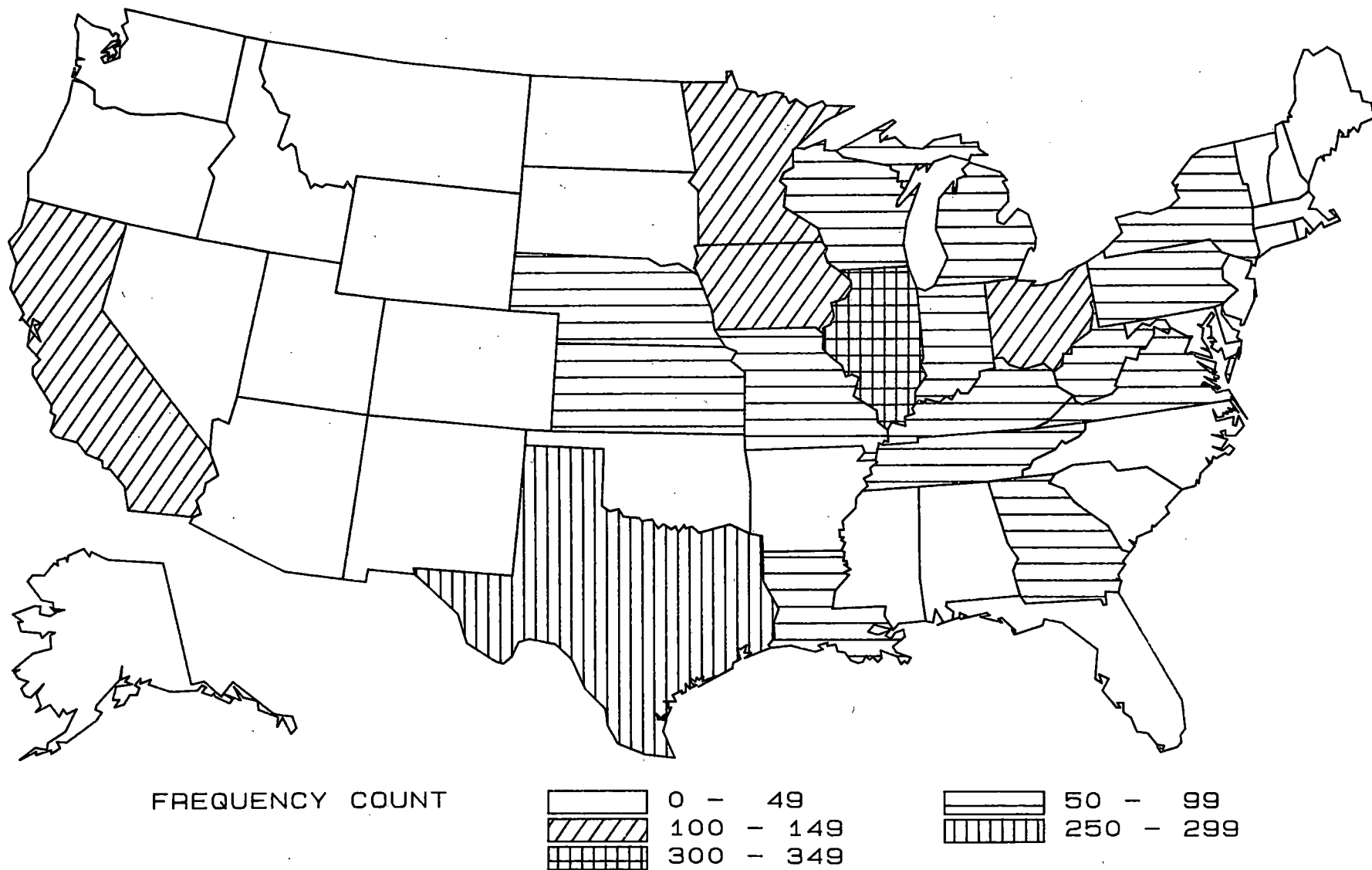


FIGURE 25. TRAIN ACCIDENTS BY STATE

TABLE 32. TRAIN ACCIDENTS BY STATE AND MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama.....	3	2	4	6	4	3	1	3	2	4	5	---	37
Alaska.....	---	---	---	1	1	---	3	2	---	1	1	1	10
Arizona.....	---	2	5	2	1	1	3	3	1	5	---	1	24
Arkansas.....	---	1	6	3	3	2	6	3	1	5	4	4	38
California.....	17	13	10	14	3	7	9	17	10	18	6	6	130
Colorado.....	1	5	1	3	3	3	---	3	---	2	---	1	22
Connecticut.....	---	2	2	---	---	---	1	1	1	1	---	2	10
Delaware.....	---	---	1	---	1	---	---	1	---	---	---	1	4
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	3	5	3	3	2	3	2	3	2	4	1	3	34
Georgia.....	12	7	9	1	9	6	8	6	5	3	6	9	81
Idaho.....	1	1	---	3	3	1	1	---	1	3	2	2	18
Illinois.....	16	20	32	31	30	27	26	21	33	26	29	24	315
Indiana.....	6	10	8	4	3	4	6	3	7	8	6	4	69
Iowa.....	10	7	14	10	11	12	18	7	10	14	8	11	132
Kansas.....	12	3	5	3	6	5	6	6	7	5	3	7	68
Kentucky.....	4	8	5	3	3	4	4	4	3	2	8	5	53
Louisiana.....	4	5	3	2	11	3	7	8	3	5	6	5	62
Maine.....	1	1	1	---	---	---	2	1	---	2	---	3	11
Maryland.....	---	5	1	2	2	6	5	1	4	3	2	4	35
Massachusetts.....	6	1	2	1	6	2	4	2	---	3	4	---	31
Michigan.....	5	5	7	4	8	8	12	6	4	5	5	9	78
Minnesota.....	10	7	12	6	11	13	15	7	20	8	4	6	119
Mississippi.....	3	1	1	---	1	2	1	8	5	6	6	14	48
Missouri.....	11	10	10	4	7	10	7	6	5	4	13	6	93
Montana.....	1	3	4	4	5	4	---	3	2	1	1	1	29
Nebraska.....	2	6	6	9	1	9	11	12	1	9	5	3	74
Nevada.....	2	---	---	---	1	1	1	1	1	---	---	---	7
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	1	1
New Jersey.....	1	2	3	---	4	1	4	5	2	4	6	3	35
New Mexico.....	2	3	1	---	4	3	---	2	3	1	1	1	21
New York.....	4	6	5	8	4	8	2	5	7	4	9	8	70
North Carolina.....	3	1	2	2	2	2	4	2	2	3	4	---	27
North Dakota.....	2	5	3	1	1	4	4	3	---	1	3	---	27
Ohio.....	16	15	9	7	7	8	13	10	9	10	9	6	119
Oklahoma.....	4	3	5	4	2	8	7	6	2	1	4	3	49
Oregon.....	7	3	7	3	3	1	5	3	4	7	3	2	48
Pennsylvania.....	10	10	6	7	10	9	8	4	14	7	8	4	97
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	1	3	1	1	---	---	1	2	2	3	3	1	18
South Dakota.....	---	---	1	1	1	2	3	2	---	1	1	2	14
Tennessee.....	8	3	2	4	6	3	5	2	4	5	6	5	53
Texas.....	14	19	20	15	18	30	25	16	16	23	21	33	250
Utah.....	1	---	1	---	3	1	3	1	---	1	3	---	14
Vermont.....	---	---	---	---	---	1	1	---	---	---	---	---	2
Virginia.....	3	3	5	5	7	4	4	4	7	3	5	7	57
Washington.....	5	3	5	1	6	3	1	---	1	2	2	4	33
West Virginia.....	8	6	6	4	5	5	8	6	7	6	8	4	73
Wisconsin.....	8	5	10	7	7	7	5	5	9	13	6	5	87
Wyoming.....	5	1	3	4	4	1	3	---	2	1	6	4	34
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	232	221	247	193	230	237	265	216	219	243	233	225	2,761

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.....	---	9	---	26	147	---	1	288	3	27	444	3
Alaska.....	---	---	---	3	13	---	---	38	---	3	51	---
Arizona.....	1	1	---	12	44	---	2	102	---	15	147	---
Arkansas.....	1	---	---	20	125	2	1	254	1	22	379	3
California.....	9	14	---	70	300	8	2	1,006	7	81	1,320	15
Colorado.....	2	---	---	10	76	3	---	185	---	12	261	3
Connecticut.....	---	3	---	9	30	---	1	236	1	10	269	1
Delaware.....	2	1	---	3	21	---	2	110	3	7	132	3
Dist of Columbia.....	---	---	---	1	6	---	---	83	1	1	89	1
Florida.....	---	6	---	56	172	---	---	383	2	56	561	2
Georgia.....	1	12	---	25	217	---	1	582	2	27	811	2
Idaho.....	---	---	---	9	82	---	1	121	1	10	203	1
Illinois.....	3	18	---	80	431	---	3	1,585	26	86	2,034	26
Indiana.....	3	65	---	40	223	1	1	467	2	44	755	3
Iowa.....	---	3	---	12	132	---	---	389	4	12	524	4
Kansas.....	4	8	---	20	95	---	---	360	---	24	463	---
Kentucky.....	---	5	---	14	127	---	---	513	3	14	645	3
Louisiana.....	---	8	---	25	250	1	2	333	4	27	591	5
Maine.....	---	1	---	2	18	---	---	69	1	2	88	1
Maryland.....	---	6	---	13	104	1	---	326	3	13	436	4
Massachusetts.....	2	79	---	6	57	---	---	266	3	8	402	3
Michigan.....	1	2	---	28	216	---	1	761	---	30	979	---
Minnesota.....	---	5	---	18	118	1	2	390	7	20	513	8
Mississippi.....	3	2	---	11	113	---	---	175	3	14	290	3
Missouri.....	5	14	---	30	172	---	1	495	8	36	681	8
Montana.....	1	4	---	12	50	---	---	172	3	13	226	3
Nebraska.....	1	8	---	12	121	1	3	512	7	16	641	8
Nevada.....	---	---	---	2	18	---	---	72	---	2	90	---
New Hampshire.....	---	---	---	---	1	---	---	8	---	---	9	---
New Jersey.....	1	5	---	31	124	2	3	725	7	35	854	9
New Mexico.....	---	7	---	7	25	---	2	91	1	9	123	1
New York.....	1	17	---	35	249	---	10	2,091	28	46	2,357	28
North Carolina...	1	7	---	25	178	1	1	245	2	27	430	3
North Dakota.....	---	---	---	5	26	1	1	94	---	6	120	1
Ohio.....	3	384	---	65	290	2	3	693	2	71	1,367	4
Oklahoma.....	---	4	1	15	119	---	2	181	2	17	304	3
Oregon.....	---	2	---	9	95	---	---	219	5	9	316	5
Pennsylvania.....	1	69	---	20	214	2	4	1,132	10	25	1,415	12
Rhode Island.....	---	---	---	---	6	---	---	20	---	---	26	---
South Carolina...	---	3	---	22	116	---	---	183	---	22	302	---
South Dakota.....	---	---	---	---	11	---	---	30	---	---	41	---
Tennessee.....	---	2	---	13	107	---	---	404	4	13	513	4
Texas.....	4	29	---	70	571	6	4	1,069	7	78	1,669	13
Utah.....	---	2	---	6	70	---	---	145	---	6	217	---
Vermont.....	---	---	---	---	6	---	---	17	---	---	23	---
Virginia.....	---	217	---	28	181	1	4	575	4	32	973	5
Washington.....	---	34	---	24	104	4	2	277	3	26	415	7
West Virginia....	---	29	---	8	85	1	---	372	---	8	486	1
Wisconsin.....	1	26	---	27	127	---	---	330	6	28	483	6
Wyoming.....	---	5	---	1	35	---	---	199	1	1	239	1
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	51	1,116	1	980	6,218	38	60	19,373	177	1,091	26,707	216

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	11	---	12	2	11	1	14	3	22	1	26
Alaska.....	---	1	---	1	---	1	1	2	---	2	1	3
Arizona.....	1	8	1	10	---	3	---	3	1	11	1	13
Arkansas.....	---	2	---	2	4	14	1	19	4	16	1	21
California.....	2	49	7	58	3	11	7	21	5	60	14	79
Colorado.....	---	3	---	3	---	6	---	6	---	9	---	9
Connecticut.....	1	6	2	9	---	---	---	---	1	6	2	9
Delaware.....	---	---	---	---	2	3	---	5	2	3	---	5
Dist of Columbia.....	---	1	---	1	---	---	---	---	---	1	---	1
Florida.....	---	45	---	45	1	9	---	10	1	54	---	55
Georgia.....	1	10	---	11	3	12	---	15	4	22	---	26
Idaho.....	---	---	---	---	2	5	---	7	2	5	---	7
Illinois.....	2	26	4	32	3	35	12	50	5	61	16	82
Indiana.....	---	12	4	16	5	21	1	27	5	33	5	43
Iowa.....	1	4	---	5	---	6	1	7	1	10	1	12
Kansas.....	---	1	---	1	3	8	9	20	3	9	9	21
Kentucky.....	---	6	1	7	---	6	1	7	---	12	2	14
Louisiana.....	---	5	---	5	2	13	5	20	2	18	5	25
Maine.....	---	---	---	---	---	2	---	2	---	2	---	2
Maryland.....	1	9	1	11	---	2	---	2	1	11	1	13
Massachusetts.....	---	5	3	8	---	---	---	---	---	5	3	8
Michigan.....	---	6	1	7	2	19	1	22	2	25	2	29
Minnesota.....	---	6	---	6	5	7	---	12	5	13	---	18
Mississippi.....	1	1	---	2	---	8	4	12	1	9	4	14
Missouri.....	2	4	---	6	1	15	9	25	3	19	9	31
Montana.....	---	7	---	7	---	3	---	3	---	10	---	10
Nebraska.....	---	2	---	2	2	8	---	10	2	10	---	12
Nevada.....	---	2	---	2	---	---	---	---	---	2	---	2
New Hampshire.....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	---	24	4	28	---	---	1	1	---	24	5	29
New Mexico.....	---	2	4	6	---	---	1	1	---	2	5	7
New York.....	3	24	1	28	---	3	---	3	3	27	1	31
North Carolina.....	2	9	---	11	2	13	---	15	4	22	---	26
North Dakota.....	---	1	---	1	---	4	---	4	---	5	---	5
Ohio.....	1	20	2	23	4	34	5	43	5	54	7	66
Oklahoma.....	---	5	---	5	2	5	3	10	2	10	3	15
Oregon.....	---	5	---	5	2	2	---	4	2	7	---	9
Pennsylvania.....	1	12	---	13	1	5	1	7	2	17	1	20
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	---	9	---	9	2	11	---	13	2	20	---	22
South Dakota.....	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee.....	---	6	---	6	---	5	1	6	---	11	1	12
Texas.....	1	27	6	34	4	29	6	39	5	56	12	73
Utah.....	---	6	---	6	---	---	---	---	---	6	---	6
Vermont.....	---	---	---	---	---	---	---	---	---	---	---	---
Virginia.....	3	19	1	23	---	5	---	5	3	24	1	28
Washington.....	---	17	---	17	---	7	---	7	---	24	---	24
West Virginia.....	1	1	1	3	---	4	---	4	1	5	1	7
Wisconsin.....	---	11	---	11	---	13	2	15	---	24	2	26
Wyoming.....	---	---	---	---	---	1	---	1	---	1	---	1
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	25	430	43	498	57	369	73	499	82	799	116	997

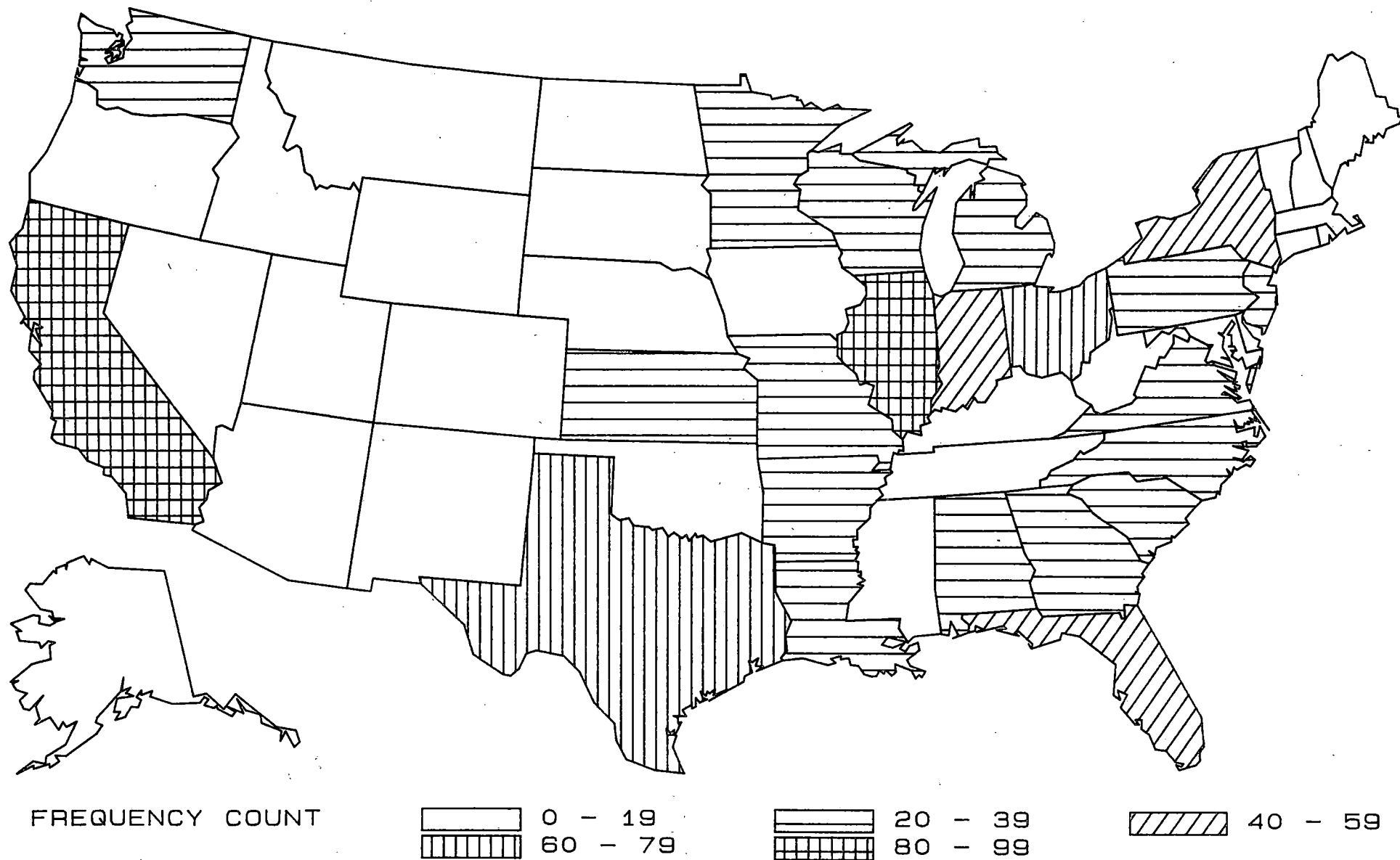


FIGURE 26. FATALITIES BY STATE

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.....	---	11	1	12	2	70	1	73	2	81	2	85
Alaska.....	---	---	---	---	1	8	---	9	1	8	---	9
Arizona.....	---	8	1	9	---	5	3	8	---	13	4	17
Arkansas.....	---	2	---	2	2	51	8	61	2	53	8	63
California.....	8	53	5	66	1	27	17	45	9	80	22	111
Colorado.....	---	4	2	6	2	19	5	26	2	23	7	32
Connecticut.....	1	2	---	3	---	3	---	3	1	5	---	6
Delaware.....	---	2	2	4	---	3	2	5	---	5	4	9
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	2	48	1	51	1	30	---	31	3	78	1	82
Georgia.....	---	13	---	13	23	54	---	77	23	67	---	90
Idaho.....	---	3	---	3	1	12	1	14	1	15	1	17
Illinois.....	6	30	4	40	11	76	64	151	17	106	68	191
Indiana.....	1	26	7	34	12	84	13	109	13	110	20	143
Iowa.....	2	8	5	15	4	27	13	44	6	35	18	59
Kansas.....	---	3	1	4	2	18	14	34	2	21	15	38
Kentucky.....	1	11	1	13	3	23	3	29	4	34	4	42
Louisiana.....	1	3	1	5	11	64	63	138	12	67	64	143
Maine.....	1	---	---	1	---	1	1	2	1	1	1	3
Maryland.....	1	7	2	10	---	10	---	10	1	17	2	20
Massachusetts....	3	6	4	13	---	7	1	8	3	13	5	21
Michigan.....	4	9	1	14	5	60	13	78	9	69	14	92
Minnesota.....	1	8	3	12	1	40	8	49	2	48	11	61
Mississippi.....	---	2	1	3	3	29	32	64	3	31	33	67
Missouri.....	1	7	1	9	6	43	22	71	7	50	23	80
Montana.....	---	7	---	7	---	4	---	4	---	11	---	11
Nebraska.....	---	1	---	1	2	32	---	34	2	33	---	35
Nevada.....	---	2	---	2	---	---	---	---	---	2	---	2
New Hampshire....	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey.....	1	18	2	21	---	16	1	17	1	34	3	38
New Mexico.....	---	4	2	6	---	2	3	5	---	6	5	11
New York.....	1	25	3	29	---	16	3	19	1	41	6	48
North Carolina...	2	21	---	23	12	84	---	96	14	105	---	119
North Dakota.....	---	1	---	1	---	1	---	1	---	2	---	2
Ohio.....	1	22	9	32	11	79	382	472	12	101	391	504
Oklahoma.....	---	3	1	4	3	29	36	68	3	32	37	72
Oregon.....	5	6	---	11	3	12	---	15	8	18	---	26
Pennsylvania.....	11	11	5	27	1	23	9	33	12	34	14	60
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	---	11	---	11	4	51	---	55	4	62	---	66
South Dakota.....	---	---	---	---	---	1	2	3	---	1	2	3
Tennessee.....	1	8	2	11	3	40	4	47	4	48	6	58
Texas.....	1	44	9	54	26	136	102	264	27	180	111	318
Utah.....	---	4	---	4	---	14	---	14	---	18	---	18
Vermont.....	---	---	---	---	---	2	---	2	---	2	---	2
Virginia.....	2	15	---	17	3	35	---	38	5	50	---	55
Washington.....	---	8	---	8	1	18	---	19	1	26	---	27
West Virginia....	5	7	4	16	---	9	5	14	5	16	9	30
Wisconsin.....	1	5	---	6	5	38	11	54	6	43	11	60
Wyoming.....	---	1	---	1	---	1	---	1	---	2	---	2
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	64	490	80	634	165	1,407	842	2,414	229	1,897	922	3,048

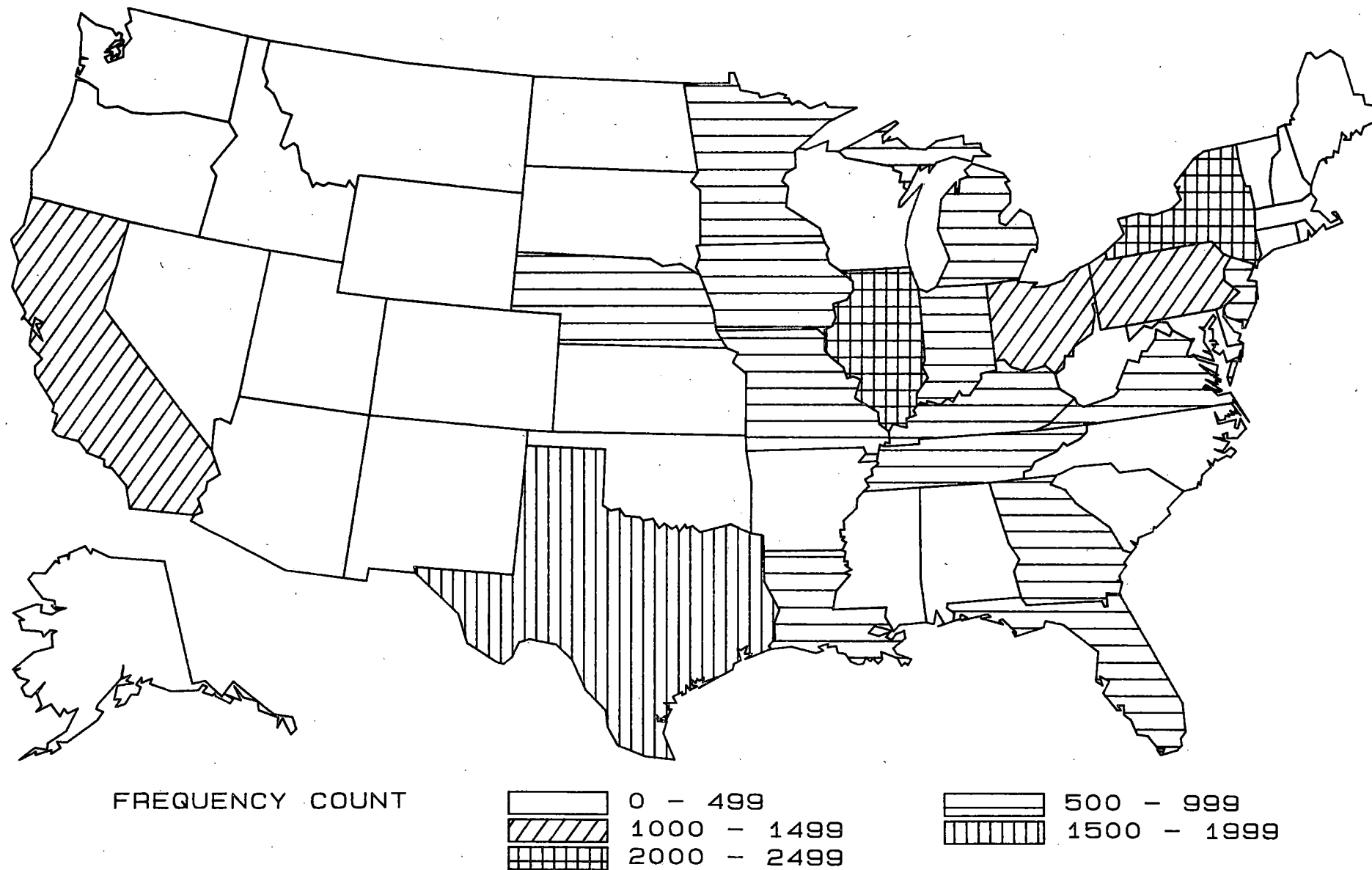


FIGURE 27. INJURIES BY STATE

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6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD

TABLE 36. SUMMARY OF TRAIN-MILES OPERATED

Railroad	Locomotive Train Miles	Motor Train Miles	Yard Switching Train Miles	Total Train Miles
CLASS I RAILROADS				
Alabama Great Southern Railroad Co.	1,293,441	---	540,223	1,833,664
Amtrak (National RR Passenger Corp)	26,800,224	1,958,612	281,940	29,040,776
Atchison, Topeka And Santa Fe Rwy Co.	37,553,256	---	4,197,108	41,750,364
Boston And Maine Corporation	813,209	1,254,858	478,107	2,546,174
Burlington Northern Incorporated	64,807,387	2,881,102	13,334,111	81,022,600
Central Of Georgia Railroad Company	1,653,956	---	1,143,735	2,797,691
Chessie System Railroads	20,543,684	214,467	7,227,356	27,985,507
Chicago And North Western	13,321,044	---	3,689,664	17,010,708
Cincinnati, New Orleans And TX Pac Co.	2,339,456	---	853,947	3,193,403
Consolidated Rail Corporation	32,860,867	---	11,012,364	43,873,231
Delaware And Hudson Railway	1,659,744	---	74,359	1,734,103
Denver And Rio Grande Western RR Co.	5,331,957	---	638,495	5,970,452
Elgin, Joliet And Eastern Railway Co.	361,369	---	730,475	1,091,844
Florida East Coast Railway Co.	2,348,930	---	718,178	3,067,108
Grand Trunk Western Railroad Co.	3,250,397	---	2,167,608	5,418,005
Illinois Central Gulf Railroad Co.	8,607,744	1,079,972	2,628,582	12,316,298
Kansas City Southern Railway Co.	9,624,489	---	837,264	10,461,753
Louisiana And Arkansas Rwy Company	4,371,341	---	399,970	4,771,311
Missouri-Kansas-Texas Railroad Co.	3,073,321	---	1,090,597	4,163,918
Norfolk And Western Railway Co.	14,096,650	---	5,399,000	19,495,650
Seaboard System Railroad	35,270,567	---	14,090,636	49,361,203
Soo Line Railroad Company	8,717,233	---	2,688,540	11,405,773
Southern Pacific Transportation Co.	25,981,588	---	7,166,774	33,148,362
Southern Railway Company	12,940,020	---	5,589,663	18,529,683
St. Louis Southwestern Railway Co.	6,005,048	---	730,641	6,735,689
Union Pacific Railroad Co.	54,868,979	---	7,705,002	62,573,981
Total Class I Railroads.....	398,495,901	7,389,011	95,414,339	501,299,251
CLASS II RAILROADS				
Bangor And Aroostook Railroad Co.	368,414	---	62,210	430,624
Bessemer And Lake Erie Railroad Co.	384,769	---	45,772	430,541
Canadian Pacific Lines In Maine	394,846	---	---	394,846
Carolina And Northwestern Rwy Company	292,274	---	26,060	318,334
Central Vermont Railway Inc.	282,736	---	54,584	337,320
Chicago And Illinois Midland Rwy Co.	74,347	---	46,190	120,537
Chicago South Shore And South Bend RR	223,958	2,128,221	---	2,352,179
Duluth, Missabe And Iron Range Rwy Co.	245,884	---	110,698	356,582
Duluth, Winnipeg And Pacific Rwy Co.	403,130	---	144,000	547,130
Georgia Southern And Florida Railway	994,805	---	162,062	1,156,867
Green Bay And Western Railroad	156,971	---	123,754	280,725
Maine Central Railroad Company	518,131	---	271,316	789,447
Michigan Interstate Railroad	---	---	44,664	44,664
Monongahela Railway	257,946	---	---	257,946
Northwestern Pacific Railroad	103,796	---	3,500	107,296
Oklahoma, Kansas Texas Railroad	337,507	---	68,698	406,205
Pittsburg And Lake Erie Railroad Co.	165,856	---	149,757	315,613
Richmond, Frederickburg And Potomac	1,802,244	---	499,181	2,301,425
Spokane International Railroad	139,257	---	---	139,257
Texas And Northern Railway Company	7,945	---	3,835	11,780
Texas, Mexican Railway Company	137,620	---	108,927	246,547
Total Class II Railroads.....	7,292,436	2,128,221	1,925,208	11,345,865
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
Class I Railroads	398,495,901	7,389,011	95,414,339	501,299,251
Class II Railroads	7,292,436	2,128,221	1,925,208	11,345,865
Class III Railroads	19,036,906	24,498,190	10,918,311	54,453,407
Total All Railroads.....	424,825,243	34,015,422	108,257,858	567,098,523

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

Railroad	Collisions.....					Derailments.....						
	Human	Equip	Track	Other	Total	Damages	Human	Equip	Track	Other	Total	Damages
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	1	---	---	---	1	12,000
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	4	5	12	2	23	862,744
Atchison, Topeka And Santa Fe Rwy Co.	12	---	---	1	13	3,353,596	24	26	35	5	90	7,411,496
Boston And Maine Corporation	2	---	1	---	3	92,500	---	2	9	3	14	265,608
Burlington Northern Incorporated	20	2	1	3	26	1,505,193	35	41	99	26	201	21,040,675
Central Of Georgia Railroad Company	1	---	---	---	1	41,550	2	1	2	---	5	39,000
Chessie System Railroads	17	---	3	7	27	865,500	34	36	78	23	171	7,124,344
Chicago And North Western	31	---	---	2	33	604,870	44	13	101	18	176	5,403,778
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	1	1	1	1	4	790,850
Consolidated Rail Corporation	13	1	---	1	15	849,925	18	32	37	14	101	4,736,740
Delaware And Hudson Railway	---	---	---	---	---	---	4	1	8	7	20	1,160,623
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	6	3	---	---	9	1,747,912
Elgin, Joliet And Eastern Railway Co.	3	---	---	---	3	131,408	4	---	5	2	11	248,013
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	1	1	2	331,214
Grand Trunk Western Railroad Co.	---	---	1	---	1	5,200	9	7	9	8	33	1,856,482
Illinois Central Gulf Railroad Co.	3	---	---	---	3	58,400	5	5	20	4	34	3,483,762
Kansas City Southern Railway Co.	3	---	---	---	3	77,975	3	---	14	---	17	2,097,512
Louisiana And Arkansas Rwy Company	2	---	---	---	2	27,421	4	---	4	2	10	320,119
Missouri-Kansas-Texas Railroad Co.	13	1	1	3	18	280,477	11	5	25	3	44	3,028,458
Norfolk And Western Railway Co.	25	3	---	4	32	457,442	22	17	45	9	93	5,048,707
Seaboard System Railroad	8	1	1	3	13	323,649	44	33	39	23	139	12,680,433
Soo Line Railroad Company	27	2	---	3	32	474,696	31	32	86	8	157	9,716,713
Southern Pacific Transportation Co.	6	---	---	---	6	139,975	8	30	91	40	169	9,429,509
Southern Railway Company	7	---	---	---	7	110,450	8	9	17	2	36	784,245
St. Louis Southwestern Railway Co.	1	---	---	---	1	14,300	5	5	18	1	29	1,719,247
Union Pacific Railroad Co.	37	3	9	2	51	2,047,447	60	61	94	29	244	21,540,720
Total Class I Railroads.....	231	13	17	29	290	11,461,974	387	365	850	231	1,833	122,880,904
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	219	13	16	27	275	11,461,974	355	342	777	218	1,692	122,880,904
Class II Railroads	3	---	1	1	5	62,000	13	13	33	4	63	2,867,955
Class III Railroads	27	3	5	5	40	3,421,580	45	29	155	22	251	10,154,222
Total All Railroads.....	249	16	22	33	320	14,945,554	413	384	965	244	2,006	135,903,081

TABLE 37. (CONTINUED)

Railroad	Other Accidents.....					Total.....		
	Human	Equip	Track	Other	Total	Damages	Accs.	Rate* Damages
CLASS I RAILROADS								
Alabama Great Southern Railroad Co.	---	---	---	1	1	10,000	2	1.09 22,000
Amtrak (National RR Passenger Corp)	2	9	4	19	34	788,409	57	1.96 1,651,153
Atchison, Topeka And Santa Fe Rwy Co.	6	4	---	15	25	3,538,549	128	3.06 14,303,641
Boston And Maine Corporation	1	1	1	8	11	188,600	28	10.98 546,708
Burlington Northern Incorporated	10	2	3	18	33	784,518	260	3.20 23,330,386
Central Of Georgia Railroad Company	---	---	---	1	1	8,000	7	2.50 88,550
Chessie System Railroads	3	---	---	11	14	177,800	212	7.57 8,167,644
Chicago And North Western	18	1	---	1	20	334,324	229	13.46 6,342,972
Cincinnati, New Orleans And TX Pac Co.	---	1	---	1	2	47,000	6	1.88 837,850
Consolidated Rail Corporation	7	3	---	15	25	748,672	141	3.21 6,335,337
Delaware And Hudson Railway	1	1	---	---	2	23,100	22	12.71 1,183,723
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	9	1.50 1,747,912
Elgin, Joliet And Eastern Railway Co.	2	---	---	2	4	100,551	18	16.51 479,972
Florida East Coast Railway Co.	---	---	---	1	1	6,025	3	0.97 337,239
Grand Trunk Western Railroad Co.	11	1	9	1	22	458,482	56	10.33 2,320,164
Illinois Central Gulf Railroad Co.	5	---	---	7	12	736,585	49	3.97 4,278,747
Kansas City Southern Railway Co.	3	---	1	2	6	498,780	26	2.48 2,674,267
Louisiana And Arkansas Rwy Company	3	---	---	---	3	35,500	15	3.14 383,040
Missouri-Kansas-Texas Railroad Co.	---	---	1	1	2	80,200	64	15.38 3,389,135
Norfolk And Western Railway Co.	3	3	---	14	20	291,792	145	7.43 5,797,941
Seaboard System Railroad	11	1	1	26	39	1,187,955	191	3.86 14,192,037
Soo Line Railroad Company	4	2	1	8	15	206,698	204	17.87 10,398,107
Southern Pacific Transportation Co.	12	1	1	24	38	1,017,129	213	6.42 10,586,613
Southern Railway Company	5	---	---	8	13	505,400	56	3.02 1,400,095
St. Louis Southwestern Railway Co.	5	---	1	3	9	215,501	39	5.78 1,949,048
Union Pacific Railroad Co.	14	2	---	11	27	1,853,997	322	5.14 25,442,164
Total Class I Railroads.....	126	32	23	198	379	13,843,567	2,502	4.99 148,186,445
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)								
Class I Railroads	124	31	23	176	354	13,843,567	2,321	4.62 148,186,445
Class II Railroads	5	1	---	5	11	1,173,513	79	6.96 4,103,468
Class III Railroads	25	1	6	38	70	1,683,591	361	6.62 15,259,393
Total All Railroads.....	154	33	29	219	435	16,700,671	2,761	4.87 167,549,306

* Accident rate per million train miles.

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

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

Railroad	Train Accident.....						Train Incident.....					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	---	---	---	5	7	12
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---	---	---	1	11	12
Atchison, Topeka And Santa Fe Rwy Co.	5	---	---	7	---	12	---	---	---	27	27	54
Boston And Maine Corporation	---	---	---	---	2	2	---	---	---	---	3	3
Burlington Northern Incorporated	1	---	---	1	1	3	3	---	---	71	50	124
Central Of Georgia Railroad Company	---	---	---	---	---	---	---	---	---	3	5	8
Chessie System Railroads	---	---	---	---	1	1	2	---	---	30	20	52
Chicago And North Western	---	---	---	---	---	---	---	---	---	14	11	25
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---	---	---	1	---	1
Consolidated Rail Corporation	---	---	---	3	1	4	5	---	---	34	41	80
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	3	1	4
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	---	3	1	4
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---	1	22	23
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---	15	2	17
Illinois Central Gulf Railroad Co.	---	---	---	4	---	4	---	---	---	13	3	16
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	1	---	1
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	11	---	11
Missouri-Kansas-Texas Railroad Co.	---	---	---	---	---	---	1	---	---	6	3	10
Norfolk And Western Railway Co.	---	---	---	2	1	3	---	---	---	28	26	54
Seaboard System Railroad	---	---	---	2	1	3	2	---	---	48	63	113
Soo Line Railroad Company	1	---	---	---	---	1	---	---	---	15	13	28
Southern Pacific Transportation Co.	---	---	---	1	3	4	---	---	---	19	60	79
Southern Railway Company	---	---	---	---	---	---	---	---	---	27	13	40
St. Louis Southwestern Railway Co.	---	---	---	1	1	2	---	---	---	15	3	18
Union Pacific Railroad Co.	1	---	---	3	2	6	4	---	---	65	28	97
Total Class I Railroads.....	8	---	---	24	13	45	17	---	---	456	413	886
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	8	---	---	24	13	45	17	---	---	456	413	886
Class II Railroads	---	---	---	---	---	---	1	---	---	7	8	16
Class III Railroads	2	---	---	---	4	6	1	1	4	12	60	78
Total All Railroads.....	10	---	---	24	17	51	19	1	4	475	481	980

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

TABLE 38. (CONTINUED)

Railroad	Nontrain Incident.....						Total.....					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	---	---	---	5	7	12
Amtrak (National RR Passenger Corp)	1	---	---	---	2	3	1	---	---	1	13	15
Atchison, Topeka And Santa Fe Rwy Co.	3	---	---	---	1	4	8	---	---	34	28	70
Boston And Maine Corporation	---	---	---	---	---	---	---	---	---	---	5	5
Burlington Northern Incorporated	2	---	---	1	4	7	6	---	---	73	55	134
Central Of Georgia Railroad Company	---	---	---	---	---	---	---	---	---	3	5	8
Chessie System Railroads	1	---	---	---	1	2	3	---	---	30	22	55
Chicago And North Western	---	---	---	---	2	2	---	---	---	14	13	27
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---	---	---	1	---	1
Consolidated Rail Corporation	6	---	---	2	4	12	11	---	---	39	46	96
Delaware And Hudson Railway	---	---	---	---	---	---	---	---	---	3	1	4
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	---	3	1	4
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---	1	22	23
Grand Trunk Western Railroad Co.	---	---	---	---	---	---	---	---	---	15	2	17
Illinois Central Gulf Railroad Co.	2	---	---	---	---	2	2	---	---	17	3	22
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	---	1	---	1
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	---	---	---	11	---	11
Missouri-Kansas-Texas Railroad Co.	---	---	---	---	---	---	1	---	---	6	3	10
Norfolk And Western Railway Co.	---	---	---	---	4	4	---	---	---	30	31	61
Seaboard System Railroad	1	---	---	1	---	2	3	---	---	51	64	118
Soo Line Railroad Company	---	---	---	---	---	---	1	---	---	15	13	29
Southern Pacific Transportation Co.	2	---	---	1	---	3	2	---	---	21	63	86
Southern Railway Company	2	---	---	---	---	2	2	---	---	27	13	42
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---	---	---	16	4	20
Union Pacific Railroad Co.	5	---	---	3	---	8	10	---	---	71	30	111
Total Class I Railroads.....	25	---	---	8	18	51	50	---	---	488	444	982
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	25	---	---	8	18	51	50	---	---	488	444	982
Class II Railroads	---	---	---	---	---	---	1	---	---	7	8	16
Class III Railroads	3	1	---	2	3	9	6	2	4	14	67	93
Total All Railroads.....	28	1	---	10	21	60	57	2	4	509	519	1,091

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

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

Railroad	Train Accident.....						Train Incident.....					
	Eod	Enod	Psgr	Nont	Tres	Total	Eod	Enod	Psgr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	5	---	---	9	1	15
Amtrak (National RR Passenger Corp)	29	---	24	---	---	53	232	5	47	3	2	289
Atchison, Topeka And Santa Fe Rwy Co.	20	---	---	4	---	24	130	---	---	89	37	256
Boston And Maine Corporation	3	---	75	---	1	79	16	---	5	1	7	29
Burlington Northern Incorporated	21	---	---	4	---	25	337	---	---	205	39	581
Central Of Georgia Railroad Company	1	---	---	2	---	3	23	---	---	15	2	40
Chessie System Railroads	18	12	---	365	2	397	292	1	4	126	65	488
Chicago And North Western	6	---	---	---	---	6	67	---	2	63	26	158
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	8	---	---	4	---	12
Consolidated Rail Corporation	25	---	---	3	---	28	207	---	---	93	60	360
Delaware And Hudson Railway	2	---	---	---	---	2	13	---	---	4	4	21
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	27	---	---	13	---	40
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	10	---	---	4	1	15
Florida East Coast Railway Co.	---	---	---	---	1	1	2	---	---	1	32	35
Grand Trunk Western Railroad Co.	2	---	---	---	---	2	84	---	---	37	3	124
Illinois Central Gulf Railroad Co.	3	---	---	4	---	7	134	---	2	100	8	244
Kansas City Southern Railway Co.	---	---	---	---	---	---	29	---	---	23	---	52
Louisiana And Arkansas Rwy Company	3	---	---	---	---	3	29	---	---	26	---	55
Missouri-Kansas-Texas Railroad Co.	3	---	---	1	---	4	19	---	---	27	12	58
Norfolk And Western Railway Co.	6	---	212	3	1	222	79	---	---	149	33	261
Seaboard System Railroad	19	---	---	11	1	31	318	---	---	212	69	599
Soo Line Railroad Company	8	---	---	1	---	9	103	---	---	62	20	185
Southern Pacific Transportation Co.	12	---	---	---	---	12	141	---	2	83	86	312
Southern Railway Company	1	---	---	4	---	5	126	1	---	139	23	289
St. Louis Southwestern Railway Co.	4	---	---	---	---	4	11	---	---	14	1	26
Union Pacific Railroad Co.	29	---	---	5	---	34	569	2	---	338	24	933
Total Class I Railroads.....	215	12	311	407	6	951	3,011	9	62	1,840	555	5,477
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	215	12	311	407	6	951	3,011	9	62	1,840	555	5,477
Class II Railroads	1	---	55	1	4	61	86	---	---	37	6	129
Class III Railroads	35	---	49	10	11	105	438	2	39	119	52	650
Total All Railroads.....	251	12	415	418	21	1,117	3,535	11	101	1,996	613	6,256

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	Psg	Nont	Tres	Total	Eod	Enod	Psg	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	22	---	---	2	---	24	27	---	---	11	1	39
Amtrak (National RR Passenger Corp)	1,458	46	28	26	4	1,562	1,719	51	99	29	6	1,904
Atchison, Topeka And Santa Fe Rwy Co.	909	16	---	5	13	943	1,059	16	---	98	50	1,223
Boston And Maine Corporation	104	1	1	1	---	107	123	1	81	2	8	215
Burlington Northern Incorporated	1,685	52	---	21	12	1,770	2,043	52	---	230	51	2,376
Central Of Georgia Railroad Company	47	1	---	10	---	58	71	1	---	27	2	101
Chessie System Railroads	1,252	32	5	12	2	1,303	1,562	45	9	503	69	2,188
Chicago And North Western	575	11	3	9	1	599	648	11	5	72	27	763
Cincinnati, New Orleans And TX Pac Co.	42	1	---	---	---	43	50	1	---	4	---	55
Consolidated Rail Corporation	1,357	39	---	6	7	1,409	1,589	39	---	102	67	1,797
Delaware And Hudson Railway	99	1	---	1	---	101	114	1	---	5	4	124
Denver And Rio Grande Western RR Co.	55	---	---	1	---	56	82	---	---	14	---	96
Elgin, Joliet And Eastern Railway Co.	27	---	---	---	---	27	37	---	---	4	1	42
Florida East Coast Railway Co.	10	---	---	---	---	10	12	---	---	1	33	46
Grand Trunk Western Railroad Co.	466	1	---	3	---	470	552	1	---	40	3	596
Illinois Central Gulf Railroad Co.	545	7	9	11	---	572	682	7	11	115	8	823
Kansas City Southern Railway Co.	89	---	---	---	---	89	118	---	---	23	---	141
Louisiana And Arkansas Rwy Company	36	---	---	---	---	36	68	---	---	26	---	94
Missouri-Kansas-Texas Railroad Co.	62	---	---	17	---	79	84	---	---	45	12	141
Norfolk And Western Railway Co.	691	21	2	51	6	771	776	21	214	203	40	1,254
Seaboard System Railroad	1,210	18	---	7	4	1,239	1,547	18	---	230	74	1,869
Soo Line Railroad Company	460	4	---	---	2	466	571	4	---	63	22	660
Southern Pacific Transportation Co.	755	22	3	10	5	795	908	22	5	93	91	1,119
Southern Railway Company	833	15	---	27	1	876	960	16	---	170	24	1,170
St. Louis Southwestern Railway Co.	61	---	---	---	---	61	76	---	---	14	1	91
Union Pacific Railroad Co.	1,807	37	---	10	2	1,856	2,405	39	---	353	26	2,823
Total Class I Railroads.....	14,657	325	51	230	59	15,322	17,883	346	424	2,477	620	21,750
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	14,657	325	51	230	59	15,322	17,883	346	424	2,477	620	21,750
Class II Railroads	502	2	6	16	---	526	589	2	61	54	10	716
Class III Railroads	3,442	34	113	100	13	3,702	3,915	36	201	229	76	4,457
Total All Railroads.....	18,601	361	170	346	72	19,550	22,387	384	686	2,760	706	26,923

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

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

Railroad	Amputations.....					Fractures.....				
	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.	---	---	---	---	---	1	---	---	1	2
Amtrak (National RR Passenger Corp)	---	1	---	---	1	24	41	13	16	104
Atchison, Topeka And Santa Fe Rwy Co.	---	4	---	1	5	13	52	26	9	122
Boston And Maine Corporation	---	---	---	---	---	---	3	3	4	10
Burlington Northern Incorporated	---	5	1	---	6	34	80	49	26	218
Central Of Georgia Railroad Company	---	---	---	---	---	---	1	---	---	2
Chessie System Railroads	---	4	1	---	5	24	38	26	20	131
Chicago And North Western	---	1	---	---	1	10	17	8	10	53
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	2	1	---	3
Consolidated Rail Corporation	---	2	3	1	6	26	67	37	17	169
Delaware And Hudson Railway	---	---	---	---	---	2	3	1	1	7
Denver And Rio Grande Western RR Co.	---	---	---	---	---	2	3	1	1	8
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	2	---	---	2
Florida East Coast Railway Co.	---	---	---	---	---	1	---	---	1	2
Grand Trunk Western Railroad Co.	1	1	---	---	2	---	10	5	1	17
Illinois Central Gulf Railroad Co.	---	2	1	1	4	9	13	12	8	49
Kansas City Southern Railway Co.	---	---	---	---	---	4	---	1	2	11
Louisiana And Arkansas Rwy Company	---	---	---	---	---	---	2	1	---	3
Missouri-Kansas-Texas Railroad Co.	---	---	---	---	---	---	6	1	4	14
Norfolk And Western Railway Co.	---	3	---	---	3	10	27	20	9	77
Seaboard System Railroad	2	1	---	1	4	20	34	22	19	126
Soo Line Railroad Company	---	---	---	---	---	8	15	16	13	61
Southern Pacific Transportation Co.	---	3	---	---	3	24	37	21	6	94
Southern Railway Company	---	---	1	1	2	9	30	15	1	64
St. Louis Southwestern Railway Co.	---	2	1	---	3	4	2	3	2	12
Union Pacific Railroad Co.	4	2	---	---	6	28	61	37	17	180
Total Class I Railroads.....	7	31	8	5	51	253	546	319	186	1,541
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	7	31	8	5	51	253	546	319	186	1,541
Class II Railroads	2	2	2	---	6	7	11	12	5	42
Class III Railroads	---	1	2	2	5	30	53	43	32	186
Total All Railroads.....	9	34	12	7	62	290	610	374	223	1,769

TABLE 40. (CONTINUED)

Railroad	Other Injuries.....									
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other	Total	Total
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.	1	14	8	---	1	---	---	1	25	27
Amtrak (National RR Passenger Corp)	412	745	172	13	25	4	68	160	1,599	1,704
Atchison, Topeka And Santa Fe Rwy Co.	170	441	185	3	17	4	61	48	929	1,056
Boston And Maine Corporation	14	47	23	5	2	2	9	11	113	123
Burlington Northern Incorporated	261	1,003	283	1	29	9	106	90	1,782	2,006
Central Of Georgia Railroad Company	20	35	9	---	2	---	1	2	69	71
Chessie System Railroads	231	704	189	1	29	6	117	144	1,421	1,557
Chicago And North Western	65	354	79	---	10	3	47	35	593	647
Cincinnati, New Orleans And TX Pac Co.	6	23	15	---	---	---	1	1	46	49
Consolidated Rail Corporation	272	731	233	2	10	15	62	75	1,400	1,575
Delaware And Hudson Railway	21	50	19	---	1	---	9	6	106	113
Denver And Rio Grande Western RR Co.	11	38	11	---	---	2	10	2	74	82
Elgin, Joliet And Eastern Railway Co.	5	22	4	1	---	1	---	2	35	37
Florida East Coast Railway Co.	---	2	7	---	1	---	---	---	10	12
Grand Trunk Western Railroad Co.	82	304	63	2	12	3	42	25	533	552
Illinois Central Gulf Railroad Co.	161	291	79	5	2	7	37	36	618	671
Kansas City Southern Railway Co.	21	49	15	1	2	5	8	3	104	115
Louisiana And Arkansas Rwy Company	13	33	5	---	---	---	9	4	64	67
Missouri-Kansas-Texas Railroad Co.	12	33	10	---	---	---	5	8	68	82
Norfolk And Western Railway Co.	148	280	151	---	14	8	25	61	687	767
Seaboard System Railroad	251	723	212	3	19	12	97	90	1,407	1,537
Soo Line Railroad Company	92	285	66	2	2	3	22	27	499	560
Southern Pacific Transportation Co.	157	382	149	3	19	8	47	25	790	887
Southern Railway Company	193	450	155	3	24	4	34	30	893	959
St. Louis Southwestern Railway Co.	6	26	20	1	---	---	5	2	60	75
Union Pacific Railroad Co.	392	1,230	242	3	26	20	125	168	2,206	2,392
Total Class I Railroads.....	3,017	8,295	2,404	49	247	116	947	1,056	16,131	17,723
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	3,017	8,295	2,404	49	247	116	947	1,056	16,131	17,723
Class II Railroads	80	267	70	---	12	2	70	37	538	586
Class III Railroads	840	1,505	549	40	90	15	343	290	3,672	3,863
Total All Railroads.....	3,937	10,067	3,023	89	349	133	1,360	1,383	20,341	22,172

TABLE 41. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

Railroad	..Collisions..		..Derailments..		Other.....		Total.....		Rate*	Train Miles
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured		
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	---	---	0.00	1,833,664
Amtrak (National RR Passenger Corp)	---	---	---	53	---	---	---	53	1.82	29,040,776
Atchison, Topeka And Santa Fe Rwy Co.	3	3	---	5	9	16	12	24	0.86	41,750,364
Boston And Maine Corporation	---	73	---	---	2	6	2	79	31.81	2,546,174
Burlington Northern Incorporated	---	4	1	12	2	9	3	25	0.34	81,022,600
Central Of Georgia Railroad Company	---	1	---	---	---	2	---	3	1.07	2,797,691
Chessie System Railroads	---	24	---	368	1	5	1	397	14.22	27,985,507
Chicago And North Western	---	2	---	3	---	1	---	6	0.35	17,010,708
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---	---	0.00	3,193,403
Consolidated Rail Corporation	---	14	---	6	4	8	4	28	0.72	43,873,231
Delaware And Hudson Railway	---	---	---	2	---	---	---	2	1.15	1,734,103
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---	---	0.00	5,970,452
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---	---	0.00	1,091,844
Florida East Coast Railway Co.	---	---	---	1	---	---	---	1	0.32	3,067,108
Grand Trunk Western Railroad Co.	---	---	---	2	---	---	---	2	0.36	5,418,005
Illinois Central Gulf Railroad Co.	---	---	---	2	4	5	4	7	0.89	12,316,298
Kansas City Southern Railway Co.	---	---	---	---	---	---	---	---	0.00	10,461,753
Louisiana And Arkansas Rwy Company	---	3	---	---	---	---	---	3	0.62	4,771,311
Missouri-Kansas-Texas Railroad Co.	---	2	---	---	---	2	---	4	0.96	4,163,918
Norfolk And Western Railway Co.	---	4	---	214	3	4	3	222	11.54	19,495,650
Seaboard System Railroad	---	5	1	8	2	18	3	31	0.68	49,361,203
Soo Line Railroad Company	---	---	1	8	---	1	1	9	0.87	11,405,773
Southern Pacific Transportation Co.	---	---	2	5	2	7	4	12	0.48	33,148,362
Southern Railway Company	---	1	---	---	---	4	---	5	0.26	18,529,683
St. Louis Southwestern Railway Co.	---	1	---	---	2	3	2	4	0.89	6,735,689
Union Pacific Railroad Co.	1	6	2	13	3	15	6	34	0.63	62,573,981
Total Class I Railroads.....	4	143	7	702	34	106	45	951	1.98	501,299,251
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	4	143	7	702	34	106	45	951	1.98	501,299,251
Class II Railroads	---	---	---	---	---	61	---	61	5.37	11,345,865
Class III Railroads	2	65	---	5	4	35	6	105	2.03	54,453,407
Total All Railroads.....	6	208	7	707	38	202	51	1,117	2.05	567,098,523

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			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS									
Alabama Great Southern Railroad Co.	---	---	---	---	7	---	---	---	---
Amtrak (National RR Passenger Corp)	1	146	4	---	412	5	---	602	1
Atchison, Topeka And Santa Fe Rwy Co.	1	31	---	---	441	2	2	230	---
Boston And Maine Corporation	---	5	---	---	36	---	---	41	---
Burlington Northern Incorporated	---	54	---	3	695	12	1	445	8
Central Of Georgia Railroad Company	---	1	---	---	12	---	---	---	---
Chessie System Railroads	---	43	---	1	517	3	1	337	1
Chicago And North Western	---	29	---	---	201	1	---	170	---
Cincinnati, New Orleans And TX Pac Co.	---	2	---	---	8	---	---	20	---
Consolidated Rail Corporation	---	117	4	3	456	5	3	329	3
Delaware And Hudson Railway	---	5	---	---	49	---	---	17	1
Denver And Rio Grande Western RR Co.	---	---	---	---	41	---	---	7	---
Elgin, Joliet And Eastern Railway Co.	---	5	---	---	7	---	---	7	---
Florida East Coast Railway Co.	---	---	---	---	4	---	---	5	---
Grand Trunk Western Railroad Co.	---	21	---	---	98	---	---	202	---
Illinois Central Gulf Railroad Co.	---	28	---	---	190	8	1	149	2
Kansas City Southern Railway Co.	---	3	---	---	37	---	---	30	---
Louisiana And Arkansas Rwy Company	---	1	---	---	16	---	---	1	---
Missouri-Kansas-Texas Railroad Co.	---	3	---	---	41	1	---	10	1
Norfolk And Western Railway Co.	---	26	---	---	334	5	---	215	---
Seaboard System Railroad	---	42	---	1	463	6	1	326	3
Soo Line Railroad Company	---	14	---	---	205	8	---	83	---
Southern Pacific Transportation Co.	---	101	4	1	264	7	1	227	2
Southern Railway Company	---	58	1	1	239	---	---	311	---
St. Louis Southwestern Railway Co.	---	4	---	---	26	1	---	15	---
Union Pacific Railroad Co.	---	103	1	4	799	2	2	392	1
Total Class I Railroads.....	2	842	14	14	5,598	66	12	4,171	23
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads	2	842	14	14	5,598	66	12	4,171	23
Class II Railroads	---	23	---	---	197	1	---	180	2
Class III Railroads	---	204	2	1	1,343	21	2	1,081	8
Total All Railroads.....	2	1,069	16	15	7,138	88	14	5,432	33

TABLE 42. (CONTINUED)

Railroad	V. Transportation Not train, engine			VI Transportation Train and Engine		
	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS						
Alabama Great Southern Railroad Co.	---	---	---	---	20	---
Amtrak (National RR Passenger Corp)	---	427	1	---	117	4
Atchison, Topeka And Santa Fe Rwy Co.	---	14	---	5	340	1
Boston And Maine Corporation	---	1	---	---	40	---
Burlington Northern Incorporated	---	29	---	2	783	17
Central Of Georgia Railroad Company	---	2	---	---	56	---
Chessie System Railroads	---	51	---	1	609	1
Chicago And North Western	---	21	---	---	226	---
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	19	1
Consolidated Rail Corporation	2	51	---	3	622	2
Delaware And Hudson Railway	---	---	---	---	42	---
Denver And Rio Grande Western RR Co.	---	1	---	---	33	---
Elgin, Joliet And Eastern Railway Co.	---	3	---	---	15	---
Florida East Coast Railway Co.	---	---	---	---	3	---
Grand Trunk Western Railroad Co.	---	10	---	---	221	---
Illinois Central Gulf Railroad Co.	---	24	---	1	280	1
Kansas City Southern Railway Co.	---	1	---	---	44	3
Louisiana And Arkansas Rwy Company	---	---	---	---	49	1
Missouri-Kansas-Texas Railroad Co.	---	---	---	1	28	---
Norfolk And Western Railway Co.	---	11	---	---	181	4
Seaboard System Railroad	---	18	---	1	688	1
Soo Line Railroad Company	---	20	1	1	238	2
Southern Pacific Transportation Co.	---	7	---	---	288	8
Southern Railway Company	---	9	---	1	342	---
St. Louis Southwestern Railway Co.	---	---	---	---	30	---
Union Pacific Railroad Co.	---	33	1	4	1,065	8
Total Class I Railroads.....	2	733	3	20	6,379	54

RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)

Class I Railroads	2	733	3	20	6,379	54
Class II Railroads	---	17	---	1	169	---
Class III Railroads	---	124	---	3	1,111	21
Total All Railroads.....	2	874	3	24	7,659	75

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

Railroad	Fatalities		Injuries		Illnesses		...Total...		Employee Manhours
	#	Rate	#	Rate	#	Rate	#	Rate	
Alabama Great Southern Railroad Co.	---	0.00	27	9.41	---	0.00	27	9.42	573,112
Amtrak (National RR Passenger Corp)	1	0.01	1,704	8.90	15	0.08	1,720	8.99	38,278,843
Atchison, Topeka And Santa Fe Rwy Co.	8	0.04	1,056	5.11	3	0.01	1,067	5.17	41,296,144
Boston And Maine Corporation	---	0.00	123	6.36	---	0.00	123	6.36	3,866,544
Burlington Northern Incorporated	6	0.02	2,006	6.05	37	0.11	2,049	6.18	66,332,228
Central Of Georgia Railroad Company	---	0.00	71	9.54	---	0.00	71	9.54	1,488,158
Chessie System Railroads	3	0.01	1,557	6.86	5	0.02	1,565	6.90	45,390,280
Chicago And North Western	---	0.00	647	6.37	1	0.01	648	6.38	20,323,034
Cincinnati, New Orleans And TX Pac Co.	---	0.00	49	7.54	1	0.15	50	7.69	1,300,237
Consolidated Rail Corporation	11	0.03	1,575	4.92	14	0.04	1,600	5.00	64,034,740
Delaware And Hudson Railway	---	0.00	113	10.72	1	0.09	114	10.82	2,107,699
Denver And Rio Grande Western RR Co.	---	0.00	82	3.35	---	0.00	82	3.35	4,899,807
Elgin, Joliet And Eastern Railway Co.	---	0.00	37	3.78	---	0.00	37	3.78	1,959,432
Florida East Coast Railway Co.	---	0.00	12	1.06	---	0.00	12	1.07	2,253,426
Grand Trunk Western Railroad Co.	---	0.00	552	12.90	---	0.00	552	12.90	8,555,103
Illinois Central Gulf Railroad Co.	2	0.03	671	9.28	11	0.15	684	9.46	14,467,847
Kansas City Southern Railway Co.	---	0.00	115	9.97	3	0.26	118	10.23	2,306,878
Louisiana And Arkansas Rwy Company	---	0.00	67	6.44	1	0.10	68	6.54	2,080,711
Missouri-Kansas-Texas Railroad Co.	1	0.04	82	3.61	2	0.09	85	3.74	4,541,416
Norfolk And Western Railway Co.	---	0.00	767	4.76	9	0.06	776	4.82	32,221,165
Seaboard System Railroad	3	0.01	1,537	6.25	10	0.04	1,550	6.30	49,206,158
Soo Line Railroad Company	1	0.01	560	7.43	11	0.15	572	7.59	15,077,679
Southern Pacific Transportation Co.	2	0.01	887	4.01	21	0.09	910	4.11	44,274,113
Southern Railway Company	2	0.01	959	7.03	1	0.01	962	7.05	27,274,357
St. Louis Southwestern Railway Co.	---	0.00	75	2.48	1	0.03	76	2.52	6,037,580
Union Pacific Railroad Co.	10	0.03	2,392	7.61	13	0.04	2,415	7.69	62,832,025
Total Class I Railroads.....	50	0.02	17,723	6.30	160	0.06	17,933	6.37	562,978,716
Class I Railroads	50	0.02	17,723	6.30	160	0.06	17,933	6.37	562,978,716
Class II Railroads	1	0.02	586	9.50	3	0.05	590	9.56	12,340,919
Class III Railroads	6	0.02	3,863	11.19	52	0.15	3,921	11.36	69,031,749
Total All Railroads.....	57	0.02	22,172	6.88	215	0.07	22,444	6.97	644,351,384

"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					Other Cases
		Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	27	13	10	3	277	16	14
Amtrak (National RR Passenger Corp)	1,704	1,336	1,163	173	12,640	2,016	368
Atchison, Topeka And Santa Fe Rwy Co.	1,056	648	450	198	6,178	3,283	408
Boston And Maine Corporation	123	85	62	23	1,264	276	38
Burlington Northern Incorporated	2,006	1,293	1,244	49	12,952	462	713
Central Of Georgia Railroad Company	71	52	47	5	1,201	73	19
Chessie System Railroads	1,557	1,109	1,032	77	16,007	866	448
Chicago And North Western	647	450	383	67	6,498	964	197
Cincinnati, New Orleans And TX Pac Co.	49	21	17	4	208	12	28
Consolidated Rail Corporation	1,575	1,144	769	375	31,095	7,373	431
Delaware And Hudson Railway	113	70	55	15	1,720	186	43
Denver And Rio Grande Western RR Co.	82	66	50	16	936	567	16
Elgin, Joliet And Eastern Railway Co.	37	16	13	3	262	62	21
Florida East Coast Railway Co.	12	10	2	8	10	167	2
Grand Trunk Western Railroad Co.	552	390	167	223	5,608	2,605	162
Illinois Central Gulf Railroad Co.	671	479	201	278	4,376	5,040	192
Kansas City Southern Railway Co.	115	94	94	---	1,246	---	21
Louisiana And Arkansas Rwy Company	67	63	63	---	797	---	4
Missouri-Kansas-Texas Railroad Co.	82	52	50	2	1,218	33	30
Norfolk And Western Railway Co.	767	549	444	105	7,376	723	218
Seaboard System Railroad	1,537	1,204	1,157	47	13,012	624	333
Soo Line Railroad Company	560	427	397	30	5,230	795	133
Southern Pacific Transportation Co.	887	644	365	279	7,989	3,369	243
Southern Railway Company	959	572	434	138	9,785	1,244	387
St. Louis Southwestern Railway Co.	75	46	20	26	486	353	29
Union Pacific Railroad Co.	2,392	1,811	1,030	781	12,864	8,447	581
Total Class I Railroads.....	17,723	12,644	9,719	2,925	161,235	39,556	5,079
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	30	20	20	---	263	---	10
Bessemer And Lake Erie Railroad Co.	17	4	3	1	101	10	13
Canadian Pacific Lines In Maine	6	1	1	---	42	---	5
Carolina And Northwestern Rwy Company	---	---	---	---	---	---	---
Central Vermont Railway Inc.	10	6	5	1	105	14	4
Chicago And Illinois Midland Rwy Co.	41	23	23	---	392	2	18
Chicago South Shore And South Bend RR	41	31	31	---	225	---	10
Duluth, Missabe And Iron Range Rwy Co.	57	29	12	17	297	112	28
Duluth, Winnipeg And Pacific Rwy Co.	6	6	3	3	15	35	---
Georgia Southern And Florida Railway	27	17	15	2	392	23	10
Green Bay And Western Railroad	14	13	13	---	394	---	1
Maine Central Railroad Company	40	36	30	6	611	93	4
Michigan Interstate Railroad	4	4	4	---	104	---	---
Monogahela Railway	35	32	32	---	506	39	3
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Oklahoma, Kansas Texas Railroad	12	6	6	---	102	---	6
Pittsburg And Lake Erie Railroad Co.	85	33	33	---	988	---	52
Richmond, Frederickburg And Potomac	58	49	42	7	235	32	9
Spokane International Railroad	6	5	3	2	85	43	1
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	97	48	43	5	608	25	49
Total Class II Railroads.....	586	363	319	44	5,465	428	223
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	17,723	12,644	9,719	2,925	161,235	39,556	5,079
Class II Railroads	586	363	319	44	5,465	428	223
Class III Railroads	3,863	2,923	2,679	244	39,082	3,219	940
Total All Railroads.....	22,172	15,930	12,717	3,213	205,782	43,203	6,242

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

Railroad	Total Cases	Fatalities	Total Injuries	Injuries Reported From Work	For Following Activity	Reasons. Medication	Medical Treatment	Occupational Illness
CLASS I RAILROADS								
Alabama Great Southern Railroad Co.	27	---	27	10	3	---	14	---
Amtrak (National RR Passenger Corp)	1,720	1	1,704	1,163	173	75	293	15
Atchison, Topeka And Santa Fe Rwy Co.	1,067	8	1,056	450	198	104	304	3
Boston And Maine Corporation	123	---	123	62	23	1	37	---
Burlington Northern Incorporated	2,049	6	2,006	1,244	49	234	479	37
Central Of Georgia Railroad Company	71	---	71	47	5	2	17	---
Chessie System Railroads	1,565	3	1,557	1,032	77	44	404	5
Chicago And North Western	648	---	647	383	67	110	87	1
Cincinnati, New Orleans And TX Pac Co	50	---	49	17	4	1	27	1
Consolidated Rail Corporation	1,600	11	1,575	769	375	79	352	14
Delaware And Hudson Railway	114	---	113	55	15	8	35	1
Denver And Rio Grande Western RR Co.	82	---	82	50	16	---	16	---
Elgin, Joliet And Eastern Railway Co.	37	---	37	13	3	10	11	---
Florida East Coast Railway Co.	12	---	12	2	8	---	2	---
Grand Trunk Western Railroad Co.	552	---	552	167	223	7	155	---
Illinois Central Gulf Railroad Co.	684	2	671	201	278	---	192	11
Kansas City Southern Railway Co.	118	---	115	94	---	---	21	3
Louisiana And Arkansas Rwy Company	68	---	67	63	---	---	4	1
Missouri-Kansas-Texas Railroad Co.	85	1	82	50	2	11	19	2
Norfolk And Western Railway Co.	776	---	767	444	105	3	215	9
Seaboard System Railroad	1,550	3	1,537	1,157	47	82	251	10
Soo Line Railroad Company	572	1	560	397	30	46	87	11
Southern Pacific Transportation Co.	910	2	887	365	279	---	243	21
Southern Railway Company	962	2	959	434	138	11	376	1
St. Louis Southwestern Railway Co.	76	---	75	20	26	---	29	1
Union Pacific Railroad Co.	2,415	10	2,392	1,030	781	254	327	13
Total Class I Railroads.....	17,933	50	17,723	9,719	2,925	1,082	3,997	160
RECAPITULATION								
Class I Railroads	17,933	50	17,723	9,719	2,925	1,082	3,997	160
Class II Railroads	590	1	586	319	44	110	113	3
Class III Railroads	3,921	6	3,863	2,679	244	156	784	52
Total All Railroads.....	22,444	57	22,172	12,717	3,213	1,348	4,894	215

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7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

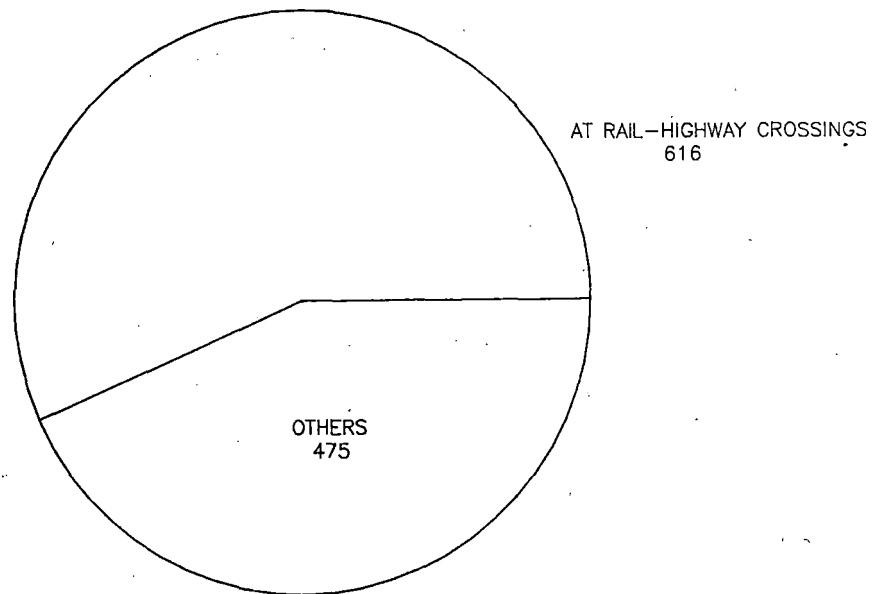


FIGURE 28. FATALITIES: RAIL-HIGHWAY CROSSINGS AND OTHER

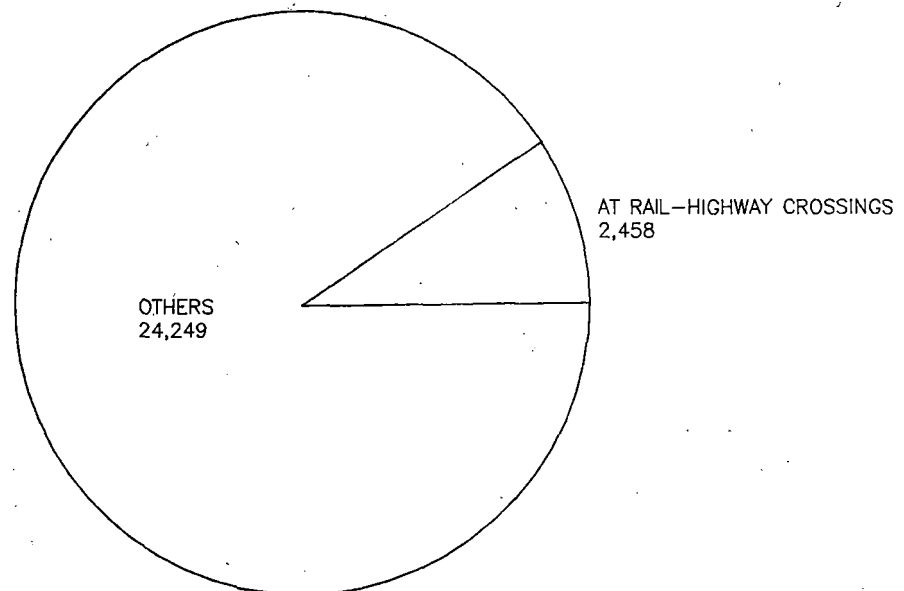


FIGURE 29. INJURIES: RAIL-HIGHWAY CROSSINGS AND OTHER

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

Type Of Accident/Incident	Total A/I W. Cas	Fatal A/I	Total Killed	...Employees On Duty...		Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS										
Class I Railroads.....	116	8	11	6	---	6	---	---	---	5
Class II Railroads.....	---	---	---	---	---	---	---	---	---	---
Class III Railroads.....	13	1	2	2	---	2	---	---	---	---
Total All Railroads.....	129	9	13	8	---	8	---	---	---	5
TRAIN INCIDENTS										
Class I Railroads.....	3,654	331	341	9	8	17	---	---	7	317
Class II Railroads.....	94	7	7	1	---	1	---	---	---	6
Class III Railroads.....	576	58	58	---	1	1	1	4	3	49
Total All Railroads.....	4,324	396	406	10	9	19	1	4	10	372
NONTRAIN INCIDENTS										
Class I Railroads.....	15,185	44	47	3	22	25	---	---	4	18
Class II Railroads.....	524	---	---	---	---	---	---	---	---	---
Class III Railroads.....	3,705	9	9	1	2	3	1	---	2	3
Total All Railroads.....	19,414	53	56	4	24	28	1	---	6	21
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,036	460	583	2	---	2	---	---	477	104
Class II Railroads.....	40	8	9	---	---	---	---	---	7	2
Class III Railroads.....	139	24	24	---	---	---	---	---	9	15
Total All Railroads.....	2,215	492	616	2	---	2	---	---	493	121
GRAND TOTAL										
Class I Railroads.....	20,991	843	982	20	30	50	---	---	488	444
Class II Railroads.....	658	15	16	1	---	1	---	---	7	8
Class III Railroads.....	4,433	92	93	3	3	6	2	4	14	67
Total All Railroads.....	26,082	950	1,091	24	33	57	2	4	509	519

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

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

Type Of Accident/Incident	Total A/I W. Cas	Injury A/I	Total Injured	...Employees Trainmen	On Duty... Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
TRAIN ACCIDENTS										
Class I Railroads.....	116	107	868	135	47	182	12	308	365	1
Class II Railroads.....	---	---	---	---	---	---	---	---	---	---
Class III Railroads.....	13	12	79	20	13	33	---	46	---	---
Total All Railroads.....	129	119	947	155	60	215	12	354	365	1
TRAIN INCIDENTS										
Class I Railroads.....	3,654	3,294	3,374	2,431	484	2,915	9	61	37	352
Class II Railroads.....	94	87	90	65	18	83	---	---	2	5
Class III Railroads.....	576	517	520	374	60	434	2	38	13	33
Total All Railroads.....	4,324	3,898	3,984	2,870	562	3,432	11	99	52	390
NONTRAIN INCIDENTS										
Class I Railroads.....	15,185	15,022	15,151	3,740	10,795	14,535	325	51	183	57
Class II Railroads.....	524	521	521	102	397	499	2	6	14	---
Class III Railroads.....	3,705	3,645	3,646	713	2,678	3,391	34	113	96	12
Total All Railroads.....	19,414	19,188	19,318	4,555	13,870	18,425	361	170	293	69
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,036	1,576	2,196	73	18	91	---	4	1,891	210
Class II Railroads.....	40	32	102	2	2	4	---	55	38	5
Class III Railroads.....	139	115	160	4	1	5	---	4	120	31
Total All Railroads.....	2,215	1,723	2,458	79	21	100	---	63	2,049	246
GRAND TOTAL										
Class I Railroads.....	20,991	19,999	21,589	6,379	11,344	17,723	346	424	2,476	620
Class II Railroads.....	658	640	713	169	417	586	2	61	54	10
Class III Railroads.....	4,433	4,289	4,405	1,111	2,752	3,863	36	201	229	76
Total All Railroads.....	26,082	24,928	26,707	7,659	14,513	22,172	384	686	2,759	706

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

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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				
TRAIN ACCIDENTS									
Class I Railroads.....	116	1	1	1	---	1	---	---	---
Class II Railroads.....	---	---	---	---	---	---	---	---	---
Class III Railroads.....	13	---	---	---	---	---	---	---	---
Total All Railroads.....	129	1	1	1	---	1	---	---	---
TRAIN INCIDENTS									
Class I Railroads.....	3,654	29	37	31	6	37	---	---	---
Class II Railroads.....	94	---	---	---	---	---	---	---	---
Class III Railroads.....	576	1	1	1	---	1	---	---	---
Total All Railroads.....	4,324	30	38	32	6	38	---	---	---
NONTRAIN INCIDENTS									
Class I Railroads.....	15,185	119	123	22	100	122	---	1	---
Class II Railroads.....	524	3	3	---	3	3	---	---	---
Class III Railroads.....	3,705	51	51	20	31	51	---	---	---
Total All Railroads.....	19,414	173	177	42	134	176	---	1	---
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	2,036	---	---	---	---	---	---	---	---
Class II Railroads.....	40	---	---	---	---	---	---	---	---
Class III Railroads.....	139	---	---	---	---	---	---	---	---
Total All Railroads.....	2,215	---	---	---	---	---	---	---	---
GRAND TOTAL									
Class I Railroads.....	20,991	149	161	54	106	160	---	1	---
Class II Railroads.....	658	3	3	---	3	3	---	---	---
Class III Railroads.....	4,433	52	52	21	31	52	---	---	---
Total All Railroads.....	26,082	204	216	75	140	215	---	1	---

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

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

Type of Accident/Incident	Amputations.....						Fractures.....					
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
TRAIN ACCIDENTS												
Collisions	---	---	---	---	---	---	1	1	1	---	19	22
Derailments	---	---	---	---	---	---	3	---	6	---	24	33
Rail-highway x-ing	---	---	1	---	---	1	3	1	2	---	5	11
Miscellaneous	---	---	---	---	---	---	---	---	1	---	2	3
Total.....	---	---	1	---	---	1	7	2	10	---	50	69
TRAIN INCIDENTS												
Coupling and uncoupling locomotives or Coupling/uncoupling air/steam hose, saf	2	2	1	1	---	6	6	4	3	2	3	18
Operating or on locomotives.....	---	---	2	---	---	2	---	1	---	---	4	5
Operating rail motorcars.....	---	---	---	---	---	---	3	7	2	2	6	20
Operating hand brakes.....	1	---	---	---	---	1	2	---	---	---	1	3
Operating switches or derails.....	---	---	1	---	---	1	3	4	2	---	1	10
Contacting fixed objects while on loco	---	1	---	---	---	1	---	---	---	---	---	---
Getting on or off cars or locomotives.	1	3	24	2	---	30	15	9	37	6	21	88
Collisions, derailments, etc. (<= \$4,9	---	---	1	1	---	2	2	2	---	---	4	8
Rail-highway crossing accidents/incide	2	1	8	---	---	11	35	2	79	2	151	269
Struck by/ran into loco/car(not at rr-	11	---	65	5	2	83	19	2	30	1	31	83
Servicing or maintenance of equipment.	1	---	---	---	---	1	3	3	3	---	4	13
Maintenance of way and structures.....	---	1	---	---	---	1	2	8	1	5	6	22
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	1	---	---	---	1
Windows, doors, etc., on on-track equi	---	1	---	---	---	1	---	8	---	1	---	9
Passenger car doors.....	---	---	---	---	---	---	---	1	---	---	---	1
Stumbling, slipping, falling, caught,	1	---	8	3	---	12	3	3	7	---	11	24
Flying or falling objects, burns, etc.	---	---	---	---	---	---	---	---	3	---	---	3
Operation of on-track work equipment..	---	---	---	---	---	---	3	2	2	---	4	11
Assault.....	---	---	---	---	---	---	---	---	1	---	4	5
Other occurrences.....	---	---	1	---	---	1	6	11	1	2	18	38
Total.....	19	9	111	12	2	153	103	68	174	22	276	643
NONTRAIN INCIDENTS												
Coupling and uncoupling locomotives or	---	1	---	---	---	1	4	14	5	10	4	37
Coupling/uncoupling air/steam hose, saf	---	---	---	1	---	1	5	7	3	---	1	16
Operating or on locomotives.....	---	---	---	---	---	---	2	7	3	3	2	17
Operating rail motorcars.....	---	---	---	---	---	---	1	2	1	---	---	4
Operating hand brakes.....	---	1	---	---	---	1	8	6	---	2	7	23
Operating switches or derails.....	---	---	---	---	---	---	5	15	4	9	7	40
Contacting fixed objects while on loco	---	---	---	---	---	---	1	---	---	---	---	1
Getting on or off cars or locomotives.	1	---	2	1	---	4	22	2	50	3	14	91
Collisions, derailments, etc. (<= \$4,9	---	---	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	---	---	---	---	---	---	2	---	2	---	2	6
Struck by/ran into loco/car(not at rr-	---	---	---	---	---	---	1	---	4	---	---	5
Servicing or maintenance of equipment.	---	7	1	---	---	8	70	158	48	66	39	381
Maintenance of way and structures.....	---	19	---	2	---	21	79	254	142	99	54	628
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	4	1	---	2	7
Windows, doors, etc., on on-track equi	---	1	---	---	---	1	12	32	3	2	---	49
Passenger car doors.....	---	---	---	---	---	---	1	1	---	---	---	2
Stumbling, slipping, falling, caught,	---	---	1	---	---	1	52	18	79	5	39	193
Flying or falling objects, burns, etc.	---	1	---	---	---	1	1	3	3	3	2	12
Operation of on-track work equipment..	---	1	---	---	---	1	3	4	1	---	1	9
Assault.....	---	---	---	1	---	1	5	3	2	---	2	12
Other occurrences.....	2	1	---	---	---	3	15	35	19	13	32	114
Total.....	3	32	4	5	---	44	289	565	370	215	208	1,647
Grand Total.....	22	41	116	17	2	198	399	635	554	237	534	2,359

TABLE 49. (CONTINUED)

Type of Accident/Incident	Other Injuries.....								Total	Total Injured
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other		
TRAIN ACCIDENTS										
Collisions	44	73	24	---	---	3	1	41	186	208
Deraillments	105	111	59	---	3	---	---	396	674	707
Rail-highway x-ing	76	24	22	---	2	---	2	31	157	169
Miscellaneous	12	13	2	---	---	1	---	1	29	32
Total.....	237	221	107	---	5	4	3	469	1,046	1,116
TRAIN INCIDENTS										
Coupling and uncoupling locomotives or	57	109	25	---	1	---	9	8	209	233
Coupling/uncoupling air/steam hose, saf	9	4	4	---	---	---	2	---	19	26
Operating or on locomotives.....	101	199	35	3	5	1	205	56	605	625
Operating rail motorcars.....	5	6	1	---	---	---	2	1	15	18
Operating hand brakes.....	25	56	12	---	---	3	2	3	101	112
Operating switches or derails.....	6	19	3	---	---	3	1	5	37	38
Contacting fixed objects while on loco	60	15	12	---	1	---	2	6	96	109
Getting on or off cars or locomotives.	169	462	75	---	---	12	1	20	739	857
Collisions, derailments, etc. (<= \$4,9	30	43	8	---	---	1	---	8	90	100
Rail-highway crossing accidents/incide	658	180	513	1	5	12	3	582	1,954	2,234
Struck by/ran into loco/car(not at rr-	58	16	74	---	---	2	---	45	195	361
Servicing or maintenance of equipment.	29	35	19	---	1	1	---	7	92	106
Maintenance of way and structures.....	37	24	8	---	---	---	2	13	84	107
Freight, baggage, express or mail.....	3	9	1	---	---	---	---	2	15	16
Windows, doors, etc., on on-track equi	30	25	21	---	---	1	3	---	80	90
Passenger car doors.....	3	2	1	---	---	---	---	---	6	7
Stumbling, slipping, falling, caught,	41	79	27	---	---	---	---	17	164	200
Flying or falling objects, burns, etc.	21	---	43	1	17	---	207	18	307	310
Operation of on-track work equipment..	30	41	23	---	---	3	---	2	99	110
Assault.....	25	3	22	---	---	---	13	12	75	80
Other occurrences.....	151	193	58	---	---	3	7	28	440	479
Total.....	1,548	1,520	985	5	30	42	459	833	5,422	6,218
NONTRAIN INCIDENTS										
Coupling and uncoupling locomotives or	91	355	44	---	1	4	7	18	520	558
Coupling/uncoupling air/steam hose, saf	54	94	45	---	---	1	11	9	214	231
Operating or on locomotives.....	92	155	41	6	4	2	50	35	385	402
Operating rail motorcars.....	6	21	2	---	---	1	---	2	32	36
Operating hand brakes.....	62	222	26	---	1	2	2	18	333	357
Operating switches or derails.....	69	795	26	---	---	5	14	34	943	983
Contacting fixed objects while on loco	7	7	11	---	---	---	---	1	26	27
Getting on or off cars or locomotives.	222	499	83	1	1	11	1	9	827	922
Collisions, derailments, etc. (<= \$4,9	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	17	1	16	---	---	---	---	15	49	55
Struck by/ran into loco/car(not at rr-	4	2	3	---	---	---	---	2	11	16
Servicing or maintenance of equipment.	776	1,926	798	42	175	16	315	234	4,282	4,671
Maintenance of way and structures.....	934	2,778	1,149	32	111	38	261	417	5,720	6,369
Freight, baggage, express or mail.....	34	83	14	---	---	2	3	13	149	156
Windows, doors, etc., on on-track equi	82	156	78	---	---	1	2	8	327	377
Passenger car doors.....	6	---	6	---	---	---	---	---	12	14
Stumbling, slipping, falling, caught,	373	898	160	---	2	15	---	54	1,502	1,696
Flying or falling objects, burns, etc.	28	20	62	13	21	---	224	40	408	421
Operation of on-track work equipment..	19	40	9	---	---	1	---	3	72	82
Assault.....	66	58	45	---	---	1	2	20	192	205
Other occurrences.....	293	750	226	2	13	13	25	356	1,678	1,795
Total.....	3,235	8,860	2,844	96	329	113	917	1,288	17,682	19,373
Grand Total.....	5,020	10,601	3,936	101	364	159	1,379	2,590	24,150	26,707

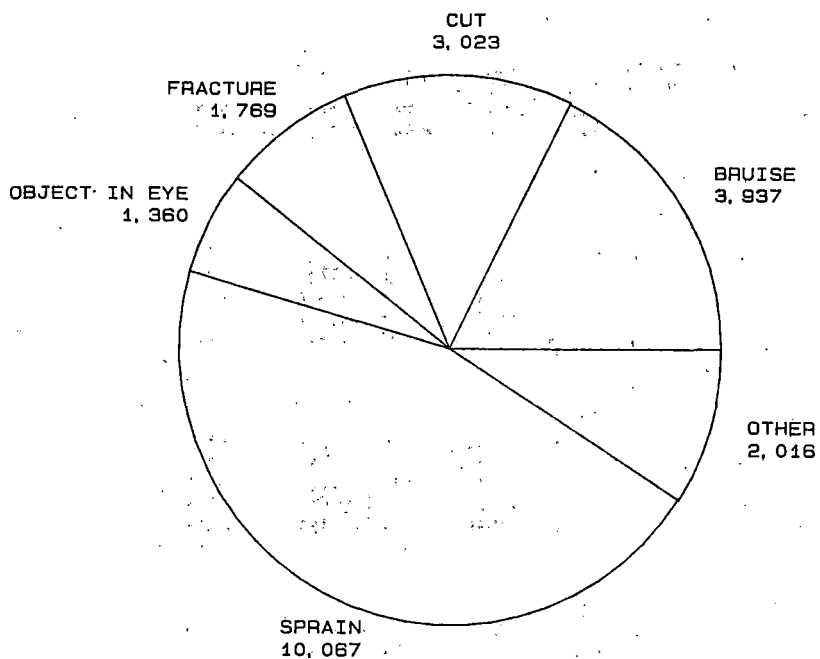
TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON

Type Person	Amputations.....					Fractures.....				
	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand Finger	Leg/ Foot	Toe	Other Part	Total
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen	---	1	---	---	1	5	1	3	3	13
Firemen and Helpers	---	---	---	---	---	1	---	---	1	2
Conductors and Foremen	1	---	3	1	5	11	11	6	7	41
Brakemen and Helpers	3	2	4	---	9	25	23	36	14	124
Total.....	4	3	7	1	15	42	35	45	24	180
FREIGHT SERVICE:										
Engineers and Motormen	---	---	---	---	---	5	7	8	1	26
Firemen and Helpers	---	---	---	---	---	1	1	1	---	4
Conductors and Foremen	---	---	---	2	2	8	21	17	4	73
Brakemen and Helpers	1	2	1	2	6	18	40	37	12	147
Total.....	1	2	1	4	8	32	69	63	17	250
PASSENGER SERVICE:										
Engineers and Motormen	---	---	---	---	---	---	2	1	---	4
Firemen and Helpers	---	---	---	---	---	---	1	1	---	2
Conductors and Foremen	---	---	---	---	---	6	5	---	2	18
Baggagemen	---	---	---	---	---	---	---	---	---	---
Brakemen and Helpers	---	---	---	---	---	1	2	2	2	8
Total.....	---	---	---	---	---	7	10	4	4	32
HOSTLERS	---	---	---	---	---	---	4	4	---	8
--SUMMARY--										
Total employees on duty	9	34	12	7	62	290	610	374	223	1,769
Employees not on duty	---	---	---	---	---	13	8	16	4	49
Passengers	---	---	2	1	3	14	8	20	3	99
Nontrespassers	1	3	6	---	10	57	9	101	4	321
Trespassers	12	4	96	9	123	25	---	43	3	121
Grand total	22	41	116	17	198	399	635	554	237	2,359

TABLE 50. (CONTINUED)

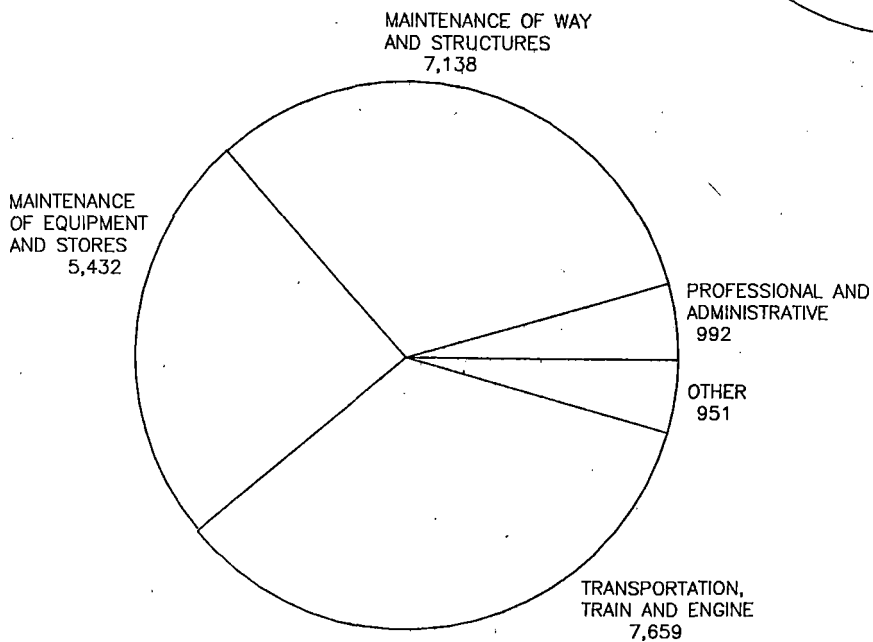
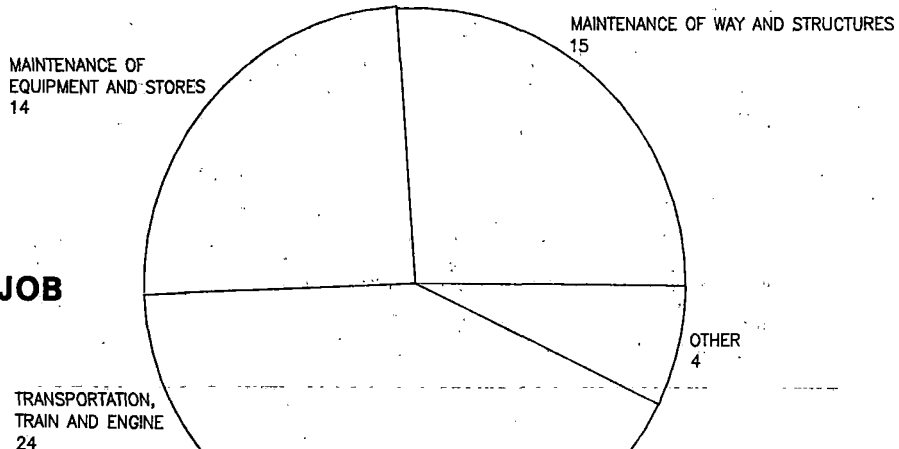
Type Person	Other Injuries.....								Total Injured	
	Sprain/ Bruise Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other	Total		
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen	70	149	29	1	1	1	53	29	333	347
Firemen and Helpers	6	17	1	—	1	—	11	1	37	39
Conductors and Foremen	108	311	62	1	2	7	43	22	556	602
Brakemen and Helpers	387	1,104	175	2	6	10	196	69	1,949	2,082
Total.....	571	1,581	267	4	10	18	303	121	2,875	3,070
FREIGHT SERVICE:										
Engineers and Motormen	100	255	44	3	3	6	71	36	518	544
Firemen and Helpers	13	42	13	—	2	2	17	3	92	96
Conductors and Foremen	160	431	80	1	5	5	61	43	786	861
Brakemen and Helpers	411	1,069	199	—	17	20	146	99	1,961	2,114
Total.....	684	1,797	336	4	27	33	295	181	3,357	3,615
PASSENGER SERVICE:										
Engineers and Motormen	33	75	16	1	—	—	22	21	168	172
Firemen and Helpers	7	7	—	—	1	—	5	3	23	25
Conductors and Foremen	129	193	50	4	1	2	49	30	458	476
Baggagemen	1	2	—	—	—	—	—	—	3	3
Brakemen and Helpers	16	34	10	—	—	1	6	7	74	82
Total.....	186	311	76	5	2	3	82	61	726	758
HOSTLERS	24	75	11	—	—	1	10	9	130	138
—SUMMARY—										
Total employees on duty	3,937	10,067	3,023	89	349	133	1,360	1,383	20,341	22,172
Employees not on duty	69	169	50	—	4	1	7	35	335	384
Passengers	200	130	154	—	3	5	2	90	584	686
Nontrespassers	713	213	557	4	7	14	10	910	2,428	2,759
Trespassers	101	22	152	8	1	6	—	172	462	706
Grand total	5,020	10,601	3,936	101	364	159	1,379	2,590	24,150	26,707

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	Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
I N J U R I E S							
Bruise - Contusion--Arm or hand.	690	520	389	131	5,131	1,295	170
Fingers.....	448	238	155	83	1,768	732	210
Leg or foot.	1,235	990	763	227	8,718	2,542	245
Toes.....	118	88	70	18	711	163	30
Torso.....	1,006	809	661	148	10,569	2,134	197
Other parts.	440	330	300	30	4,198	400	110
Sprain - Strain--							
Arm or hand.	701	546	387	159	5,706	1,957	155
Fingers.....	148	98	74	24	964	453	50
Leg or foot.	2,306	2,017	1,616	401	26,267	5,708	289
Toes.....	20	15	13	2	210	35	5
Torso.....	6,194	5,268	4,294	974	70,073	12,672	926
Other parts.	698	567	484	83	7,402	1,072	131
Cut or Laceration--							
Arm or hand.	598	250	179	71	2,375	752	348
Fingers.....	978	416	273	143	3,166	1,716	562
Leg or foot.	380	214	156	58	2,098	673	166
Toes.....	15	13	12	1	253	24	2
Head or Face	959	326	270	56	2,716	524	633
Torso.....	47	28	25	3	378	31	19
Other parts.	46	19	18	1	458	10	27
Electrical burn or shock.....	89	72	62	10	1,231	104	17
Other burns.....	349	194	148	46	1,840	393	155
Dislocation.....	133	114	95	19	2,193	565	19
Fracture--							
Arm or hand.	290	250	197	53	5,255	1,644	40
Fingers.....	610	376	227	149	4,099	2,914	234
Leg or foot.	374	336	298	38	10,700	1,377	38
Toes.....	223	170	142	28	2,365	535	53
Head or Face	50	34	33	1	1,068	3	16
Torso.....	206	177	153	24	4,822	738	29
Other parts.	16	15	12	3	404	79	1
Amputation--							
Arm or hand.	9	9	9	---	646	---	---
Fingers.....	34	28	21	7	692	117	6
Leg or foot.	12	11	11	---	2,035	5	1
Toes.....	7	7	7	---	592	---	---
Other parts.	---	---	---	---	---	---	---
Dust or other object in eye.....	1,360	569	456	113	1,893	390	791
Hernia.....	155	144	132	12	4,348	403	11
Concussion.....	41	36	32	4	445	33	5
Nervous shock.....	13	11	11	---	283	---	2
Internal injuries.....	29	25	25	---	1,293	3	4
Loss of eye.....	1	1	1	---	150	---	---
Puncture type wound.....	345	144	118	26	1,225	280	201
Dental related injuries.....	90	12	12	---	111	6	78
Skin reaction (one-time exposure	131	56	49	7	214	41	75
Not otherwise classified.....	578	387	327	60	4,717	680	191
Total nonfatal injuries.....	22,172	15,930	12,717	3,213	205,782	43,203	6,242
I L L N E S S E S							
Skin diseases or disorders.....	52	28	26	2	105	28	24
Dust diseases of the lungs.....	3	2	2	---	44	---	1
Respiratory conditions.....	75	57	53	4	305	38	18
Poisoning.....	4	3	3	---	19	18	1
Disorders due to physical agents	48	23	19	4	87	9	25
Disorders due to repeated trauma	14	8	7	1	54	4	6
All other occupational illnesses	19	9	9	---	37	5	10
Total nonfatal illnesses.....	215	130	119	11	651	102	85
-----F A T A L I T I E S-----							
Fatal injuries.....	57						
Fatal illnesses.....	---						
Total fatalities..	57						

TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

	Killed	Injured	Illness	Total
EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS				
Executives and general officers.....	---	7	---	7
Corporate staff managers.....	---	36	1	37
Regional and division officers, assistants and staff assistants....	---	23	---	23
Transportation officers/managers.....	---	11	---	11
Subtotal.....	---	77	1	78
PROFESSIONAL AND ADMINISTRATIVE				
Professional and administrative (miscellaneous).....	---	2	---	2
Professional.....	---	17	---	17
Subprofessionals.....	---	15	1	16
Auditors, traveling auditors or accountants.....	---	6	---	6
General and administrative supervisors.....	---	27	1	28
Sales and traffic representatives and agents.....	---	13	---	13
Freight and other claim agents and investigators.....	---	15	---	15
Supervising and chief claim agents.....	---	4	---	4
Lieutenants and sergeants of police.....	---	42	---	42
Police officers, watchmen and guards (except crossing & bridge)....	1	216	2	219
Inspectors, (except MOW & MOE), other investigators, examiners, etc	---	14	---	14
Buyers, and sales agents.....	---	18	2	20
Clerical technicians and clerical specialists.....	---	37	---	37
Office machine and data equipment operators.....	---	37	---	37
Secretaries, stenographers, and typists.....	---	25	---	25
General and other clerks (except yard clerk and crew dispatcher)...	1	277	4	282
Telephone and switchboard operators.....	---	2	---	2
Building and office attendants.....	---	84	1	85
Messengers and office persons.....	---	19	---	19
Motor vehicle operators.....	---	122	4	126
Subtotal.....	2	992	15	1,009
MAINTENANCE OF WAY AND STRUCTURES				
Supervisors, maintenance of way, structures, communication & signals	1	91	3	95
Maintenance of way, structures, comm. & signals, & scale inspectors	1	80	2	83
Bridge and building gang foreman.....	---	99	4	103
Bridge and building carpenters.....	---	352	1	353
Bridge and building ironworkers.....	---	121	1	122
Bridge and building painters.....	2	36	1	39
Masons, bricklayers, plasterers, and plumbers.....	1	275	3	279
Bridge and building helpers and apprentices.....	---	197	3	200
Bridge and building gang and bridge and building dept laborers.....	---	70	---	70
Track gang foremen (extra gang work train laborers).....	1	159	3	163
Gang or section foreman.....	4	490	5	499
Extra gang laborers.....	2	985	6	993
Section laborers.....	2	2,299	31	2,332
Machine operators.....	---	944	11	955
Gang foremen, communications and signals.....	---	58	1	59
Signalmen and signal maintainers.....	1	517	6	524
Linenen and groundmen and communications craftsman.....	---	229	4	233
Assistant signalmen and assistant signal maintainers.....	---	102	1	103
Signal helpers and signal maintainer helpers.....	---	23	2	25
Camp car cooks.....	---	11	---	11
Subtotal.....	15	7,138	88	7,241

TABLE 52. (CONTINUED)

	Killed	Injured	Illness	Total
MAINTENANCE OF EQUIPMENT AND STORES				
Supervisors and general foremen, maintenance of equipment.....	---	66	1	67
Supervisors and general foremen, materials and stores.....	---	6	---	6
Equipment, shop, electrical inspectors.....	---	42	---	42
Materials and supplies inspectors.....	---	2	1	3
Storekeeper.....	---	63	---	63
Gang foremen, maintenance of equipment.....	1	108	---	109
Blacksmiths.....	---	40	---	40
Boilermakers.....	---	86	1	87
Carmen (freight).....	6	1,472	9	1,487
Carmen (other).....	2	530	3	535
Electrical workers (A).....	4	623	3	630
Electrical workers (B).....	---	22	---	22
Electrical workers (C).....	---	22	---	22
Machinists.....	---	1,048	6	1,054
Sheet metal workers.....	---	218	2	220
Skilled trades, helpers, maintenance of equipment and stores.....	---	188	3	191
Apprentices, maintenance of equipment and stores.....	---	35	1	36
Coach cleaners.....	---	240	2	242
Laborers: shops, enginehouses and power plants.....	1	446	1	448
Gang foremen, materials and stores.....	---	15	---	15
Equipment operators and general laborers, materials and stores.....	---	152	---	152
Stationary engineers.....	---	6	---	6
Stationary firemen.....	---	2	---	2
Subtotal.....	14	5,432	33	5,479
TRANSPORTATION, OTHER THAN TRAIN AND ENGINE				
Transportation supervisor and chief train dispatcher.....	---	11	---	11
Train dispatchers.....	---	14	---	14
Station, freight and passenger agents.....	---	24	---	24
Clerk operators, towerman, train directors.....	---	90	1	91
Station masters & assts, supervising bag. agents, bag. agents, etc.	---	13	---	13
Baggage, parcel room and station attendents.....	---	88	---	88
General & asst gnr'l foremen, stations, warehouses, grain elev., docks.	---	3	---	3
Gang foremen, stations, warehouses, grain elevators and docks.....	---	4	---	4
Grain elevator, and dock laborers.....	2	84	---	86
Station, and warehouse laborers.....	---	55	1	56
Truckers (station, warehouse and platforms).....	---	29	---	29
Food and lodging manager, supervisors.....	---	48	---	48
Transportation and dining-service inspectors.....	---	2	---	2
Waiters and kitchen helpers (restaurant and dining car).....	---	48	---	48
Chefs and cooks (restaurant and dining car).....	---	25	1	26
Marine officers and workers and shore workers.....	---	7	---	7
Train attendants.....	---	184	---	184
Bridge operators and helpers.....	---	11	---	11
Bridge and crossing flagmen and gatemen.....	---	1	---	1
Yards clerks.....	---	95	---	95
Crew dispatchers.....	---	16	---	16
Yardmasters and assistant yardmasters.....	---	22	---	22
Subtotal.....	2	874	3	879
TRANSPORTATION, TRAIN AND ENGINE				
Transportation, train and engine (miscellaneous).....	---	21	---	21
Switchtenders.....	---	22	---	22
Car retarder operators and ground service employees.....	---	2	---	2
Outside hostlers.....	1	111	---	112
Outside hostler helpers.....	---	27	---	27
Inside hostler.....	---	33	---	33
Road passenger conductors.....	---	319	2	321
Assistant road passenger conductors and ticket collectors.....	---	157	1	158
Road freight conductors (through freight).....	3	445	8	456
Road freight conductors (local and way freight).....	4	416	2	422
Road passenger baggageperson.....	---	3	---	3
Road Passenger brakemen and flagmen.....	---	82	---	82
Road freight brakemen and flagmen (through freight).....	4	1,111	7	1,122
Road freight brakemen and flagmen (local and way freight).....	3	1,003	4	1,010
Yard conductors and yard foremen.....	---	602	4	606
Yard brakemen and yard helpers.....	3	2,082	22	2,107
Road passenger engineers and motormen.....	---	172	4	176
Road freight engineers (through freight).....	2	331	4	337
Road freight engineers (local and way freight).....	2	213	4	219
Yard engineers.....	---	347	8	355
Road passenger firemen and helpers.....	1	25	1	27
Road freight firemen and helpers (through freight).....	---	61	2	63
Road freight firemen and helpers (local and way freight).....	---	35	1	36
Yard firemen and helpers.....	1	39	1	41
Subtotal.....	24	7,659	75	7,758
Total.....	57	22,172	215	22,444

TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	---	---	---	6	6
Derailments	---	---	---	---	---	2	2
Rail-highway x-ing	---	---	---	---	---	2	2
Miscellaneous	---	---	---	---	---	---	---
Total.....	---	---	---	---	---	10	10
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	2	2
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars..	---	---	---	---	---	1	1
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	1	1
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	4	---	---	5	9
Servicing or maintenance of equipment.....	---	---	---	2	---	---	2
Maintenance of way and structures.....	---	---	2	---	---	---	2
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C....	---	---	---	---	---	---	---
Operation of on-track work equipment.....	---	---	1	---	---	---	1
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	---	---	1	1
Total.....	---	---	7	2	---	10	19
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	1	1
Contacting fixed objects while on locos or cars..	---	---	---	1	---	---	1
Getting on or off cars or locomotives.....	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	---	6	---	---	6
Maintenance of way and structures.....	---	---	7	---	---	---	7
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....	---	---	---	---	2	1	3
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	1	---	---	1
Other occurrences.....	---	2	1	4	---	---	7
Total.....	---	2	8	12	2	4	28
Grand total.....	---	2	15	14	2	24	57

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

TABLE 54. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	3	1	3	72	79
Derailments	2	---	3	4	30	66	105
Rail-highway x-ing	---	---	---	---	---	35	35
Miscellaneous	1	---	6	7	---	17	31
Total.....	3	---	12	12	33	190	250
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	1	7	2	223	233
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	1	---	25	26
Operating or on locomotives.....	---	1	1	11	1	609	623
Operating rail motorcars.....	---	1	14	---	1	2	18
Operating hand brakes.....	---	---	1	---	---	111	112
Operating switches or derails.....	---	---	---	---	---	37	37
Contacting fixed objects while on locos or cars..	1	---	5	4	3	90	103
Getting on or off cars or locomotives.....	1	---	3	4	8	751	767
Collisions, derailments, etc. (<= \$4,901).....	---	---	7	7	---	68	82
Rail-highway crossing accidents/incidents.....	2	2	12	3	2	44	65
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	2	5	4	---	18	29
Servicing or maintenance of equipment.....	---	1	7	76	21	1	106
Maintenance of way and structures.....	---	2	96	3	---	2	103
Freight, baggage, express or mail.....	---	---	---	---	12	4	16
Windows, doors, etc., on on-track equipment.....	---	1	3	3	5	64	76
Passenger car doors.....	---	---	---	---	2	4	6
Stumbling, slipping, falling, caught, N.O.C.....	1	2	2	5	25	117	152
Flying or falling objects, burns, etc., N.O.C....	1	---	4	2	23	274	304
Operation of on-track work equipment.....	1	1	86	4	2	14	108
Assault.....	---	---	---	---	---	78	78
Other occurrences.....	3	1	5	10	56	378	453
Total.....	10	14	252	144	163	2,914	3,497
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	2	4	24	2	524	556
Coupling/uncoupling air/steam hose, safety chains.	---	---	1	32	3	195	231
Operating or on locomotives.....	---	1	6	36	6	351	400
Operating rail motorcars.....	---	---	25	1	---	10	36
Operating hand brakes.....	---	---	2	13	1	340	356
Operating switches or derails.....	1	1	23	23	11	923	982
Contacting fixed objects while on locos or cars..	---	1	---	6	2	16	25
Getting on or off cars or locomotives.....	1	22	26	129	18	640	836
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	---	---	---	---	---	3	3
Servicing or maintenance of equipment.....	5	64	304	4,098	84	76	4,631
Maintenance of way and structures.....	20	91	5,800	333	27	22	6,293
Freight, baggage, express or mail.....	---	16	3	9	115	7	150
Windows, doors, etc., on on-track equipment.....	1	17	50	110	26	156	360
Passenger car doors.....	---	---	1	2	1	4	8
Stumbling, slipping, falling, caught, N.O.C.....	10	183	159	192	132	647	1,323
Flying or falling objects, burns, etc., N.O.C....	2	35	22	41	54	221	375
Operation of on-track work equipment.....	---	---	67	6	---	---	73
Assault.....	1	88	12	13	6	65	185
Other occurrences.....	23	457	369	208	190	355	1,602
Total.....	64	978	6,874	5,276	678	4,555	18,425
Grand total.....	77	992	7,138	5,432	874	7,659	22,172

* 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	Total Cases	Cases With Lost Day Cases	Days Away From Work Cases	Days Of Restriction Restriction	Days Of Restriction	Other Cases
TRAIN ACCIDENTS							
Collisions	79	62	58	4	1,508	73	17
Derailments	105	91	87	4	1,893	42	14
Rail-highway x-ing	35	32	27	5	946	71	3
Miscellaneous	31	25	21	4	252	94	6
Total.....	250	210	193	17	4,599	280	40
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	233	204	169	35	3,066	542	29
Coupling/uncoupling air/steam hose, safety chains.	26	22	16	6	536	67	4
Operating or on locomotives.....	623	462	397	65	4,921	810	161
Operating rail motorcars.....	18	15	11	4	215	109	3
Operating hand brakes.....	112	97	67	30	887	509	15
Operating switches or derails.....	37	32	23	9	473	186	5
Contacting fixed objects while on locos or cars..	103	79	65	14	1,294	273	24
Getting on or off cars or locomotives.....	767	697	582	115	11,342	1,803	70
Collisions, derailments, etc. (<= \$4,901).....	82	72	68	4	1,719	81	10
Rail-highway crossing accidents/incidents.....	65	56	51	5	819	122	9
Struck by/ran into loco/car(not at rr-hwy x-ing).	29	25	25	---	576	---	4
Servicing or maintenance of equipment.....	106	79	61	18	1,072	192	27
Maintenance of way and structures.....	103	69	57	12	1,022	222	34
Freight, baggage, express or mail.....	16	14	13	1	143	5	2
Windows, doors, etc., on on-track equipment.....	76	58	49	9	588	92	18
Passenger car doors.....	6	3	3	---	13	---	3
Stumbling, slipping, falling, caught, N.O.C.....	152	139	124	15	3,591	258	13
Flying or falling objects, burns, etc., N.O.C....	304	148	120	28	761	139	156
Operation of on-track work equipment.....	108	83	68	15	967	211	25
Assault.....	78	63	55	8	1,241	90	15
Other occurrences.....	453	357	316	41	5,347	630	96
Total.....	3,497	2,774	2,340	434	40,593	6,341	723
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	556	462	369	93	6,784	1,320	94
Coupling/uncoupling air/steam hose, safety chains.	231	176	138	38	2,072	642	55
Operating or on locomotives.....	400	303	274	29	3,458	586	97
Operating rail motorcars.....	36	26	21	5	253	104	10
Operating hand brakes.....	356	300	245	55	4,942	784	56
Operating switches or derails.....	982	860	688	172	11,875	2,740	122
Contacting fixed objects while on locos or cars..	25	16	14	2	160	128	9
Getting on or off cars or locomotives.....	836	713	589	124	9,420	1,995	123
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing).	3	3	3	---	12	---	---
Servicing or maintenance of equipment.....	4,631	3,095	2,335	760	35,109	9,578	1,536
Maintenance of way and structures.....	6,293	4,067	3,024	1,043	48,003	12,630	2,226
Freight, baggage, express or mail.....	150	138	118	20	2,340	212	12
Windows, doors, etc., on on-track equipment.....	360	261	207	54	2,972	757	99
Passenger car doors.....	8	7	5	2	52	59	1
Stumbling, slipping, falling, caught, N.O.C.....	1,323	1,094	915	179	16,800	3,003	229
Flying or falling objects, burns, etc., N.O.C....	375	169	147	22	961	197	206
Operation of on-track work equipment.....	73	47	36	11	606	205	26
Assault.....	185	159	156	3	1,886	79	26
Other occurrences.....	1,602	1,050	900	150	12,885	1,563	552
Total.....	18,425	12,946	10,184	2,762	160,590	36,582	5,479
Grand total.....	22,172	15,930	12,717	3,213	205,782	43,203	6,242

TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	---	---	---	---	---
Derailments	---	---	---	---	---	---	---
Rail-highway x-ing	---	---	---	---	---	---	---
Miscellaneous	---	---	---	---	---	1	1
Total.....	---	---	---	---	---	1	1
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	18	18
Operating rail motorcars.....	---	---	1	---	---	---	1
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	2	2
Contacting fixed objects while on locos or cars..	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car (not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	---	---	---	---	---
Maintenance of way and structures.....	---	---	---	---	---	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	1	---	1
Flying or falling objects, burns, etc., N.O.C....	1	1	2	---	---	10	14
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	---	---	1	1
Total.....	1	1	3	---	1	32	38
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains.	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	1	---	5	6
Operating rail motorcars.....	---	---	1	---	---	---	1
Operating hand brakes.....	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	1	1
Contacting fixed objects while on locos or cars..	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$4,901).....	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---
Struck by/ran into loco/car (not at rr-hwy x-ing).	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	2	28	1	---	31
Maintenance of way and structures.....	---	1	50	1	---	2	54
Freight, baggage, express or mail.....	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C....	---	4	1	---	---	13	18
Operation of on-track work equipment.....	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---
Other occurrences.....	---	9	31	3	1	20	64
Total.....	---	14	85	33	2	42	176
Grand total.....	1	15	88	33	3	75	215

* 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..... Propelled Object While:				...Other Assaults...		Grand Total
	On Locomotive	On Caboose	On Cars	Not On Consist	On Consists	Not On Consists	
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	---	---	---	---	---	---	---
Amtrak (National RR Passenger Corp)	1	---	---	---	---	35	36
Atchison, Topeka And Santa Fe Rwy Co.	4	---	---	---	1	1	6
Boston And Maine Corporation	2	---	---	---	---	2	4
Burlington Northern Incorporated	1	---	---	---	1	3	5
Central Of Georgia Railroad Company	---	---	---	---	1	---	1
Chessie System Railroads	6	3	---	---	2	5	16
Chicago And North Western	1	1	---	---	2	2	6
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---
Consolidated Rail Corporation	7	1	1	---	1	11	21
Delaware And Hudson Railway	1	---	---	---	---	1	2
Denver And Rio Grande Western RR Co.	1	---	---	---	---	---	1
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	---	---	---	---	1	2	3
Illinois Central Gulf Railroad Co.	1	---	---	---	---	5	6
Kansas City Southern Railway Co.	1	---	---	---	1	---	2
Louisiana And Arkansas Rwy Company	---	1	---	---	---	---	1
Missouri-Kansas-Texas Railroad Co.	---	1	---	---	---	2	3
Norfolk And Western Railway Co.	---	---	---	---	---	5	5
Seaboard System Railroad	2	2	---	1	1	2	8
Soo Line Railroad Company	---	2	1	---	1	1	5
Southern Pacific Transportation Co.	7	4	---	---	1	3	15
Southern Railway Company	1	---	---	---	---	---	1
St. Louis Southwestern Railway Co.	---	---	---	---	---	---	---
Union Pacific Railroad Co.	2	2	---	---	3	3	10
Total Class I Railroads.....	38	17	2	1	16	83	157
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)							
Class I Railroads	38	17	2	1	16	83	157
Class II Railroads	---	---	---	---	---	---	---
Class III Railroads	10	---	5	3	6	82	106
Total All Railroads.....	48	17	7	4	22	165	263

CASUALTIES IN TRAIN ACCIDENTS

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

Cause	Total Killed	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
MISC CAUSES NOT OTHERWISE LISTED							
700 Collision with hwy user at grade xing	37	2	---	2	---	23	12
701 Emergency brk appl to avoid accident	1	---	---	---	---	---	1
702 Vandalism	2	---	---	---	---	1	1
703 Interference with RR oper.-not vandals	1	---	---	---	---	---	1
799 Other miscellaneous causes	2	---	---	---	---	---	2
SUBTOTAL.....	43	2	---	2	---	24	17
GRAND TOTAL.....	43	2	---	2	---	24	17

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...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
MISC CAUSES NOT OTHERWISE LISTED							
700 Collision with hwy user at grade xing	164	34	---	34	---	61	19
701 Emergency brk appl to avoid accident	2	1	---	1	---	---	1
702 Vandalism	9	7	2	9	---	---	---
703 Interference with RR oper.-not vandals	4	4	---	4	---	---	---
709 Object on or fouling track	9	6	---	6	---	3	---
710 Equipment on or fouling track	2	1	1	2	---	---	---
713 Interaction of lateral/vertical forces	1	1	---	1	---	---	---
715 Snow, ice, or mud on track	2	2	---	2	---	---	---
716 Other acts of God	33	4	13	17	16	---	---
717 Fire, other than vandalism, involving	1	1	---	1	---	---	---
799 Other miscellaneous causes	583	4	2	6	212	364	1
SUBTOTAL.....	810	65	18	83	289	417	21
GRAND TOTAL.....	810	65	18	83	289	417	21

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

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

Cause		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other				
FLAGGING, FIXED, HAND AND RADIO SIGNALS								
52C	Automatic cab signal, failure to compl	1	1	---	1	---	---	---
520	Fixed signal, failure to comply	3	3	---	3	---	---	---
SUBTOTAL.....		4	4	---	4	---	---	---
SPEED								
555	Trn out yrd limit,clear blk,excess spd	1	1	---	1	---	---	---
SUBTOTAL.....		1	1	---	1	---	---	---
MISCELLANEOUS								
570	Buffing or slack action excessive	1	1	---	1	---	---	---
599	Other train operation/human factors	2	2	---	2	---	---	---
SUBTOTAL.....		3	3	---	3	---	---	---
GRAND TOTAL.....		8	8	---	8	---	---	---

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

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

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
BRAKES, USE OF						
500 Automatic brake, improper use	3	3	---	3	---	---
502 Failure to secure engine (R.R. emp.)	1	1	---	1	---	---
504 Failure to apply sufficient hand brake	1	---	1	1	---	---
505 Failure to apply hnd brk on car (emp.)	6	4	2	6	---	---
509 Other causes involving use of brakes	4	4	---	4	---	---
SUBTOTAL.....	15	12	3	15	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
517 Absence of fixed signal (Blue signal)	1	1	---	1	---	---
52C Automatic cab signal, failure to compl	2	2	---	2	---	---
520 Fixed signal, failure to comply	24	6	1	7	17	---
521 Flagging, improper or failure to flag	2	---	2	2	---	---
523 Hand signal, failure to comply	6	---	6	6	---	---
525 Hand signal, failure to give/receive	1	---	1	1	---	---
526 Radio communication, failure to comply	1	1	---	1	---	---
528 Radio comm., failure to give/receive	1	1	---	1	---	---
529 Flagging, fixed, hand & radio (other)	1	1	---	1	---	---
SUBTOTAL.....	39	12	10	22	17	---
OTHER RULES AND INSTRUCTIONS						
531 Cars left foul	2	2	---	2	---	---
533 Failure to stop train in clear	78	6	---	6	72	---
535 Instruction to trn/yard crew improper	7	7	---	7	---	---
536 Mtr car/on-trk eqp rules, fail to cmpl	4	1	3	4	---	---
538 Shoving move, missing man at lead	4	4	---	4	---	---
539 Shoving movement, fail to control	3	3	---	3	---	---
541 Special op. instr., failure to comply	4	4	---	4	---	---
542 Trn ord/timetable auth, fail to comply	2	---	2	2	---	---
549 Rules and instructions, other	20	3	9	12	8	---
SUBTOTAL.....	124	30	14	44	80	---
SPEED						
550 Coupling speed excessive	1	1	---	1	---	---
554 Trn inside yrd limit, excess speed	10	10	---	10	---	---
555 Trn out yrd limit, clear blk, excess spd	5	5	---	5	---	---
559 Other Causes involving excessive speed	1	1	---	1	---	---
SUBTOTAL.....	17	17	---	17	---	---
SWITCHES, USE OF						
561 Switch improperly lined	21	9	---	9	12	---
SUBTOTAL.....	21	9	---	9	12	---
MISCELLANEOUS						
570 Buffing or slack action excessive	4	4	---	4	---	---
599 Other train operation/human factors	4	3	1	4	---	---
SUBTOTAL.....	8	7	1	8	---	---
GRAND TOTAL.....	224	87	28	115	12	97

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

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

Cause		Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other				
BRAKES								
400	Air hose uncoupled or burst	1	1	---	1	---	---	---
405	Brk valve malf. (undesired emergency)	2	2	---	2	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---
COUPLER AND DRAFT SYSTEM								
432	Coupler drawhead broken or defective	1	---	---	---	---	1	---
	SUBTOTAL.....	1	---	---	---	---	1	---
TRUCK COMPONENTS								
449	Other truck component causes	2	2	---	2	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---
AXLES AND JOURNAL BEARINGS								
450	Broken or bent between wheel seats	1	1	---	1	---	---	---
452	Journal (R. B.) failure - overheat	2	2	---	2	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---
WHEELS								
467	Loose wheel	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
	GRAND TOTAL.....	10	9	---	9	---	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 Trainmen	On Duty... Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
ROADBED DEFECTS								
101 Roadbed settled or soft	5	1	4	5	---	---	---	---
102 Washout/rain/slide/ice,etc. dmg to trk	5	5	---	5	---	---	---	---
SUBTOTAL.....	10	6	4	10	---	---	---	---
TRACK GEOMETRY DEFECTS								
110 Wide gage (defect/missing crossties)	3	3	---	3	---	---	---	---
114 Track alignment irregular	2	2	---	2	---	---	---	---
115 Track alignment irregular (buckled)	2	2	---	2	---	---	---	---
119 Cross level irregular at joints	4	4	---	4	---	---	---	---
120 Cross level irregular not at joints	1	1	---	1	---	---	---	---
SUBTOTAL.....	12	12	---	12	---	---	---	---
RAIL AND JOINT BAR DEFECTS								
136 Head/web sep.(outside joint bar limit)	1	1	---	1	---	---	---	---
141 Transverse/compound fissure	3	---	3	3	---	---	---	---
SUBTOTAL.....	4	1	3	4	---	---	---	---
FROGS, SWITCHES AND TRACK APPLIANCES								
160 Guard rail loose/broken/etc.	1	---	1	1	---	---	---	---
161 Switch damaged/out of adjustment	3	3	---	3	---	---	---	---
165 Switch point worn or broken	3	1	2	3	---	---	---	---
167 Frog, rigid, worn or broken	1	1	---	1	---	---	---	---
176 Switch out of adjust.(insuf rail anch)	3	1	2	3	---	---	---	---
179 Other frog/switches/track appl. causes	1	1	---	1	---	---	---	---
SUBTOTAL.....	12	7	5	12	---	---	---	---
OTHER WAY AND STRUCTURES								
189 Other way and structure causes	35	4	2	6	---	29	---	---
SUBTOTAL.....	35	4	2	6	---	29	---	---
GRAND TOTAL.....	73	30	14	44	---	29	---	---

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

CASUALTIES IN TRAIN INCIDENTS

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

Occurrence		Total Killed	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
			Trainmen	Other	Total			
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
001T	Adjusting coupler, equipment moving unexpectedly	1	1	---	1	---	---	---
003T	Crossing over, under or between on-track equipment, equipment moving	1	1	---	1	---	---	---
SUBTOTAL.....		2	2	---	2	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	1	1	---	1	---	---	---
409T	Persons on loco/car coming in contact with fixed obj (other)-eqp mov	1	---	---	---	---	1	---
SUBTOTAL.....		2	1	---	1	---	1	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T	Slip/fell due to lost/missed hold of grabiron, handhold, etc.-eqp mov	2	---	---	---	---	---	2
502T	Slip/fell due to losing/missing footing on step, stirrup, etc.-eqp mov	1	---	---	---	---	---	1
507T	Falling, slipping, tripping, not elsewhere classified - eqp moving	1	---	---	---	---	---	1
511T	Strike/struck by eqp/structures (not bridge/trestle), or mat -eqp mov	1	---	---	---	---	---	1
519T	Other acc/inc while getting on or off cars or locos - equipment mov	4	---	---	---	1	1	2
SUBTOTAL.....		9	---	---	---	1	1	7
COLLISIONS, DERAILMENTS, ETC. (<= \$4,901)								
601T	Casualty resulting fm a collision which did not satisfy \$ threshold	1	1	---	1	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I (not at rail-hwy X-ing)	6	---	---	---	---	1	5
SUBTOTAL.....		7	1	---	1	---	1	5
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	540	---	---	---	---	433	107
610T	Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	34	---	---	---	---	32	2
SUBTOTAL.....		574	---	---	---	---	465	109
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	118	2	1	3	---	4	111
702T	Crossing track at private rail-highway crossing - equipment moving	5	---	---	---	---	1	4
703T	Crossing track not at a crossing - equipment moving	25	---	---	---	---	1	24
705T	On bridges or trestles - equipment moving	15	---	---	---	---	---	15
706T	Sitting or lying on track or near track, not in clear - eqp moving	163	---	---	---	---	1	162
707T	While working on or along track - equipment moving	4	1	3	4	---	---	---
708T	Passing over, through, or under cars - equipment moving	13	---	---	---	---	1	12
709T	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	27	2	---	2	---	---	25
SUBTOTAL.....		370	5	4	9	---	8	353

TABLE 66. (CONTINUED)

Occurrence		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
SERVICING OR MAINTENANCE OF EQUIPMENT								
802T	Crossing over, under, or between locos or cars - equipment moving	1	---	1	1	---	---	---
825T	Other acc/inc while servicing or maintaining eqp-eqp moving	1	---	1	1	---	---	---
	SUBTOTAL.....	2	---	2	2	---	---	---
MAINTENANCE OF WAY AND STRUCTURES								
853T	Striking or being struck by eqp, structures, or material-eqp mov	2	---	2	2	---	---	---
	SUBTOTAL.....	2	---	2	2	---	---	---
PASSENGER CAR DOORS								
922T	Dragged by train while caught in side doors, entering coach	1	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	1
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
938T	While on locomotive or car-equipment moving	2	---	---	---	---	1	1
	SUBTOTAL.....	2	---	---	---	---	1	1
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
942T	Electrical flash, shock, or burn-equipment moving	1	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	1
OPERATION OF ON-TRACK WORK EQUIPMENT								
950T	Collision with train or car	1	---	1	1	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---
OTHER OCCURRENCES								
976T	Emergency or severe application of air brakes due to def eqp	1	---	---	---	---	---	1
989T	Other accidents/incidents-equipment moving	6	1	---	1	---	2	3
	SUBTOTAL.....	7	1	---	1	---	2	4
	GRAND TOTAL.....	980	10	9	19	1	4	475

NOTE: Contractor employees are included with nontrespassers

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

Occurrence	Total Injured	...Employees Trainmen	On Duty... Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
001T Adjusting coupler, equipment moving unexpectedly	17	15	2	17	---	---	---	---
002T Adjusting coupler - equipment moving	18	18	---	18	---	---	---	---
003T Crossing over, under or between on-track equipment, equipment moving	2	2	---	2	---	---	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	1	1	---	1	---	---	---	---
005T Use of uncoupling lever - equipment moving	52	52	---	52	---	---	---	---
006T Use of uncoupling lever - equipment moving unexpectedly	6	6	---	6	---	---	---	---
007T Striking parts of body against equipment - equipment moving	27	27	---	27	---	---	---	---
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	41	41	---	41	---	---	---	---
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	69	61	8	69	---	---	---	---
SUBTOTAL.....	233	223	10	233	---	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
052T Uncoupl air hose,struck by hose due to sudden release of air-eqp mov	7	7	---	7	---	---	---	---
053T Coupling air hose,stk by hose due to sudden release of air - eqp mov	1	1	---	1	---	---	---	---
054T Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	3	3	---	3	---	---	---	---
055T Defective equipment - equipment moving	1	1	---	1	---	---	---	---
057T Opening or closing angle cocks - equipment moving	2	2	---	2	---	---	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	12	11	1	12	---	---	---	---
SUBTOTAL.....	26	25	1	26	---	---	---	---
OPERATING OR ON LOCOMOTIVES								
101T Burn or electrical shock - equipment moving	8	8	---	8	---	---	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	49	49	---	49	---	---	---	---
103T Struck by tools or other objects falling - equipment moving	10	9	1	10	---	---	---	---
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	40	39	1	40	---	---	---	---
105T Checking, oiling, servicing locomotive, etc. - equipment moving	1	1	---	1	---	---	---	---
106T Unexpected movement of locomotive, other than slack action	76	68	7	75	1	---	---	---
107T Slack action in locomotive	49	47	2	49	---	---	---	---
108T Striking parts of body against equipment due to sudden stop of loco	48	46	2	48	---	---	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	28	28	---	28	---	---	---	---
110T Defective locomotive seat - equipment moving	25	24	1	25	---	---	---	---
111T Adjusting locomotive seat - equipment moving	13	13	---	13	---	---	---	---
112T Foreign object in eye - equipment moving	206	206	---	206	---	---	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	72	71	---	71	1	---	---	---
SUBTOTAL.....	625	609	14	623	2	---	---	---
OPERATING RAIL MOTORCARS								
151T Striking parts of body against equipment - equipment moving	10	2	8	10	---	---	---	---
153T Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	1	---	1	1	---	---	---	---
154T Unexpected movement of rail motorcar	1	---	1	1	---	---	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	6	---	6	6	---	---	---	---
SUBTOTAL.....	18	2	16	18	---	---	---	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
OPERATING HAND BRAKES						
200T Manipulating hand brakes, no defects, equipment moving	54	53	1	54	---	---
201T Defective equipment - equipment moving	6	6	---	6	---	---
202T Pawl slipping or accidentally knocked out of ratchet - eqp moving	1	1	---	1	---	---
203T Striking body due to movement of equipment	9	9	---	9	---	---
204T Losing hold, slipping or falling due to coupling impact	4	4	---	4	---	---
205T Caught between parts of equipment or lading - equipment moving	2	2	---	2	---	---
207T Losing hold, slipping, or falling - equipment moving	14	14	---	14	---	---
208T Caught hand or fingers in spinning brake wheel - equipment moving	1	1	---	1	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	21	21	---	21	---	---
SUBTOTAL.....	112	111	1	112	---	---
OPERATING SWITCHES OR DERAILS						
304T Struck by moving on-track equipment	4	4	---	4	---	---
309T Other acc/inc while operating switches/derails - equipment moving	34	33	---	33	1	---
SUBTOTAL.....	38	37	---	37	1	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
401T Persons on top locos/cars contacting fixed objects - equipment mov	5	5	---	5	---	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	63	58	4	62	---	1
409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov	41	27	9	36	4	1
SUBTOTAL.....	109	90	13	103	4	2
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/missed hold of grabiron, handhold, etc.-eqp mov	73	67	1	68	1	4
502T Slip/fell due to losing/missing footing on step, stirrup, etc.-eqp mov	100	88	4	92	1	6
503T Stepping or tripping on parts of track in place - equipment moving	27	26	---	26	---	1
504T Stepping or tripping on foreign material or irreg surface - eqp mov	196	192	4	196	---	---
505T Slipping on ice or snow on ground - equipment moving	11	11	---	11	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	11	10	---	10	1	---
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	84	59	4	63	1	20
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	22	4	---	4	17	1
510T Striking body or falling due to sudden movement of equipment	29	26	1	27	1	1
511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	39	34	---	34	1	4
513T Jumping from equipment - equipment moving	51	39	1	40	6	4
514T Defective equipment - equipment moving	13	13	---	13	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	201	182	1	183	1	15
SUBTOTAL.....	857	751	16	767	29	55

TABLE 67. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COLLISIONS, DERAILMENTS, ETC.(≤ \$4,901)								
601T	Casualty resulting fm a collision which did not satisfy \$ threshold	47	39	7	46	1	---	---
602T	Casualty resulting fm a derailment which did not satisfy \$ threshold	29	24	5	29	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	24	5	2	7	---	10	7
SUBTOTAL.....		100	68	14	82	1	10	7
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,115	37	14	51	---	2	1,846
610T	Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	119	7	7	14	---	98	7
SUBTOTAL.....		2,234	44	21	65	---	2	1,944
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	105	10	4	14	---	6	85
702T	Crossing track at private rail-highway crossing - equipment moving	11	---	2	2	---	1	8
703T	Crossing track not at a crossing - equipment moving	31	---	---	---	---	4	27
704T	While on public thoroughfare - equipment moving	4	---	2	2	---	1	1
705T	On bridges or trestles - equipment moving	9	---	---	---	---	1	8
706T	Sitting or lying on track or near track, not in clear - eqp moving	104	1	---	1	---	1	102
707T	While working on or along track - equipment moving	8	4	3	7	---	1	---
708T	Passing over, through, or under cars - equipment moving	45	1	---	1	---	1	43
709T	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	44	2	---	2	---	7	35
SUBTOTAL.....		361	18	11	29	---	23	309
SERVICING OR MAINTENANCE OF EQUIPMENT								
800T	Absence of fixed signal (Blue Signal) - equipment moving	1	---	1	1	---	---	---
802T	Crossing over, under, or between locos or cars - equipment moving	3	---	3	3	---	---	---
803T	Striking or being struck by eqp, structures, or material-eqp mov	53	1	52	53	---	---	---
815T	Moving equipment for repairs	34	---	34	34	---	---	---
825T	Other acc/inc while servicing or maintaining eqp-eqp moving	15	---	15	15	---	---	---
SUBTOTAL.....		106	1	105	106	---	---	---
MAINTENANCE OF WAY AND STRUCTURES								
852T	Crossing over, under, or between locos or cars-eqp moving	3	---	2	2	---	1	---
853T	Striking or being struck by eqp, structures, or material-eqp mov	69	1	66	67	---	2	---
899T	Other accs/incs while maintaining way and structures - eqp moving	35	1	33	34	1	---	---
SUBTOTAL.....		107	2	101	103	1	3	---
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901T	Handling freight, baggage, express or mail-eqp moving	8	2	6	8	---	---	---
902T	Struck or caught by shifted lading-eqp moving	2	2	---	2	---	---	---
904T	Other acc/inc involving freight, baggage, express, or mail - eqp mov	6	---	6	6	---	---	---
SUBTOTAL.....		16	4	12	16	---	---	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	2	---	2	2	---	---	---	---
908T Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov	1	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	8	7	1	8	---	---	---	---
913T Interior doors-equipment moving	33	22	2	24	---	9	---	---
914T Opening or closing locomotive doors-equipment moving	12	12	---	12	---	---	---	---
915T Opening or closing locomotive windows-equipment moving	4	4	---	4	---	---	---	---
916T Opening or closing caboose doors-equipment moving	4	4	---	4	---	---	---	---
917T Opening or closing caboose windows-equipment moving	4	4	---	4	---	---	---	---
918T Opening and closing other windows-equipment moving	1	---	---	---	---	1	---	---
919T Other accidents/incidents involving windows or doors-eqp mov	20	10	7	17	---	2	---	1
SUBTOTAL.....	90	64	12	76	---	13	---	1
PASSENGER CAR DOORS								
920T Caught by side doors while entering coach-equipment moving	3	2	1	3	---	---	---	---
921T Caught by side doors while exiting coach-equipment moving	1	1	---	1	---	---	---	---
924T Struck by side doors while entering coach-equipment moving	1	1	---	1	---	---	---	---
925T Struck by side doors while exiting coach-equipment moving	1	---	---	---	---	1	---	---
927T Striking side door while exiting coach-equipment moving	1	---	1	1	---	---	---	---
SUBTOTAL.....	7	4	2	6	---	1	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930T Stumbling/slipping, etc. on snow or ice - equipment moving	5	3	2	5	---	---	---	---
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	54	48	5	53	---	1	---	---
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	7	7	---	7	---	---	---	---
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	12	6	2	8	---	2	---	2
935T From bridges of trestles-equipment moving	3	1	---	1	---	---	1	1
936T From structures other than bridges or trestles-equipment moving	2	1	---	1	---	---	---	1
937T Into depressions - equipment moving	7	7	---	7	---	---	---	---
938T While on locomotive or car-equipment moving	82	34	19	53	1	20	---	8
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	28	10	7	17	1	8	---	2
SUBTOTAL.....	200	117	35	152	2	31	1	14
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T Foreign object in eye-equipment moving	237	231	5	236	---	---	1	---
941T Struck by flying or falling object (except assaults)-eqp mov	30	14	14	28	---	---	2	---
942T Electrical flash, shock, or burn-equipment moving	3	3	---	3	---	---	---	---
945T Burned by hot or corrosive substances-equipment moving	19	12	5	17	---	2	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	9	9	---	9	---	---	---	---
947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	1	---	1	---	---	---	---
949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	11	4	6	10	---	---	1	---
SUBTOTAL.....	310	274	30	304	---	2	4	---

TABLE 67. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty...	Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATION OF ON-TRACK WORK EQUIPMENT									
950T Collision with train or car	3	---	---	3	3	---	---	---	---
951T Collision with other on-track work equipment	16	1	---	15	16	---	---	---	---
952T Jumping from equipment in anticipation of a collision	22	10	---	11	21	---	---	1	---
953T Derailment that does not satisfy monetary threshold	33	---	---	33	33	---	---	---	---
954T Getting on/off on-track work equipment - equipment moving	7	1	---	5	6	---	---	1	---
959T Other A/I involving on-track work equipment - equipment moving	29	2	---	27	29	---	---	---	---
SUBTOTAL.....	110	14	---	94	108	---	---	2	---
ASSAULT									
96AT Shot while on moving on-track equipment	8	8	---	---	8	---	---	---	---
96CT Struck by other propelled object while on locomotive - equip moving	39	39	---	---	39	---	---	---	---
96DT Struck by other propelled object while on car - equip moving	3	2	---	---	2	---	1	---	---
96ET Struck by other propelled object while on caboose - equip moving	16	16	---	---	16	---	---	---	---
96GT Other unprovoked assaults to persons on moving on-track equipment	10	9	---	---	9	---	1	---	---
96JT Shot while on moving on-track equipment	1	1	---	---	1	---	---	---	---
96LT Other assaults connected with the protection of RR property - eqp moving	1	1	---	---	1	---	---	---	---
96MT All other assaults involving moving on-track equipment	2	2	---	---	2	---	---	---	---
SUBTOTAL.....	80	78	---	---	78	---	2	---	---
OTHER OCCURRENCES									
970T Performing rerailling or other clearing operations-equipment moving	3	---	---	2	2	---	---	1	---
971T Loco or car coming against car placed for loading or unloading	3	2	---	1	3	---	---	---	---
972T Sudden movement of car, not otherwise classified	55	15	---	31	46	---	8	---	1
974T Slack action in caboose	188	185	---	3	188	---	---	---	---
975T Slack action, other	63	60	---	3	63	---	---	---	---
976T Emergency or severe application of air brakes due to def eqp	3	3	---	---	3	---	---	---	---
977T Emergency or severe application of air brakes not due to def eqp	20	16	---	4	20	---	---	---	---
986T Unexpected move of caboose, not slack action (include emergency & severe brking)	23	23	---	---	23	---	---	---	---
987T Caboose fire, equipment moving	1	1	---	---	1	---	---	---	---
988T Other accidents/incidents while in caboose, equipment moving	47	45	---	2	47	---	---	---	---
989T Other accidents/incidents-equipment moving	73	28	---	29	57	2	9	4	1
SUBTOTAL.....	479	378	---	75	453	2	17	5	2
GRAND TOTAL.....	6,218	2,914	---	583	3,497	11	101	1,996	613

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...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
OPERATING OR ON LOCOMOTIVES								
109T	Inhalation of or contact with fumes or gases - equipment moving	18	18	---	18	---	---	---
	SUBTOTAL.....	18	18	---	18	---	---	---
OPERATING RAIL MOTORCARS								
159T	Other accidents/incidents while operating rail motorcars - eqp mov	1	---	1	1	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---
OPERATING SWITCHES OR DERAILS								
309T	Other acc/inc while operating switches/derails - equipment moving	2	2	---	2	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
504T	Stepping or tripping on foreign material or irreg surface - eqp mov	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
938T	While on locomotive or car-equipment moving	1	---	1	1	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T	Foreign object in eye-equipment moving	1	1	---	1	---	---	---
946T	Inhalation of or contact with fumes or gases-equipment moving	13	9	4	13	---	---	---
	SUBTOTAL.....	14	10	4	14	---	---	---
OTHER OCCURRENCES								
988T	Other accidents/incidents while in caboose, equipment moving	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
	GRAND TOTAL.....	38	32	6	38	---	---	---

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
OPERATING SWITCHES OR DERAILS						
303 Parts of body struck or caught by mechanism of switch	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
402 Persons on side/end of locos/cars contacting fixed objects - eqp std	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES						
507 Falling, slipping, tripping, not elsewhere classified - eqp std	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS						
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	3	---	---	---	3	---
610 Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std	1	---	---	---	1	---
SUBTOTAL.....	4	---	---	---	4	---
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)						
701 Standing, walking or running on or along track - equipment standing	1	---	---	1	---	---
SUBTOTAL.....	1	---	---	1	---	---
SERVICING OR MAINTENANCE OF EQUIPMENT						
803 Striking or being struck by eqp, structures, or material-eqp std	1	---	1	---	---	---
819 Struck by flying or falling object	1	---	1	---	---	---
820 Electrical flash, shock, or burn	2	---	2	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	---	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	1	---	1	---	---	---
SUBTOTAL.....	6	---	6	---	---	---
MAINTENANCE OF WAY AND STRUCTURES						
853 Striking or being struck by eqp, structures, or material-eqp std	1	---	1	---	---	---
854 Use of hand tools	1	---	1	---	---	---
859 Use of scaffolds, ladders, etc.	1	---	---	---	1	---
863 Loading and unloading materials	1	---	1	---	---	---
872 Other fire or explosion	1	---	1	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	2	---	2	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	1	---	1	---	---	---
SUBTOTAL.....	8	---	7	---	1	---

TABLE 69. (CONTINUED)

Occurrence		Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other				
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907	Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	1	---	---	---	---	1	---
909	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	1	---	---	---	---	1	---
SUBTOTAL.....		2	---	---	---	---	2	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
934	Slip/fall, etc. between loco/car and other cars and struct-eqp std	1	---	---	---	---	---	1
935	From bridges or trestles	7	1	---	1	---	---	6
SUBTOTAL.....		8	1	---	1	---	---	7
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
942	Electrical flash, shock, or burn	5	1	---	1	---	---	4
944	Other fire or explosion	6	---	2	2	---	2	2
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	4	---	---	---	---	---	4
SUBTOTAL.....		15	1	2	3	---	2	10
ASSAULT								
96B	Shooting incidents not involving persons on on-track equipment	1	---	1	1	---	---	---
SUBTOTAL.....		1	---	1	1	---	---	---
OTHER OCCURRENCES								
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	10	---	7	7	---	---	3
989	Other accidents/incidents	2	---	---	---	---	1	1
SUBTOTAL.....		12	---	7	7	---	1	4
GRAND TOTAL.....		60	4	24	28	1	10	21

NOTE: Contractor employees are included with nontrespassers

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

Occurrence	Total Injured	...Employees On Duty...	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
002 Adjusting coupler - equipment standing	203	196	6	202	---	1
003 Crossing over, under or between on-track equipment, equipment standing	2	2	---	2	---	---
004 Adjusting coupler, part of coupler fell striking person-eqp standing	34	34	---	34	---	---
005 Use of uncoupling lever - equipment standing	76	72	3	75	---	1
007 Striking parts of body against equipment - equipment standing	40	34	6	40	---	---
008 Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std	81	77	4	81	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	122	109	13	122	---	---
SUBTOTAL.....	558	524	32	556	---	2
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051 Crossing over, under or between on-track equipment, equipment standing	2	2	---	2	---	---
052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std	25	21	4	25	---	---
053 Coupling air hose, stk by hose due to sudden release of air - eqp std	15	14	1	15	---	---
054 Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp standing	48	36	12	48	---	---
055 Defective equipment - equipment standing	3	3	---	3	---	---
057 Opening or closing angle cocks - equipment standing	41	39	2	41	---	---
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	97	80	17	97	---	---
SUBTOTAL.....	231	195	36	231	---	---
OPERATING OR ON LOCOMOTIVES						
101 Burn or electrical shock - equipment standing	7	5	2	7	---	---
102 Striking parts of body against equipment, moving about loco-eqp std	52	50	2	52	---	---
103 Struck by tools or other objects falling - equipment standing	19	15	4	19	---	---
104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	106	91	14	105	1	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing	29	18	11	29	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	20	17	3	20	---	---
110 Defective locomotive seat - equipment standing	24	23	1	24	---	---
111 Adjusting locomotive seat - equipment standing	37	34	3	37	---	---
112 Foreign object in eye - equipment standing	50	45	4	49	1	---
119 Other accidents/incidents while operating locomotives - eqp standing	58	53	5	58	---	---
SUBTOTAL.....	402	351	49	400	2	---
OPERATING RAIL MOTORCARS						
151 Striking parts of body against equipment - equipment standing	1	---	1	1	---	---
152 Struck by tools or other objects falling - equipment standing	2	1	1	2	---	---
153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	12	6	6	12	---	---
155 Placing or removing rail motorcar on or off rail	14	---	14	14	---	---
159 Other accidents/incidents while operating rail motorcars - eqp std	7	3	4	7	---	---
SUBTOTAL.....	36	10	26	36	---	---

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
OPERATING HAND BRAKES						
200 Manipulating hand brakes, no defects, equipment standing	197	189	7	196	1	---
201 Defective equipment - equipment standing	25	23	2	25	---	---
202 Pawl slipping or accidentally knocked out of ratchet - eqp standing	2	2	---	2	---	---
203 Striking body not due to movement of equipment	12	10	2	12	---	---
206 Brake chains or bolts, breaking or giving way - equipment standing	13	11	2	13	---	---
207 Losing hold, slipping, or falling - equipment standing	38	38	---	38	---	---
208 Caught hand or fingers in spinning brake wheel - equipment standing	9	8	1	9	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing	61	59	2	61	---	---
SUBTOTAL.....	357	340	16	356	1	---
OPERATING SWITCHES OR DERAILS						
301 Slipped, tripped or fell due to ice or snow	21	20	1	21	---	---
302 Slipped, tripped or fell not due to ice or snow	39	38	1	39	---	---
303 Parts of body struck or caught by mechanism of switch	53	46	7	53	---	---
305 Lining switches, defective equipment	145	135	10	145	---	---
306 Lining switches, no defects	576	551	24	575	---	1
307 Manipulating derail, no defects	25	21	4	25	---	---
308 Manipulating derail, defective equipment	7	6	1	7	---	---
309 Other acc/inc while operating switches/derails - equipment standing	117	106	11	117	---	---
SUBTOTAL.....	983	923	59	982	---	1
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
401 Persons on top locos/cars contacting fixed objects - equipment std	2	2	---	2	---	---
402 Persons on side/end of locos/cars contacting fixed objects - eqp std	7	6	1	7	---	---
409 Persons on loco/car coming in contact with fixed obj(other)-eqp std	18	8	8	16	1	1
SUBTOTAL.....	27	16	9	25	1	1
GETTING ON OR OFF CARS OR LOCOMOTIVES:						
501 Slip/fell due to lost/missed hold of grabiron, handhold, etc.-eqp std	69	44	22	66	2	1
502 Slip/fell due to losing/missing footing on step, stirrup, etc.-eqp std	160	106	38	144	11	2
503 Stepping or tripping on parts of track in place - equipment standing	30	24	4	28	1	1
504 Stepping or tripping on foreign material or irreg surface - eqp std	231	187	38	225	3	1
505 Slipping on ice or snow on ground - equipment standing	30	25	3	28	2	---
506 Slipping on ice/snow on cars or locomotives - equipment standing	14	13	1	14	---	---
507 Falling, slipping, tripping, not elsewhere classified - eqp std	98	65	22	87	3	3
508 Slipping/falling while boarding/alighting fm passenger eqp(standing)	67	17	13	30	35	1
511 Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	36	26	6	32	3	1
512 Striking or being struck by bridges or trestles - equipment standing	2	1	1	2	---	---
513 Jumping from equipment - equipment standing	8	5	2	7	1	---
514 Defective equipment - equipment standing	9	9	---	9	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std	168	118	46	164	2	1
SUBTOTAL.....	922	640	196	836	8	9

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	54	---	---	---	---	---	51	3
610 Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std	1	---	---	---	---	---	1	---
SUBTOTAL.....	55	---	---	---	---	---	52	3
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701 Standing, walking or running on or along track - equipment standing	2	1	---	1	---	---	---	1
703 Crossing track not at a crossing - equipment standing	4	---	---	---	---	---	1	3
708 Passing over, through, or under cars - equipment standing	8	2	---	2	---	---	2	4
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	2	---	---	---	---	---	---	2
SUBTOTAL.....	16	3	---	3	---	---	3	10
SERVICING OR MAINTENANCE OF EQUIPMENT								
802 Crossing over, under, or between locos or cars - equipment standing	39	---	39	39	---	---	---	---
803 Striking or being struck by eqp, structures, or material-eqp std	405	10	395	405	---	---	---	---
804 Use of hand tools	523	4	515	519	2	---	2	---
805 Use of portable power tools	90	---	90	90	---	---	---	---
806 Use of welding equipment	68	---	68	68	---	---	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	80	---	80	80	---	---	---	---
808 Use of grinding equipment	29	---	29	29	---	---	---	---
809 Use of scaffolds, ladders, etc.	47	1	46	47	---	---	---	---
81A Lifting parts to install while making repairs	207	4	202	206	---	---	1	---
810 Use of cranes, hoists, derricks, piledrivers, etc.	73	---	73	73	---	---	---	---
811 Use of lift trucks and other portable material handling eqp	92	---	92	92	---	---	---	---
812 Use of shop machinery not elsewhere classified	73	---	73	73	---	---	---	---
813 Loading and unloading materials	196	---	195	195	1	---	---	---
814 Handling material by hand	613	9	604	613	---	---	---	---
816 Inhalation of or contact with fumes or gases	13	1	12	13	---	---	---	---
817 Foreign object in eye, using eye protection	178	---	178	178	---	---	---	---
818 Foreign object in eye, not using eye protection	91	5	85	90	1	---	---	---
819 Struck by flying or falling object	192	3	188	191	1	---	---	---
820 Electrical flash, shock, or burn	55	1	54	55	---	---	---	---
821 Fire or explosion of fuses or torpedoes	4	3	1	4	---	---	---	---
822 Other fire or explosion	16	---	16	16	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	73	3	69	72	1	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	783	20	740	760	22	---	1	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	731	12	711	723	6	---	2	---
SUBTOTAL.....	4,671	76	4,555	4,631	34	---	6	---

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Montres- passers	Tres- passers
			Trainmen	Other	Total			
MAINTENANCE OF WAY AND STRUCTURES								
852	Crossing over, under, or between locos or cars-eqp std	11	1	8	9	2	---	---
853	Striking or being struck by eqp, structures, or material-eqp std	292	4	285	289	3	---	---
854	Use of hand tools	701	---	699	699	---	---	2
855	Use of portable power tools	207	---	207	207	---	---	---
856	Use of welding equipment	52	---	52	52	---	---	---
857	Use of oxygen-acetylene, natural gas cutting equipment	26	---	26	26	---	---	---
858	Use of grinding equipment	69	---	68	68	---	---	1
859	Use of scaffolds, ladders, etc.	63	1	60	61	---	---	2
860	Use of cranes, hoists, derricks, piledrivers, etc.	84	---	84	84	---	---	---
861	Use of lift trucks and other portable material handling eqp	73	---	73	73	---	---	---
862	Use of shop machinery not elsewhere classified	29	---	28	28	1	---	---
863	Loading and unloading materials	515	1	509	510	1	---	4
864	Handling material by hand	746	---	739	739	4	---	3
866	Inhalation of or contact with fumes or gases	10	---	10	10	---	---	---
867	Foreign object in eye, using eye protection	114	1	111	112	---	---	2
868	Foreign object in eye, not using eye protection	86	3	81	84	2	---	---
869	Struck by flying of falling object	287	1	285	286	1	---	---
870	Electrical flash, shock, or burn	38	---	38	38	---	---	---
872	Other fire or explosion	15	---	14	14	---	---	1
873	Burned or irritated by hot, corrosive or toxic substances	39	---	39	39	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	757	3	730	733	19	---	5
875	Use of maintenance of way equipment not elsewhere classified	153	2	150	152	1	---	---
876	Inserting or removing ties, switch timbers and tie plates by use of hand tools	254	---	254	254	---	---	---
877	Insert/remove ties, switch timbers and tie plates using portable power tools	58	---	58	58	---	---	---
878	Loading/unloading ties, switch timbers, tie plates and fastenings	207	---	205	205	---	---	2
879	Handling rail by use of power tools	57	---	57	57	---	---	---
880	Handling rail by use of hand tools	164	---	162	162	---	---	2
890	Handling/inserting/removing rail anchors (includes being struck by anchors)	109	---	109	109	---	---	---
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	442	1	440	441	---	---	1
892	Working on or about sgml or comm. poles, sgml masts, sgml cantilevers or catenary	168	1	167	168	---	---	---
893	Servicing or repairing MOW equipment at work site	149	---	148	148	1	---	---
899	Other accs/incs while maintaining way and structures - eqp standing	394	3	375	378	9	---	6
SUBTOTAL.....		6,369	22	6,271	6,293	44	---	31
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901	Handling freight, baggage, express or mail	119	5	113	118	---	---	1
902	Struck or caught by shifted lading	7	---	4	4	---	1	2
903	Tripping over, or struck by falling baggage in passenger car-eqp std	3	1	1	2	---	1	---
904	Other accident/incident involving freight, baggage, express, or mail	27	1	25	26	---	1	---
SUBTOTAL.....		156	7	143	150	---	3	3

TABLE 70. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	39	2	37	39	---	---	---	---
908 Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	21	3	18	21	---	---	---	---
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	38	7	30	37	---	---	1	---
910 Closing or opening plug type car doors, defective equipment-eqp std	11	2	9	11	---	---	---	---
911 Closing or opening plug type car doors, no defects-equipment std	27	4	22	26	---	1	---	---
912 Closing or opening coach trap doors-equipment standing	42	30	7	37	1	4	---	---
913 Interior doors-equipment standing	31	18	10	28	---	3	---	---
914 Opening or closing locomotive doors-equipment standing	42	36	6	42	---	---	---	---
915 Opening or closing locomotive windows-equipment standing	7	4	3	7	---	---	---	---
916 Opening or closing caboose doors-equipment standing	6	5	1	6	---	---	---	---
917 Opening or closing caboose windows-equipment standing	1	1	---	1	---	---	---	---
918 Opening and closing other windows	5	3	1	4	1	---	---	---
919 Other accidents/incidents involving windows or doors	107	41	60	101	2	2	1	1
SUBTOTAL.....	377	156	204	360	4	10	2	1
PASSENGER CAR DOORS								
920 Caught by side doors while entering coach-equipment standing	6	1	3	4	---	2	---	---
921 Caught by side doors while exiting coach-equipment standing	2	---	---	---	1	1	---	---
924 Struck by side doors while entering coach-equipment standing	3	2	---	2	---	1	---	---
925 Struck by side doors while exiting coach-equipment standing	3	1	1	2	---	1	---	---
SUBTOTAL.....	14	4	4	8	1	5	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930 Stumbling/slipping, etc. on snow or ice	221	88	96	184	27	4	6	---
931 Stumbling/slipping, etc. on foreign material or irregular surface	590	327	206	533	41	1	12	3
932 Stumbling/slipping, etc. on parts of track in place	107	57	39	96	3	4	4	---
933 Stumbling/slipping, etc. on stairways, ramps or platforms	358	46	138	184	37	32	102	3
934 Slip/fall, etc. between loco/car and other cars and struct-eqp std	41	20	13	33	1	7	---	---
935 From bridges or trestles	27	5	13	18	1	---	3	5
936 From structures other than bridges or trestles	10	1	7	8	1	---	---	1
937 Into depressions	74	35	34	69	2	---	3	---
938 While on locomotive or car-equipment standing	68	19	33	52	1	9	4	2
939 Other, stumbling, slipping, falling, caught, etc.	200	49	97	146	33	8	10	3
SUBTOTAL.....	1,696	647	676	1,323	147	65	144	17

TABLE 70. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers	
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.									
940	Foreign object in eye	252	168	71	239	5	1	7	---
941	Struck by flying of falling object (except assaults)	81	21	46	67	---	2	12	---
942	Electrical flash, shock, or burn	13	4	5	9	---	1	2	1
943	Fire or explosion of fuses or torpedoes	3	3	---	3	---	---	---	---
944	Other fire or explosion	5	4	1	5	---	---	---	---
945	Burned by hot or corrosive substances	11	5	6	11	---	---	---	---
946	Inhalation of or contact with fumes or gases	18	6	10	16	2	---	---	---
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	8	---	3	3	---	---	---	5
949	Other acc/inc resulting from flying/falling objs, burns, etc.	30	10	12	22	1	---	7	---
SUBTOTAL.....		421	221	154	375	8	4	28	6
OPERATION OF ON-TRACK WORK EQUIPMENT									
954	Getting on/off on-track work equipment - equipment standing	42	---	33	33	6	1	2	---
959	Other A/I involving on-track work equipment - equipment standing	40	---	40	40	---	---	---	---
SUBTOTAL.....		82	---	73	73	6	1	2	---
ASSAULT									
96A	Shot while on standing on-track equipment	1	---	1	1	---	---	---	---
96B	Shooting incidents not involving persons on on-track equipment	2	---	1	1	1	---	---	---
96C	Struck by other propelled object while on locomotive - equip standing	9	8	1	9	---	---	---	---
96D	Struck by other propelled object while on car - equip standing	5	5	---	5	---	---	---	---
96E	Struck by other propelled object while on caboose - equip standing	1	1	---	1	---	---	---	---
96F	Struck by other propelled object, not on on-track equipment	4	4	---	4	---	---	---	---
96G	All other unprovoked assaults	106	34	58	92	8	4	2	---
96J	Shot while on standing on-track equipment	1	---	1	1	---	---	---	---
96K	Shooting incidents that did not involve persons on on-track equipment	3	---	3	3	---	---	---	---
96L	Other assaults connected with the protection of RR property - eqp standing	31	4	27	31	---	---	---	---
96M	All other assaults not involving moving on-track equipment	31	6	24	30	---	1	---	---
96N	Injuries sustained by ther perpetrator of an assault	11	3	4	7	---	1	---	3
SUBTOTAL.....		205	65	120	185	9	6	2	3
OTHER OCCURRENCES									
970	Performing rerailling or other clearing operations	33	7	25	32	---	---	1	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	532	93	365	458	39	---	14	21
979	Servicing and maintenance of highway vehicles	15	---	15	15	---	---	---	---
980	Horseplay	25	1	17	18	7	---	---	---
981	Animal bites, including snake bites	13	3	8	11	2	---	---	---
982	Insect bites	144	46	89	135	6	3	---	---
983	Incidents occurring in office setting involving clerical, staff, etc., personnel	422	7	404	411	11	---	---	---
984	Contact with poisonous plants	52	4	47	51	1	---	---	---
985	Stepping on nails or other sharp objects	38	19	18	37	1	---	---	---
987	Caboose fire, equipment standing	1	---	---	---	1	---	---	---
988	Other accidents/incidents while in caboose, equipment standing	14	11	3	14	---	---	---	---
989	Other accidents/incidents	506	164	256	420	29	8	45	4
SUBTOTAL.....		1,795	355	1,247	1,602	97	11	60	25
GRAND TOTAL.....		19,373	4,555	13,870	18,425	361	170	345	72

NOTE: Contractor employees are included with nontrespassers

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

Occurrence		Total Illness	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
			Trainmen	Other	Total			
OPERATING OR ON LOCOMOTIVES								
105	Checking, oiling, servicing locomotive, etc. - equipment standing	1	1	---	1	---	---	---
109	Inhalation of or contact with fumes or gases - equipment standing	3	3	---	3	---	---	---
112	Foreign object in eye - equipment standing	1	---	1	1	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	1	1	---	1	---	---	---
	SUBTOTAL.....	6	5	1	6	---	---	---
OPERATING RAIL MOTORCARS								
159	Other accidents/incidents while operating rail motorcars - eqp std	1	---	1	1	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---
OPERATING SWITCHES OR DERAILS								
309	Other acc/inc while operating switches/derails - equipment standing	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES								
503	Stepping or tripping on parts of track in place - equipment standing	1	1	---	1	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---
SERVICING OR MAINTENANCE OF EQUIPMENT								
803	Striking or being struck by eqp, structures, or material-eqp std	1	---	1	1	---	---	---
804	Use of hand tools	1	---	1	1	---	---	---
805	Use of portable power tools	1	---	1	1	---	---	---
806	Use of welding equipment	3	---	3	3	---	---	---
807	Use of oxygen-acetylene, natural gas cutting equipment	2	---	2	2	---	---	---
814	Handling material by hand	2	---	2	2	---	---	---
816	Inhalation of or contact with fumes or gases	7	---	7	7	---	---	---
820	Electrical flash, shock, or burn	2	---	2	2	---	---	---
823	Burned or irritated by hot, corrosive, or toxic substances	6	---	6	6	---	---	---
825	Other acc/inc while servicing or maintaining eqp-eqp std	6	---	6	6	---	---	---
	SUBTOTAL.....	31	---	31	31	---	---	---

TABLE 71. (CONTINUED)

Occurrence	Total Illness	...Employees Trainmen	On Duty... Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES								
854 Use of hand tools	5	---	5	5	---	---	---	---
856 Use of welding equipment	2	---	2	2	---	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---	---	---
863 Loading and unloading materials	1	---	1	1	---	---	---	---
864 Handling material by hand	4	1	3	4	---	---	---	---
866 Inhalation of or contact with fumes or gases	4	---	4	4	---	---	---	---
867 Foreign object in eye, using eye protection	1	---	1	1	---	---	---	---
868 Foreign object in eye, not using eye protection	1	1	---	1	---	---	---	---
870 Electrical flash, shock, or burn	2	---	2	2	---	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances	1	---	1	1	---	---	---	---
875 Use of maintenance of way equipment not elsewhere classified	2	---	2	2	---	---	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	4	---	4	4	---	---	---	---
880 Handling rail by use of hand tools	2	---	2	2	---	---	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	2	---	2	2	---	---	---	---
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	4	---	4	4	---	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	18	---	18	18	---	---	---	---
SUBTOTAL.....	54	2	52	54	---	---	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
944 Other fire or explosion	3	3	---	3	---	---	---	---
945 Burned by hot or corrosive substances	2	2	---	2	---	---	---	---
946 Inhalation of or contact with fumes or gases	12	8	4	12	---	---	---	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	1	---	1	1	---	---	---	---
SUBTOTAL.....	18	13	5	18	---	---	---	---
OTHER OCCURRENCES								
982 Insect bites	5	---	5	5	---	---	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	4	---	4	4	---	---	---	---
984 Contact with poisonous plants	32	1	31	32	---	---	---	---
985 Stepping on nails or other sharp objects	1	---	1	1	---	---	---	---
988 Other accidents/incidents while in caboose, equipment standing	1	1	---	1	---	---	---	---
989 Other accidents/incidents	22	18	3	21	---	---	1	---
SUBTOTAL.....	65	20	44	64	---	---	1	---
GRAND TOTAL.....	177	42	134	176	---	---	1	---

NOTE: Contractor employees are included with nontrespassers

APPENDIX A

REPORTABILITY REQUIREMENTS AND DEFINITIONS

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1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1986 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 \$4,900 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

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DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION RAILROAD INJURY AND ILLNESS SUMMARY							Form Approved OMB No. 04-R4009													
1. NAME OF REPORTING RAILROAD				2. ALPHABETIC CODE	3. REPORT MONTH & YEAR	4. STATE ALPHABETIC CODE	5. COUNTY													
NAME OF REPORTING OFFICER						OFFICIAL TITLE														
ADDRESS						TELEPHONE (Area Code) (Number)														
6. I, _____, being first duly sworn, do say upon my oath that I am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief. Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19_____. (Use an im- [L.S] pression seal) _____ (Notary Public) (Signature of affiant)																				
7. MILES RUN DURING MONTH																				
A. LOCOMOTIVE TRAIN MILES			B. MOTOR TRAIN MILES		C. YARD SWITCHING MILES		D. TOTAL													
8.																				
A. EMPLOYEE MANHOURS WORKED			B. PASSENGER MILES OPERATED			C. NUMBER OF PASSENGERS TRANSPORTED														
TOTAL TRAIN ACCIDENTS			TOTAL FRA FORMS 6180-55A		TOTAL FRA FORMS 6180-56		TOTAL FRA FORMS 6180-57													
SECTION A--RECAPITULATION OF ALL CASUALTIES INCLUDING HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								CLASS OF PERSON FOR SECTIONS A AND B 1. Employees on duty 2. Employees not on duty 3. Passengers on trains 4. Other nontrespassers 5. Trespassers (all classes) 6. Contractor Employees 7. GRAND TOTAL	SECTION B--RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES											
TRAIN ACCIDENTS				TRAIN INCIDENTS					NONTRAIN INCIDENTS				TOTAL							
KId		Inj		KId		Inj			KId		Inj		KId		Inj					
SECTION C--MEMORANDUM--SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES																				
LINE NO.	ACCIDENT/INCIDENT NUMBER				TYPE PERSON OR JOB CODE				DATE OF INJURY				DATE OF DEATH				STATE			
1.																				
2.																				
3.																				
4.																				

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

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

RAILROAD INJURY AND ILLNESS SUMMARY (CONTINUATION SHEET)

SHEET _____ OF _____

9.

[illegible]

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		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 ☐ pm ☐	
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry)					
1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify)					
2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion-Detonation					
HAZARDOUS MATERIALS (number of)					
8. CARS CARRYING		9. CARS DAMAGED OR DERAILED		10. CARS WHICH RELEASED HAZ. MAT.	
				11. PEOPLE EVACUATED (est.)	
LOCATION					
12. DIVISION		13. NEAREST STATION		14. MILEPOST (to nearest tenth)	
				15. STATE (two letter code)	
ENVIRONMENTAL CONDITIONS					
16. TEMPERATURE (specify if minus) °F		17. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark		18. WEATHER (single entry) 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow	
OPERATIONAL DATA					
19. METHOD (place X in appropriate box(es))					
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 Est. Recorded		21. TRAIN NUMBER		22. TIME TABLE DIRECTION 1. North 2. South 3. East 4. West	
EQUIPMENT					
23. TRAILING TONS (gross weight, excluding power units)		24. TYPE OF EQUIPMENT CONSIST (single entry) 1. Freight train 3. Mixed train 5. Single car 7. Yard/switching		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. PRINCIPLE CAR/UNIT (1) First Involved (derailed, struck, striking, etc.) (2) Causing (mechanical failures)		30a. Initial and Number		30b. Position in Train	
31. LOCOMOTIVE UNITS (no. of)		32. CARS (no. of)		33. TYPE OF TRACK 1. Main 3. Siding 2. Yard 4. Industry	
				34. Loaded (yes or no)	
PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)					
35. EQUIPMENT DAMAGE (to be reported for this equipment consist only)		\$		36. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only)	
ACCIDENT/INCIDENT CAUSE CODE					
37. PRIMARY CAUSE CODE		38. CONTRIBUTING CAUSE CODE		39. If no code available, explain cause.	
CASUALTIES					
40. NUMBER OF PERSONS INJURED		41. ESTIMATED TOTAL DAYS DISABILITY		42. NUMBER OF FATALITIES	
CREW (no. of)					
43. ENGINEERS		44. FIREMEN		45. CONDUCTORS	
46. ENGINEERS		47. FIREMEN		48. CONDUCTORS	
49. ENGINEERS		50. FIREMEN		51. CONDUCTORS	
52. ENGINEERS		53. FIREMEN		54. CONDUCTORS	
55. ENGINEERS		56. FIREMEN		57. CONDUCTORS	
58. ENGINEERS		59. FIREMEN		60. CONDUCTORS	
61. ENGINEERS		62. FIREMEN		63. CONDUCTORS	
64. ENGINEERS		65. FIREMEN		66. CONDUCTORS	
67. ENGINEERS		68. FIREMEN		69. CONDUCTORS	
70. ENGINEERS		71. FIREMEN		72. CONDUCTORS	
73. ENGINEERS		74. FIREMEN		75. CONDUCTORS	
76. ENGINEERS		77. FIREMEN		78. CONDUCTORS	
79. ENGINEERS		80. FIREMEN		81. CONDUCTORS	
82. ENGINEERS		83. FIREMEN		84. CONDUCTORS	
85. ENGINEERS		86. FIREMEN		87. CONDUCTORS	
88. ENGINEERS		89. FIREMEN		90. CONDUCTORS	
91. ENGINEERS		92. FIREMEN		93. CONDUCTORS	
94. ENGINEERS		95. FIREMEN		96. CONDUCTORS	
97. ENGINEERS		98. FIREMEN		99. CONDUCTORS	
100. ENGINEERS		101. FIREMEN		102. CONDUCTORS	
103. ENGINEERS		104. FIREMEN		105. CONDUCTORS	
106. ENGINEERS		107. FIREMEN		108. CONDUCTORS	
109. ENGINEERS		110. FIREMEN		111. CONDUCTORS	
112. ENGINEERS		113. FIREMEN		114. CONDUCTORS	
115. ENGINEERS		116. FIREMEN		117. CONDUCTORS	
118. ENGINEERS		119. FIREMEN		120. CONDUCTORS	
121. ENGINEERS		122. FIREMEN		123. CONDUCTORS	
124. ENGINEERS		125. FIREMEN		126. CONDUCTORS	
127. ENGINEERS		128. FIREMEN		129. CONDUCTORS	
130. ENGINEERS		131. FIREMEN		132. CONDUCTORS	
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163. ENGINEERS		164. FIREMEN		165. CONDUCTORS	
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229. ENGINEERS		230. FIREMEN		231. CONDUCTORS	
232. ENGINEERS		233. FIREMEN		234. CONDUCTORS	
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253. ENGINEERS		254. FIREMEN		255. CONDUCTORS	
256. ENGINEERS		257. FIREMEN		258. CONDUCTORS	
259. ENGINEERS		260. FIREMEN		261. CONDUCTORS	
262. ENGINEERS		263. FIREMEN		264. CONDUCTORS	
265. ENGINEERS		266. FIREMEN		267. CONDUCTORS	
268. ENGINEERS		269. FIREMEN		270. CONDUCTORS	
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274. ENGINEERS		275. FIREMEN		276. CONDUCTORS	
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298. ENGINEERS		299. FIREMEN		300. CONDUCTORS	
301. ENGINEERS		302. FIREMEN		303. CONDUCTORS	
304. ENGINEERS		305. FIREMEN		306. CONDUCTORS	
307. ENGINEERS		308. FIREMEN		309. CONDUCTORS	
310. ENGINEERS		311. FIREMEN		312. CONDUCTORS	
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316. ENGINEERS		317. FIREMEN		318. CONDUCTORS	
319. ENGINEERS		320. FIREMEN		321. CONDUCTORS	
322. ENGINEERS		323. FIREMEN		324. CONDUCTORS	
325. ENGINEERS		326. FIREMEN		327. CONDUCTORS	
328. ENGINEERS		329. FIREMEN		330. CONDUCTORS	
331. ENGINEERS		332. FIREMEN		333. CONDUCTORS	
334. ENGINEERS		335. FIREMEN		336. CONDUCTORS	
337. ENGINEERS		338. FIREMEN		339. CONDUCTORS	
340. ENGINEERS		341. FIREMEN		342. CONDUCTORS	
343. ENGINEERS		344. FIREMEN		345. CONDUCTORS	
346. ENGINEERS		347. FIREMEN		348. CONDUCTORS	
349. ENGINEERS		350. FIREMEN		351. CONDUCTORS	
352. ENGINEERS		353. FIREMEN		354. CONDUCTORS	
355. ENGINEERS		356. FIREMEN		357. CONDUCTORS	
358. ENGINEERS		359. FIREMEN		360. CONDUCTORS	
361. ENGINEERS		362. FIREMEN		363. CONDUCTORS	
364. ENGINEERS		365. FIREMEN		366. CONDUCTORS	
367. ENGINEERS		368. FIREMEN		369. CONDUCTORS	
370. ENGINEERS		371. FIREMEN		372. CONDUCTORS	
373. ENGINEERS		374. FIREMEN		375. CONDUCTORS	
376. ENGINEERS		377. FIREMEN		378. CONDUCTORS	
379. ENGINEERS		380. FIREMEN		381. CONDUCTORS	
382. ENGINEERS		383. FIREMEN		384. CONDUCTORS	
385. ENGINEERS		386. FIREMEN		387. CONDUCTORS	
388. ENGINEERS		389. FIREMEN		390. CONDUCTORS	
391. ENGINEERS		392. FIREMEN		393. CONDUCTORS	
394. ENGINEERS		395. FIREMEN		396. CONDUCTORS	
397. ENGINEERS		398. FIREMEN		399. CONDUCTORS	
400. ENGINEERS		401. FIREMEN		402. CONDUCTORS	
403. ENGINEERS		404. FIREMEN		405. CONDUCTORS	
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412. ENGINEERS		413. FIREMEN		414. CONDUCTORS	
415. ENGINEERS		416. FIREMEN		417. CONDUCTORS	
418. ENGINEERS		419. FIREMEN		420. CONDUCTORS	
421. ENGINEERS		422. FIREMEN		423. CONDUCTORS	
424. ENGINEERS		425. FIREMEN		426. CONDUCTORS	
427. ENGINEERS		428. FIREMEN		429. CONDUCTORS	
430. ENGINEERS		431. FIREMEN		432. CONDUCTORS	
433. ENGINEERS		434. FIREMEN		435. CONDUCTORS	
436. ENGINEERS		437. FIREMEN		438. CONDUCTORS	
439. ENGINEERS		440. FIREMEN		441. CONDUCTORS	
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RAIL-HIGHWAY GRADE CROSSING
ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT			2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)			3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER			5. DATE OF ACCIDENT/INCIDENT month day year	6. TIME OF ACCIDENT/INCIDENT am ☐ pm ☐
LOCATION				
7. NEAREST RAILROAD STATION			8. COUNTY	9. STATE (two letter code) CODE
10. CITY (if in a city)			11. HIGHWAY NAME OR NUMBER (if private crossing, so state)	
ACCIDENT/INCIDENT SITUATION				
12. TYPE 1. Auto 3. Truck-Trailer 6. Motorcycle 2. Truck 4. Bus 7. Pedestrian 5. School Bus 8. Other (specify)			CODE	16. EQUIPMENT 1. Train (units pulling) 3. Train (standing) 6. Light loco(s) (moving) 2. Train (units pushing) 4. Car(s) (moving) 7. Light loco(s) (standing) 5. Car(s) (standing) 8. Other (specify)
13. SPEED (estimated mph at impact)			14. DIRECTION (geographical) 1. North 3. East 2. South 4. West	17. POSITION OF CAR/UNIT IN TRAIN CODE
15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing			CODE	18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials?			CODE 1. Highway user 2. Rail equipment 3. Both 4. Neither	
ENVIRONMENT				
20. TEMPERATURE (specify, if minute) °F		21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark		CODE
22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow		CODE		
TRAIN AND TRACK				
23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)		CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry	
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
CROSSING WARNING				
31. TYPE (place X in appropriate box(es)) 1. ☐ Gates 5. ☐ Hwy. Traffic Signals 9. ☐ Watchman 2. ☐ Cantilever FLS 6. ☐ Audible 10. ☐ Flagged by crew 3. ☐ Standard FLS 7. ☐ Crossbucks 11. ☐ Other (specify) 4. ☐ Wig Wags 8. ☐ Stop Signs 12. ☐ None		32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No CODE		
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach		CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	
35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown		CODE		
MOTORIST ACTION				
36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown		CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	
38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown		CODE		
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other (specify) 4. Topography 6. Highway vehicles 8. Not obstructed		CODE		
HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES				
40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)		41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured		42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED		44. TOTAL NUMBER OF OCCUPANTS INJURED		45. TOTAL NUMBER OF OCCUPANTS (include driver)
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No CODE				
47. TYPED NAME AND TITLE		48. SIGNATURE		49. DATE

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

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

I. ESTABLISHMENTS INCLUDED IN THIS REPORT

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

II. AVERAGE EMPLOYMENT IN REPORTING YEAR

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

(Round to the nearest
whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR

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

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

(Round to the nearest
whole number)

IV. REPORTABLE INJURIES AND ILLNESSES

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

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

**V. MONTHLY DATA OF REPORTABLE INJURIES
AND ILLNESSES**

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

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

**CORPORATE NAME AND MAIL-
ING ADDRESS OF REPORTING
RAILROAD** →

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

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

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

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

VII. COMMENTS: _____

Report prepared by: _____ Area Code and Phone: _____

Title: _____ Date: _____

ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

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

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

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Accident/Incident Bulletin, No. 155 Calendar Year
1986, US DOT, FRA Office of Safety, 1987 -12-
Safety

MEAD 00 VP335A

U.S. Department
of Transportation

**Federal Railroad
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

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