



U.S. Department of
Transportation

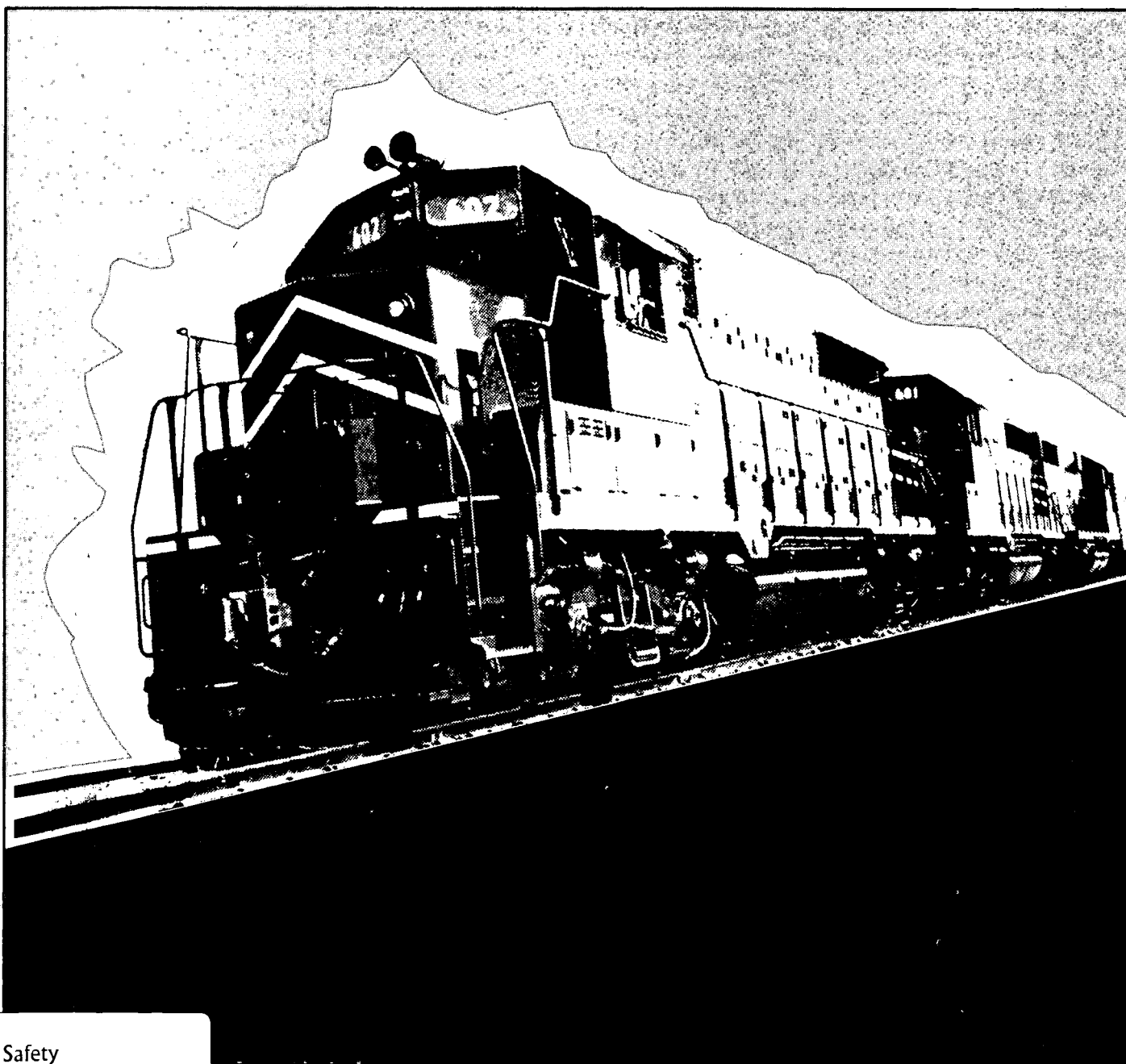
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Accident/Incident Bulletin

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NOTICE

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

Federal Railroad Administration
Office of Safety, RRS-22
400 Seventh Street, S.W.
Washington, D.C. 20590

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INTRODUCTION

To comply with the provisions of 49 CFR 225, all railroads are required to file monthly accident/incident reports with the Federal Railroad Administration's (FRA) Office of Safety.

Bulletin 152 summarizes all reportable accidents/incidents that occurred in the United States during 1983, including those involving Canadian railroads operating in the United States.

Railroads must use the reporting forms shown in Appendix B and the FRA Guide for Preparing Accident/Incident Reports, in accordance with 49 CFR 225.11. The forms and the reporting guide are reviewed every 2 years and revised if necessary.

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 1983 is \$4,500.

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 1979 to those resulting in a reportable damage of more than \$2,600; in 1980, to those over \$3,200; and in 1982, to those over \$4,100. For all other years, the actual number of accidents is reported.

To better assess the impact of increases or decreases in accidents/incidents, the number of hours worked (man-hours) and the revenue ton-miles. Therefore, the 1983 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.

In the 1978 Bulletin, the tables were renumbered, but when the same format of the Bulletin was revised, the table numbers remained. After 5 years of conforming to this numbering system, this edition contains another change in the numbers of the tables. However, the sequence is unchanged. On page viii there is a bridge, connecting the old table numbers to the new ones.

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

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

As a result of requests from our readers, three new tables have been added to this edition: Table 9, Casualties By Type Of Person; Table 26, Train Accidents Involving Consists Transporting Hazardous Materials; and Table 45, Summary of Employee on Duty Casualties by Reportability Criteria and Railroad.

Errata

After the 1982 Bulletin was published, errors were detected in three tables: S16, Train Accidents and Train Incident Fatalities to Trespassers and Nontrespassers by State; S17, Train Accidents and Train Incident Injuries to Trespassers and Nontrespassers by State; and S50, Casualties by Type of Person. These tables are reprinted in Appendix C. Figure 8, Nontrain Incidents per 200,000 Man-Hours, was improperly calculated in previous years and the numbers were 25 times greater than they should have been for each year. This year's Bulletin reflects the correct rate.

1. HISTORICAL TRENDS, 1978 THROUGH 1983

OPERATIONS

TABLE 1. RAILROAD OPERATIONAL PROFILE

Year	Man-Hours (000,000)	Motor Train-Miles (000)	Yard Switching Miles (000)	Locomotive Miles (000)	Total Train-Miles (000)
1978	1,056	32,279	214,498	505,187	751,964
1979	1,077	32,274	207,849	523,306	763,429
1980	1,011	32,784	182,340	502,538	717,662
1981	949	30,301	164,754	481,161	676,216
1982	801	27,359	133,424	412,586	573,369
1983	730	27,787	122,234	408,170	558,191

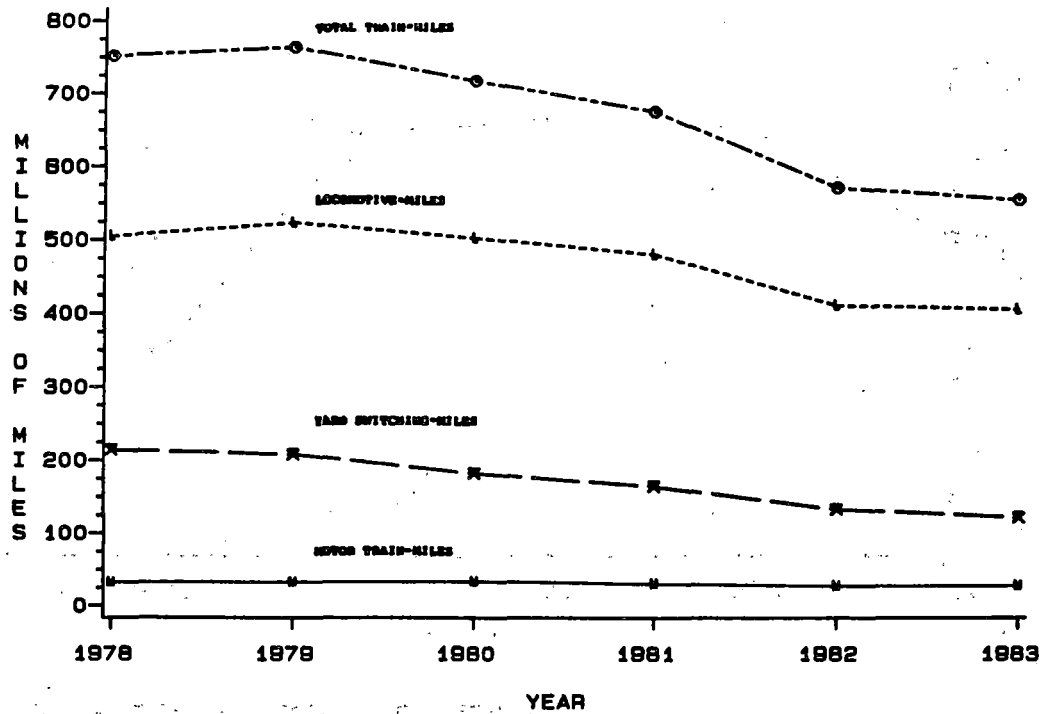
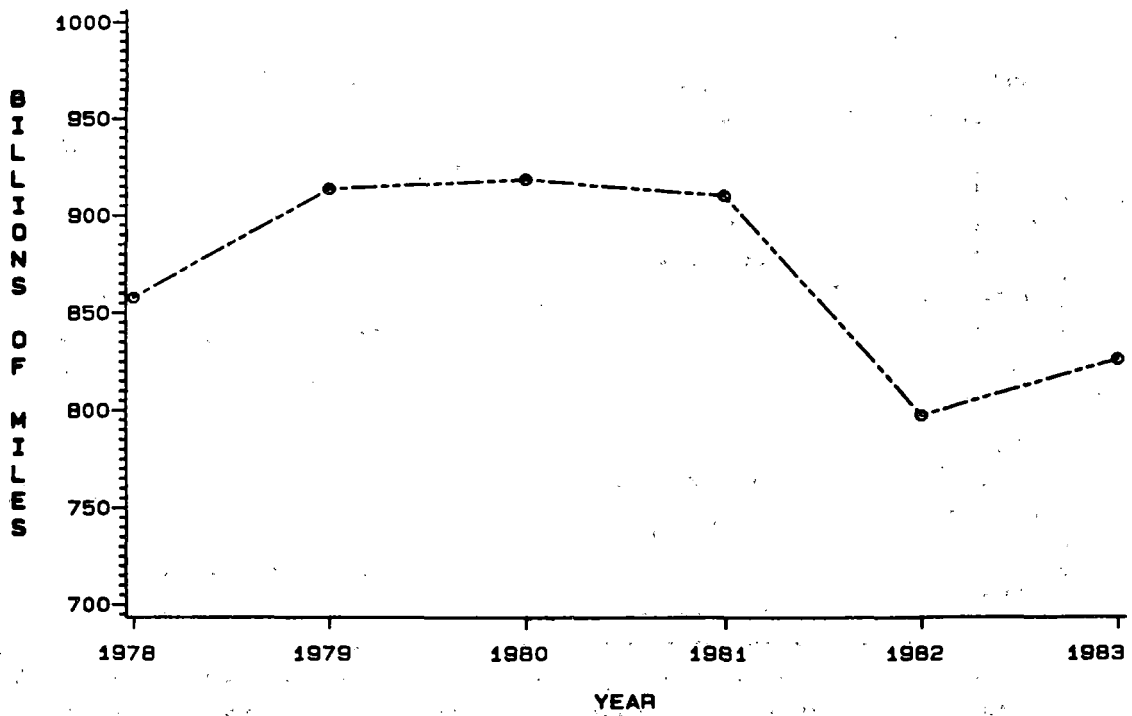


FIGURE 1. RAILROAD TRAIN-MILES, 1978-1983

TABLE 2

**Revenue Ton-Miles, 1978-1983
(Billions)**

1978	858.1
1979	913.7
1980	918.6
1981	910.2
1982	797.8
1983	826.6



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES, 1978-1983

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>
1978	2,845	2,170	4,797	1,465	11,277
1979	2,660	1,815	4,050	1,215	9,740
1980	2,323	1,458	3,492	1,178	8,451
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

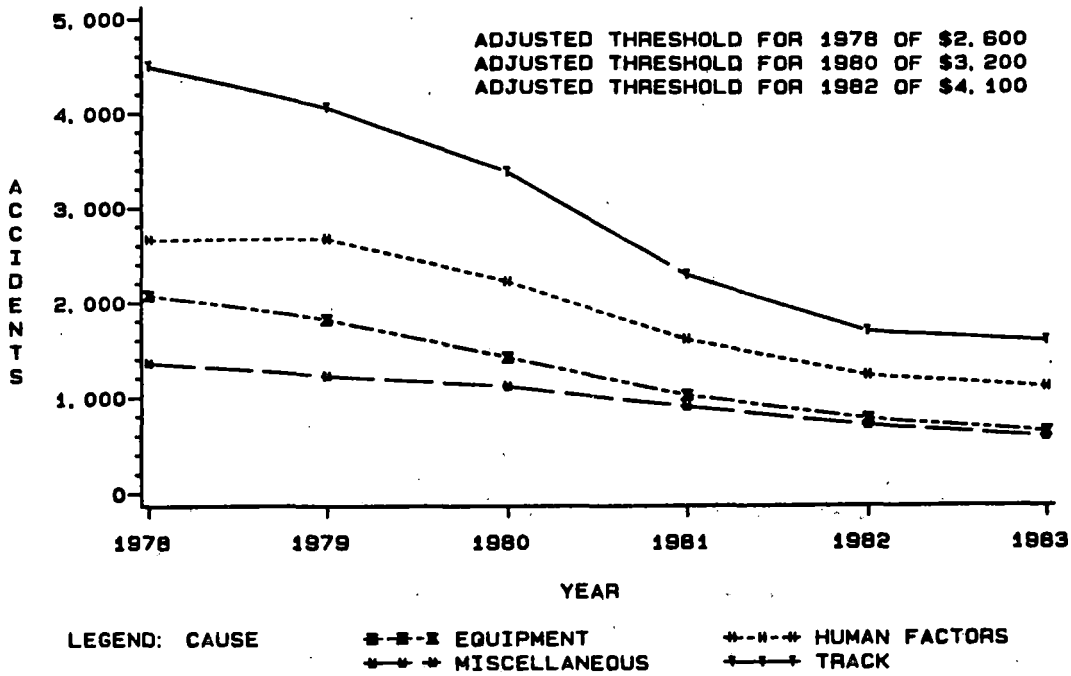


FIGURE 3A. ACCIDENT CAUSES, 1978-1983 ADJUSTED

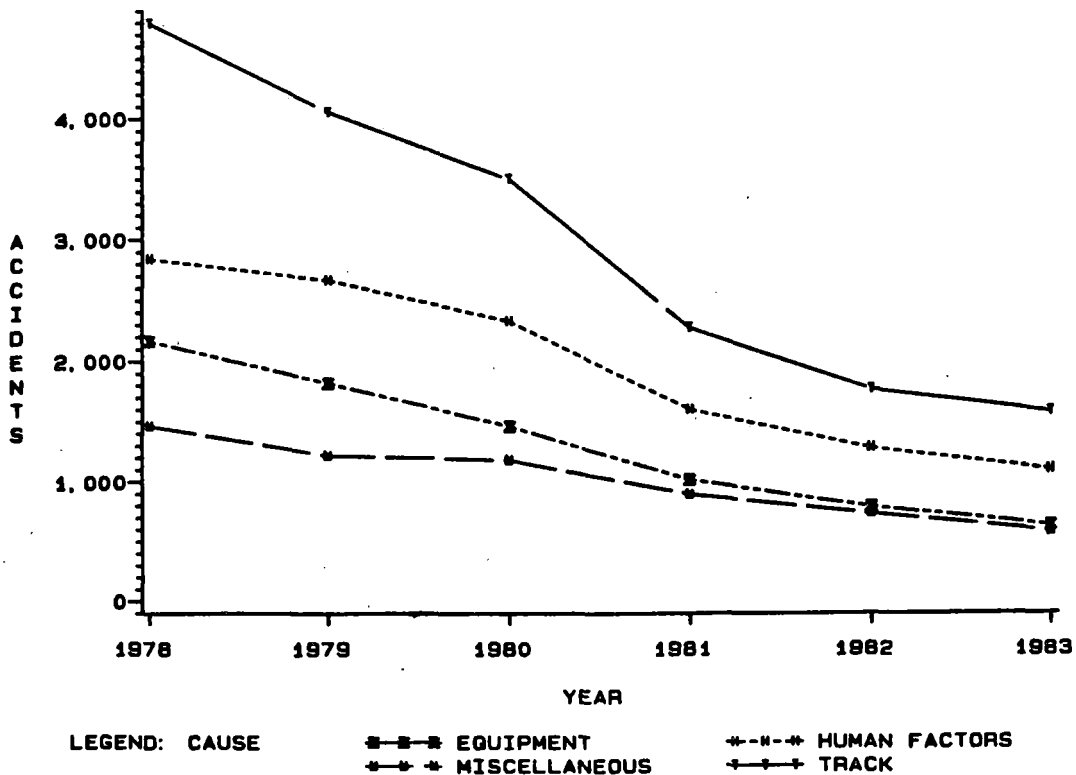


FIGURE 3B. ACCIDENT CAUSES, 1978-1983 UNADJUSTED

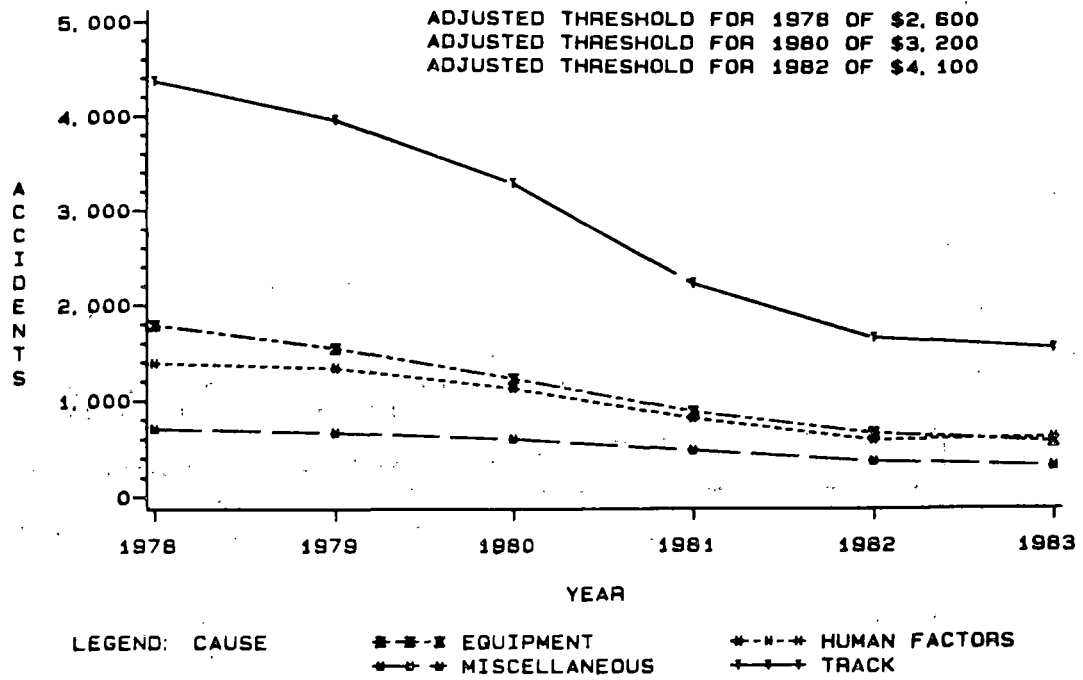


FIGURE 4A. DERAILMENT CAUSES, 1978-1983 ADJUSTED

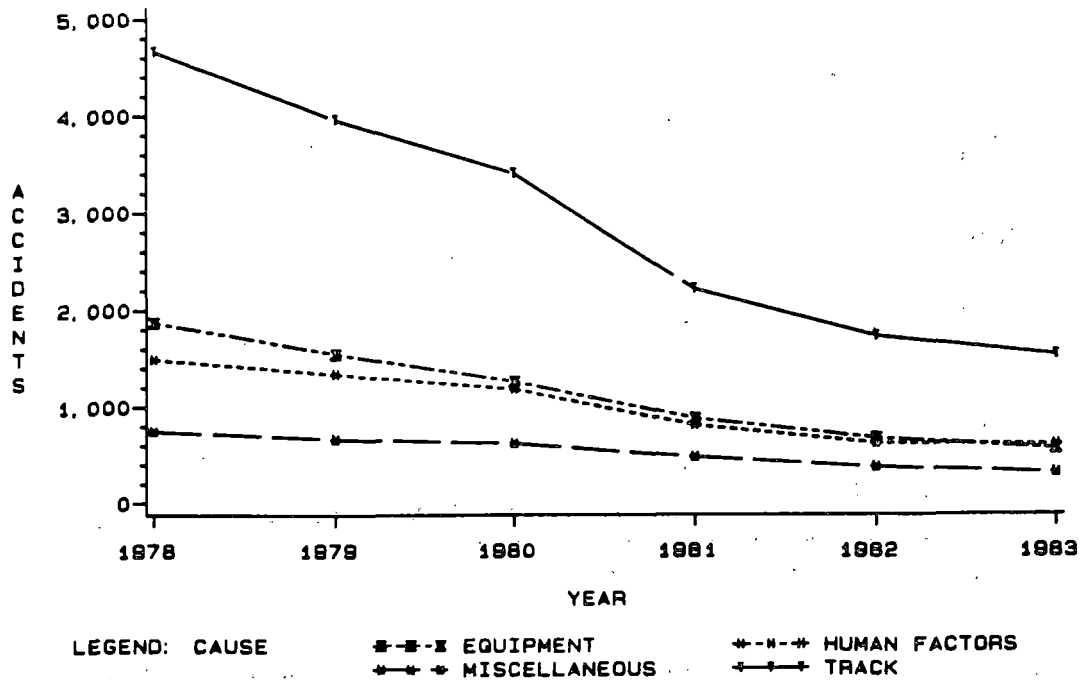


FIGURE 4B. DERAILMENT CAUSES, 1978-1983 UNADJUSTED

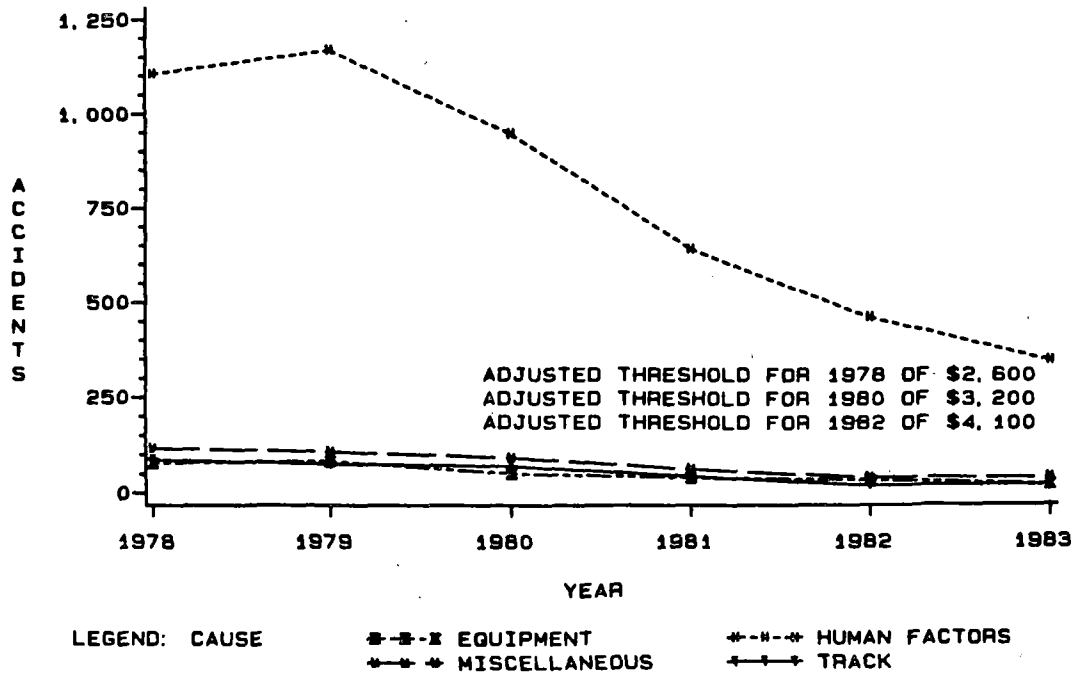


FIGURE 5A. COLLISION CAUSES, 1978-1983 ADJUSTED

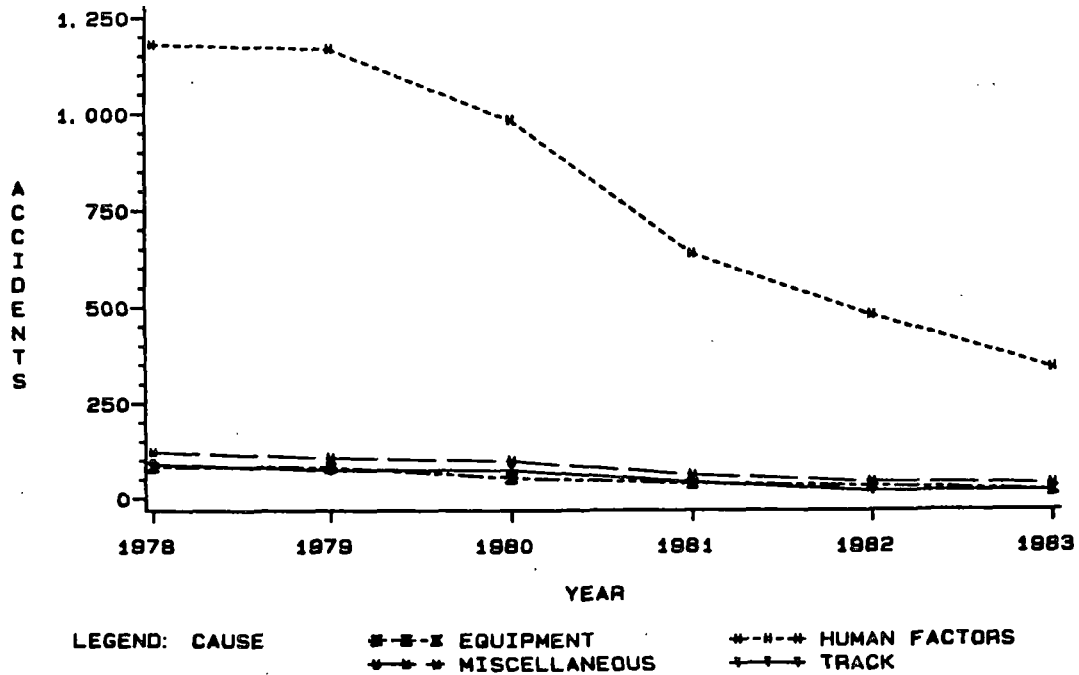


FIGURE 5B. COLLISION CAUSES, 1978-1983 UNADJUSTED

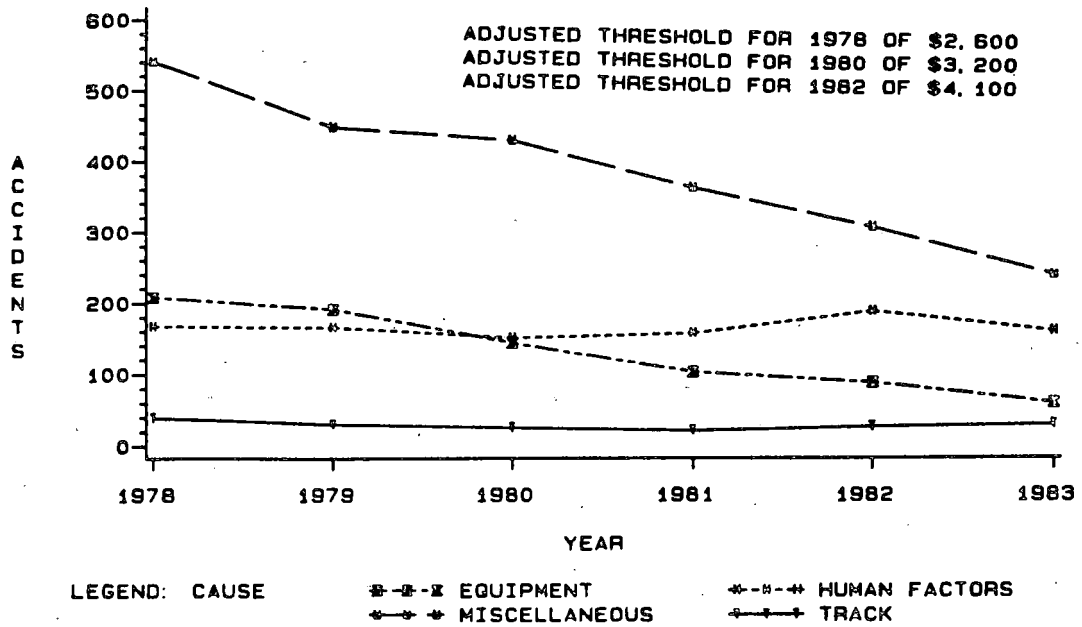


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS, 1978-1983 ADJUSTED

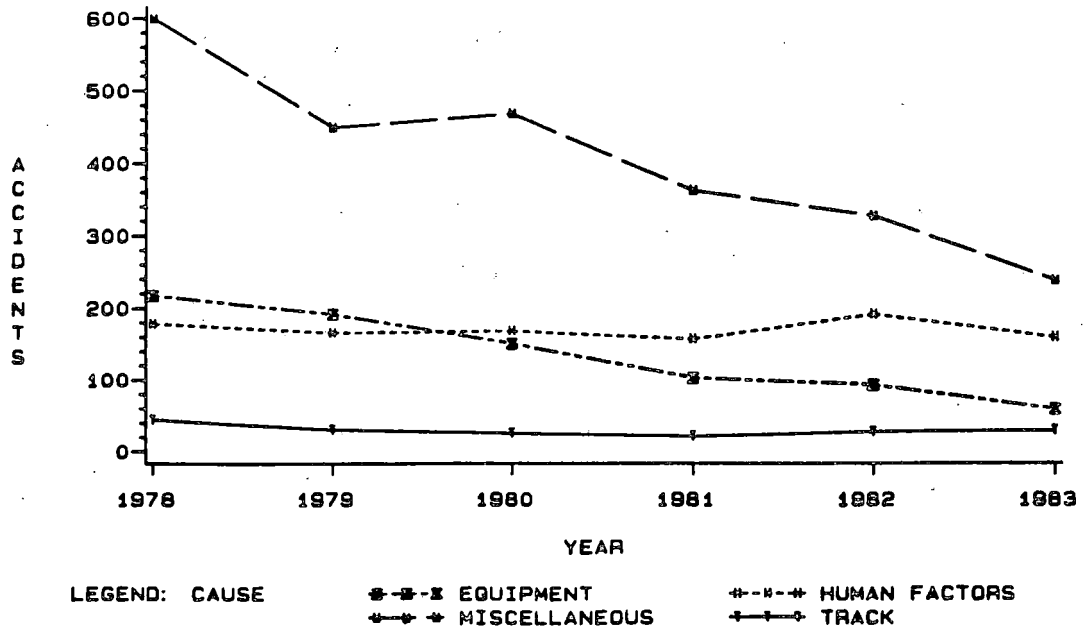


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENT, 1978-1983 UNADJUSTED

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
1978	11,277	304,951,427	27,033	405,540	15.00
1979	9,740	313,907,209	32,229	411,181	12.76
1980	8,451	273,905,340	32,411	381,664	11.78
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

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					
1978	1,476	33,630,565	22,772	44,724	1.96
1979	1,425	41,919,343	29,417	54,909	1.87
1980	1,201	39,240,680	32,673	54,679	1.67
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
DERAILMENTS					
1978	8,763	250,266,525	28,551	332,819	11.66
1979	7,482	253,630,703	33,899	332,225	9.80
1980	6,442	218,642,543	33,940	304,660	9.98
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
OTHER					
1978	1,038	21,054,337	20,278	27,990	1.38
1979	833	18,357,163	22,037	24,059	1.09
1980	808	16,022,117	19,829	22,325	1.13
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

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					
1978	2,845	56,007,609	19,675	74,514	3.79
1979	2,660	80,125,870	30,122	105,014	3.49
1980	2,323	63,121,042	27,172	87,954	3.24
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
EQUIPMENT FAILURES					
1978	2,170	79,266,281	36,528	105,458	2.89
1979	1,815	76,768,530	42,297	100,614	2.38
1980	1,458	56,738,724	38,915	79,061	2.03
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
TRACK DEFECTS					
1978	4,797	117,145,701	24,412	155,853	6.38
1979	4,050	110,582,493	27,304	144,931	5.31
1980	3,492	108,839,389	31,168	151,658	4.87
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
OTHER					
1978	1,465	52,531,836	35,851	69,890	1.95
1979	1,215	46,430,316	38,214	60,852	1.59
1980	1,178	45,206,185	38,375	62,991	1.64
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

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

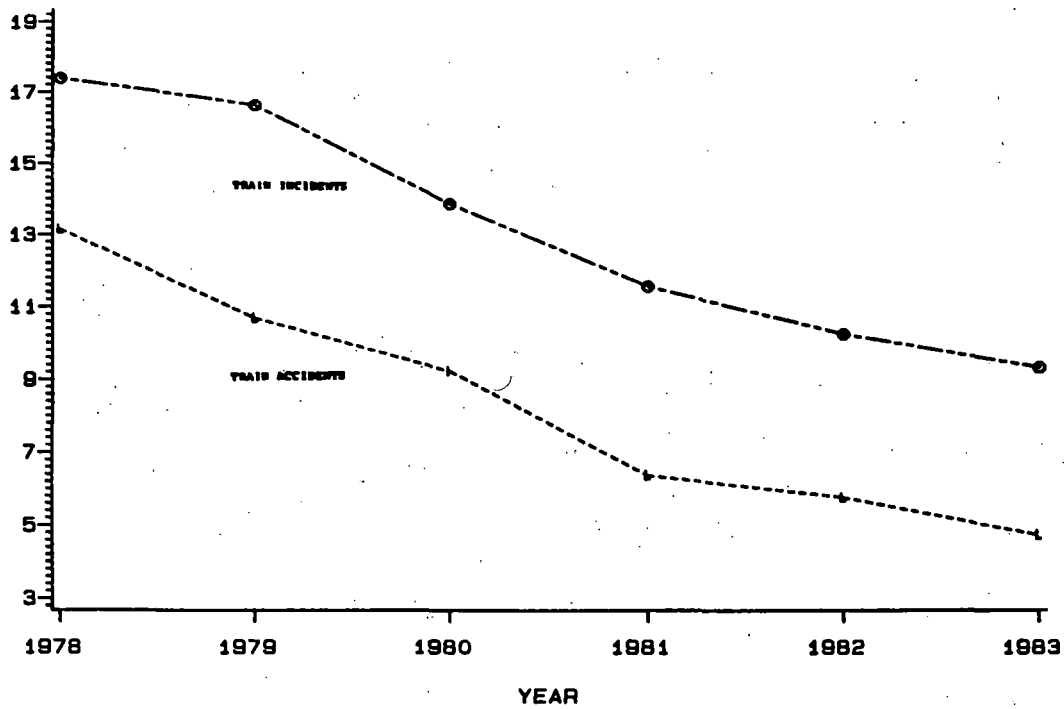


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

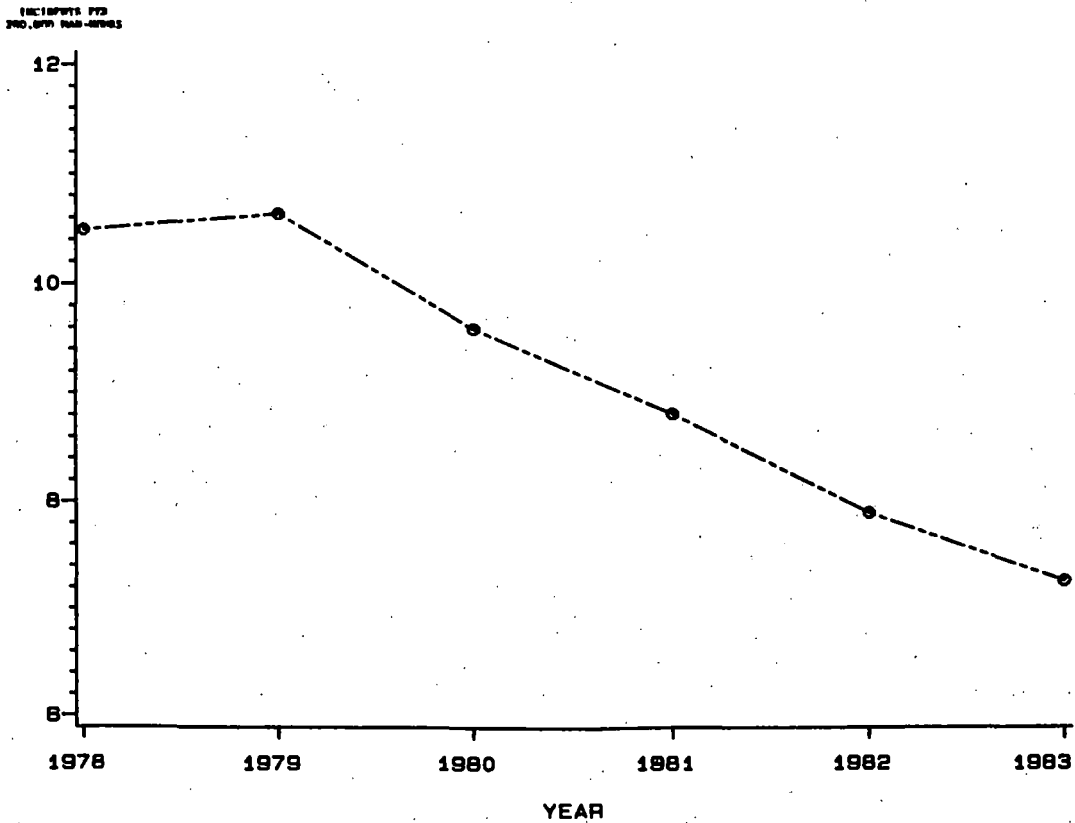


FIGURE 8. NONTRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE 7 TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1978	11,277	14,918	55,391	81,586
1979	9,740	15,159	57,213	82,112
1980	8,451	12,686	48,398	69,535
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

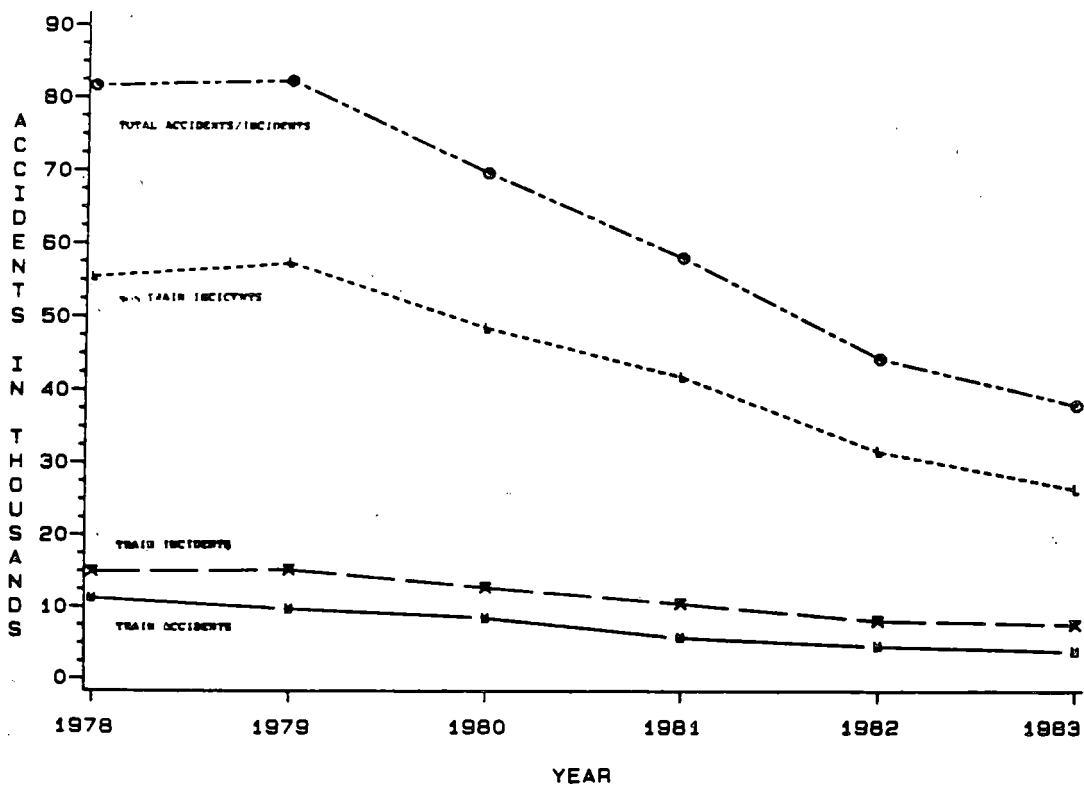


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS , 1978-1983

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					
1978	139	1,911*	2,050	11,277	2.73
1979	100	1,275	1,375	9,740	1.80
1980	97	860	957	8,451	1.33
1981	63	562	625	5,781	.92
1982	49	472	521	4,589	.91
1983	56	502	558	3,906	1.00
TRAIN INCIDENTS					
1978	1,427	15,014	16,441	14,918	21.86
1979	1,245	15,414	16,659	15,159	21.83
1980	1,242	12,802	14,044	12,686	19.57
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
NONTRAIN INCIDENTS					
1978	80	55,620	55,700	55,391	74.07
1979	84	57,437	57,521	57,213	75.39
1980	78	48,584	48,662	48,398	67.81
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
ALL ACCIDENTS					
1978	1,646	72,545	74,191	81,856	98.66
1979	1,429	74,126	75,555	82,112	99.02
1980	1,417	62,246	63,663	69,535	88.71
1981	1,284	53,003	54,287	58,023	80.28
1982	1,119	40,275	41,934	44,342	72.19
1983	1,073	34,819	35,892	38,086	64.30

*Included in an ICG commuter train accident, which on January 26, 1978, resulted in 558 nonfatal casualties.

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
1978	122	65,071	9	723	13	1,252	1,008	4,716	492	746	2	37	1,646	72,545
1979	101	66,924	1	872	6	1,001	796	4,483	516	805	9	41	1,429	74,126
1980	97	56,331	4	671	4	593	739	3,849	566	728	7	74	1,417	62,246
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

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

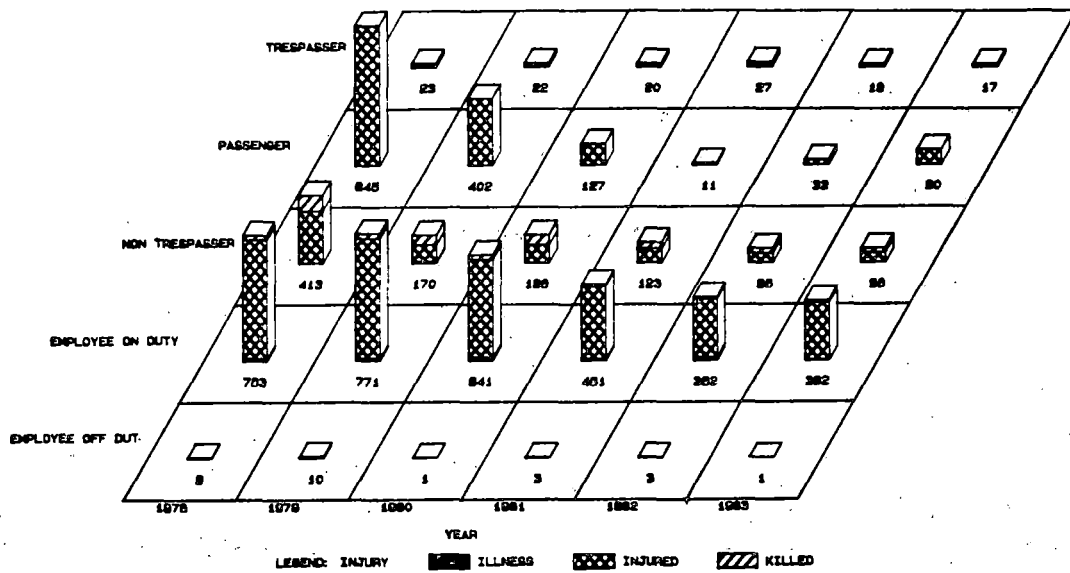


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS, 1978-1983

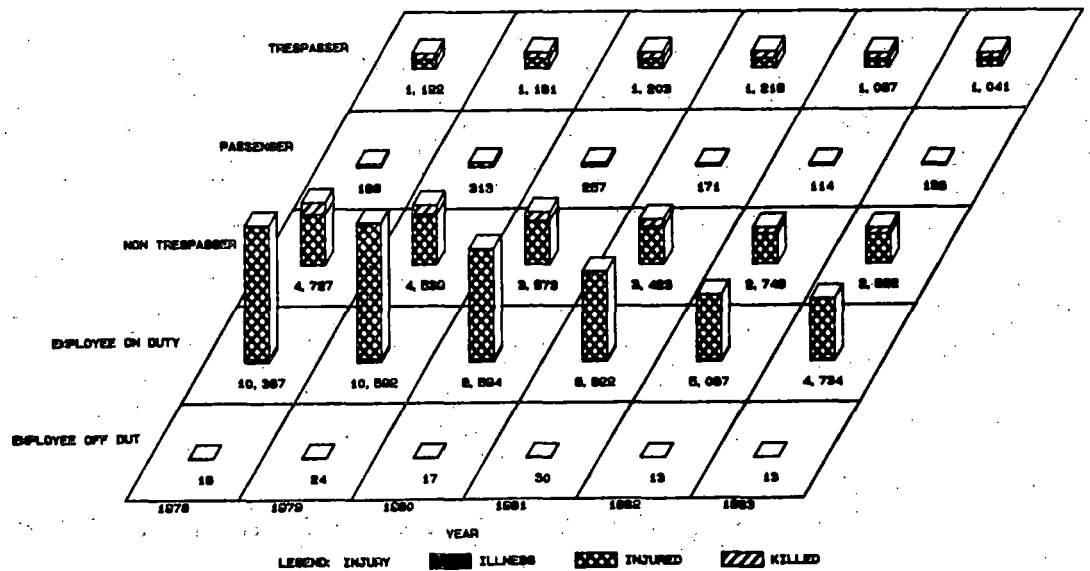


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS, 1978-1983

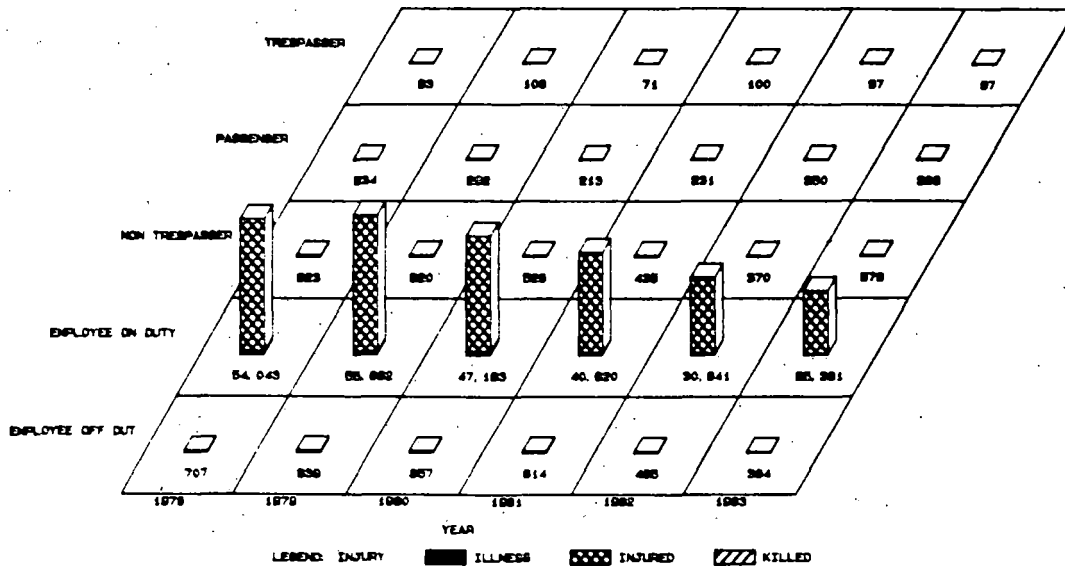


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS, 1978-1983

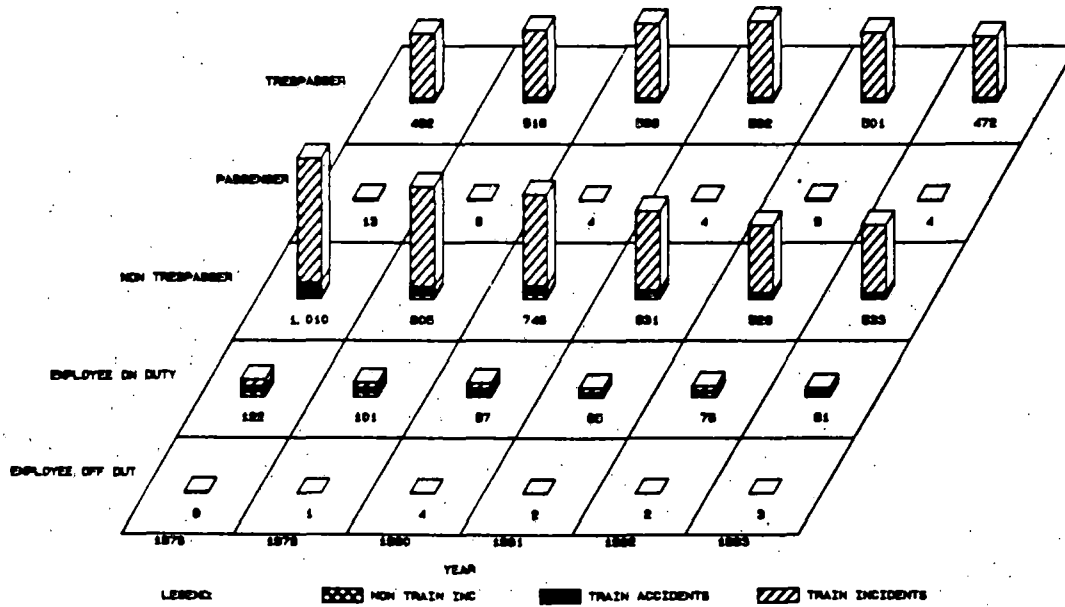


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS, 1978-1983

2. OVERVIEW OF 1983 DATA

SPEED FACTOR IN ACCIDENTS

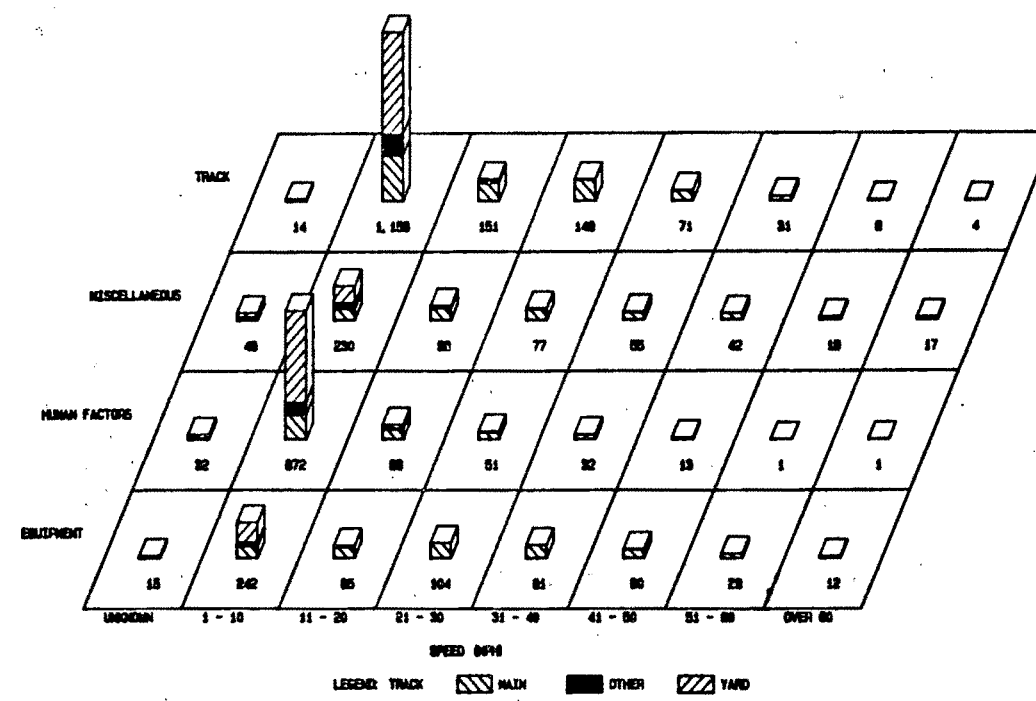


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

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	33	1,337,048	1,167,253	169,795	2	16	15	5	11	4	13
1-10	643	21,458,637	16,214,558	5,244,079	45	557	41	316	81	167	79
11-20	349	20,026,515	15,534,776	4,491,739	17	299	33	125	76	66	82
21-30	368	36,135,047	29,947,965	6,187,082	18	299	51	144	103	47	74
31-40	241	34,827,180	29,039,493	5,787,687	10	181	50	69	89	30	53
41-50	144	29,582,428	25,787,992	3,794,436	2	91	51	31	59	12	42
51-60	55	11,055,627	9,613,297	1,442,330	---	34	21	6	29	1	19
61-70	24	4,749,122	3,450,896	1,298,226	3	8	13	2	9	1	12
71-80	6	5,287,000	5,262,400	24,600	---	1	5	1	1	---	4
81-90	3	49,200	40,200	9,000	---	---	3	1	1	---	1
>=91	1	12,000	12,000	---	---	---	1	---	1	---	---
TOTAL	1,867	164,519,804	136,070,830	28,448,974	97	1,486	284	700	460	328	379
ACCIDENTS ON YARD TRACK											
UNKNOWN	60	1,012,796	913,073	99,723	4	25	31	6	3	22	29
1-10	1,573	27,658,276	20,534,303	7,123,973	278	1,166	129	698	138	623	114
11-20	51	1,574,471	1,235,516	338,955	11	31	9	15	5	23	8
21-30	5	194,572	73,079	121,493	2	3	---	1	1	1	2
31-40	5	1,799,316	1,757,851	41,465	1	4	---	2	1	1	1
41-50	1	10,300	9,500	800	---	1	---	---	---	1	---
TOTAL	1,695	32,249,731	24,523,322	7,726,409	296	1,230	169	722	148	671	154
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	16	368,608	349,215	19,393	2	8	6	3	1	6	6
1-10	284	5,978,075	4,536,838	1,441,237	19	244	21	142	23	82	37
11-20	33	1,829,061	1,496,376	332,685	2	27	4	11	4	10	8
21-30	7	2,532,524	2,403,264	129,260	2	5	---	3	---	3	1
31-40	3	387,990	325,470	62,520	---	3	---	---	1	1	1
41-50	1	484,663	435,191	49,472	---	1	---	---	1	---	---
TOTAL	344	11,580,921	9,546,354	2,034,567	25	288	31	159	30	102	53
FINAL	3,906	208,350,456	170,140,506	38,209,950	418	3,004	484	1,581	638	1,101	586

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

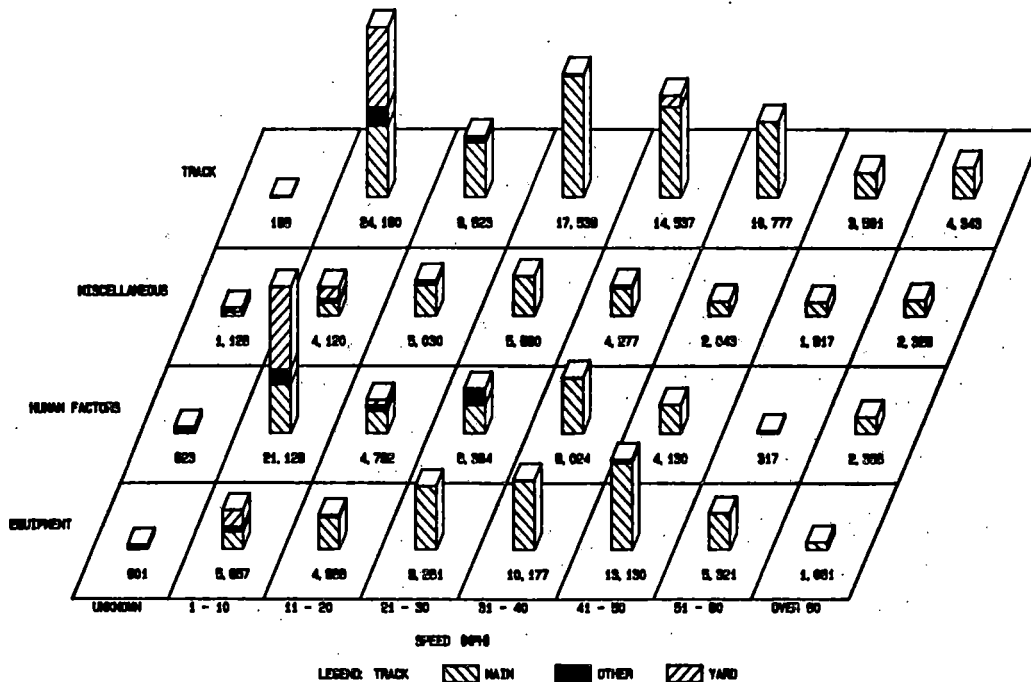


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

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 CAUSED	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
?	277	6,175,837	4,914,049	1,261,788	55	200	22	105	27	107	38
1	1,946	43,711,258	33,940,568	9,770,690	257	1,504	185	889	170	681	206
2	611	33,866,640	25,928,083	7,938,557	52	504	55	266	111	141	93
3	637	66,017,731	56,155,729	9,862,002	30	503	104	227	164	116	130
4	369	48,964,929	41,305,476	7,659,453	20	244	105	78	133	53	105
5	63	9,568,061	7,859,601	1,708,460	4	49	10	15	31	3	14
6	3	46,000	37,000	9,000	—	—	3	1	2	—	—
TOTAL	3,906	208,350,456	170,140,506	38,209,950	418	3,004	484	1,581	638	1,101	586

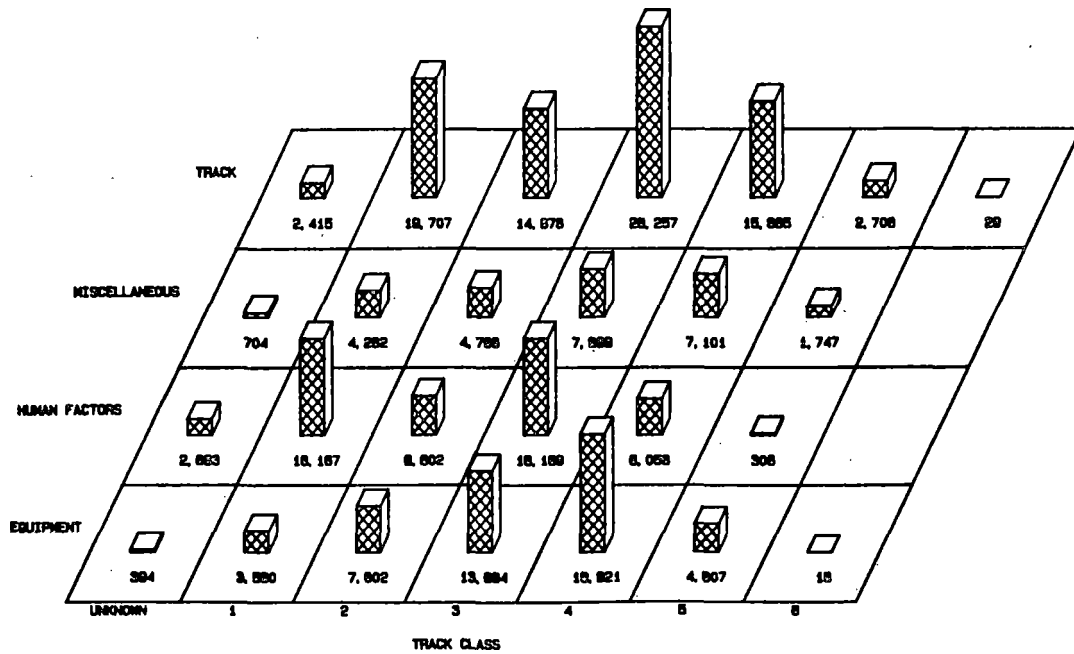


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

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	14,644,581	64,050,833	10,918,358	37,324,486	5,865,261	16,815,933	3,323,852	11,716,660	34,752,052	129,907,912
Head on collision	16,565	1,645,851	200	14,000	121,727	4,130,439	800	24,300	139,292	5,814,590
Rear end collision	---	24,500	500	94,910	134,333	9,663,422	17,200	650,700	152,033	10,433,532
Side collision	12,324	158,056	2,200	70,200	1,210,605	7,018,956	61,781	1,376,128	1,286,910	8,623,340
Raking collision	---	43,287	3,174	15,800	59,091	407,679	28,725	78,875	90,990	545,641
Broken trn collisin	---	8,400	23,800	300,999	---	42,616	600	6,000	24,400	358,015
Rail-hwy crossing	---	---	1,000	30,150	---	---	711,846	4,863,618	712,846	4,893,768
RR grade crossing	---	---	---	---	---	7,500	---	---	---	7,500
Obstruction	---	221,840	---	12,000	32,900	483,422	67,041	1,832,618	99,941	2,549,880
Explosion-detonation	---	---	---	---	---	---	---	---	---	---
Fire/violent rupture	53,200	1,280,000	---	948,550	---	---	29,300	501,588	82,500	2,730,138
Other	310,693	869,894	136,902	396,505	224,415	2,141,316	196,976	868,475	868,986	4,276,190
TOTAL.....	15,037,363	68,302,661	11,086,134	39,207,600	7,648,332	40,711,283	4,438,121	21,918,962	38,209,950	170,140,506

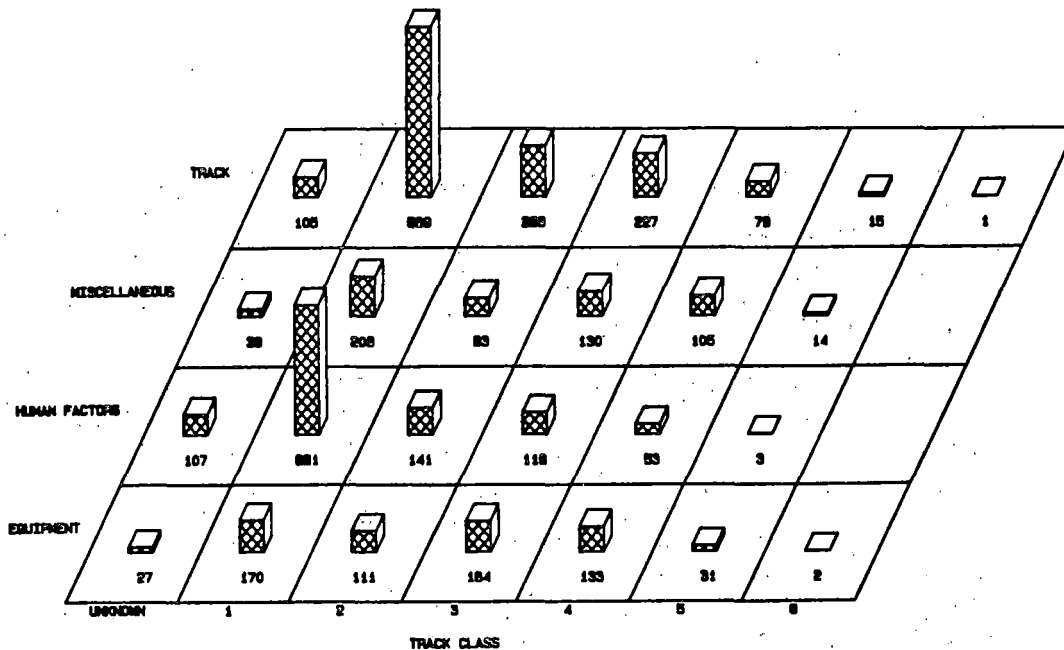


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

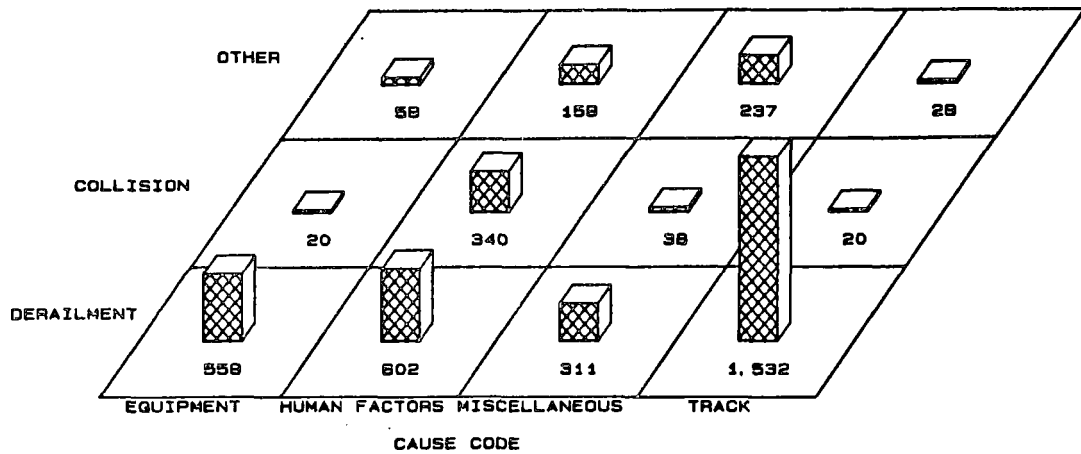


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON

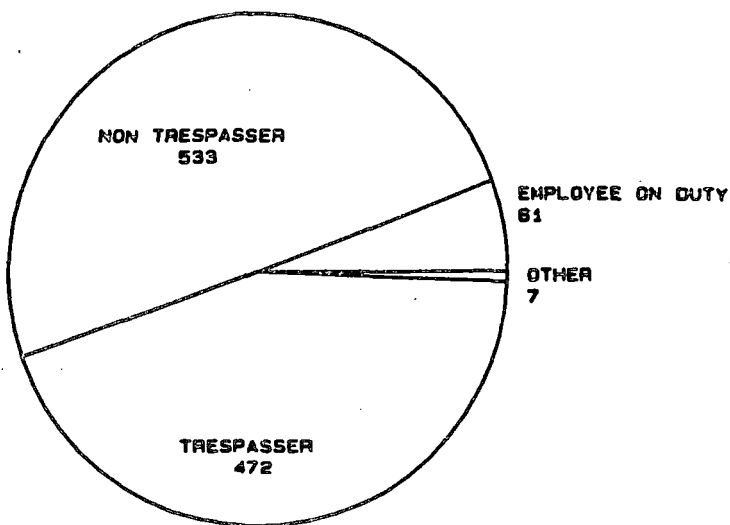


FIGURE 19A. FATALITIES BY TYPE OF PERSON

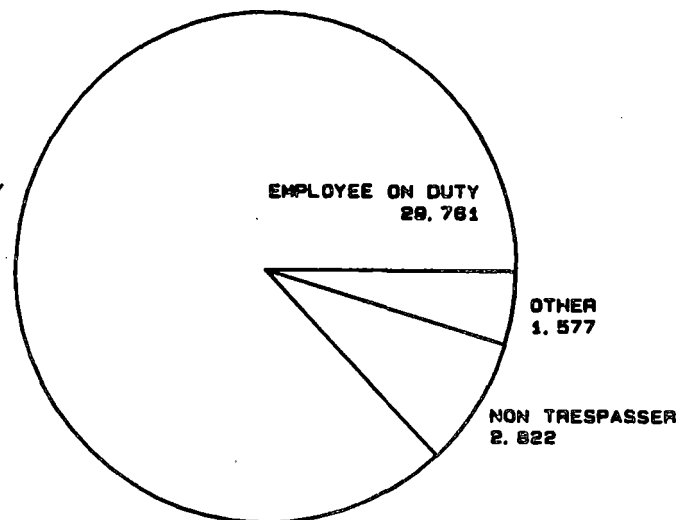


FIGURE 19B. INJURIES BY TYPE OF PERSON

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.....	15	---	4	---	---	---	19
Injuries.....	293	1	44	15	---	---	353
Occupational illnesses...	2	---	---	---	---	---	2
Total casualties.....	310	1	48	15	---	---	374
TRAIN INCIDENTS							
Fatalities.....	24	1	---	22	383	2	432
Injuries.....	4,576	9	125	46	421	5	5,182
Occupational illnesses...	65	---	---	---	---	---	65
Total casualties.....	4,665	10	125	68	804	7	5,679
NONTRAIN INCIDENTS							
Fatalities.....	21	2	---	3	17	4	47
Injuries.....	24,770	379	288	401	75	89	26,002
Occupational illnesses...	588	3	---	---	---	1	592
Total casualties.....	25,379	384	288	404	92	94	26,641
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities.....	1	---	---	502	72	---	575
Injuries.....	122	3	45	2,266	187	---	2,623
Occupational illnesses...	---	---	---	---	---	---	---
Total casualties.....	123	3	45	2,768	259	---	3,198
GRAND TOTAL							
Fatalities.....	61	3	4	527	472	6	1,073
Injuries.....	29,761	392	502	2,728	683	94	34,160
Occupational illnesses...	655	3	---	---	---	1	659
Total casualties.....	30,477	398	506	3,255	1,155	101	35,892

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

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

TABLE 14 TOTAL FATALITIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS						
Collisions.....	11	9	2	11	---	---
Derailments.....	8	4	---	4	---	---
Rail-highway x-ing.....	37	---	---	---	---	30
Miscellaneous.....	---	---	---	---	---	7
Total.....	56	13	2	15	---	30
TRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	2	1	1	2	---	---
Coupling/uncoupling air/steam hose, safety chains...	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	1	---	1	1	---	---
Operating hand brakes.....	1	1	---	1	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars....	---	---	---	---	---	---
Getting on or off cars or locomotives.....	17	4	---	4	---	1
Collisions, derailments, etc. (<= \$4,501).....	8	1	---	1	---	2
Rail-highway crossing accidents/incidents.....	534	1	---	1	---	468
Struck by/ran into loco/car(not at rr-hwy x-ing)...	388	7	5	12	1	21
Servicing or maintenance of equipment.....	---	---	---	---	---	---
Maintenance of way and structures.....	3	---	3	3	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	1	---	---	---	---	1
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	6	---	---	---	---	6
Flying or falling objects, burns, etc., N.O.C.....	1	---	---	---	---	1
Operation of on-track work equipment.....	1	---	---	---	---	1
Assault.....	---	---	---	---	---	---
Other occurrences.....	3	---	---	---	---	3
Total.....	966	15	10	25	1	492
NONTRAIN INCIDENTS						
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains...	1	1	---	1	---	---
Operating or on locomotives.....	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---
Contacting fixed objects while on locos or cars....	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---
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.....	3	---	3	3	---	---
Maintenance of way and structures.....	6	---	5	5	---	1
Freight, baggage, express or mail.....	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	2	1	1	2	---	---
Passenger car doors.....	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	5	1	---	1	---	2
Flying or falling objects, burns, etc., N.O.C.....	11	---	2	2	1	8
Operation of on-track work equipment.....	1	---	1	1	---	---
Assault.....	2	---	1	1	---	1
Other occurrences.....	15	---	5	5	1	4
Total.....	51	3	18	21	2	11
Grand total.....	1,073	31	30	61	3	4
						533
						472

TABLE 15 TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers		
TRAIN ACCIDENTS								
Collisions.....	116	83	28	111	---	2	3	---
Derailments.....	179	110	23	133	1	33	12	---
Rail-highway x-ing.....	147	30	22	52	---	42	43	10
Miscellaneous.....	60	32	19	51	---	9	---	---
Total.....	502	255	92	347	1	86	58	10
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	284	273	11	284	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains...	35	34	1	35	---	---	---	---
Operating or on locomotives.....	666	628	38	666	---	---	---	---
Operating rail motorcars.....	27	8	19	27	---	---	---	---
Operating hand brakes.....	102	97	5	102	---	---	---	---
Operating switches or derails.....	22	21	1	22	---	---	---	---
Contacting fixed objects while on locos or cars....	106	98	6	104	---	1	---	1
Getting on or off cars or locomotives.....	1,158	988	46	1,034	2	31	6	85
Collisions, derailments, etc. (<= \$4,501).....	140	105	14	119	1	1	6	13
Rail-highway crossing accidents/incidents.....	2,395	51	17	68	3	3	2,149	172
Struck by/ran into loco/car(not at rr-hwy x-ing)...	397	43	23	66	4	---	25	302
Servicing or maintenance of equipment.....	103	2	101	103	---	---	---	---
Maintenance of way and structures.....	156	3	149	152	1	---	3	---
Freight, baggage, express or mail.....	15	5	8	13	---	2	---	---
Windows, doors, etc., on on-track equipment.....	127	87	16	103	---	22	---	2
Passenger car doors.....	6	1	1	2	---	4	---	---
Stumbling, slipping, falling, caught, N.O.C.....	234	162	25	187	---	30	6	11
Flying or falling objects, burns, etc., N.O.C.....	611	559	40	599	---	10	1	1
Operation of on-track work equipment.....	245	20	224	244	---	1	---	---
Assault.....	111	99	7	106	1	4	---	---
Other occurrences.....	702	610	63	673	---	19	4	6
Total.....	7,642	3,894	815	4,709	12	128	2,200	593
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	664	609	55	664	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains...	310	255	55	310	---	---	---	---
Operating or on locomotives.....	401	316	85	401	---	---	---	---
Operating rail motorcars.....	80	18	62	80	---	---	---	---
Operating hand brakes.....	404	382	22	404	---	---	---	---
Operating switches or derails.....	1,185	1,060	125	1,185	---	---	---	---
Contacting fixed objects while on locos or cars....	29	16	11	27	---	---	1	1
Getting on or off cars or locomotives.....	1,222	790	286	1,076	9	102	31	4
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	81	1	1	2	---	---	74	5
Struck by/ran into loco/car(not at rr-hwy x-ing)...	25	4	3	7	3	---	1	14
Servicing or maintenance of equipment.....	6,054	64	5,928	5,992	34	---	28	---
Maintenance of way and structures.....	9,469	45	9,315	9,360	56	---	53	---
Freight, baggage, express or mail.....	223	13	205	218	---	2	2	1
Windows, doors, etc., on on-track equipment.....	468	174	268	442	7	11	7	1
Passenger car doors.....	39	12	8	20	---	15	4	---
Stumbling, slipping, falling, caught, N.O.C.....	2,576	987	1,032	2,019	154	142	246	15
Flying or falling objects, burns, etc., N.O.C.....	769	388	316	704	16	5	33	11
Operation of on-track work equipment.....	134	3	129	132	---	2	---	---
Assault.....	205	50	127	177	7	5	13	3
Other occurrences.....	2,337	411	1,729	2,140	96	4	72	25
Total.....	26,675	5,598	19,762	25,360	382	288	565	80
Grand total.....	34,819	9,747	20,669	30,416	395	502	2,823	683

TABLE 16 TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

Type Of Accident/Incident	.....Accidents/Incidents.....		
	Total	Fatal	Nonfatal
TRAIN ACCIDENTS *			
Collisions.....	418	7	44
Derailments.....	3,004	4	85
Rail-highway crossing.....	130	25	54
Miscellaneous.....	354	—	26
Total.....	3,906	36	209
TRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	284	2	282
Coupling/uncoupling air/steam hose, safety chains.	35	—	35
Operating or on locomotives.....	654	—	654
Operating rail motorcars.....	26	1	25
Operating hand brakes.....	103	1	102
Operating switches or derails.....	22	—	22
Contacting fixed objects while on locos or cars..	106	—	106
Getting on or off cars or locomotives.....	1,167	17	1,150
Collisions, derailments, etc. (<= \$4,501).....	121	8	113
Rail-highway crossing accidents/incidents.....	2,150	441	1,709
Struck by/ran into loco/car(not at rr-hwy x-ing).	761	384	377
Servicing or maintenance of equipment.....	103	—	103
Maintenance of way and structures.....	153	2	151
Freight, baggage, express or mail.....	15	—	15
Windows, doors, etc., on on-track equipment.....	128	1	127
Passenger car doors.....	6	—	6
Stumbling, slipping, falling, caught, N.O.C.....	239	5	234
Flying or falling objects, burns, etc., N.O.C....	597	1	596
Operation of on-track work equipment.....	231	1	230
Assault.....	111	—	111
Other occurrences.....	683	3	680
Total.....	7,695	867	6,828
NONTRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars.....	663	—	663
Coupling/uncoupling air/steam hose, safety chains.	310	1	309
Operating or on locomotives.....	396	—	396
Operating rail motorcars.....	80	—	80
Operating hand brakes.....	404	—	404
Operating switches or derails.....	1,185	—	1,185
Contacting fixed objects while on locos or cars..	29	—	29
Getting on or off cars or locomotives.....	1,221	—	1,221
Collisions, derailments, etc. (<= \$4,501).....	—	—	—
Rail-highway crossing accidents/incidents.....	69	4	65
Struck by/ran into loco/car(not at rr-hwy x-ing).	26	1	25
Servicing or maintenance of equipment.....	6,042	3	6,039
Maintenance of way and structures.....	9,456	6	9,450
Freight, baggage, express or mail.....	222	—	222
Windows, doors, etc., on on-track equipment.....	470	2	468
Passenger car doors.....	39	—	39
Stumbling, slipping, falling, caught, N.O.C.....	2,579	5	2,574
Flying or falling objects, burns, etc., N.O.C....	699	11	688
Operation of on-track work equipment.....	134	1	133
Assault.....	205	2	203
Other occurrences.....	2,256	13	2,243
Total.....	26,485	49	26,436
Grand total.....	38,086	952	33,473

*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."

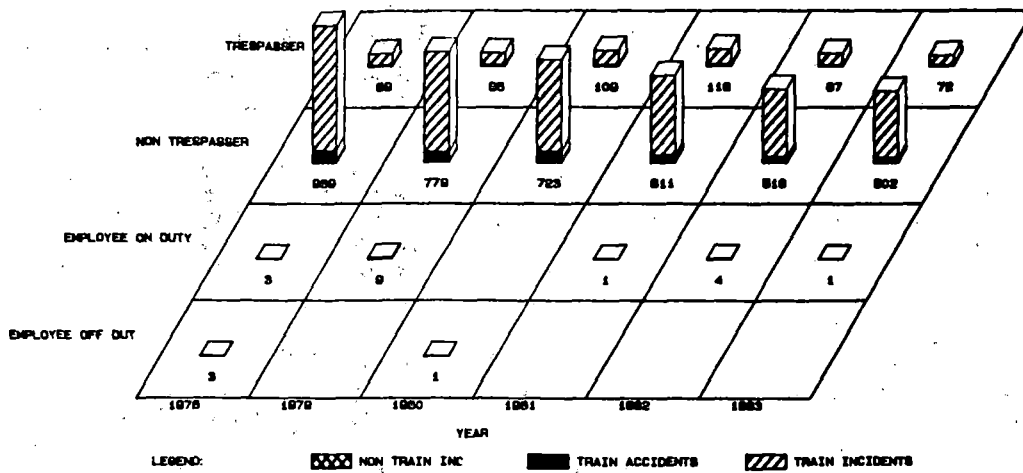


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON, 1978-1983

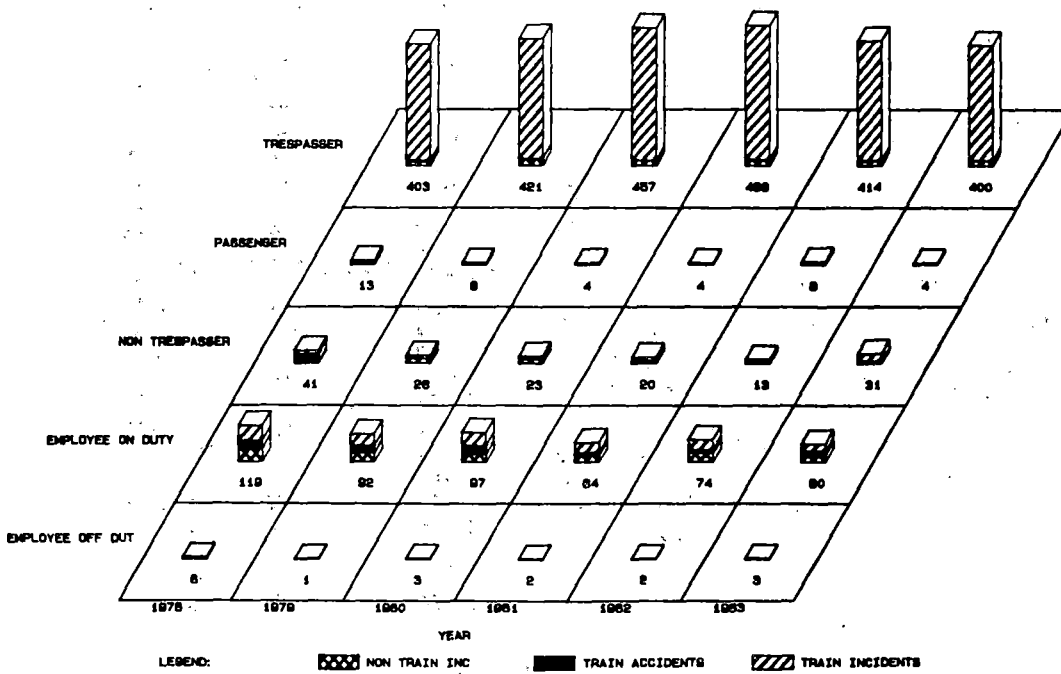


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS, 1978-1983

TABLE 17 TRAIN ACCIDENTS BY MONTH

Month	Accs		Total Damage	Damage Per MTM	.....Train Miles.....			
	Accs	Per MTM			Locomotive	Motor	Yard Switching	Total
January	294	6.70	13,480,210	\$307,395.39	31,845,062	2,523,964	9,483,547	43,852,573
February	277	6.42	10,685,933	\$247,692.11	31,376,693	2,370,003	9,395,300	43,141,996
March	351	7.57	16,238,901	\$349,998.94	33,847,326	2,068,885	10,480,664	46,396,875
April	309	6.97	15,394,679	\$347,055.30	32,595,825	1,717,834	10,043,949	44,357,608
May	316	6.91	13,221,936	\$289,275.95	33,518,552	1,977,418	10,210,967	45,706,937
June	356	7.83	16,158,303	\$355,541.69	33,345,247	1,988,663	10,112,633	45,446,543
July	354	7.66	21,471,623	\$464,723.57	33,782,472	2,523,163	9,897,479	46,203,114
August	356	7.37	17,404,892	\$360,230.40	35,253,882	2,598,387	10,463,940	48,316,209
September	321	6.72	14,985,889	\$313,853.75	35,024,619	2,450,734	10,272,707	47,748,060
October	313	6.12	13,105,004	\$256,097.16	37,643,194	2,540,964	10,987,985	51,172,143
November	316	6.45	35,306,136	\$720,665.76	35,808,002	2,481,238	10,701,876	48,991,116
December	343	7.32	20,896,950	\$445,972.85	34,128,948	2,545,247	10,182,936	46,857,131
Total...	3,906	7.00	208,350,456	\$373,260.82	408,169,822	27,786,500	122,233,983	558,190,305

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	215	229	276	252	241	271	289	266	237	230	227	271	3,004
Head on collision	4	---	6	1	2	2	2	3	3	5	3	5	36
Rear end collision	3	2	1	3	2	7	---	5	5	2	9	1	40
Side collision	19	15	21	16	18	21	20	40	29	30	28	28	285
Raking collision	2	3	2	3	5	5	5	2	3	5	3	3	41
Broken train collision	1	---	1	2	---	1	1	1	1	2	5	---	15
Rail-hwy crossing	12	9	13	6	12	11	11	11	11	15	14	5	130
RR grade crossing	---	---	1	---	---	---	---	---	---	---	---	---	1
Obstruction	4	5	5	5	5	6	3	3	8	4	6	3	57
Explosion-detonation	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire or violent rupture	7	6	7	7	1	4	3	3	5	5	1	9	58
Other	27	8	18	14	30	28	20	22	19	15	20	18	239
TOTAL.....	294	277	351	309	316	356	354	356	321	313	316	343	3,906

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The following table shows the results of the analysis of variance for the dependent variable of interest. The independent variables are the two treatment groups and the two time points. The table shows the mean values for each cell, the standard deviations, and the F-statistics for the main effects and interactions. The F-statistics are significant at the 0.05 level.

Group	Time	Mean	SD
Treatment 1	Time 1	1.2	0.5
Treatment 1	Time 2	1.5	0.6
Treatment 2	Time 1	1.8	0.7
Treatment 2	Time 2	2.1	0.8

The results of the analysis of variance are shown in the table above. The F-statistics are significant at the 0.05 level.

The following table shows the results of the analysis of variance for the dependent variable of interest. The independent variables are the two treatment groups and the two time points. The table shows the mean values for each cell, the standard deviations, and the F-statistics for the main effects and interactions. The F-statistics are significant at the 0.05 level.

Group	Time	Mean	SD
Treatment 1	Time 1	1.5	0.6
Treatment 1	Time 2	1.8	0.7
Treatment 2	Time 1	2.2	0.8
Treatment 2	Time 2	2.5	0.9

3. ACCIDENTS: DETAILS OF 1983 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.....	94	5,970,740	---	90	4	---
Track geometry defects.....	717	28,376,758	1	715	1	---
Rail and joint bar defects.....	369	33,673,171	1	367	1	---
Frogs, switches and track appliances.....	370	12,139,887	13	350	7	---
Other way and structure.....	19	1,235,804	---	8	11	---
Signal and communication failures.....	12	1,943,664	5	2	5	---
Subtotal.....	1,581	83,340,024	20	1,532	29	---
MECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
Brakes.....	4	1,074,088	2	2	---	---
Body.....	---	---	---	---	---	---
Coupler and draft system.....	3	548,997	---	3	---	---
Truck components.....	4	92,325	---	4	---	---
Axles and journal bearings.....	---	---	---	---	---	---
Wheels.....	2	13,650	---	2	---	---
Locomotives.....	29	1,143,785	---	7	22	---
Doors.....	---	---	---	---	---	---
General mechanical and electrical failures.....	6	337,281	---	2	4	---
Subtotal (Locomotives).....	48	3,210,126	2	20	26	---
CAR FAILURE						
Brakes.....	70	3,812,567	6	51	12	1
Trailer or container on flat car.....	10	520,588	1	3	6	---
Body.....	66	3,844,716	1	63	2	---
Coupler and draft system.....	78	4,029,355	10	65	3	---
Truck components.....	129	7,817,637	---	127	1	1
Axles and journal bearings.....	92	15,217,785	---	89	3	---
Wheels.....	127	10,902,277	---	125	2	---
Doors.....	10	725,418	---	9	1	---
General mechanical and electrical failures.....	8	213,265	---	7	1	---
Subtotal (cars).....	590	47,083,608	18	539	31	2
TOTAL EQUIPMENT FAILURES.....	638	50,293,734	20	559	57	2
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of.....	167	6,562,798	74	65	28	---
Employee physical condition.....	5	197,884	2	2	1	---
Flagging, fixed, hand and radio signals.....	43	6,633,170	23	13	7	---
Other rules and instructions.....	286	6,965,182	170	60	56	---
Speed.....	93	5,377,590	16	50	27	---
Switches, use of.....	173	10,847,507	35	123	15	---
Miscellaneous.....	334	11,775,484	20	289	25	---
Subtotal.....	1,101	48,359,615	340	602	159	---
MISCELLANEOUS FACTORS						
Collision with highway user at crossing site...	125	5,463,542	---	---	---	125
Emergency brake application to avoid accident..	10	339,991	---	7	---	3
Vandalism.....	81	2,296,110	11	46	24	---
Interference with rr operation, not vandals....	15	748,857	4	9	2	---
Load shifted.....	25	1,242,335	3	17	5	---
Load fell from car.....	3	98,356	---	1	2	---
Overloaded car.....	7	147,643	---	6	1	---
Improperly loaded car.....	14	294,992	1	12	1	---
Oversized load, misrouted.....	2	19,800	---	---	2	---
Object on or fouling track.....	32	1,217,355	1	14	17	---
Equipment on or fouling track.....	12	2,577,740	3	1	8	---
Trail/contain tiedown eqp impr applied.....	2	31,400	---	---	2	---
Overload/improper loaded container etc.....	4	85,600	---	3	1	---
Interaction of lateral/vertical forces.....	111	5,582,902	---	111	---	---
Failure to control car spd with hand brk.....	5	297,609	---	1	4	---
Snow, ice, or mud on track.....	16	516,706	---	16	---	---
Other acts of God.....	13	292,043	2	8	3	---
Fire, not due to vandalism.....	17	230,550	---	---	17	---
Hump retarder failed to slow car.....	12	194,294	2	5	5	---
Switch fouled by lading chains, etc.....	5	70,146	---	4	1	---
Other causes.....	75	4,609,112	11	50	14	---
Subtotal.....	586	26,357,083	38	311	109	128
GRAND TOTAL.....	3,906	208,350,456	418	3,004	354	130

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

Cause Of Accident	Total		Collisions	Derailments	Other
	Accidents	Damage			
BRAKES, USE OF					
500 Automatic brake, improper use.....	18	953,691	1	16	1
501 Dynamic brake, improper use.....	4	129,741	—	2	2
502 Failure to secure engine (R.R. emp.)....	14	491,207	10	2	2
503 Failure to secure hnd brk (R.R. emp.)....	35	566,973	19	8	8
504 Failure to apply sufficient hand brake...	38	820,935	22	10	6
505 Failure to apply hnd brk on car (emp.)...	17	494,341	7	5	5
506 Fail. to secure eng/car (Non R.R. emp)...	10	205,035	3	7	—
507 Independent (eng.) brake, improper use...	10	332,101	2	8	—
508 Fail. to control spd,hnd brk (R.R.emp)...	4	91,383	3	1	—
509 Other causes involving use of brakes.....	17	2,477,391	7	6	4
SUBTOTAL.....	167	6,562,798	74	65	28
EMPLOYEE PHYSICAL CONDITION					
513 Employee falling asleep.....	4	177,234	2	1	1
515 Employee physical condition, other.....	1	20,650	—	1	—
SUBTOTAL.....	5	197,884	2	2	1
FLAGGING, FIXED, HAND AND RADIO SIGNALS					
517 Absence of fixed signal (Blue signal)....	1	25,000	—	—	1
52A Block signal, failure to comply.....	4	3,373,785	3	1	—
52B Interlocking signal, failure to comply...	6	426,100	5	1	—
520 Fixed signal, failure to comply.....	6	1,982,067	4	1	1
522 Flagging signal, failure to comply.....	1	30,840	1	—	—
523 Hand signal, failure to comply.....	2	68,800	1	—	1
525 Hand signal, failure to give/receive....	3	34,455	1	1	1
526 Radio communication, failure to comply...	3	59,418	—	2	1
527 Radio communication, improper.....	5	127,825	5	—	—
528 Radio comm., failure to give/receive....	8	286,914	1	6	1
529 Flagging, fixed, hand & radio (other)...	4	217,966	2	1	1
SUBTOTAL.....	43	6,633,170	23	13	7
OTHER RULES AND INSTRUCTIONS					
530 Car(s) shoved out & left out of clear....	9	230,365	8	—	1
531 Cars left foul.....	30	302,200	21	3	6
532 Derail, failure to apply or remove.....	9	174,470	1	8	—
533 Failure to stop train in clear.....	42	804,371	36	2	4
535 Instruction to trn/yard crew improper....	14	532,974	7	3	4
536 Mtr car/on-trk eqp. rules, fail to comply...	26	506,620	12	2	12
537 Equip move without authority (RR emp)....	8	316,176	7	—	1
538 Shoving move, missing man at lead.....	83	2,289,761	48	23	12
539 Shoving movement, fail to control.....	31	866,580	15	8	8
540 Skate, failure to remove or place.....	1	96,100	—	1	—
541 Special op. instr., failure to comply....	9	427,181	6	2	1
542 Trn ord/timetable auth, fail to comply...	8	176,114	3	3	2
543 Trn ord(radio)err in prep/trans/deliv....	3	71,443	2	1	—
549 Rules and instructions, other.....	13	170,827	4	4	5
SUBTOTAL.....	286	6,965,182	170	60	56
SPEED					
550 Coupling speed excessive.....	44	1,449,361	3	20	21
553 Switch movement, excessive speed.....	16	252,855	5	8	3
554 Trn inside yrd limit, excess speed.....	7	136,667	1	5	1
555 Trn out yrd limit,clear blk,excess spd...	12	1,221,873	2	10	—
559 Other Causes involving excessive speed...	14	2,316,834	5	7	2
SUBTOTAL.....	93	5,377,590	16	50	27

TABLE 20 (CONTINUED)

Cause Of Accident	Total		Collisions	Derailments	Other
	Accidents	Damage			
SWITCHES, USE OF					
560 Spring switch not clear before reverse...	6	72,649	---	6	---
561 Switch improperly lined.....	99	9,793,413	34	53	12
562 Switch not latched or locked.....	9	182,189	---	9	---
563 Switch previously run through.....	50	641,461	1	47	2
569 Use of switches, other.....	9	157,795	---	8	1
SUBTOTAL.....	173	10,847,507	35	123	15
MISCELLANEOUS					
570 Buffing or slack action excessive.....	183	8,557,643	1	180	2
571 Failure to couple.....	7	111,865	3	3	1
572 Lateral drawbar force on curve excess....	59	1,426,465	---	59	---
573 Moving car, loading ramp not positioned...	1	4,850	---	---	1
574 Passed couplers.....	39	432,440	2	26	11
575 Retarder, improper manual operation.....	12	180,540	4	3	5
576 Retarder yard skate improperly applied...	2	16,450	2	---	---
599 Other train operation/human factors.....	31	1,045,231	8	18	5
SUBTOTAL.....	334	11,775,484	20	289	25
GRAND TOTAL.....	1,101	48,359,615	340	602	159

TABLE 21

TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Rwy Crossing
	Accidents	Damage				
BRAKES						
400 Air hose uncoupled or burst.....	16	1,418,051	1	13	2	---
402 Broken brake pipe or connections.....	2	149,268	---	2	---	---
404 Other brake component failure, etc.....	4	190,822	---	2	2	---
404L Other brake component failure - loco....	1	10,800	1	---	---	---
405 Brk valve malf. (undesired emergency)....	12	524,484	---	12	---	---
406 Brake valve malfunction/stuck brake/etc...	7	130,720	---	2	5	---
406L Brk valve malf./stuck brake/etc - loco...	1	21,500	1	---	---	---
407 Rigging down or dragging.....	16	756,468	---	16	---	---
408 Hand brake/gear broken or defective.....	4	114,410	2	---	2	---
409 Hand brk linkage/connections failure.....	5	68,541	3	---	1	1
410 Other brake failure(not on locomotive)...	4	459,803	---	4	---	---
410L Other brake failure - locomotive.....	2	1,041,788	---	2	---	---
SUBTOTAL.....	74	4,886,655	8	53	12	1
TRAILER OR CONTAINER ON FLAT CAR						
411 Broken or defective tiedown equipment....	4	123,250	---	1	3	---
412 Broken or defective container.....	1	25,000	---	---	1	---
419 Oth trailer/container on flat car fail...	5	372,338	1	2	2	---
SUBTOTAL.....	10	520,588	1	3	6	---
BODY						
420 Body bolster broken or defective.....	5	96,550	---	5	---	---
421 Center sill broken or bent.....	10	747,048	---	9	1	---
422 Draft sill broken or bent.....	9	223,276	---	9	---	---
423 Center plate broken or defective.....	14	1,814,783	---	14	---	---
424 Center plate disengaged from truck.....	16	550,485	---	16	---	---
425 Center pin broken or missing.....	5	88,700	---	5	---	---
426 Center plate attachment defective.....	1	15,975	---	1	---	---
427 Side sill broken.....	1	8,599	1	---	---	---
429 Other causes due to body (not loco).....	5	299,300	---	4	1	---
SUBTOTAL.....	66	3,844,716	1	63	2	---
COUPLER AND DRAFT SYSTEM						
430 Knuckle broken or defective.....	20	957,293	5	14	1	---
431 Coupler mismatch, high/low.....	11	152,320	2	8	1	---
432 Coupler drawhead broken or defective....	14	647,907	1	12	1	---
433 Coupler retainer pin/cross key missing...	5	327,141	---	5	---	---
433L Coup. retain pin/cross key miss.-loco....	1	1,797	---	1	---	---
434 Draft gear/mechanism broken/defective....	7	556,567	---	7	---	---
435 Coupler carrier broken or defective.....	6	617,843	1	5	---	---
436 Coupler shank broken or defective.....	4	224,390	---	4	---	---
439 Other coupler and draft system causes....	11	545,894	1	10	---	---
439L Other coupler/draft system causes-loco...	2	547,200	---	2	---	---
SUBTOTAL.....	81	4,578,352	10	68	3	---
TRUCK COMPONENTS						
440 Side bearing clearance improper.....	44	2,163,159	---	44	---	---
441 Side bearing(s) broken.....	3	161,700	---	3	---	---
442 Side bearing(s) missing.....	3	98,360	---	3	---	---
443 Truck bolster broken.....	5	79,356	---	5	---	---
444 Side frame broken.....	1	280,537	---	1	---	---
445 Truck (stiff/improper lateral).....	63	4,639,784	---	62	---	1
445L Truck (stiff/improper lateral) - loco....	3	41,075	---	3	---	---
446 Defective snubbing.....	1	100,400	---	1	---	---
447 Broken/missing/defective springs.....	2	25,700	---	2	---	---
449 Other truck component causes.....	7	268,641	---	6	1	---
449L Other truck component causes - loco.....	1	51,250	---	1	---	---
SUBTOTAL.....	133	7,909,962	---	131	1	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.....	3	220,702	---	3	---	---
451 Journal (plain) failure - overheating....	35	2,847,143	---	32	3	---
452 Journal (R. B.) failure - overheat.....	48	11,676,420	---	48	---	---
453 Journal fractured, new cold break.....	3	50,000	---	3	---	---
459 Axles and journal bearings (other).....	3	423,520	---	3	---	---
SUBTOTAL.....	92	15,217,785	---	89	3	---
WHEELS						
460 Broken flange.....	6	114,582	---	6	---	---
461 Broken rim.....	23	3,472,058	---	23	---	---
462 Broken plate.....	19	3,202,355	---	18	1	---
463 Broken hub.....	3	181,650	---	3	---	---
464 Worn flange.....	52	1,078,069	---	51	1	---
464L Worn flange - locomotive.....	1	4,550	---	1	---	---
466 Damaged flange or tread, flat.....	3	82,775	---	3	---	---
467 Loose wheel.....	9	1,095,845	---	9	---	---
468 Thermal crack, flange or tread.....	3	1,421,477	---	3	---	---
469 Other causes involving wheels-not loco...	9	253,466	---	9	---	---
469L Other causes involving wheels- loco.....	1	9,100	---	1	---	---
SUBTOTAL.....	129	10,915,927	---	127	2	---
LOCOMOTIVES						
471L Traction motor failure - locomotive.....	1	45,000	---	1	---	---
473L Oil fire - locomotive.....	6	347,000	---	---	6	---
474L Electrically caused fire - locomotive....	12	487,050	---	---	12	---
476L Remote control eqp. inoperative-loco....	1	117,517	---	1	---	---
479L Other causes involving locomotives.....	9	147,218	---	5	4	---
SUBTOTAL.....	29	1,143,785	---	7	22	---
DOORS						
480 Box car plug door open.....	1	6,300	---	---	1	---
484 Box car door(not plug) attach defect....	1	28,000	---	1	---	---
485 Bottom outlet car door open.....	4	230,568	---	4	---	---
486 Bottom outlet car door attach defect....	3	448,050	---	3	---	---
489 Other causes involving doors.....	1	12,500	---	1	---	---
SUBTOTAL.....	10	725,418	---	9	1	---
GENERAL MECHANICAL AND ELECTRICAL FAILURES						
499 General mech/elect failures-not loco....	8	213,265	---	7	1	---
499L General mech/elect failures - loco.....	6	337,281	---	2	4	---
SUBTOTAL.....	14	550,546	---	9	5	---
GRAND TOTAL.....	638	50,293,734	20	559	57	2

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

Cause Of Accident	Total		Collisions	Derailments	Other	Rail Dry Crossing
	Accidents	Damage				
ROADBED DEFECTS						
101 Roadbed settled or soft.....	37	2,122,015	---	26	1	---
102 Washout/rain/slide/ice, etc. dmg to trk...	21	2,634,646	---	18	3	---
109 Other roadbed defects.....	16	1,214,079	---	16	---	---
SUBTOTAL.....	94	5,970,740	---	60	4	---
TRACK GEOMETRY DEFECTS						
110 Wide gage (defect/missing cross-ties).....	258	4,330,647	---	258	---	---
111 Wide gage (def/missing rail fasteners)...	44	745,902	---	43	1	---
112 Wide gage (involving gage rods).....	4	41,188	---	4	---	---
113 Wide gage due to worn rail.....	24	864,315	---	24	---	---
114 Track alignment irregular.....	28	728,702	---	28	---	---
115 Track alignment irregular (buckled).....	99	9,664,472	---	99	---	---
116 Track profile improper.....	3	202,856	---	3	---	---
117 Superelevation incorrect.....	16	1,121,954	---	16	---	---
118 Superelevation runoff improper.....	1	81,800	---	1	---	---
119 Cross level irregular at joints.....	139	6,130,317	1	138	---	---
120 Cross level irregular not at joints.....	46	3,220,995	---	46	---	---
129 Other track geometry defects.....	35	1,243,410	---	33	---	---
SUBTOTAL.....	717	28,376,758	1	713	1	---
RAIL AND JOINT BAR DEFECTS						
130 Bolt hole crack or break.....	19	2,156,991	---	18	1	---
131 Broken base of rail.....	66	3,103,585	1	63	---	---
132 Broken weld, field.....	3	626,988	---	3	---	---
133 Broken weld, plant.....	2	258,600	---	2	---	---
134 Detail fracture fm shelling/head check...	10	5,250,115	---	10	---	---
135 Engine burn fracture.....	3	135,950	---	3	---	---
136 Head/web sep.(outside joint bar limit)...	31	1,624,955	---	31	---	---
137 Head/web sep.(within joint bar limits)...	9	703,588	---	9	---	---
138 Horizontal split head.....	7	474,225	---	7	---	---
139 Piped rail.....	3	32,550	---	3	---	---
140 Rail defect with joint bar repair.....	2	29,000	---	2	---	---
141 Transverse/compound fissure.....	57	4,858,963	---	57	---	---
142 Vertical split head.....	54	2,473,646	---	54	---	---
143 Worn rail.....	22	1,454,604	---	22	---	---
144 Mismatched rail-head contour.....	5	197,488	---	5	---	---
145 Joint bar broken, compromise.....	3	46,734	---	3	---	---
146 Joint bar broken, insulated.....	4	325,470	---	4	---	---
147 Joint bar broken, noninsulated.....	13	1,221,207	---	13	---	---
148 Joint bolts, broken or missing.....	5	192,553	---	5	---	---
149 Other rail and joint bar defects.....	31	8,505,957	---	31	---	---
SUBTOTAL.....	349	33,673,171	1	347	1	---
FROGS, SWITCHES AND TRACK APPLIANCES						
160 Guard rail loose/broken/etc.....	6	220,331	---	6	---	---
161 Switch damaged/out of adjustment.....	77	2,204,959	1	76	---	---
162 Switch stand failure (hand oper.).....	12	525,150	---	12	---	---
163 Switch connecting/oper. rod fail.....	8	392,572	---	8	---	---
164 Stock rail worn/broken/disconnect.....	7	145,000	---	7	---	---
165 Switch point worn or broken.....	180	3,725,843	2	177	1	---
166 Switch rod worn/bent/broken/etc.....	5	1,656,200	---	5	---	---
167 Frog, rigid, worn or broken.....	5	182,471	---	5	---	---
168 Frog, spring, worn or broken.....	5	1,237,004	---	5	---	---
169 Frog, self guarded, worn/broken.....	4	39,200	---	4	---	---
171 Derail, defective.....	2	25,675	---	2	---	---
173 Retarder worn/broken/malfunction.....	10	135,304	3	9	4	---
174 Spring/power switch mech. malfunction....	8	198,475	---	8	---	---
175 Retarder yard skate defective.....	9	95,775	7	---	2	---
176 Switch out of adjust.(insuf rail anch)...	8	367,755	---	8	---	---
179 Other frog/switches/track appl. causes...	24	988,173	---	24	---	---
SUBTOTAL.....	370	12,139,887	13	350	7	---
OTHER WAY AND STRUCTURES						
180 Bridge misalignment or failure.....	2	394,000	---	1	1	---
181 Flangeway clogged.....	3	74,100	---	3	---	---
189 Other way and structure causes.....	14	765,704	---	4	10	---
SUBTOTAL.....	19	1,233,804	---	8	11	---
SIGNAL AND COMMUNICATION FAILURES						
200 Fix sig. improperly displayed (defect)...	4	62,750	1	1	2	---
201 Radio communication equipment failure....	5	96,350	3	---	2	---
209 Signal & communication failure N.O.C....	3	1,784,544	1	1	1	---
SUBTOTAL.....	12	1,943,644	5	2	5	---
GRAND TOTAL.....	1,581	83,340,024	30	1,532	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....	125	5,463,542	---	---	---	125
701 Emergency brk appl to avoid accident....	10	339,991	---	7	---	3
702 Vandalism.....	81	2,296,110	11	46	24	---
703 Interference with RR oper.-not vandals...	15	748,857	4	9	2	---
704 Load shifted.....	25	1,242,335	3	17	5	---
705 Load fell from car.....	3	98,356	---	1	2	---
706 Overloaded car.....	7	147,643	---	6	1	---
707 Improperly loaded car.....	14	294,992	1	12	1	---
708 Oversized load, misrouted.....	2	19,800	---	---	2	---
709 Object on or fouling track.....	32	1,217,355	1	14	17	---
710 Equipment on or fouling track.....	12	2,577,740	3	1	8	---
711 Trail/contain tiedown eqp-impr applied...	2	31,400	---	---	2	---
712 Overload/improper loaded container etc...	4	85,600	---	3	1	---
713 Interaction of lateral/vertical forces...	111	5,582,902	---	111	---	---
714 Failure to control spd with hand brake...	5	297,609	---	1	4	---
715 Snow, ice, or mud on track.....	16	516,706	---	16	---	---
716 Other acts of God.....	13	292,043	2	8	3	---
717 Fire, other than vandalism, involving....	17	230,550	---	---	17	---
718 Hump retarder failed to sufficiently s...	12	194,294	2	5	5	---
719 Objects such as lading chains or strap...	5	70,146	---	4	1	---
799 Other miscellaneous causes.....	75	4,609,112	11	50	14	---
SUBTOTAL.....	586	26,357,083	38	311	109	128
GRAND TOTAL.....	586	26,357,083	38	311	109	128

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....	182	18,002,114	2,116	111,338,267	115	4,323,709	94	2,906,639	2,507	136,570,729
Passenger train..	6	1,086,600	22	5,141,496	46	1,615,898	27	1,911,712	101	9,755,706
Mixed train.....	---	---	1	15,650	---	---	---	---	1	15,650
Work train.....	6	65,050	16	1,467,503	7	101,400	1	6,000	30	1,639,953
Single car.....	66	584,960	30	226,800	59	608,708	3	20,730	158	1,441,198
Cut of cars.....	190	2,230,077	128	3,014,851	78	1,231,738	---	---	396	6,476,666
Yard/switching...	258	2,954,122	665	8,303,375	90	1,147,960	3	27,789	1,016	12,433,246
Light loco(s)....	58	859,695	31	399,970	22	526,795	4	20,898	115	1,807,358
Unknown.....	---	---	---	---	---	---	---	---	---	---
Total.....	766	25,782,618	3,009	129,907,912	417	9,556,208	132	4,893,768	4,324	170,140,506

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

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4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

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

TABLE 25 TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat	People Evacuated	Damage To Equipment
Derailement.....	349	25,134	2,085	481	51	3,200	22,314,196
Head on collision.....	5	198	11	1	---	---	423,911
Rear end collision.....	4	210	9	4	3	---	6,259,488
Side collision.....	30	1,340	206	33	2	---	1,999,848
Raking collision.....	8	184	37	5	1	---	113,250
Broken train collision..	2	106	4	1	1	300	58,450
Rail-hwy crossing.....	11	722	30	6	2	---	259,658
RR grade crossing.....	---	---	---	---	---	---	---
Obstruction.....	2	56	5	---	---	---	23,000
Explosion-detonation....	---	---	---	---	---	---	---
Fire or violent rupture.	1	58	3	---	---	---	25,000
Other.....	19	864	66	12	2	---	743,875
TOTAL.....	431	28,872	2,456	543	62	3,500	32,220,676

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
1978	1,001	507	138	62
1979	926	480	105	44
1980	819	456	119	34
1981	586	353	77	27
1982	494	286	59	13
1983	422	240	52	16

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.

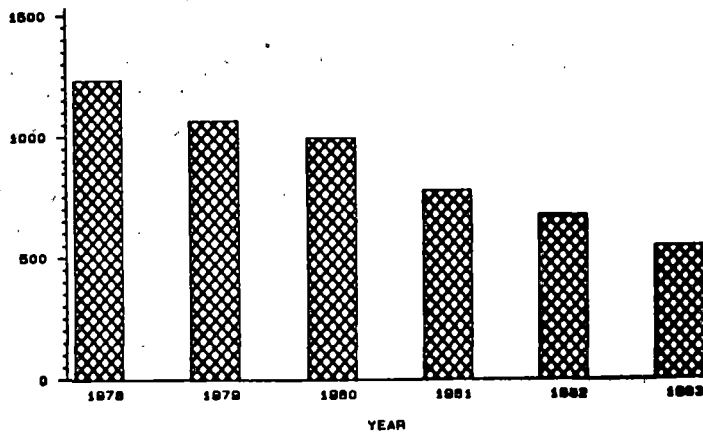


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED, 1977-1982

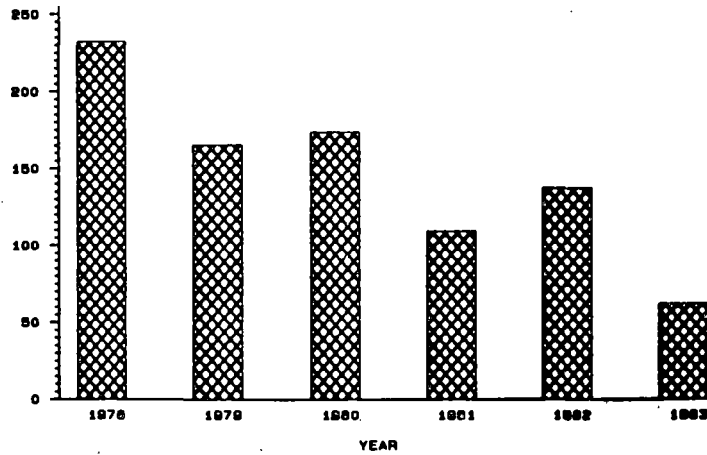


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIAL BY YEAR, 1977-1982

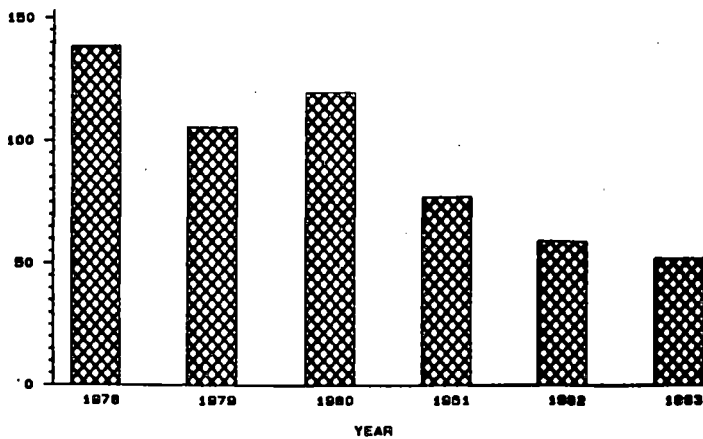


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS, 1978-1983

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.....	11	725	56	8	—	—	1,367,300
Track geometry defects.....	91	5,943	586	149	23	1,295	3,555,619
Rail and joint bar defects.....	36	2,468	228	78	6	500	2,267,271
Frogs, switches and track appliances.....	33	1,907	208	41	2	55	2,385,023
Other way and structure.....	—	—	—	—	—	—	—
Signal and communication failures.....	2	101	3	1	—	—	44,400
Subtotal.....	173	11,144	1,081	277	31	1,850	9,619,613
MECHANICAL AND ELECTRICAL FAILURES							
Brakes.....	11	1,260	61	13	—	—	1,045,200
Trailer or container on flat car.....	1	58	3	—	—	—	25,000
Body.....	12	788	122	19	1	600	514,542
Coupler and draft system.....	12	1,094	59	15	2	300	1,008,297
Truck components.....	21	1,327	56	16	3	200	1,052,315
Axles and journal bearings.....	10	718	72	8	2	—	1,997,459
Wheels.....	14	1,041	117	17	1	400	790,418
Locomotives.....	1	79	1	1	—	—	72,750
Doors.....	4	401	28	5	2	125	264,900
General mechanical and electrical failures...	3	319	11	—	—	—	181,070
Subtotal.....	89	7,085	530	94	11	1,625	6,951,951
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of.....	17	878	142	23	—	—	1,994,489
Employee physical condition.....	—	—	—	—	—	—	—
Flagging, fixed, hand and radio signals.....	3	189	6	6	1	—	1,609,780
Other rules and instructions.....	30	1,213	127	17	1	—	516,241
Speed.....	9	337	42	4	1	—	971,150
Switches, use of.....	16	910	39	23	1	—	5,675,358
Miscellaneous.....	34	3,358	206	22	4	—	1,617,487
Subtotal.....	109	6,885	562	95	8	—	12,384,505
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site.	11	722	30	6	2	—	259,658
Emergency brake application to avoid accident	—	—	—	—	—	—	—
Vandalism.....	4	104	7	2	—	—	123,700
Interference with rr operation, not vandals..	3	47	20	2	—	—	170,300
Load shifted.....	4	184	13	5	1	—	155,804
Load fell from car.....	—	—	—	—	—	—	—
Overloaded car.....	—	—	—	—	—	—	—
Improperly loaded car.....	3	201	13	1	—	—	35,000
Oversized load, misrouted.....	1	123	5	—	—	—	4,800
Object on or fouling track.....	3	191	13	7	—	—	40,450
Equipment on or fouling track.....	1	59	1	—	—	—	—
Trail/container tiedown eqp impr applied.....	—	—	—	—	—	—	—
Overload/improper loaded container etc.....	—	—	—	—	—	—	—
Interaction of lateral/vertical forces.....	19	1,395	132	17	1	—	1,069,495
Failure to control car spd with hand brk....	—	—	—	—	—	—	—
Snow, ice, or mud on track.....	—	—	—	—	—	—	—
Other acts of God.....	—	—	—	—	—	—	—
Fire, not due to vandalism.....	—	—	—	—	—	—	—
Hump retarder failed to slow car.....	—	—	—	—	—	—	—
Switch fouled by lading chains, etc.....	1	102	5	3	1	—	34,800
Other causes.....	10	630	44	34	7	25	1,370,600
Subtotal.....	60	3,758	283	77	12	25	3,264,607
GRAND TOTAL.....	431	28,872	2,456	543	62	3,500	32,220,676

TABLE 28

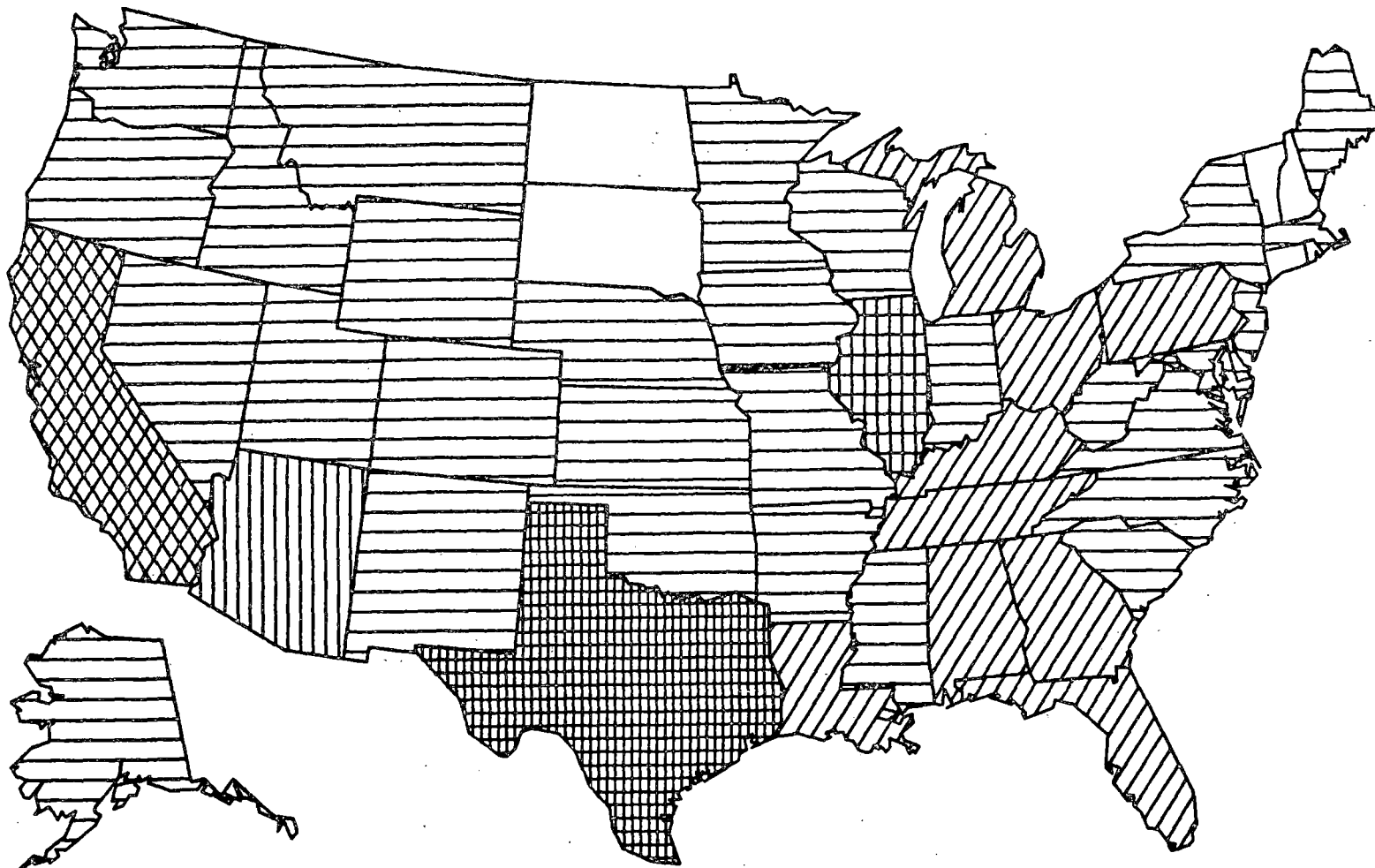
TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	.....Cars.....					People Evacuated	Damage To Equipment
	Consists Carrying	In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Alabama.....	7	507	20	4	2	---	138,850
Alaska.....	---	---	---	---	---	---	---
Arizona.....	14	668	72	24	---	---	248,075
Arkansas.....	16	1,280	65	24	4	10	1,876,704
California.....	29	1,662	91	35	1	555	3,362,297
Colorado.....	3	215	5	4	---	---	320,000
Connecticut.....	---	---	---	---	---	---	---
Delaware.....	2	86	5	5	1	---	21,000
Dist of Columbia.....	---	---	---	---	---	---	---
Florida.....	5	462	34	8	1	200	38,850
Georgia.....	9	1,018	24	3	1	---	666,300
Idaho.....	5	450	52	7	2	---	95,450
Illinois.....	23	1,540	117	27	7	---	833,730
Indiana.....	11	692	36	8	3	---	223,743
Iowa.....	5	387	69	8	3	25	278,758
Kansas.....	8	450	27	8	1	---	395,895
Kentucky.....	10	848	86	24	3	25	507,770
Louisiana.....	37	2,542	293	52	2	---	7,647,054
Maine.....	5	268	54	6	1	---	145,069
Maryland.....	3	95	6	5	---	---	17,700
Massachusetts.....	5	218	25	5	1	250	129,700
Michigan.....	11	642	94	14	1	10	107,000
Minnesota.....	3	173	41	4	---	---	29,150
Mississippi.....	2	251	6	6	---	---	104,880
Missouri.....	21	1,496	52	11	3	---	1,527,370
Montana.....	---	---	---	---	---	---	---
Nebraska.....	4	312	16	8	1	---	152,900
Nevada.....	2	35	23	3	---	---	48,400
New Hampshire.....	5	232	22	3	---	---	162,500
New Jersey.....	2	155	3	3	---	---	27,500
New Mexico.....	4	332	6	5	---	---	2,079,125
New York.....	12	720	46	7	1	800	474,050
North Carolina.....	8	395	30	12	1	200	673,734
North Dakota.....	7	493	11	1	---	---	643,390
Ohio.....	13	1,074	101	19	1	---	1,792,655
Oklahoma.....	9	525	32	22	---	---	475,035
Oregon.....	5	424	9	6	1	---	489,810
Pennsylvania.....	32	2,087	443	68	5	225	1,139,417
Rhode Island.....	---	---	---	---	---	---	---
South Carolina.....	4	419	16	4	1	---	168,066
South Dakota.....	---	---	---	---	---	---	---
Tennessee.....	13	1,208	53	11	2	500	1,029,107
Texas.....	43	2,411	274	46	8	700	2,596,099
Utah.....	1	55	1	---	---	---	400,000
Vermont.....	1	55	11	1	---	---	138,670
Virginia.....	14	848	31	6	---	---	196,282
Washington.....	3	116	16	4	1	---	29,600
West Virginia.....	4	236	13	5	1	---	131,350
Wisconsin.....	8	693	21	13	---	---	571,637
Wyoming.....	3	97	4	4	2	---	86,004
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	431	28,872	2,456	543	62	3,500	32,220,676

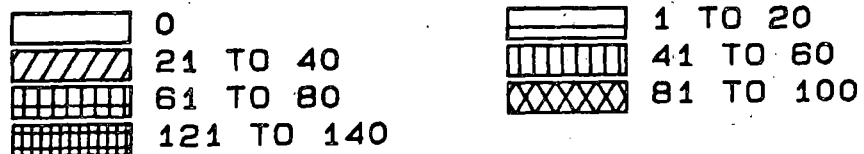
TABLE 29

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.....	1	98	26	2	---	---	17,000
Amtrak (National RR Passenger Corp).....	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.....	21	1,208	53	15	1	---	3,347,994
Baltimore And Ohio Railroad Co.....	12	822	30	19	5	100	700,940
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Boston And Maine Corporation.....	13	577	65	11	1	250	460,870
Burlington Northern Incorporated.....	25	1,457	76	24	8	---	1,251,470
Central Of Georgia Railroad Company.....	1	18	2	1	---	---	4,650
Chesapeake And Ohio Railway Company.....	2	152	2	2	---	---	21,200
Chicago And North Western.....	1	157	1	1	---	---	34,000
Chicago, Milw, St. Paul And Pacific.....	7	618	35	14	---	---	196,422
Cincinnati, New Orleans And TX Pac Co.....	1	9	2	---	---	---	4,000
Consolidated Rail Corporation.....	37	2,631	158	63	12	950	2,836,373
Delaware And Hudson Railway.....	7	456	24	3	---	---	348,285
Denver And Rio Grande Western RR Co.....	3	215	5	4	---	---	320,000
Detroit, Toledo And Ironton RR Co.....	2	170	3	3	1	10	12,600
Duluth, Missabe And Iron Range Rwy Co.....	1	18	3	---	---	---	26,000
Elgin, Joliet And Eastern Railway Co.....	---	---	---	---	---	---	---
Florida East Coast Railway Co.....	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.....	3	222	41	3	---	---	22,800
Illinois Central Gulf Railroad Co.....	18	1,355	204	56	4	25	893,150
Kansas City Southern Railway Co.....	25	2,017	113	15	1	---	2,250,956
Louisiana And Arkansas Rwy Company.....	8	638	32	6	2	---	5,641,748
Missouri Pacific Railroad Co.....	30	1,604	187	42	6	400	739,000
Missouri-Kansas-Texas Railroad Co.....	1	112	4	---	---	---	12,950
Norfolk And Western Railway Co.....	27	2,037	140	15	2	---	826,945
Pittsburg And Lake Erie Railroad Co.....	1	80	6	6	---	---	2,450
Seaboard System Railroad.....	40	3,658	144	41	6	900	2,726,750
Sootline Railroad Company.....	13	1,017	66	7	---	---	1,056,290
Southern Pacific Transportation Co.....	61	3,749	295	83	4	855	6,829,222
Southern Railway Company.....	7	573	20	4	1	---	116,950
St. Louis Southwestern Railway Co.....	5	410	9	6	1	---	421,000
Union Pacific Railroad Co.....	9	613	58	10	3	---	143,164
Western Maryland Railway Company.....	---	---	---	---	---	---	---
Western Pacific Railroad Company.....	3	199	11	2	---	---	49,000
Total Class I Railroads.....	385	26,890	1,815	458	58	3,490	31,314,179
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.....	1	128	49	1	---	---	1,209
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company.....	---	---	---	---	---	---	---
Central Vermont Railway Inc.....	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.....	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.....	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	---	---	---	---	---	---	---
Green Bay And Western Railroad.....	---	---	---	---	---	---	---
Maine Central Railroad Company.....	4	140	5	5	1	---	143,860
Michigan Interstate Railroad.....	---	---	---	---	---	---	---
Monogahela Railway.....	---	---	---	---	---	---	---
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---
Providence And Worcester Railroad Co.....	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac.....	6	342	11	3	---	---	142,362
Spokane International Railroad.....	1	82	20	2	---	---	37,000
Texas And Northern Railway Company.....	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	---	---	---	---
Toledo, Peoria And Western Railroad.....	---	---	---	---	---	---	---
Total Class II Railroads.....	12	692	85	11	1	---	324,431
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	385	26,890	1,815	458	58	3,490	31,314,179
Class II Railroads.....	12	692	85	11	1	---	324,431
Class III Railroads.....	34	1,290	556	74	3	10	582,066
Total All Railroads.....	431	28,872	2,456	543	62	3,500	32,220,676



FREQUENCY



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, 1982 - 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.....	12	298,124	27	883,687	1	15,000	4	187,180	44	1,383,991
Alaska.....	2	36,700	7	423,165	2	114,750	---	---	11	574,615
Arizona.....	3	82,575	44	3,421,165	10	357,935	1	4,700	58	3,866,375
Arkansas.....	2	20,275	59	5,446,412	2	18,225	4	135,775	67	5,620,687
California.....	24	1,410,464	231	11,549,409	29	856,155	4	32,608	288	13,848,636
Colorado.....	6	809,583	32	3,307,095	4	128,000	3	31,900	45	4,276,578
Connecticut.....	2	30,184	7	1,158,852	8	225,424	1	5,100	18	1,419,560
Delaware.....	1	5,500	5	57,800	---	---	---	---	6	63,300
Dist of Columbia.....	---	---	4	39,898	---	---	---	---	4	39,898
Florida.....	1	15,900	28	1,413,445	2	17,100	9	1,147,488	40	2,593,933
Georgia.....	7	254,950	42	2,739,453	8	225,230	5	88,800	62	3,308,433
Idaho.....	7	404,998	17	1,336,841	---	---	1	8,000	25	1,749,839
Illinois.....	44	776,149	229	10,094,753	28	1,163,023	14	1,142,791	315	13,176,716
Indiana.....	11	912,544	78	3,605,050	15	171,044	6	377,414	110	5,066,052
Iowa.....	7	1,284,842	143	8,028,582	9	369,561	3	32,882	162	9,715,867
Kansas.....	8	103,113	107	4,881,164	8	224,847	3	347,700	126	5,556,824
Kentucky.....	6	162,064	59	3,175,909	3	75,300	1	5,800	69	3,419,073
Louisiana.....	12	5,794,437	74	3,589,484	5	121,655	2	18,675	93	9,524,251
Maine.....	2	38,538	16	581,071	---	---	---	---	18	619,609
Maryland.....	7	83,450	21	368,874	2	34,000	---	---	30	486,324
Massachusetts.....	5	69,500	18	481,368	10	264,340	2	15,000	35	830,208
Michigan.....	11	131,568	52	1,955,489	8	93,335	2	12,630	73	2,193,022
Minnesota.....	10	161,932	177	4,787,882	16	172,014	3	44,700	206	5,166,528
Mississippi.....	7	109,756	20	652,465	3	236,500	1	8,475	31	1,007,196
Missouri.....	30	626,140	139	10,316,808	13	232,633	1	102,000	183	11,277,581
Montana.....	4	132,450	37	2,354,400	4	115,800	---	---	45	2,602,650
Nebraska.....	9	149,427	106	7,778,332	10	1,530,170	5	35,647	130	9,493,576
Nevada.....	2	884,900	8	945,286	2	38,972	---	---	12	1,869,158
New Hampshire.....	---	---	7	547,916	---	---	---	---	7	547,916
New Jersey.....	4	56,000	21	528,582	8	95,300	1	15,000	34	694,882
New Mexico.....	1	8,100	24	4,048,473	3	46,756	---	---	28	4,103,329
New York.....	10	494,241	87	2,330,718	19	343,690	5	474,078	121	3,642,727
North Carolina...	4	168,015	34	1,522,386	5	59,899	5	354,398	48	2,104,698
North Dakota.....	6	142,765	32	1,897,465	5	615,100	1	10,433	44	2,665,763
Ohio.....	18	2,741,870	83	2,084,325	22	314,055	8	183,670	131	5,323,920
Oklahoma.....	9	257,145	40	2,380,370	5	67,842	2	11,600	56	2,716,957
Oregon.....	2	200,500	44	2,479,407	2	23,250	---	---	48	2,703,157
Pennsylvania.....	13	989,080	114	4,602,788	14	232,649	4	77,186	145	5,901,703
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina...	2	227,000	18	2,070,204	2	22,474	2	106,139	24	2,425,817
South Dakota.....	---	---	19	469,154	1	51,000	1	5,200	21	525,354
Tennessee.....	7	102,071	61	3,169,323	3	74,750	---	---	71	3,346,144
Texas.....	62	5,860,682	328	23,418,408	27	571,477	15	422,410	432	30,272,977
Utah.....	3	616,470	13	1,217,934	1	5,000	---	---	17	1,839,404
Vermont.....	---	---	7	349,137	---	---	---	---	7	349,137
Virginia.....	12	163,520	53	2,099,019	17	638,577	4	51,577	86	2,952,693
Washington.....	1	5,378	37	2,044,283	5	473,378	---	---	43	2,523,039
West Virginia....	4	190,300	51	3,551,077	3	31,547	2	11,700	60	3,784,624
Wisconsin.....	11	178,149	92	3,456,458	6	69,428	3	42,258	112	3,746,293
Wyoming.....	7	284,894	52	5,018,398	4	70,450	2	55,700	65	5,429,442
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	418	27,476,243	3,004	164,659,964	354	10,607,635	130	5,606,614	3,906	208,350,456

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.....	15	460,268	7	316,265	18	420,278	4	187,180	44	1,383,991
Alaska.....	5	249,678	1	100,000	1	30,100	4	194,837	11	574,615
Arizona.....	17	404,344	14	2,679,968	15	529,428	12	252,635	58	3,866,375
Arkansas.....	35	3,306,931	8	818,587	13	749,496	11	745,673	67	5,620,687
California.....	107	5,265,134	54	3,470,594	88	3,112,194	39	2,000,714	288	13,848,636
Colorado.....	15	2,342,952	12	861,980	15	1,052,146	3	19,500	45	4,276,578
Connecticut.....	6	529,566	3	697,950	5	99,169	4	92,875	18	1,419,560
Delaware.....	3	29,300	---	---	3	34,000	---	---	6	63,300
Dist of Columbia.	2	16,773	---	---	1	18,500	1	4,625	4	39,898
Florida.....	15	1,030,271	4	138,290	10	142,584	11	1,282,788	40	2,593,933
Georgia.....	17	527,516	17	1,502,890	18	694,345	10	583,682	62	3,308,433
Idaho.....	4	616,473	6	337,523	10	460,799	5	335,044	25	1,749,839
Illinois.....	136	5,015,001	38	3,247,252	96	2,055,571	45	2,858,892	315	13,176,716
Indiana.....	44	1,693,792	11	691,983	35	2,014,340	20	665,937	110	5,066,052
Iowa.....	93	4,278,422	23	2,307,435	24	2,194,649	22	935,361	162	9,715,867
Kansas.....	57	2,410,766	27	1,669,790	31	779,328	11	696,940	126	5,556,824
Kentucky.....	27	1,654,729	17	566,857	16	479,530	9	717,957	69	3,419,073
Louisiana.....	41	2,658,163	15	323,365	29	6,404,098	8	138,625	93	9,524,251
Maine.....	7	202,884	3	271,630	4	54,532	4	90,563	18	619,609
Maryland.....	10	276,597	4	60,250	13	124,525	3	24,952	30	486,324
Massachusetts....	10	428,490	1	45,000	11	119,454	13	237,264	35	830,208
Michigan.....	19	597,012	10	342,550	28	330,304	16	923,156	73	2,193,022
Minnesota.....	117	2,842,670	21	1,214,908	50	871,643	18	237,307	206	5,166,528
Mississippi.....	17	617,045	2	17,200	8	310,256	4	62,695	31	1,007,196
Missouri.....	73	5,380,523	13	2,269,139	73	2,273,715	24	1,354,204	183	11,277,581
Montana.....	13	704,400	10	1,166,610	15	494,090	7	237,550	45	2,602,650
Nebraska.....	60	5,166,730	21	3,097,038	27	728,584	22	501,224	130	9,493,576
Nevada.....	1	7,430	5	697,202	4	411,426	2	753,100	12	1,869,158
New Hampshire....	5	526,913	---	---	---	---	2	21,003	7	547,916
New Jersey.....	10	323,802	1	21,500	13	168,130	10	181,450	34	694,882
New Mexico.....	7	947,992	9	996,550	8	2,089,391	4	69,396	28	4,103,329
New York.....	49	1,126,644	23	758,647	30	839,076	19	918,360	121	3,642,727
North Carolina...	19	577,487	7	824,069	11	155,044	11	548,098	48	2,104,698
North Dakota.....	24	1,633,495	6	662,802	8	184,865	6	184,601	44	2,665,763
Ohio.....	34	795,964	22	546,729	49	3,332,087	26	649,140	131	5,323,920
Oklahoma.....	28	1,302,955	6	517,137	13	308,287	9	588,578	56	2,716,957
Oregon.....	11	417,256	14	940,976	13	841,075	10	503,850	48	2,703,157
Pennsylvania.....	51	1,257,601	33	1,757,555	39	2,367,272	22	519,275	145	5,901,703
Rhode Island.....	---	---	---	---	---	---	---	---	---	---
South Carolina...	7	1,119,354	3	319,500	8	812,524	6	174,439	24	2,425,817
South Dakota.....	17	448,232	2	20,922	1	51,000	1	5,200	21	525,354
Tennessee.....	25	1,490,849	12	1,035,766	28	699,855	6	119,674	71	3,346,144
Texas.....	185	16,123,860	75	7,131,908	126	5,451,436	46	1,565,773	432	30,272,977
Utah.....	2	131,540	3	97,511	7	704,674	5	905,679	17	1,839,404
Vermont.....	3	57,013	---	---	---	---	4	292,124	7	349,137
Virginia.....	29	1,067,055	11	312,524	26	863,671	20	709,443	86	2,952,693
Washington.....	24	647,946	4	856,443	5	310,261	10	708,389	43	2,523,039
West Virginia....	24	1,414,544	21	1,675,683	7	227,397	8	467,000	60	3,784,624
Wisconsin.....	50	1,606,675	22	595,609	25	1,017,806	15	526,203	112	3,746,293
Wyoming.....	11	1,608,987	17	2,309,647	23	946,680	14	564,128	65	5,429,442
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	1,581	83,340,024	638	50,293,734	1,101	48,359,615	586	26,357,083	3,906	208,350,456

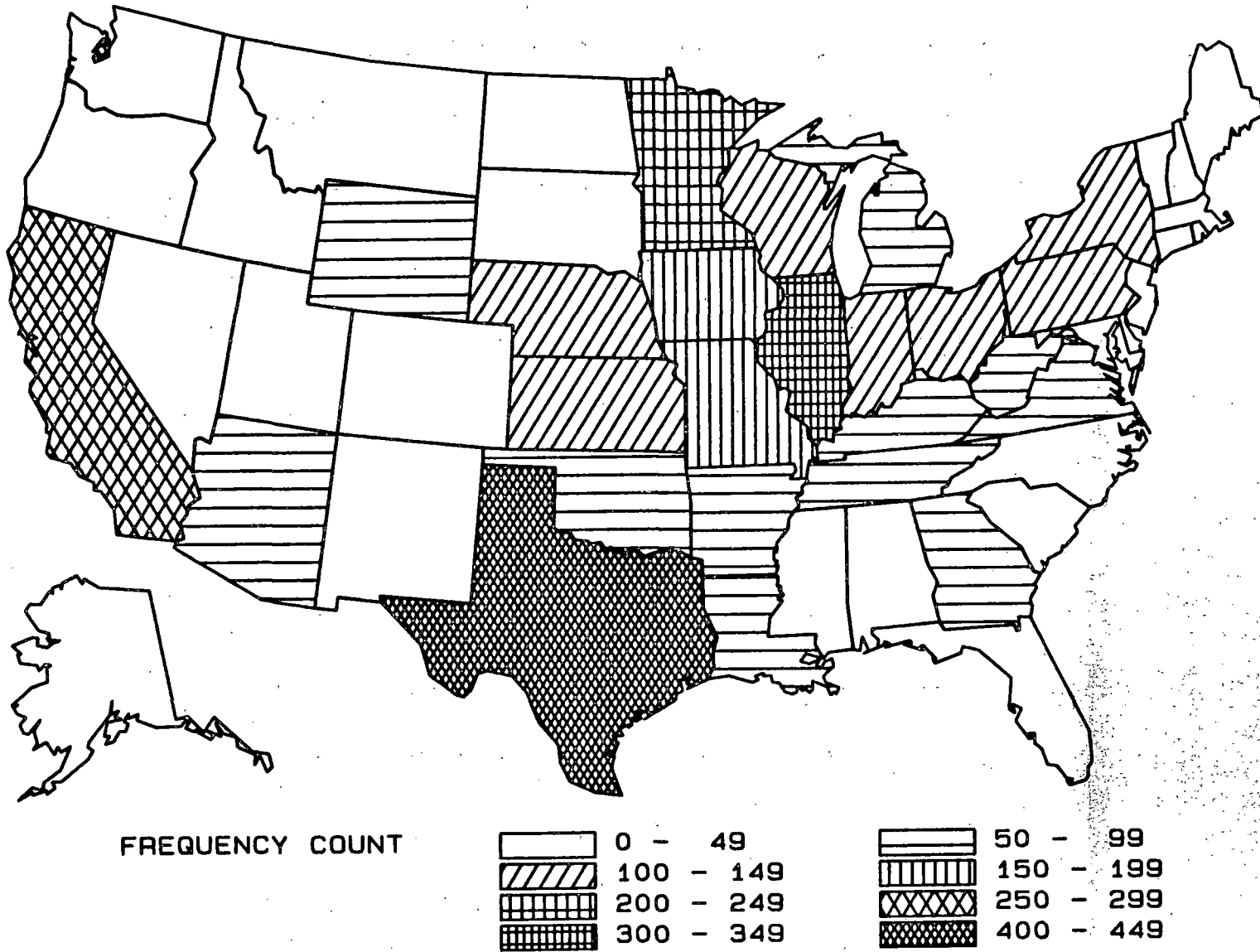


FIGURE 25. TRAIN ACCIDENTS BY STATE, 1982

TABLE 32

TRAIN ACCIDENTS BY STATE AND MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama.....	2	6	3	3	—	3	5	6	1	3	5	7	44
Alaska.....	—	—	—	—	1	4	2	2	—	1	—	1	11
Arizona.....	1	2	4	6	7	5	6	3	4	6	8	6	58
Arkansas.....	11	2	4	2	15	6	6	4	2	4	5	6	67
California.....	20	14	39	20	26	27	20	33	18	27	17	27	288
Colorado.....	2	1	8	4	4	4	6	7	2	2	2	3	45
Connecticut.....	1	—	—	2	—	4	4	—	2	1	2	2	18
Delaware.....	—	—	2	—	—	2	1	1	—	—	—	—	6
Dist of Columbia.	—	1	—	1	1	1	—	—	—	—	—	—	4
Florida.....	2	3	4	—	5	2	2	7	1	4	6	4	40
Georgia.....	7	6	5	8	8	5	3	2	4	2	6	6	62
Idaho.....	1	4	4	2	1	3	—	3	3	3	—	1	25
Illinois.....	29	14	40	27	31	28	27	19	25	25	17	33	315
Indiana.....	12	8	13	8	11	9	6	11	8	8	8	8	110
Iowa.....	6	14	15	13	12	11	9	19	7	17	17	22	162
Kansas.....	9	9	14	8	11	8	28	9	5	7	6	12	126
Kentucky.....	3	8	3	8	7	9	6	3	4	5	9	4	69
Louisiana.....	13	9	10	6	4	5	6	10	6	8	8	8	93
Maine.....	1	1	1	1	1	4	1	2	2	1	1	2	18
Maryland.....	1	1	4	4	1	1	4	3	2	5	1	3	30
Massachusetts....	—	4	5	1	2	4	1	4	5	2	3	4	35
Michigan.....	6	4	6	9	6	8	4	7	6	5	5	7	73
Minnesota.....	8	8	18	26	10	14	15	27	23	23	20	14	206
Mississippi.....	3	3	—	2	1	8	3	—	3	3	1	4	31
Missouri.....	13	20	10	14	9	17	17	18	19	12	17	17	183
Montana.....	—	5	5	3	11	1	2	6	4	2	4	2	45
Nebraska.....	7	10	13	8	7	12	18	11	11	10	7	16	130
Nevada.....	1	2	—	1	1	3	—	1	—	—	2	1	12
New Hampshire....	1	1	1	1	—	1	—	—	2	—	—	—	7
New Jersey.....	3	2	4	4	3	1	3	4	1	3	3	3	34
New Mexico.....	1	—	2	3	2	4	1	2	1	3	8	1	28
New York.....	9	7	11	10	9	20	13	12	11	6	6	7	121
North Carolina...	9	2	2	1	4	3	6	4	1	4	4	8	48
North Dakota.....	1	—	—	5	2	2	10	10	3	4	3	4	44
Ohio.....	10	7	10	5	13	15	10	7	17	17	13	7	131
Oklahoma.....	7	7	5	2	6	1	2	3	5	8	5	5	56
Oregon.....	4	4	2	4	8	7	4	—	4	3	1	7	48
Pennsylvania.....	8	14	15	6	12	13	11	15	17	8	16	10	145
Rhode Island.....	—	—	—	—	—	—	—	—	—	—	—	—	—
South Carolina...	2	—	—	1	5	1	2	3	1	2	3	4	24
South Dakota.....	2	—	3	3	2	—	4	1	1	2	1	2	21
Tennessee.....	8	7	2	7	4	5	12	4	6	6	5	5	71
Texas.....	40	40	30	33	31	48	37	44	32	29	37	31	432
Utah.....	—	—	1	3	1	—	1	4	2	2	—	3	17
Vermont.....	1	1	1	1	1	—	1	—	—	—	1	—	7
Virginia.....	5	10	4	7	5	7	7	10	11	6	8	6	86
Washington.....	5	1	4	2	2	3	7	3	8	3	3	2	43
West Virginia....	6	5	6	9	3	4	7	2	3	8	5	2	60
Wisconsin.....	5	4	11	12	4	10	11	3	21	11	11	9	112
Wyoming.....	8	6	7	3	6	3	3	7	7	2	6	7	65
Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL.....	294	277	351	309	316	356	354	356	321	313	316	343	3,906

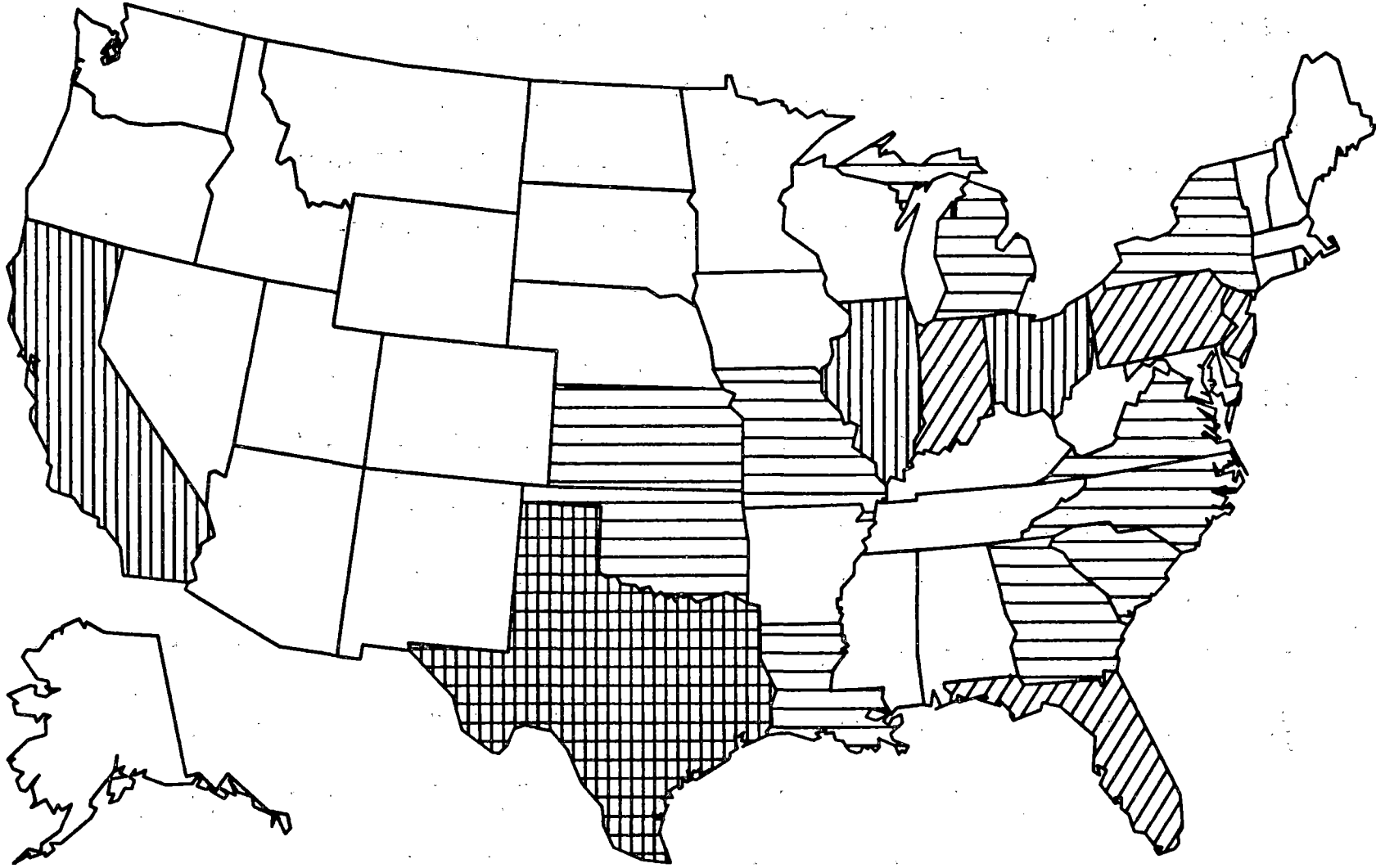
TABLE 33

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.....	---	6	---	12	163	1	1	451	9	13	620	10
Alaska.....	---	---	---	3	18	---	---	35	1	3	53	1
Arizona.....	---	5	---	13	64	3	---	117	6	13	186	9
Arkansas.....	1	12	---	15	159	1	1	387	12	17	558	13
California.....	---	39	---	67	431	8	---	1,462	67	67	1,932	75
Colorado.....	---	7	---	8	120	---	---	236	1	8	363	1
Connecticut.....	---	5	---	5	28	---	1	174	---	6	207	---
Delaware.....	---	1	---	1	25	---	---	147	3	1	173	3
Dist of Columbia.....	---	---	---	1	11	---	---	93	---	1	104	---
Florida.....	3	17	---	53	220	1	1	524	4	57	761	5
Georgia.....	---	8	---	31	297	2	1	783	12	32	1,088	14
Idaho.....	---	---	---	8	48	---	1	223	2	9	271	2
Illinois.....	6	55	---	68	478	5	5	1,940	38	79	2,473	43
Indiana.....	4	35	---	44	239	2	1	750	17	49	1,024	19
Iowa.....	1	9	---	16	124	1	---	405	14	17	538	15
Kansas.....	5	9	---	24	154	---	---	458	6	29	621	6
Kentucky.....	---	---	---	15	139	2	---	693	13	15	832	15
Louisiana.....	3	9	---	18	215	4	---	483	4	21	707	8
Maine.....	---	---	---	2	26	3	---	112	10	2	138	13
Maryland.....	---	2	---	11	89	---	2	498	6	13	589	6
Massachusetts.....	---	3	---	4	69	---	---	254	10	4	326	10
Michigan.....	---	4	---	31	305	1	1	902	11	32	1,211	12
Minnesota.....	1	4	---	18	129	---	---	475	6	19	608	6
Mississippi.....	1	3	---	17	136	---	---	251	4	18	390	4
Missouri.....	1	11	---	26	200	2	3	754	15	30	965	17
Montana.....	---	3	---	11	41	1	1	265	5	12	309	6
Nebraska.....	1	4	---	11	154	2	2	613	19	14	771	21
Nevada.....	---	12	---	6	20	2	---	71	---	6	103	2
New Hampshire.....	---	---	---	2	8	---	---	17	---	2	25	---
New Jersey.....	---	3	---	37	96	3	5	665	18	42	764	21
New Mexico.....	---	2	---	5	41	---	---	160	---	5	203	---
New York.....	2	22	1	28	369	7	2	2,433	142	32	2,824	150
North Carolina.....	3	17	---	26	229	---	---	383	10	29	629	10
North Dakota.....	---	5	---	4	31	---	---	76	2	4	112	2
Ohio.....	4	22	---	64	393	2	3	1,200	16	71	1,615	18
Oklahoma.....	---	9	---	24	130	---	2	264	5	26	403	5
Oregon.....	3	8	---	6	124	---	---	336	---	9	468	---
Pennsylvania.....	---	25	1	39	252	---	4	1,607	20	43	1,884	21
Rhode Island.....	---	---	---	3	7	---	---	24	1	3	31	1
South Carolina.....	2	1	---	21	108	---	---	236	---	23	345	---
South Dakota.....	---	2	---	1	25	---	---	46	1	1	73	1
Tennessee.....	---	4	---	15	143	1	2	587	8	17	734	9
Texas.....	11	79	---	79	719	7	3	1,792	48	93	2,590	55
Utah.....	---	7	---	12	68	---	---	175	4	12	250	4
Vermont.....	---	---	---	3	5	---	1	42	---	4	47	---
Virginia.....	---	20	---	19	229	---	3	896	6	22	1,145	6
Washington.....	---	2	---	13	98	1	---	339	3	13	439	4
West Virginia.....	---	2	---	9	122	---	---	536	3	9	660	3
Wisconsin.....	4	5	---	13	193	1	1	411	7	18	609	8
Wyoming.....	---	2	---	4	84	2	4	302	3	8	388	5
Unknown.....	---	---	---	---	1	---	---	---	---	---	1	---
TOTAL.....	56	500	2	966	7,577	65	51	26,083	592	1,073	34,160	659

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	3	---	4	1	7	---	8	2	10	---	12
Alaska.....	---	---	---	---	1	2	---	3	1	2	---	3
Arizona.....	---	7	2	9	---	4	---	4	---	11	2	13
Arkansas.....	---	2	1	3	---	9	4	13	---	11	5	16
California.....	5	46	2	53	2	8	4	14	7	54	6	67
Colorado.....	---	1	1	2	---	4	2	6	---	5	3	8
Connecticut.....	---	4	---	4	---	1	---	1	---	5	---	5
Delaware.....	---	1	---	1	---	---	---	---	---	1	---	1
Dist of Columbia.	---	1	---	1	---	---	---	---	---	1	---	1
Florida.....	4	33	---	37	---	18	---	18	4	51	---	55
Georgia.....	1	10	---	11	1	18	---	19	2	28	---	30
Idaho.....	---	1	---	1	1	5	1	7	1	6	1	8
Illinois.....	3	24	3	30	2	33	5	40	5	57	8	70
Indiana.....	---	8	---	8	2	35	---	37	2	43	---	45
Iowa.....	---	4	---	4	2	8	2	12	2	12	2	16
Kansas.....	---	---	---	---	2	20	5	27	2	20	5	27
Kentucky.....	1	6	1	8	---	6	---	6	1	12	1	14
Louisiana.....	---	5	---	5	---	10	3	13	---	15	3	18
Maine.....	---	---	---	---	---	2	---	2	---	2	---	2
Maryland.....	---	10	---	10	---	---	---	---	---	10	---	10
Massachusetts....	---	4	---	4	---	---	---	---	---	4	---	4
Michigan.....	1	6	---	7	---	24	---	24	1	30	---	31
Minnesota.....	1	3	---	4	2	13	---	15	3	16	---	19
Mississippi.....	1	6	1	8	---	9	---	9	1	15	1	17
Missouri.....	1	9	---	10	1	12	3	16	2	21	3	26
Montana.....	---	5	1	6	1	4	---	5	1	9	1	11
Nebraska.....	---	5	---	5	---	6	1	7	---	11	1	12
Nevada.....	---	4	---	4	---	2	---	2	---	6	---	6
New Hampshire.....	---	1	---	1	---	---	---	---	---	1	---	1
New Jersey.....	1	24	4	29	---	5	---	5	1	29	4	34
New Mexico.....	---	2	2	4	---	---	1	1	---	2	3	5
New York.....	2	19	2	23	---	7	---	7	2	26	2	30
North Carolina...	---	14	---	14	2	13	---	15	2	27	---	29
North Dakota.....	---	3	---	3	---	1	---	1	---	4	---	4
Ohio.....	---	19	1	20	6	39	1	46	6	58	2	66
Oklahoma.....	1	5	2	8	---	13	3	16	1	18	5	24
Oregon.....	---	4	---	4	---	1	---	1	---	5	---	5
Pennsylvania.....	1	26	1	28	1	9	---	10	2	35	1	38
Rhode Island.....	---	3	---	3	---	---	---	---	---	3	---	3
South Carolina...	---	13	---	13	---	10	---	10	---	23	---	23
South Dakota.....	---	---	---	---	---	1	---	1	---	1	---	1
Tennessee.....	1	6	---	7	---	8	---	8	1	14	---	15
Texas.....	1	21	2	24	7	35	12	54	8	56	14	78
Utah.....	---	1	---	1	1	9	1	11	1	10	1	12
Vermont.....	---	---	---	---	---	3	---	3	---	3	---	3
Virginia.....	---	9	1	10	1	7	---	8	1	16	1	18
Washington.....	---	6	---	6	1	6	---	7	1	12	---	13
West Virginia....	---	5	---	5	---	2	---	2	---	7	---	7
Wisconsin.....	1	7	1	9	---	5	3	8	1	12	4	17
Wyoming.....	---	4	---	4	---	---	---	---	---	4	---	4
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	27	400	28	455	37	434	51	522	64	834	79	977



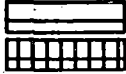
FREQUENCY COUNT



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60 - 79



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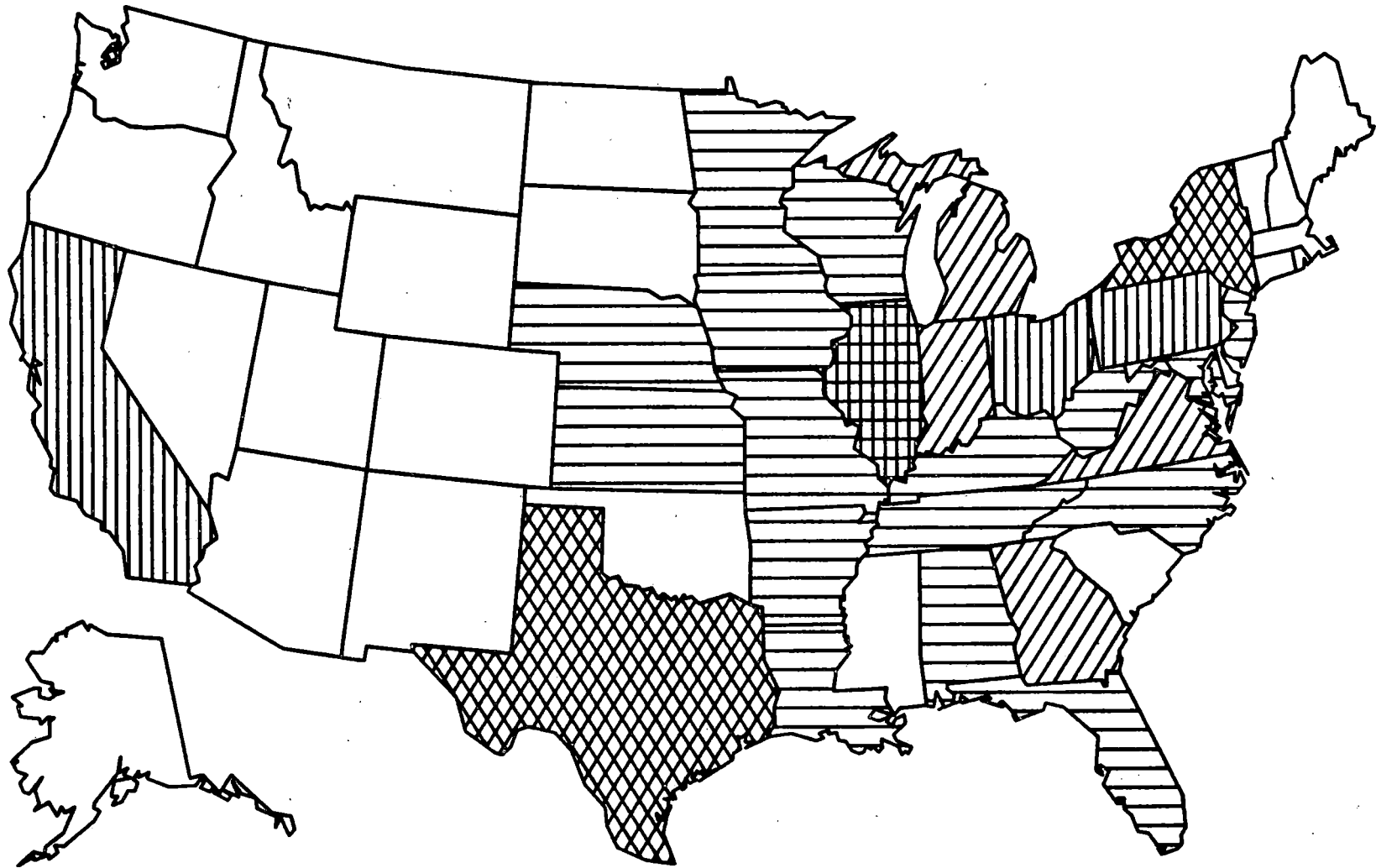


40 - 59

FIGURE 26. FATALITIES BY STATE

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

State	.....Trespassers.....				.....Nontrespassers.....				.....Total.....			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama.....	2	9	---	11	3	59	6	68	5	68	6	79
Alaska.....	---	---	---	---	---	7	---	7	---	7	---	7
Arizona.....	---	11	1	12	---	5	3	8	---	16	4	20
Arkansas.....	1	6	---	7	5	50	11	66	6	56	11	73
California.....	4	49	3	56	7	48	21	76	11	97	24	132
Colorado.....	1	11	1	13	3	34	13	50	4	45	14	63
Connecticut.....	---	3	---	3	---	5	---	5	---	8	---	8
Delaware.....	2	2	---	4	---	1	---	1	2	3	---	5
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	---	31	---	31	2	47	---	49	2	78	---	80
Georgia.....	1	14	---	15	6	67	1	74	7	81	1	89
Idaho.....	1	1	---	2	2	18	---	20	3	19	---	22
Illinois.....	11	28	13	52	10	75	38	123	21	103	51	175
Indiana.....	4	19	3	26	3	104	11	118	7	123	14	144
Iowa.....	2	---	2	4	1	11	12	24	3	11	14	28
Kansas.....	1	3	---	4	9	28	25	62	10	31	25	66
Kentucky.....	2	14	---	16	3	23	3	29	5	37	3	45
Louisiana.....	---	6	1	7	2	47	60	109	2	53	61	116
Maine.....	---	---	---	---	---	3	---	3	---	3	---	3
Maryland.....	---	5	---	5	---	8	---	8	---	13	---	13
Massachusetts.....	4	10	---	14	---	5	---	5	4	15	---	19
Michigan.....	6	11	1	18	5	73	2	80	11	84	3	98
Minnesota.....	---	3	1	4	2	34	12	48	2	37	13	52
Mississippi.....	2	1	1	4	2	21	51	74	4	22	52	78
Missouri.....	6	5	4	15	3	34	11	48	9	39	15	63
Montana.....	---	4	1	5	2	8	---	10	2	12	1	15
Nebraska.....	1	1	2	4	7	19	6	32	8	20	8	36
Nevada.....	---	3	---	3	---	2	1	3	---	5	1	6
New Hampshire.....	2	1	---	3	---	---	---	---	2	1	---	3
New Jersey.....	1	8	1	10	---	3	1	4	1	11	2	14
New Mexico.....	---	7	2	9	---	4	2	6	---	11	4	15
New York.....	6	19	1	26	1	8	2	11	7	27	3	37
North Carolina.....	3	15	---	18	28	72	---	100	31	87	---	118
North Dakota.....	---	1	---	1	---	10	1	11	---	11	1	12
Ohio.....	2	31	2	35	14	128	13	155	16	159	15	190
Oklahoma.....	---	1	1	2	10	56	23	89	10	57	24	91
Oregon.....	1	5	---	6	1	18	2	21	2	23	2	27
Pennsylvania.....	4	28	---	32	2	34	6	42	6	62	6	74
Rhode Island.....	1	1	---	2	---	---	---	---	1	1	---	2
South Carolina.....	2	6	---	8	5	36	1	42	7	42	1	50
South Dakota.....	---	---	---	---	2	10	2	14	2	10	2	14
Tennessee.....	3	5	2	10	5	22	10	37	8	27	12	47
Texas.....	5	43	2	50	19	191	80	290	24	234	82	340
Utah.....	---	4	---	4	2	16	---	18	2	20	---	22
Vermont.....	---	1	---	1	---	1	---	1	---	2	---	2
Virginia.....	6	13	---	19	4	57	---	61	10	70	---	80
Washington.....	1	8	---	9	2	21	1	24	3	29	1	33
West Virginia.....	---	13	---	13	---	26	---	26	---	39	---	39
Wisconsin.....	---	8	1	9	12	63	21	96	12	71	22	105
Wyoming.....	---	1	---	1	1	8	1	10	1	9	1	11
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	88	469	46	603	185	1,620	453	2,258	273	2,089	499	2,861



FREQUENCY COUNT

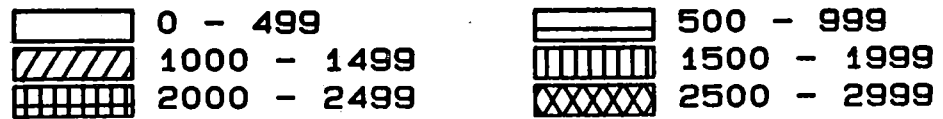
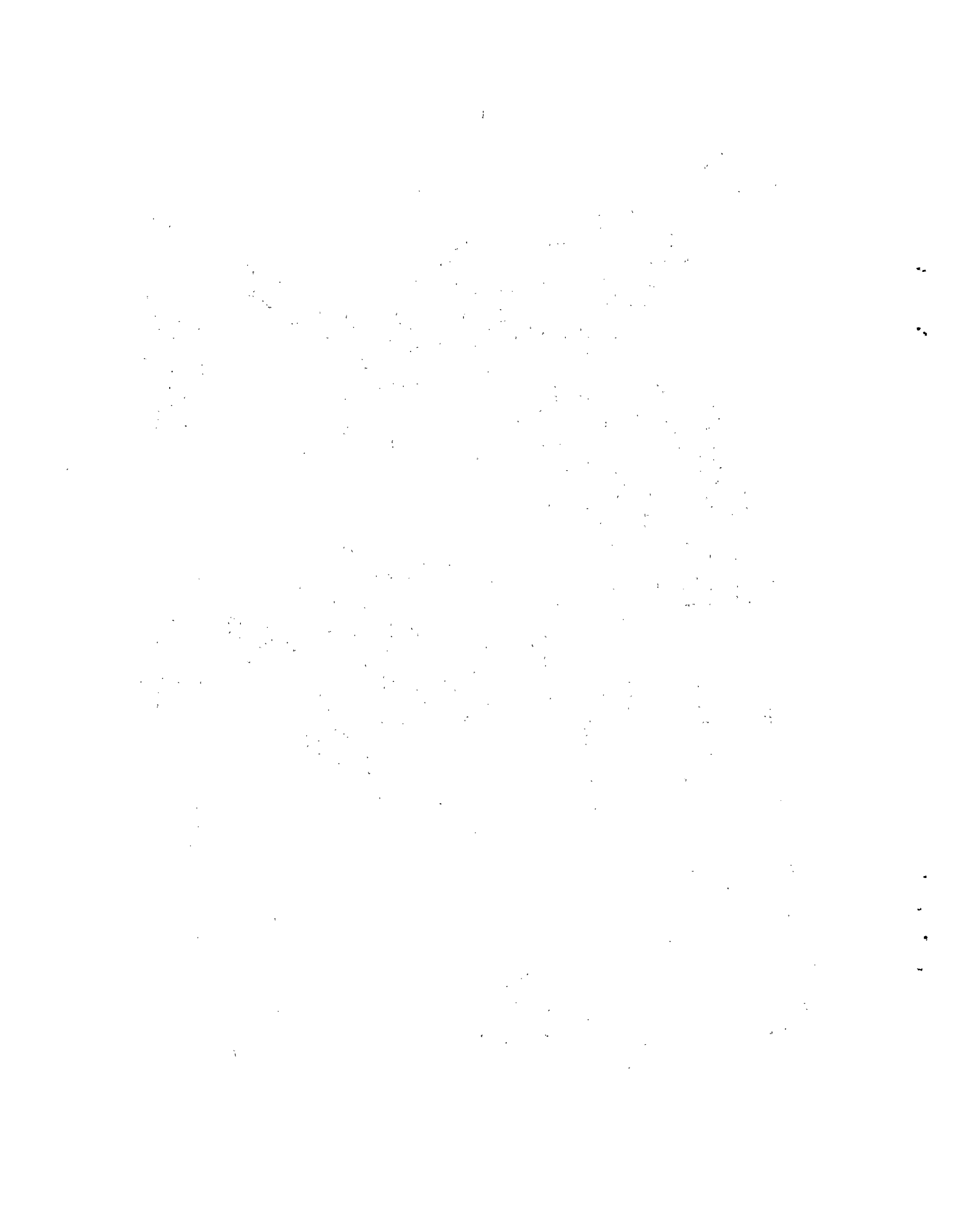


FIGURE 27. INJURIES BY STATE, 1982

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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.....	1,368,519	---	554,915	1,923,434
Amtrak (National RR Passenger Corp).....	27,159,015	2,163,849	303,815	29,626,679
Atchison, Topeka And Santa Fe Rwy Co.....	41,471,827	---	5,347,044	46,818,871
Baltimore And Ohio Railroad Co.....	10,677,309	117,975	3,541,080	14,336,364
Bessemer And Lake Erie Railroad Co.....	348,863	---	71,880	420,743
Boston And Maine Corporation.....	1,728,464	1,413,070	877,564	4,019,098
Burlington Northern Incorporated.....	57,400,492	3,013,579	13,932,287	74,346,358
Central Of Georgia Railroad Company.....	1,762,685	---	1,179,766	2,942,451
Chesapeake And Ohio Railway Company.....	8,414,577	---	3,481,398	11,895,975
Chicago And North Western.....	11,074,068	1,932,808	4,583,965	17,590,841
Chicago, Milw, St. Paul And Pacific.....	5,158,177	---	2,060,273	7,218,450
Cincinnati, New Orleans And TX Pac Co.....	2,056,396	---	868,819	2,925,215
Consolidated Rail Corporation.....	33,502,408	---	11,977,590	45,479,998
Delaware And Hudson Railway.....	2,363,518	---	127,663	2,491,181
Denver And Rio Grande Western RR Co.....	5,886,438	---	872,585	6,759,023
Detroit, Toledo And Ironton RR Co.....	755,021	---	218,790	973,811
Duluth, Missabe And Iron Range Rwy Co.....	404,535	---	227,537	632,072
Elgin, Joliet And Eastern Railway Co.....	332,000	---	1,012,636	1,344,636
Florida East Coast Railway Co.....	2,228,141	---	668,993	2,897,134
Grand Trunk Western Railroad Co.....	2,299,656	---	1,711,251	4,010,907
Illinois Central Gulf Railroad Co.....	12,708,198	1,068,332	3,881,144	17,657,674
Kansas City Southern Railway Co.....	2,474,694	---	1,038,467	3,513,161
Louisiana And Arkansas Rwy Company.....	1,199,961	---	378,234	1,578,195
Missouri Pacific Railroad Co.....	23,302,833	---	6,661,536	29,964,369
Missouri-Kansas-Texas Railroad Co.....	2,980,482	---	1,250,011	4,230,493
Norfolk And Western Railway Co.....	13,097,677	---	5,551,002	18,648,679
Pittsburg And Lake Erie Railroad Co.....	251,843	---	241,407	493,250
Seaboard System Railroad.....	34,052,313	---	14,961,238	49,013,551
Souline Railroad Company.....	3,505,557	---	1,363,753	4,869,310
Southern Pacific Transportation Co.....	25,975,497	---	8,659,196	34,634,693
Southern Railway Company.....	12,358,056	---	5,671,052	18,029,108
St. Louis Southwestern Railway Co.....	5,566,187	---	905,253	6,471,440
Union Pacific Railroad Co.....	29,281,132	---	3,125,016	32,406,148
Western Maryland Railway Company.....	298,176	---	189,714	487,890
Western Pacific Railroad Company.....	3,007,080	---	449,722	3,456,802
Total Class I Railroads.....	386,451,795	9,709,613	107,946,596	504,108,004
CLASS II RAILROADS				
Bangor And Aroostook Railroad Co.....	380,992	---	85,307	466,299
Canadian Pacific Lines In Maine.....	234,574	---	---	234,574
Carolina And Northwestern Rwy Company.....	338,361	---	32,085	370,446
Central Vermont Railway Inc.....	474,329	---	40,832	515,161
Chicago And Illinois Midland Rwy Co.....	92,671	---	78,610	171,281
Chicago South Shore And South Bend RR.....	171,969	1,864,658	---	2,036,627
Duluth, Winnipeg And Pacific Rwy Co.....	410,334	---	174,102	584,436
Georgia Southern And Florida Railway.....	769,878	---	164,257	934,135
Green Bay And Western Railroad.....	164,965	---	129,960	294,925
Maine Central Railroad Company.....	701,491	---	355,534	1,057,025
Michigan Interstate Railroad.....	---	---	43,277	43,277
Monogahela Railway.....	167,405	---	872	168,277
Northwestern Pacific Railroad.....	127,502	---	22,946	150,448
Providence and Worcester Railroad Co.....	176,391	---	22,197	198,588
Richmond, Frederickburg And Potomac.....	1,848,812	---	425,901	2,274,713
Spokane International Railroad.....	129,139	---	13,398	142,537
Texas And Northern Railway Company.....	6,583	---	5,189	11,772
Texas, Mexican Railway Company.....	104,584	---	111,032	215,616
Toledo, Peoria And Western Railroad.....	273,482	---	100,556	374,038
Total Class II Railroads.....	6,573,462	1,864,658	1,806,055	10,244,175
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
Class I Railroads.....	386,451,795	9,709,613	107,946,596	504,108,004
Class II Railroads.....	6,573,462	1,864,658	1,806,055	10,244,175
Class III Railroads.....	15,144,565	16,212,229	12,481,332	43,838,126
Total All Railroads.....	408,169,822	27,786,500	122,233,983	558,190,305

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

Railroad	.....Collisions.....					.....Derailments.....					Damage	
	Human	Equip	Track	Other	Total	Damages	Human	Equip	Track	Other		Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.....	---	---	---	1	1	15,300	1	2	---	---	3	29,90
Amtrak (National RR Passenger Corp)....	7	---	---	1	8	837,234	2	3	16	---	21	3,018,85
Atchison, Topeka And Santa Fe Rwy Co...	25	1	1	---	27	1,089,348	31	34	60	16	141	15,560,12
Baltimore And Ohio Railroad Co.....	13	---	---	1	14	364,860	26	16	24	13	79	2,453,31
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	1	2	---	---	3	109,17
Boston And Maine Corporation.....	3	---	1	---	4	65,512	3	---	22	8	33	1,376,22
Burlington Northern Incorporated.....	36	4	1	---	41	4,677,509	76	63	220	55	414	30,267,70
Central Of Georgia Railroad Company....	1	---	---	---	1	26,800	2	1	5	1	9	203,25
Chesapeake And Ohio Railway Company....	6	---	---	---	6	125,800	6	16	26	11	59	2,674,61
Chicago And North Western.....	23	---	---	2	25	349,555	26	39	191	25	281	8,387,40
Chicago, Milw, St. Paul And Pacific....	8	---	---	1	9	115,688	31	27	79	12	149	5,911,44
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	5	1	2	2	10	615,35
Consolidated Rail Corporation.....	26	---	1	3	30	3,163,606	51	41	92	18	202	5,618,01
Delaware And Hudson Railway.....	2	---	---	---	2	219,600	13	3	24	7	47	1,469,66
Denver And Rio Grande Western RR Co....	1	---	---	---	1	280,720	2	4	3	---	9	741,32
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	6	1	2	---	9	222,71
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	---	1	5	---	6	106,23
Elgin, Joliet And Eastern Railway Co...	4	---	---	---	4	33,619	3	3	13	5	24	260,56
Florida East Coast Railway Co.....	---	---	---	---	---	---	3	---	3	---	6	401,63
Grand Trunk Western Railroad Co.....	7	---	---	---	7	93,068	7	4	7	4	22	1,310,40
Illinois Central Gulf Railroad Co.....	8	---	1	2	11	274,462	13	10	47	6	76	3,891,28
Kansas City Southern Railway Co.....	4	---	---	---	4	113,809	11	6	30	6	53	7,408,86
Louisiana And Arkansas Rwy Company.....	6	---	---	---	6	5,678,986	2	6	4	3	15	454,71
Missouri Pacific Railroad Co.....	22	---	7	2	31	559,889	54	31	78	9	172	7,808,03
Missouri-Kansas-Texas Railroad Co.....	13	2	1	2	18	1,908,392	9	6	34	1	50	1,160,96
Norfolk And Western Railway Co.....	14	1	1	4	20	347,260	24	18	36	13	91	4,805,77
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	1	---	9	1	11	321,12
Seaboard System Railroad.....	16	2	4	1	23	1,775,270	35	36	71	14	156	11,108,96
Sooline Railroad Company.....	10	1	---	---	11	209,270	18	5	40	1	64	2,356,59
Southern Pacific Transportation Co.....	23	3	2	3	31	2,376,340	81	99	194	42	416	18,839,09
Southern Railway Company.....	11	1	---	2	14	135,000	14	13	22	2	51	1,162,35
St. Louis Southwestern Railway Co.....	3	---	---	---	3	26,325	16	19	57	3	95	4,331,06
Union Pacific Railroad Co.....	21	1	---	4	26	890,115	35	37	32	9	113	8,498,83
Western Maryland Railway Company.....	---	---	---	1	1	10,000	1	1	1	1	4	178,25
Western Pacific Railroad Company.....	4	---	---	---	4	257,654	7	6	7	---	20	611,99
Total Class I Railroads.....	317	16	20	30	383	26,020,991	616	554	1,456	288	2,914	153,675,81
RECAPITULATION												
Class I Railroads.....	298	16	19	28	361	26,020,991	554	521	1,361	279	2,715	153,675,81
Class II Railroads.....	7	---	---	2	9	126,798	9	13	29	8	59	3,620,95
Class III Railroads.....	35	4	1	8	48	1,328,454	39	25	142	24	230	7,363,19
Total All Railroads.....	340	20	20	38	418	27,476,243	602	559	1,532	311	3,004	164,659,96

*Accident Rate per million train miles.

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

TABLE 37 (CONTINUED)

Railroad	.....Other Accidents.....					.....Total.....			
	Human	Equip	Track	Other	Total	Damages	Accs.	Rate*	Damages
CLASS I RAILROADS									
Alabama Great Southern Railroad Co.....	---	---	---	2	2	67,350	6	3.12	112,550
Amtrak (National RR Passenger Corp)....	6	5	4	18	33	1,704,370	62	2.09	5,560,454
Atchison, Topeka And Santa Fe Rwy Co...	7	2	---	14	23	1,090,877	191	4.08	17,740,351
Baltimore And Ohio Railroad Co.....	2	2	---	5	9	151,822	102	7.11	2,969,994
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	3	7.13	109,172
Boston And Maine Corporation.....	1	1	---	7	9	140,840	46	11.45	1,582,581
Burlington Northern Incorporated.....	19	14	4	27	64	3,587,338	519	6.98	38,532,547
Central Of Georgia Railroad Company....	1	---	---	2	3	44,900	13	4.42	274,950
Chesapeake And Ohio Railway Company....	2	1	---	4	7	146,591	72	6.05	2,947,006
Chicago And North Western.....	23	---	---	16	39	1,156,668	345	19.61	9,893,631
Chicago, Milw, St. Paul And Pacific....	3	---	---	8	11	114,878	169	23.41	6,142,007
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	10	3.42	615,350
Consolidated Rail Corporation.....	18	3	3	24	48	676,738	280	6.16	9,458,360
Delaware And Hudson Railway.....	---	---	---	---	---	---	49	19.67	1,689,267
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	10	1.48	1,022,044
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	9	9.24	222,718
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	6	9.49	106,233
Elgin, Joliet And Eastern Railway Co...	2	---	---	---	2	29,298	30	22.31	323,477
Florida East Coast Railway Co.....	---	---	---	---	---	---	6	2.07	401,633
Grand Trunk Western Railroad Co.....	4	---	1	3	8	62,800	37	9.22	1,466,270
Illinois Central Gulf Railroad Co.....	---	2	1	5	8	582,650	95	5.38	4,748,397
Kansas City Southern Railway Co.....	5	1	1	1	8	180,181	65	18.50	7,702,857
Louisiana And Arkansas Rwy Company....	3	---	---	1	4	62,430	25	15.85	6,196,130
Missouri Pacific Railroad Co.....	8	2	1	5	16	429,055	219	7.31	8,796,983
Missouri-Kansas-Texas Railroad Co.....	1	---	---	3	4	62,950	72	17.02	3,132,304
Norfolk And Western Railway Co.....	8	2	---	13	23	206,245	134	7.19	5,359,284
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	11	22.30	321,124
Seaboard System Railroad.....	10	3	1	27	41	1,772,157	220	4.49	14,656,390
Sooline Railroad Company.....	1	3	1	3	8	683,533	83	17.05	3,249,395
Southern Pacific Transportation Co.....	22	9	3	22	56	941,251	503	14.52	22,156,690
Southern Railway Company.....	---	2	---	5	7	386,430	72	3.99	1,683,780
St. Louis Southwestern Railway Co.....	1	---	1	9	11	240,100	109	16.84	4,597,486
Union Pacific Railroad Co.....	2	1	---	7	10	75,283	149	4.60	9,464,233
Western Maryland Railway Company.....	---	---	---	---	---	---	5	10.25	188,250
Western Pacific Railroad Company.....	---	---	---	1	1	5,000	25	7.23	874,644
Total Class I Railroads.....	149	53	21	232	455	14,601,735	3,752	7.44	194,298,542
RECAPITULATION									
Class I Railroads.....	148	51	21	212	432	14,601,735	3,508	6.96	194,298,542
Class II Railroads.....	6	1	---	5	12	514,738	80	7.81	4,262,494
Class III Railroads.....	5	7	8	20	40	1,097,776	318	7.25	9,789,420
Total All Railroads.....	159	59	29	237	484	16,214,249	3,906	7.00	208,350,456

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.....	---	---	---	---	---	---	---	---	---	3	3	6
Amtrak (National RR Passenger Corp)....	---	---	4	---	---	4	3	---	---	2	22	27
Atchison, Topeka And Santa Fe Rwy Co...	---	---	---	2	---	2	1	---	---	34	30	65
Baltimore And Ohio Railroad Co.....	---	---	---	---	---	---	2	---	---	9	10	21
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---	---	---	---	---	---
Boston And Maine Corporation.....	---	---	---	---	---	---	---	---	---	---	3	3
Burlington Northern Incorporated.....	3	---	---	8	---	11	2	---	---	61	35	98
Central Of Georgia Railroad Company....	---	---	---	---	---	---	---	---	---	---	1	1
Chesapeake And Ohio Railway Company....	---	---	---	---	---	---	1	1	---	15	9	26
Chicago And North Western.....	---	---	---	1	---	1	---	---	---	19	16	35
Chicago, Milw, St. Paul And Pacific....	---	---	---	---	2	2	---	---	---	8	1	9
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	1	---	---	3	1	5	1	---	---	58	46	105
Delaware And Hudson Railway.....	---	---	---	---	---	---	---	---	---	---	1	1
Denver And Rio Grande Western RR Co...	---	---	---	---	---	---	---	---	---	5	1	6
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	---	---	---	2	---	2
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	---	---	---	---	1	1
Elgin, Joliet And Eastern Railway Co...	---	---	---	---	---	---	---	---	---	1	---	1
Florida East Coast Railway Co.....	---	---	---	---	---	---	---	---	---	---	13	13
Grand Trunk Western Railroad Co.....	---	---	---	---	---	---	---	---	---	6	2	8
Illinois Central Gulf Railroad Co.....	---	---	---	---	---	---	1	---	---	16	13	30
Kansas City Southern Railway Co.....	---	---	---	---	---	---	---	---	---	3	2	5
Louisiana And Arkansas Rwy Company....	1	---	---	1	---	2	1	---	---	3	1	5
Missouri Pacific Railroad Co.....	2	---	---	3	---	5	3	---	---	48	9	60
Missouri-Kansas-Texas Railroad Co.....	---	---	---	---	---	---	---	---	---	5	5	10
Norfolk And Western Railway Co.....	---	---	---	1	---	1	---	---	---	31	10	41
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	2	---	---	7	1	10	1	---	---	63	62	126
Sooline Railroad Company.....	---	---	---	---	---	---	---	---	---	2	2	4
Southern Pacific Transportation Co.....	4	---	---	---	1	5	4	---	---	22	53	79
Southern Railway Company.....	---	---	---	---	---	---	---	---	---	15	20	35
St. Louis Southwestern Railway Co.....	---	---	---	1	---	1	---	---	---	9	6	15
Union Pacific Railroad Co.....	1	---	---	1	---	2	---	---	---	18	15	33
Western Maryland Railway Company.....	---	---	---	---	---	---	---	---	---	---	1	1
Western Pacific Railroad Company.....	---	---	---	---	---	---	---	---	---	3	3	6
Total Class I Railroads.....	14	---	4	28	5	51	20	1	---	461	396	878
RECAPITULATION												
Class I Railroads.....	14	---	4	28	5	51	20	1	---	461	396	878
Class II Railroads.....	---	---	---	---	2	2	2	---	---	10	4	16
Class III Railroads.....	1	---	---	2	---	3	3	---	---	21	48	72
Total All Railroads.....	15	---	4	30	7	56	25	1	---	492	448	966

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

TABLE 38 (CONTINUED)

Railroad	.....Nontrain Incident.....						.....Total.....					
	Eod	Enod	Pagr	Nont	Tres	Total	Eod	Enod	Pagr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.....	---	---	---	---	---	---	---	---	---	3	3	6
Amtrak (National RR Passenger Corp)....	2	---	---	---	3	5	5	---	4	2	25	36
Atchison, Topeka And Santa Fe Rwy Co...	3	---	---	---	---	3	4	---	---	36	30	70
Baltimore And Ohio Railroad Co.....	---	1	---	1	---	2	2	1	---	10	10	23
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---	---	---	---	---	---
Boston And Maine Corporation.....	---	---	---	---	---	---	---	---	---	---	3	3
Burlington Northern Incorporated.....	1	---	---	4	5	10	6	---	---	73	40	119
Central Of Georgia Railroad Company....	1	---	---	---	---	1	1	---	---	---	1	2
Chesapeake And Ohio Railway Company....	---	---	---	---	---	---	1	1	---	15	9	26
Chicago And North Western.....	---	---	---	1	---	1	---	---	---	21	16	37
Chicago, Milw, St. Paul And Pacific....	---	---	---	---	---	---	---	---	---	8	3	11
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	---	---	---	2	1	3	2	---	---	63	48	113
Delaware And Hudson Railway.....	---	---	---	---	---	---	---	---	---	---	1	1
Denver And Rio Grande Western RR Co....	---	---	---	---	---	---	---	---	---	5	1	6
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	---	---	---	2	---	2
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	---	---	---	---	1	1
Elgin, Joliet And Eastern Railway Co...	---	---	---	---	---	---	---	---	---	1	---	1
Florida East Coast Railway Co.....	---	---	---	---	---	---	---	---	---	---	13	13
Grand Trunk Western Railroad Co.....	---	---	---	---	---	---	---	---	---	6	2	8
Illinois Central Gulf Railroad Co.....	---	---	---	---	---	---	1	---	---	16	13	30
Kansas City Southern Railway Co.....	2	---	---	---	---	2	2	---	---	3	2	7
Louisiana And Arkansas Rwy Company....	---	---	---	---	---	---	2	---	---	4	1	7
Missouri Pacific Railroad Co.....	1	---	---	---	---	1	6	---	---	51	9	66
Missouri-Kansas-Texas Railroad Co.....	1	---	---	---	---	1	1	---	---	5	5	11
Norfolk And Western Railway Co.....	1	---	---	---	---	1	1	---	---	32	10	43
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	---	---	---	---	---	---
Seaboard System Railroad.....	1	---	---	1	1	3	4	---	---	71	64	139
Sooline Railroad Company.....	---	---	---	---	---	---	---	---	---	2	2	4
Southern Pacific Transportation Co.....	---	---	---	---	---	---	8	---	---	22	54	84
Southern Railway Company.....	2	---	---	---	---	2	2	---	---	15	20	37
St. Louis Southwestern Railway Co.....	---	---	---	---	---	---	---	---	---	10	6	16
Union Pacific Railroad Co.....	3	---	---	---	---	3	4	---	---	19	15	38
Western Maryland Railway Company.....	---	---	---	---	---	---	---	---	---	---	1	1
Western Pacific Railroad Company.....	1	---	---	---	---	1	1	---	---	3	3	7
Total Class I Railroads.....	19	1	---	9	10	39	53	2	4	498	411	968
RECAPITULATION												
Class I Railroads.....	19	1	---	9	10	39	53	2	4	498	411	968
Class II Railroads.....	---	---	---	---	1	1	2	---	---	10	7	19
Class III Railroads.....	2	1	---	2	6	11	6	1	---	25	54	86
Total All Railroads.....	21	2	---	11	17	51	61	3	4	533	472	1,073

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	Pagr	Nont	Tres	Total	Eod	Enod	Pagr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.....	2	---	---	1	---	3	7	---	---	6	---	13
Amtrak (National RR Passenger Corp)....	57	---	48	---	---	105	139	---	48	3	6	196
Atchison, Topeka And Santa Fe Rwy Co...	18	---	---	3	---	21	145	---	---	148	30	323
Baltimore And Ohio Railroad Co.....	13	---	---	1	1	15	182	---	1	71	31	285
Beasemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	5	---	---	---	---	5
Boston And Maine Corporation.....	1	---	---	---	---	1	18	---	9	3	14	44
Burlington Northern Incorporated.....	29	1	6	5	---	41	344	5	3	156	44	552
Central Of Georgia Railroad Company....	1	---	---	---	---	1	34	---	---	19	3	56
Chesapeake And Ohio Railway Company....	---	---	---	1	---	1	174	---	1	81	13	269
Chicago And North Western.....	13	---	---	1	---	14	136	---	6	71	13	226
Chicago, Milw, St. Paul And Pacific....	2	---	---	2	2	6	71	---	3	22	8	104
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	20	---	---	5	---	25
Consolidated Rail Corporation.....	25	---	---	9	---	34	422	2	---	93	68	585
Delaware And Hudson Railway.....	2	---	---	---	---	2	27	---	---	---	1	28
Denver And Rio Grande Western RR Co....	1	---	---	---	---	1	24	---	---	13	3	40
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	9	---	---	9	---	18
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	3	---	---	1	---	4
Elgin, Joliet And Eastern Railway Co...	---	---	---	---	---	---	21	---	---	1	---	22
Florida East Coast Railway Co.....	---	---	---	---	---	---	3	---	---	4	10	17
Grand Trunk Western Railroad Co.....	4	---	---	---	---	4	96	---	---	31	9	136
Illinois Central Gulf Railroad Co.....	10	---	---	2	---	12	151	---	7	157	24	339
Kansas City Southern Railway Co.....	10	---	---	---	---	10	27	---	---	24	3	54
Louisiana And Arkansas Rwy Company....	3	---	---	3	---	6	20	---	---	17	---	37
Missouri Pacific Railroad Co.....	20	---	---	2	---	22	358	---	---	300	19	677
Missouri-Kansas-Texas Railroad Co.....	8	---	---	1	---	9	44	---	---	40	---	84
Norfolk And Western Railway Co.....	10	---	---	2	---	12	133	---	1	193	42	369
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	4	---	---	---	---	4
Seaboard System Railroad.....	17	---	---	6	---	23	524	2	---	199	69	794
Sooline Railroad Company.....	6	---	---	---	---	6	76	---	---	64	4	144
Southern Pacific Transportation Co.....	35	---	---	4	2	41	379	---	3	102	91	575
Southern Railway Company.....	7	---	---	1	---	8	138	---	---	121	17	276
St. Louis Southwestern Railway Co.....	12	---	---	4	---	16	44	---	---	27	4	75
Union Pacific Railroad Co.....	3	---	---	2	---	5	282	---	---	77	12	371
Western Maryland Railway Company.....	---	---	---	---	---	---	8	---	---	---	2	10
Western Pacific Railroad Company.....	8	---	---	---	---	8	26	---	---	5	3	34
Total Class I Railroads.....	317	1	54	50	5	427	4,094	9	82	2,063	543	6,791
RECAPITULATION												
Class I Railroads.....	317	1	54	50	5	427	4,094	9	82	2,063	543	6,791
Class II Railroads.....	7	---	23	---	5	35	132	---	4	32	5	173
Class III Railroads.....	23	---	9	8	---	40	483	3	42	105	45	678
Total All Railroads.....	347	1	86	58	10	502	4,709	12	128	2,200	593	7,642

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	Pgr	Nont	Tres	Total	Eod	Enod	Pgr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.....	24	3	---	---	---	27	33	3	---	7	---	43
Amtrak (National RR Passenger Corp)....	1,334	23	45	44	2	1,448	1,530	23	141	47	8	1,749
Atchison, Topeka And Santa Fe Rwy Co...	983	21	---	5	5	1,014	1,146	21	---	156	35	1,358
Baltimore And Ohio Railroad Co.....	780	16	6	11	3	816	975	16	7	83	35	1,116
Bessemer And Lake Erie Railroad Co.....	31	1	---	---	---	32	36	1	---	---	---	37
Boston And Maine Corporation.....	113	3	4	2	---	122	132	3	13	5	14	167
Burlington Northern Incorporated.....	2,102	60	3	23	14	2,202	2,475	66	12	184	58	2,795
Central Of Georgia Railroad Company....	89	1	---	3	---	93	124	1	---	22	3	150
Chesapeake And Ohio Railway Company....	887	19	3	5	2	916	1,061	19	4	87	15	1,186
Chicago And North Western.....	605	9	35	23	5	677	754	9	41	95	18	917
Chicago, Milw, St. Paul And Pacific....	321	3	---	3	---	327	394	3	3	27	10	437
Cincinnati, New Orleans And TX Pac Co...	34	2	---	3	---	39	54	2	---	8	---	64
Consolidated Rail Corporation.....	2,767	40	---	8	5	2,820	3,214	42	---	110	73	3,439
Delaware And Hudson Railway.....	90	3	---	---	---	93	119	3	---	---	1	123
Denver And Rio Grande Western RR Co....	66	1	---	---	---	67	91	1	---	13	3	108
Detroit, Toledo And Ironton RR Co.....	58	---	---	1	---	59	67	---	---	10	---	77
Duluth, Missabe And Iron Range Rwy Co...	61	2	---	25	---	88	64	2	---	26	---	92
Elgin, Joliet And Eastern Railway Co...	77	3	---	---	---	80	98	3	---	1	---	102
Florida East Coast Railway Co.....	23	---	---	---	---	23	26	---	---	4	10	40
Grand Trunk Western Railroad Co.....	313	5	3	3	2	326	413	5	3	34	11	466
Illinois Central Gulf Railroad Co.....	824	9	45	25	2	905	985	9	52	184	26	1,256
Kansas City Southern Railway Co.....	169	1	---	2	---	172	206	1	---	26	3	236
Louisiana And Arkansas Rwy Company....	29	---	---	---	---	29	52	---	---	20	---	72
Missouri Pacific Railroad Co.....	1,322	6	---	6	---	1,334	1,700	6	---	308	19	2,033
Missouri-Kansas-Texas Railroad Co.....	117	---	---	13	---	130	169	---	---	54	---	223
Norfolk And Western Railway Co.....	1,197	35	7	63	5	1,307	1,340	35	8	258	47	1,688
Pittsburg And Lake Erie Railroad Co....	76	---	---	---	---	76	80	---	---	---	---	80
Seaboard System Railroad.....	2,219	21	---	16	3	2,259	2,760	23	---	221	72	3,076
Southern Railway Company.....	255	1	---	4	---	260	337	1	---	68	4	410
Southern Pacific Transportation Co.....	1,647	14	---	9	7	1,677	2,061	14	3	115	100	2,293
Southern Railway Company.....	933	9	---	25	---	967	1,078	9	---	147	17	1,251
St. Louis Southwestern Railway Co.....	269	2	---	---	---	271	325	2	---	31	4	362
Union Pacific Railroad Co.....	1,177	36	---	4	2	1,219	1,462	36	---	83	14	1,595
Western Maryland Railway Company.....	45	---	---	---	---	45	53	---	---	---	2	55
Western Pacific Railroad Company.....	154	4	---	2	---	160	188	4	---	7	3	202
Total Class I Railroads.....	1,191	353	151	328	57	22,080	25,602	363	287	2,441	605	29,298
RECAPITULATION												
Class I Railroads.....	1,191	353	151	328	57	22,080	25,602	363	287	2,441	605	29,298
Class II Railroads.....	503	3	2	2	---	510	642	3	29	34	10	718
Class III Railroads.....	3,666	26	135	235	23	4,085	4,172	29	186	348	68	4,803
Total All Railroads.....	5,360	382	288	565	80	26,675	30,416	395	502	2,823	683	34,819

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	1	1	---	1	3
Amtrak (National RR Passenger Corp)....	---	1	---	---	1	17	37	21	16	17	108
Atchison, Topeka And Santa Fe Rwy Co...	---	6	4	1	---	11	22	55	28	20	151
Baltimore And Ohio Railroad Co.....	---	1	1	1	---	3	17	35	26	10	106
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---	1	1	---	2
Boston And Maine Corporation.....	---	---	---	---	---	3	8	---	4	5	20
Burlington Northern Incorporated.....	---	8	1	---	---	9	38	77	72	22	242
Central Of Georgia Railroad Company....	---	---	---	---	---	2	---	3	---	---	5
Chesapeake And Ohio Railway Company....	---	4	---	---	---	4	24	36	18	14	106
Chicago And North Western.....	---	2	1	---	---	3	5	19	12	6	54
Chicago, Milw, St. Paul And Pacific...	---	---	---	---	---	5	12	12	8	3	40
Cincinnati, New Orleans And TX Pac Co...	---	---	---	---	---	1	1	3	1	1	7
Consolidated Rail Corporation.....	---	4	4	---	---	8	29	104	50	68	314
Delaware And Hudson Railway.....	---	1	---	---	---	1	2	3	1	4	16
Denver And Rio Grande Western RR Co....	---	---	---	---	---	3	2	9	4	2	20
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	---	---	1	---	1
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	1	2	---	1	4
Elgin, Joliet And Eastern Railway Co...	---	1	---	---	---	1	2	3	2	1	8
Florida East Coast Railway Co.....	---	---	---	---	---	1	---	---	---	---	1
Grand Trunk Western Railroad Co.....	---	1	---	---	---	1	2	9	6	5	23
Illinois Central Gulf Railroad Co.....	---	1	1	---	---	2	14	28	12	12	84
Kansas City Southern Railway Co.....	---	---	---	---	---	1	6	10	5	---	22
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	1	---	2	1	1	5
Missouri Pacific Railroad Co.....	---	10	1	---	---	11	12	40	39	15	127
Missouri-Kansas-Texas Railroad Co.....	---	1	1	---	---	2	1	7	5	3	19
Norfolk And Western Railway Co.....	---	3	---	---	---	3	7	26	17	14	74
Pittsburg And Lake Erie Railroad Co....	---	---	---	1	---	1	3	1	2	---	7
Seaboard System Railroad.....	1	3	2	---	---	6	22	68	32	35	185
Sooline Railroad Company.....	---	---	---	1	---	1	5	12	9	4	43
Southern Pacific Transportation Co.....	---	4	1	---	---	5	21	57	36	20	154
Southern Railway Company.....	---	4	1	1	---	6	8	24	12	6	60
St. Louis Southwestern Railway Co.....	---	---	---	---	---	4	4	6	4	3	21
Union Pacific Railroad Co.....	---	2	---	---	---	2	21	44	28	20	144
Western Maryland Railway Company.....	---	---	---	---	---	---	1	1	---	2	4
Western Pacific Railroad Company.....	---	---	---	---	---	3	6	3	3	5	20
Total Class I Railroads.....	1	57	18	6	---	82	296	727	481	327	2,200
RECAPITULATION											
Class I Railroads.....	1	57	18	6	---	82	296	727	481	327	2,200
Class II Railroads.....	1	---	1	---	---	2	4	18	7	10	42
Class III Railroads.....	---	7	---	1	---	8	32	77	41	41	224
Total All Railroads.....	2	64	19	7	---	92	332	822	529	378	2,466

TABLE 40 (CONTINUED)

Railroad	.....Other Injuries.....								Total Injuries	
	Sprain/ Bruise	Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other		
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.....	5	14	8	---	---	---	---	2	29	33
Amtrak (National RR Passenger Corp)....	354	558	226	8	21	7	59	154	1,387	1,496
Atchison, Topeka And Santa Fe Rwy Co...	199	417	167	7	28	7	84	67	976	1,138
Baltimore And Ohio Railroad Co.....	178	394	152	---	16	8	62	53	863	972
Bessemer And Lake Erie Railroad Co.....	4	21	1	---	1	---	4	3	34	36
Boston And Maine Corporation.....	14	46	24	---	---	---	13	11	108	128
Burlington Northern Incorporated.....	380	1,086	406	4	27	19	132	125	2,179	2,430
Central Of Georgia Railroad Company....	17	67	26	---	2	---	---	3	115	120
Chesapeake And Ohio Railway Company....	199	427	144	4	16	5	76	75	946	1,056
Chicago And North Western.....	111	311	142	1	12	5	46	37	665	722
Chicago, Milw, St. Paul And Pacific....	68	208	35	1	3	4	10	24	353	393
Cincinnati, New Orleans And TX Pac Co..	9	15	16	---	3	1	2	---	46	53
Consolidated Rail Corporation.....	582	1,333	435	9	52	13	210	176	2,810	3,132
Delaware And Hudson Railway.....	22	47	12	---	2	---	8	10	101	118
Denver And Rio Grande Western RR Co....	10	34	12	1	1	2	8	3	71	91
Detroit, Toledo And Ironton RR Co.....	15	26	9	1	1	1	10	3	66	67
Duluth, Missabe And Iron Range Rwy Co..	11	23	8	---	1	1	9	7	60	64
Elgin, Joliet And Eastern Railway Co...	24	38	11	---	3	---	9	3	88	97
Florida East Coast Railway Co.....	2	7	14	---	---	---	---	2	25	26
Grand Trunk Western Railroad Co.....	68	197	41	---	5	3	37	34	385	409
Illinois Central Gulf Railroad Co.....	196	412	112	4	11	6	82	57	880	966
Kansas City Southern Railway Co.....	44	93	17	---	2	---	14	9	179	201
Louisiana And Arkansas Rwy Company....	7	20	6	---	2	---	4	8	47	52
Missouri Pacific Railroad Co.....	304	708	199	4	32	10	171	96	1,524	1,662
Missouri-Kansas-Texas Railroad Co.....	21	53	28	---	4	5	30	5	146	167
Norfolk And Western Railway Co.....	287	495	224	6	32	3	93	104	1,244	1,321
Pittsburg And Lake Erie Railroad Co....	10	38	5	---	5	---	6	8	72	80
Seaboard System Railroad.....	521	1,214	392	5	32	14	249	110	2,537	2,728
SooLine Railroad Company.....	63	151	34	2	1	5	14	19	289	333
Southern Pacific Transportation Co.....	410	887	246	4	25	10	148	76	1,806	1,965
Southern Railway Company.....	212	433	281	10	17	3	7	36	999	1,065
St. Louis Southwestern Railway Co.....	67	154	34	2	1	1	26	13	298	319
Union Pacific Railroad Co.....	267	660	190	3	19	5	88	63	1,295	1,441
Western Maryland Railway Company.....	8	31	7	---	---	---	---	2	48	52
Western Pacific Railroad Company.....	30	71	28	---	1	2	13	9	154	174
Total Class I Railroads.....	4,719	10,689	3,692	76	378	140	1,724	1,407	22,825	25,107
RECAPITULATION										
Class I Railroads.....	4,719	10,689	3,692	76	378	140	1,724	1,407	22,825	25,107
Class II Railroads.....	135	243	75	1	12	2	74	33	575	619
Class III Railroads.....	1,054	1,465	556	56	84	32	322	234	3,803	4,035
Total All Railroads.....	5,908	12,397	4,323	133	474	174	2,120	1,674	27,203	29,761

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	---	---	---	---	---	3	---	3	1.56	1,923,434
Amtrak (National RR Passenger Corp)	---	10	4	40	---	55	4	105	3.68	29,626,679
Atchison, Topeka And Santa Fe Rwy Co	---	3	---	7	2	11	2	21	.49	46,818,871
Baltimore And Ohio Railroad Co	---	8	---	4	---	3	---	15	1.04	14,336,364
Bessemer And Lake Erie Railroad Co	---	---	---	---	---	---	---	---	.00	420,743
Boston And Maine Corporation	---	---	---	1	---	---	---	1	.25	4,019,098
Burlington Northern Incorporated	1	8	2	16	8	17	11	41	.70	74,346,358
Central Of Georgia Railroad Company	---	---	---	---	---	1	---	1	.34	2,942,451
Chesapeake And Ohio Railway Company	---	---	---	---	---	1	---	1	.08	11,895,975
Chicago And North Western	---	1	---	8	1	5	1	14	.85	17,590,841
Chicago, Milw, St. Paul And Pacific	---	---	---	---	2	6	2	6	1.11	7,218,450
Cincinnati, New Orleans And TX Pac Co	---	---	---	---	---	---	---	---	.00	2,925,215
Consolidated Rail Corporation	1	16	---	15	4	3	5	34	.86	45,479,998
Delaware And Hudson Railway	---	---	---	2	---	---	---	2	.80	2,491,181
Denver And Rio Grande Western RR Co	---	1	---	---	---	---	---	1	.15	6,759,023
Detroit, Toledo And Ironton RR Co	---	---	---	---	---	---	---	---	.00	973,811
Duluth, Missabe And Iron Range Rwy Co	---	---	---	---	---	---	---	---	.00	632,072
Elgin, Joliet And Eastern Railway Co	---	---	---	---	---	---	---	---	.00	1,344,636
Florida East Coast Railway Co	---	---	---	---	---	---	---	---	.00	2,897,134
Grand Trunk Western Railroad Co	---	---	---	4	---	---	---	4	1.00	4,010,907
Illinois Central Gulf Railroad Co	---	4	---	4	---	4	---	12	.68	17,657,674
Kansas City Southern Railway Co	---	2	---	8	---	---	---	10	2.85	3,513,161
Louisiana And Arkansas Rwy Company	1	6	---	---	1	---	---	2	5.07	1,578,195
Missouri Pacific Railroad Co	---	6	2	14	3	2	5	22	.90	29,964,369
Missouri-Kansas-Texas Railroad Co	---	6	---	2	---	1	---	9	2.13	4,230,493
Norfolk And Western Railway Co	---	1	---	7	1	4	1	12	.70	18,648,679
Pittsburg And Lake Erie Railroad Co	---	---	---	---	---	---	---	---	.00	493,250
Seaboard System Railroad	2	4	---	4	8	15	10	23	.67	49,013,551
Sooline Railroad Company	---	---	---	2	---	4	---	6	1.23	4,869,310
Southern Pacific Transportation Co	4	14	---	12	1	15	5	41	1.33	34,634,693
Southern Railway Company	---	6	---	---	---	2	---	8	.44	18,029,108
St. Louis Southwestern Railway Co	---	3	---	3	1	10	1	16	2.63	6,471,440
Union Pacific Railroad Co	1	---	---	3	1	2	2	5	.22	32,406,148
Western Maryland Railway Company	---	---	---	---	---	---	---	---	.00	487,890
Western Pacific Railroad Company	---	---	---	8	---	---	---	8	2.31	3,456,802
Total Class I Railroads.....	10	99	8	164	33	164	51	427	.95	504,108,004
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	10	99	8	164	33	164	51	427	.95	504,108,004
Class II Railroads	---	7	---	---	2	28	2	35	3.61	10,244,175
Class III Railroads	1	10	---	15	2	15	3	40	.98	43,838,126
Total All Railroads.....	11	116	8	179	37	207	56	502	1.00	558,190,305

NOTE: "Rate" is the frequency per 1,000,000 train miles.
Injured column includes nonfatal occupational illnesses.

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

Railroad	I. Exec Office Staff II. Prof, Clerical, General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS									
Alabama Great Southern Railroad Co.....	---	1	---	---	11	---	---	3	---
Amtrak (National RR Passenger Corp)....	---	247	6	5	447	20	---	419	5
Atchison, Topeka And Santa Fe Rwy Co...	---	44	---	3	371	7	---	325	1
Baltimore And Ohio Railroad Co.....	---	44	---	---	340	---	---	145	---
Bessemer And Lake Erie Railroad Co.....	---	2	---	---	18	---	---	11	---
Boston And Maine Corporation.....	---	14	---	---	46	3	---	39	1
Burlington Northern Incorporated.....	---	140	2	1	935	20	1	473	13
Central Of Georgia Railroad Company....	---	3	---	1	16	2	---	11	1
Chesapeake And Ohio Railway Company....	---	71	---	---	410	1	---	212	3
Chicago And North Western.....	---	26	1	---	294	23	---	158	6
Chicago, Milw, St. Paul And Pacific....	---	26	---	---	149	---	---	58	---
Cincinnati, New Orleans And TX Pac Co..	---	4	---	---	8	---	---	11	---
Consolidated Rail Corporation.....	---	237	4	1	1,109	36	---	746	19
Delaware And Hudson Railway.....	---	5	---	---	40	---	---	21	---
Denver And Rio Grande Western RR Co....	---	7	---	---	35	---	---	11	---
Detroit, Toledo And Ironton RR Co.....	---	4	---	---	11	---	---	28	---
Duluth, Missabe And Iron Range Rwy Co..	---	1	---	---	29	---	---	19	---
Elgin, Joliet And Eastern Railway Co...	---	18	---	---	17	---	---	11	---
Florida East Coast Railway Co.....	---	---	---	---	14	---	---	5	---
Grand Trunk Western Railroad Co.....	---	36	---	---	49	2	---	121	1
Illinois Central Gulf Railroad Co.....	---	48	1	1	324	6	---	232	2
Kansas City Southern Railway Co.....	---	3	---	2	100	4	---	44	1
Louisiana And Arkansas Rwy Company....	---	1	---	1	9	---	---	5	---
Missouri Pacific Railroad Co.....	---	36	1	1	666	24	---	334	8
Missouri-Kansas-Texas Railroad Co.....	---	6	---	---	65	2	1	20	---
Norfolk And Western Railway Co.....	---	64	---	---	624	11	1	343	1
Pittsburg And Lake Erie Railroad Co....	---	5	---	---	13	---	---	50	---
Seaboard System Railroad.....	---	87	---	1	941	18	---	485	5
Sooline Railroad Company.....	---	10	---	---	121	3	---	65	---
Southern Pacific Transportation Co.....	---	217	12	1	539	23	---	405	29
Southern Railway Company.....	---	50	---	1	276	1	1	371	8
St. Louis Southwestern Railway Co.....	---	33	1	---	95	1	---	57	1
Union Pacific Railroad Co.....	---	125	---	1	504	6	1	276	10
Western Maryland Railway Company.....	---	2	---	---	16	1	---	1	---
Western Pacific Railroad Company.....	---	8	---	1	106	12	---	18	1
Total Class I Railroads.....	---	1,625	28	21	8,748	226	5	5,533	116
RECAPITULATION									
Class I Railroads.....	---	1,625	28	21	8,748	226	5	5,533	116
Class II Railroads.....	---	26	---	---	185	4	1	172	4
Class III Railroads.....	---	276	10	2	1,438	83	1	1,009	10
Total All Railroads.....	---	1,927	38	23	10,371	313	7	6,714	130

TABLE 42 (CONTINUED)

Railroad	V. Transportation Not train,engine,yard			Via Transportation Ydmstrs,Swtch Tender,Host.			Vib Transportation Train and Engine		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS									
Alabama Great Southern Railroad Co.....	---	---	---	---	---	---	---	18	---
Amtrak (National RR Passenger Corp)....	---	324	3	---	9	---	---	50	---
Atchison, Topeka And Santa Fe Rwy Co...	---	2	---	---	8	---	1	388	---
Baltimore And Ohio Railroad Co.....	---	8	---	---	9	---	2	426	3
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---	5	---
Boston And Maine Corporation.....	---	---	---	---	---	---	---	29	---
Burlington Northern Incorporated.....	---	25	---	---	34	---	4	823	10
Central Of Georgia Railroad Company....	---	6	---	---	---	---	---	84	1
Chesapeake And Ohio Railway Company....	---	19	---	---	10	---	1	334	1
Chicago And North Western.....	---	10	1	---	10	---	---	224	1
Chicago, Milw, St. Paul And Pacific....	---	---	---	---	2	---	---	158	1
Cincinnati, New Orleans And TX Pac Co..	---	---	1	---	1	---	---	29	---
Consolidated Rail Corporation.....	---	68	---	---	25	---	1	947	23
Delaware And Hudson Railway.....	---	1	---	---	1	---	---	50	1
Denver And Rio Grande Western RR Co....	---	---	---	---	1	---	---	37	---
Detroit, Toledo And Ironton RR Co.....	---	2	---	---	---	---	---	22	---
Duluth, Missabe And Iron Range Rwy Co..	---	1	---	---	---	---	---	14	---
Elgin, Joliet And Eastern Railway Co...	---	2	---	---	1	---	---	48	1
Florida East Coast Railway Co.....	---	1	---	---	1	---	---	5	---
Grand Trunk Western Railroad Co.....	---	6	---	---	1	---	---	196	1
Illinois Central Gulf Railroad Co.....	---	3	---	---	3	---	---	356	10
Kansas City Southern Railway Co.....	---	---	---	---	2	---	---	52	---
Louisiana And Arkansas Rwy Company.....	---	---	---	---	---	---	1	37	---
Missouri Pacific Railroad Co.....	---	8	---	---	37	1	5	581	4
Missouri-Kansas-Texas Railroad Co.....	---	1	---	---	36	---	---	39	---
Norfolk And Western Railway Co.....	---	11	---	---	8	---	---	271	7
Pittsburg And Lake Erie Railroad Co....	---	1	---	---	---	---	---	11	---
Seaboard System Railroad.....	---	41	1	---	76	---	3	1,098	8
Sooline Railroad Company.....	---	4	---	---	2	---	---	131	1
Southern Pacific Transportation Co.....	---	10	---	---	35	---	7	759	32
Southern Railway Company.....	---	34	1	---	2	---	---	332	3
St. Louis Southwestern Railway Co.....	---	1	---	---	2	---	---	131	3
Union Pacific Railroad Co.....	---	21	1	---	31	---	2	484	4
Western Maryland Railway Company.....	---	---	---	---	---	---	---	33	---
Western Pacific Railroad Company.....	---	---	---	---	---	---	---	42	1
Total Class I Railroads.....	---	610	8	---	347	1	27	8,244	116
RECAPITULATION									
Class I Railroads.....	---	610	8	---	347	1	27	8,244	116
Class II Railroads.....	---	3	---	---	3	---	1	230	15
Class III Railroads.....	---	177	1	---	26	---	3	1,109	33
Total All Railroads.....	---	790	9	---	376	1	31	9,583	164

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.....	---	A	33	A	---	A	33	A	A
Amtrak (National RR Passenger Corp)....	5	0.03	1,496	8.02	34	0.18	1,535	8.23	37,315,175
Atchison, Topeka And Santa Fe Rwy Co... 4	0.02	1,138	4.94	8	0.03	1,150	4.99	46,068,622	
Baltimore And Ohio Railroad Co.....	2	0.02	972	8.11	3	0.03	977	8.15	23,975,711
Bessemer And Lake Erie Railroad Co.....	---	0.00	36	5.15	---	0.00	36	5.15	1,397,642
Boston And Maine Corporation.....	---	0.00	128	4.87	4	0.15	132	5.02	5,260,525
Burlington Northern Incorporated.....	6	0.02	2,430	6.15	45	0.11	2,481	6.28	79,032,441
Central Of Georgia Railroad Company....	1	A	120	A	4	A	125	A	A
Chesapeake And Ohio Railway Company....	1	0.01	1,056	7.32	5	0.03	1,062	7.36	28,858,155
Chicago And North Western.....	---	0.00	722	6.22	32	0.28	754	6.49	23,228,681
Chicago, Milw, St. Paul And Pacific....	---	0.00	393	8.32	1	0.02	394	8.34	9,443,181
Cincinnati, New Orleans And TX Pac Co..	---	A	53	A	1	A	54	A	A
Consolidated Rail Corporation.....	2	0.01	3,132	8.29	82	0.22	3,216	8.51	75,571,835
Delaware And Hudson Railway.....	---	0.00	118	9.14	1	0.08	119	9.22	2,581,799
Denver And Rio Grande Western RR Co....	---	0.00	91	2.89	---	0.00	91	2.89	6,290,269
Detroit, Toledo And Ironton RR Co.....	---	0.00	67	8.71	---	0.00	67	8.71	1,538,350
Duluth, Missabe And Iron Range Rwy Co..	---	0.00	64	7.19	---	0.00	64	7.19	1,779,327
Elgin, Joliet And Eastern Railway Co...	---	0.00	97	6.76	1	0.07	98	6.83	2,869,397
Florida East Coast Railway Co.....	---	0.00	26	2.49	---	0.00	26	2.49	2,086,498
Grand Trunk Western Railroad Co.....	---	0.00	409	11.87	4	0.12	413	11.99	6,890,852
Illinois Central Gulf Railroad Co.....	1	0.01	966	8.89	19	0.17	986	9.07	21,730,716
Kansas City Southern Railway Co.....	2	0.08	201	7.77	5	0.19	208	8.04	5,171,380
Louisiana And Arkansas Rwy Company....	2	B	52	B	---	B	54	B	B
Missouri Pacific Railroad Co.....	6	0.04	1,662	10.29	38	0.24	1,706	10.57	32,289,222
Missouri-Kansas-Texas Railroad Co.....	1	0.04	167	6.73	2	0.08	170	6.86	4,959,321
Norfolk And Western Railway Co.....	1	0.01	1,321	8.07	19	0.12	1,341	8.19	32,742,749
Pittsburg And Lake Erie Railroad Co....	---	0.00	80	8.24	---	0.00	80	8.24	1,942,297
Seaboard System Railroad.....	4	0.01	2,728	9.68	32	0.11	2,764	9.80	56,387,211
Sooline Railroad Company.....	---	0.00	333	9.77	4	0.12	337	9.88	6,820,247
Southern Pacific Transportation Co.....	8	0.03	1,965	7.92	96	0.39	2,069	8.34	49,636,074
Southern Railway Company.....	2	0.01	1,065	6.68	13	0.08	1,080	6.78	31,864,864
St. Louis Southwestern Railway Co.....	---	0.00	319	9.82	6	0.18	325	10.01	6,495,728
Union Pacific Railroad Co.....	4	0.02	1,441	7.31	21	0.11	1,466	7.44	39,430,157
Western Maryland Railway Company.....	---	C	52	C	1	C	53	C	C
Western Pacific Railroad Company.....	1	0.05	174	9.42	14	0.76	189	10.23	3,695,481
Total Class I Railroads.....	53	0.02	25,107	7.76	495	0.15	25,655	7.93	647,353,907
Class I Railroads	53	0.02	25,107	7.76	495	0.15	25,655	7.93	647,353,907
Class II Railroads	2	0.04	619	12.40	23	0.46	644	12.90	9,982,855
Class III Railroads.....	6	0.02	4,035	11.11	137	0.38	4,178	11.50	72,664,722
Total All Railroads.....	61	0.02	29,761	8.15	655	0.18	30,477	8.35	730,001,484

NOTE: Manhours for Class I railroads were obtained from the Interstate Commerce Commission.

"Rate" is the frequency per 200,000 manhours

"A" - Included in Southern Railway Company.

"B" - Included in Kansas City Southern Railway Company.

"C" - Included in Baltimore And Ohio Railroad Company.

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.....	33	15	9	6	191	38	18
Amtrak (National RR Passenger Corp).....	1,496	1,048	832	216	9,983	1,025	448
Atchison, Topeka And Santa Fe Rwy Co.....	1,138	713	534	179	6,621	3,489	425
Baltimore And Ohio Railroad Co.....	972	693	250	443	3,541	4,803	279
Bessemer And Lake Erie Railroad Co.....	36	17	16	1	333	8	19
Boston And Maine Corporation.....	128	77	71	6	1,537	44	51
Burlington Northern Incorporated.....	2,430	1,474	1,422	52	11,763	469	956
Central Of Georgia Railroad Company.....	120	48	42	6	783	31	72
Chesapeake And Ohio Railway Company.....	1,056	752	299	453	3,616	4,774	304
Chicago And North Western.....	722	474	277	197	5,037	1,614	248
Chicago, Milw, St. Paul And Pacific.....	393	360	343	17	4,692	157	33
Cincinnati, New Orleans And TX Pac Co.....	53	23	13	10	250	127	30
Consolidated Rail Corporation.....	3,132	2,280	869	1,411	29,825	19,248	852
Delaware And Hudson Railway.....	118	93	88	5	2,498	43	25
Denver And Rio Grande Western RR Co.....	91	67	67	---	1,483	---	24
Detroit, Toledo And Ironton RR Co.....	67	20	7	13	190	169	47
Duluth, Missabe And Iron Range Rwy Co.....	64	35	22	13	405	85	29
Elgin, Joliet And Eastern Railway Co.....	97	66	66	---	800	---	31
Florida East Coast Railway Co.....	26	16	6	10	66	112	10
Grand Trunk Western Railroad Co.....	409	268	103	165	2,283	3,044	141
Illinois Central Gulf Railroad Co.....	966	669	246	423	4,957	7,485	297
Kansas City Southern Railway Co.....	201	194	194	---	3,039	---	7
Louisiana And Arkansas Rwy Company.....	52	49	49	---	1,048	---	3
Missouri Pacific Railroad Co.....	1,662	1,111	559	552	14,941	5,423	551
Missouri-Kansas-Texas Railroad Co.....	167	92	90	2	998	54	75
Norfolk And Western Railway Co.....	1,321	476	464	12	9,168	47	845
Pittsburg And Lake Erie Railroad Co.....	80	33	33	---	1,078	---	47
Seaboard System Railroad.....	2,728	1,930	524	1,406	7,726	13,827	798
Sooline Railroad Company.....	333	275	258	17	2,621	406	58
Southern Pacific Transportation Co.....	1,965	1,267	759	508	13,711	5,594	698
Southern Railway Company.....	1,065	498	225	273	4,032	2,356	567
St. Louis Southwestern Railway Co.....	319	229	77	152	1,387	1,453	90
Union Pacific Railroad Co.....	1,441	907	376	531	5,650	5,710	534
Western Maryland Railway Company.....	52	43	11	32	227	355	9
Western Pacific Railroad Company.....	174	141	124	17	2,296	220	33
Total Class I Railroads.....	25,107	16,453	9,325	7,128	158,776	82,210	8,654
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.....	27	15	15	---	297	---	12
Canadian Pacific Lines In Maine.....	4	3	1	2	30	24	1
Carolina And Northwestern Rwy Company.....	7	4	4	---	15	---	3
Central Vermont Railway Inc.....	10	6	6	---	173	---	4
Chicago And Illinois Midland Rwy Co.....	50	35	34	1	430	1	15
Chicago South Shore And South Bend RR.....	17	17	17	---	88	---	---
Duluth, Winnipeg And Pacific Rwy Co.....	9	8	3	5	45	55	1
Georgia Southern And Florida Railway.....	37	13	10	3	306	18	24
Green Bay And Western Railroad.....	33	31	30	1	299	8	2
Maine Central Railroad Company.....	87	73	67	6	768	39	14
Michigan Interstate Railroad.....	4	4	4	---	37	---	---
Monogahela Railway.....	20	16	16	---	214	---	4
Northwestern Pacific Railroad.....	28	22	16	6	201	55	6
Providence and Worcester Railroad Co.....	18	13	9	4	26	78	5
Richmond, Frederickburg And Potomac.....	126	76	74	2	937	79	50
Spokane International Railroad.....	8	7	1	6	3	68	1
Texas And Northern Railway Company.....	3	2	2	---	8	35	1
Texas, Mexican Railway Company.....	125	52	50	2	802	30	73
Toledo, Peoria And Western Railroad.....	6	5	5	---	28	---	1
Total Class II Railroads.....	619	402	364	38	4,707	490	217
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	25,107	16,453	9,325	7,128	158,776	82,210	8,654
Class II Railroads.....	619	402	364	38	4,707	490	217
Class III Railroads.....	4,035	2,897	2,577	320	37,022	3,345	1,138
Total All Railroads.....	29,761	19,752	12,266	7,486	200,505	86,045	10,009

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

Railroad	Total Cases	Fatalities	Total Injuries	Injuries Reported For Following Reasons.				Occupational Illness
				Days Away From Work	Restricted Activity	Medication	Other	
CLASS I RAILROADS								
Alabama Great Southern Railroad Co.....	33	---	33	9	6	1	17	---
Amtrak (National RR Passenger Corp).....	1,535	5	1,496	832	216	112	336	34
Atchison, Topeka And Santa Fe Rwy Co....	1,150	4	1,138	534	179	160	265	8
Baltimore And Ohio Railroad Co.....	977	2	972	250	443	22	257	3
Bessemer And Lake Erie Railroad Co.....	36	---	36	16	1	8	11	---
Boston And Maine Corporation.....	132	---	128	71	6	10	41	4
Burlington Northern Incorporated.....	2,481	6	2,430	1,422	52	308	648	45
Central Of Georgia Railroad Company.....	125	1	120	42	6	5	67	4
Chesapeake And Ohio Railway Company.....	1,062	1	1,056	299	453	51	253	5
Chicago And North Western.....	754	---	722	277	197	118	130	32
Chicago, Milw, St. Paul And Pacific.....	394	---	393	343	17	26	7	1
Cincinnati, New Orleans And TX Pac Co...	54	---	53	13	10	---	30	1
Consolidated Rail Corporation.....	3,216	2	3,132	869	1,411	304	548	82
Delaware And Hudson Railway.....	119	---	118	88	5	6	19	1
Denver And Rio Grande Western RR Co....	91	---	91	67	---	---	24	---
Detroit, Toledo And Ironton RR Co.....	67	---	67	7	13	---	47	---
Duluth, Missabe And Iron Range Rwy Co...	64	---	64	22	13	16	13	---
Elgin, Joliet And Eastern Railway Co....	98	---	97	66	---	---	31	1
Florida East Coast Railway Co.....	26	---	26	6	10	3	7	---
Grand Trunk Western Railroad Co.....	413	---	409	103	165	44	97	4
Illinois Central Gulf Railroad Co.....	986	1	966	246	423	186	111	19
Kansas City Southern Railway Co.....	208	2	201	194	---	2	5	5
Louisiana And Arkansas Rwy Company.....	54	2	52	49	---	1	2	---
Missouri Pacific Railroad Co.....	1,706	6	1,662	559	552	152	399	38
Missouri-Kansas-Texas Railroad Co.....	170	1	167	90	2	19	56	2
Norfolk And Western Railway Co.....	1,341	1	1,321	464	12	84	761	19
Pittsburg And Lake Erie Railroad Co.....	80	---	80	33	---	40	7	---
Seaboard System Railroad.....	2,764	4	2,728	524	1,406	55	743	32
Sooline Railroad Company.....	337	---	333	258	17	20	38	4
Southern Pacific Transportation Co.....	2,069	8	1,965	759	508	---	698	96
Southern Railway Company.....	1,080	2	1,065	225	273	28	539	13
St. Louis Southwestern Railway Co.....	325	---	319	77	152	---	90	6
Union Pacific Railroad Co.....	1,466	4	1,441	376	531	219	315	21
Western Maryland Railway Company.....	53	---	52	11	32	---	9	1
Western Pacific Railroad Company.....	189	1	174	124	17	3	30	14
Total Class I Railroads.....	25,655	53	25,107	9,325	7,128	2,003	6,651	495
RECAPITULATION								
Class I Railroads.....	25,655	53	25,107	9,325	7,128	2,003	6,651	495
Class II Railroads.....	644	2	619	364	38	54	163	23
Class III Railroads.....	4,178	6	4,035	2,577	320	169	969	137
Total All Railroads.....	30,477	61	29,761	12,266	7,486	2,226	7,783	655

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7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

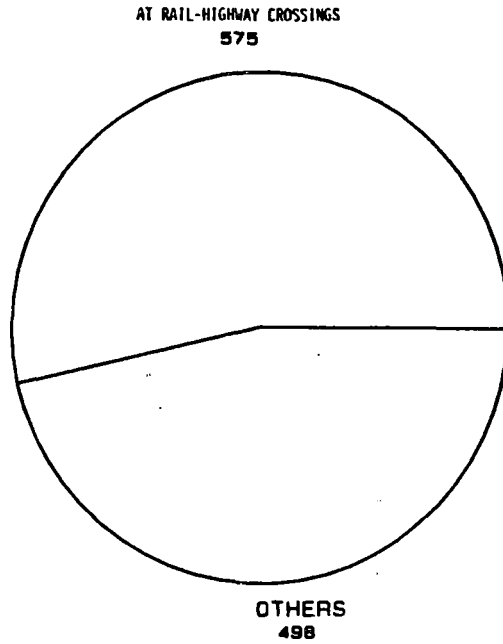


FIGURE 28. FATALITIES IN 1982: RAIL-HIGHWAY CROSSINGS AND OTHER

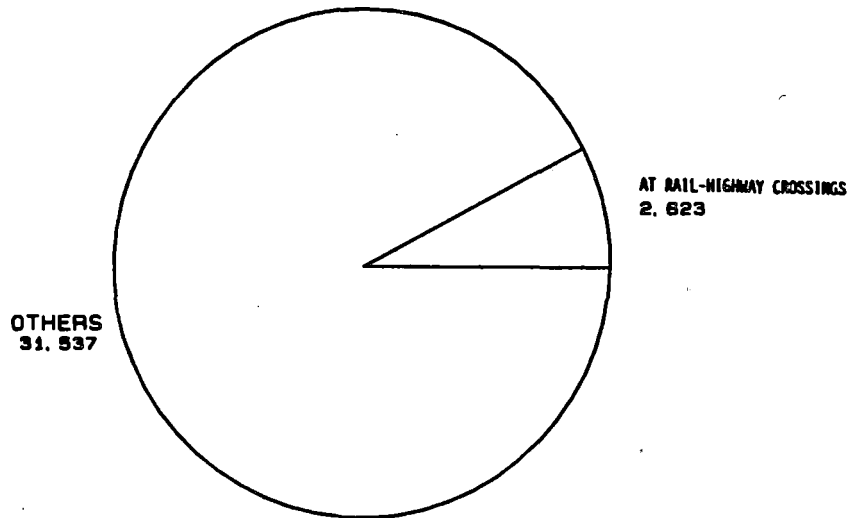


FIGURE 29. INJURIES IN 1982: RAIL-HIGHWAY CROSSINGS AND OTHER

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

Type Of Accident/Incident	Total A/I W. Cas	Fatal A/I	Total Killed	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers	
				Trainmen	Other	Total				
TRAIN ACCIDENTS										
Class I Railroads.....	148	10	18	13	1	14	---	4	---	
Class II Railroads.....	2	---	---	---	---	---	---	---	---	
Class III Railroads.....	16	1	1	---	1	1	---	---	---	
Total All Railroads.....	166	11	19	13	2	15	---	4	---	
TRAIN INCIDENTS										
Class I Railroads.....	4,804	374	380	11	8	19	1	---	19	341
Class II Railroads.....	140	5	5	1	1	2	---	---	---	3
Class III Railroads.....	601	47	47	2	1	3	---	---	5	39
Total All Railroads.....	5,545	426	432	14	10	24	1	---	24	383
NONTRAIN INCIDENTS										
Class I Railroads.....	21,845	33	35	2	17	19	1	---	5	10
Class II Railroads.....	503	1	1	---	---	---	---	---	---	1
Class III Railroads.....	4,068	11	11	1	1	2	1	---	2	6
Total All Railroads.....	26,416	45	47	3	18	21	2	---	7	17
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,128	433	535	1	---	1	---	---	474	60
Class II Railroads.....	42	12	13	---	---	---	---	---	10	3
Class III Railroads.....	128	25	27	---	---	---	---	---	18	9
Total All Railroads.....	2,298	470	575	1	---	1	---	---	502	72
GRAND TOTAL										
Class I Railroads.....	28,925	850	968	27	26	53	2	4	498	411
Class II Railroads.....	687	18	19	1	1	2	---	---	10	7
Class III Railroads.....	4,813	84	86	3	3	6	1	---	25	54
Total All Railroads.....	34,425	952	1,073	31	30	61	3	4	533	472

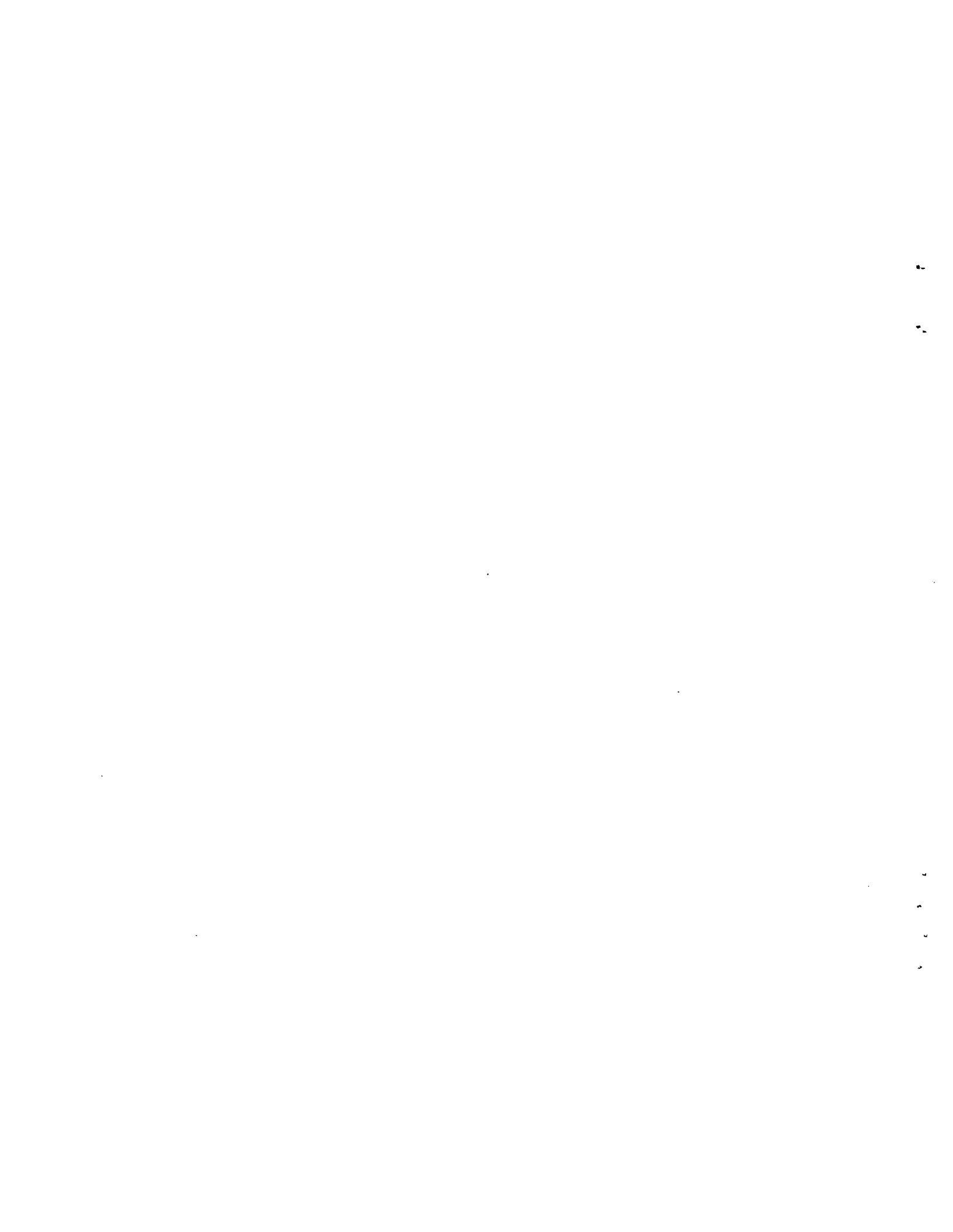
NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

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

Type Of Accident/Incident	Total		Total Injured	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers		
	A/I	W. Cas		A/I	Trainmen					Other	
TRAIN ACCIDENTS											
Class I Railroads.....	148		137	319	208	60	268	1	36	14	---
Class II Railroads.....	2		2	7	---	7	7	---	---	---	---
Class III Railroads.....	16		14	27	15	3	18	---	8	1	---
Total All Railroads.....	166		153	353	223	70	293	1	44	15	---
TRAIN INCIDENTS											
Class I Railroads.....	4,804		4,388	4,494	3,284	694	3,978	6	79	43	388
Class II Railroads.....	140		133	133	115	12	127	---	4	---	2
Class III Railroads.....	601		548	555	382	89	471	3	42	8	31
Total All Railroads.....	5,545		5,069	5,182	3,781	795	4,576	9	125	51	421
NONTRAIN INCIDENTS											
Class I Railroads.....	21,845		21,405	21,565	4,676	16,074	20,750	350	151	262	52
Class II Railroads.....	503		490	490	115	369	484	3	2	1	---
Class III Railroads.....	4,068		3,934	3,947	706	2,830	3,536	26	135	227	23
Total All Railroads.....	26,416		25,829	26,002	5,497	19,273	24,770	379	288	490	75
RAIL-HIGHWAY CROSSING (Excluded from above categories)											
Class I Railroads.....	2,128		1,695	2,421	76	35	111	3	21	2,121	165
Class II Railroads.....	42		30	65	---	1	1	---	23	33	8
Class III Railroads.....	128		103	137	6	4	10	---	1	112	14
Total All Railroads.....	2,298		1,828	2,623	82	40	122	3	45	2,266	187
GRAND TOTAL											
Class I Railroads.....	28,925		27,625	28,799	8,244	16,863	25,107	360	287	2,440	605
Class II Railroads.....	687		655	695	230	389	619	3	29	34	10
Class III Railroads.....	4,813		4,599	4,666	1,109	2,926	4,035	29	186	348	68
Total All Railroads.....	34,425		32,879	34,160	9,583	20,178	29,761	392	502	2,822	683

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.....	148	1	1	1	---	1	---	---	---
Class II Railroads.....	2	---	---	---	---	---	---	---	---
Class III Railroads.....	16	1	1	1	---	1	---	---	---
Total All Railroads.....	166	2	2	2	---	2	---	---	---
TRAIN INCIDENTS									
Class I Railroads.....	14,804	42	55	52	3	55	---	---	---
Class II Railroads.....	140	2	4	4	---	4	---	---	---
Class III Railroads.....	601	6	6	6	---	6	---	---	---
Total All Railroads.....	5,545	50	65	62	3	65	---	---	---
NONTRAIN INCIDENTS									
Class I Railroads.....	21,845	407	443	63	376	439	3	---	1
Class II Railroads.....	503	12	19	11	8	19	---	---	---
Class III Railroads.....	4,068	123	130	26	104	130	---	---	---
Total All Railroads.....	26,416	542	592	100	488	588	3	---	1
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	2,128	---	---	---	---	---	---	---	---
Class II Railroads.....	42	---	---	---	---	---	---	---	---
Class III Railroads.....	128	---	---	---	---	---	---	---	---
Total All Railroads.....	2,298	---	---	---	---	---	---	---	---
GRAND TOTAL									
Class I Railroads.....	28,925	450	499	116	379	495	3	---	1
Class II Railroads.....	687	14	23	15	8	23	---	---	---
Class III Railroads.....	4,813	130	137	33	104	137	---	---	---
Total All Railroads.....	34,425	594	659	164	491	655	3	---	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.....	---	---	---	---	---	---	3	1	4	---	7	15
Derailments.....	---	---	---	---	---	---	2	---	3	---	16	21
Rail-highway x-ing.....	---	---	---	---	---	---	1	---	5	---	11	17
Miscellaneous.....	---	---	---	---	---	---	---	---	2	---	2	4
Total.....	---	---	---	---	---	---	6	1	14	---	36	57
TRAIN INCIDENTS												
Coupling and uncoupling locomotives....	2	1	---	---	---	3	4	13	3	---	3	23
Coupling/uncoupling air/steam hose.....	---	1	---	---	---	1	1	1	---	1	1	4
Operating or on locomotives.....	---	---	---	---	---	---	2	11	4	2	11	30
Operating rail motorcars.....	---	---	---	---	---	---	2	---	1	1	---	4
Operating hand brakes.....	---	---	3	1	---	4	1	3	5	---	5	14
Operating switches or derails.....	---	---	---	---	---	---	---	---	---	---	---	---
Contacting fixed objects while on loco.	---	---	1	1	---	2	1	1	2	---	5	9
Getting on or off cars or locomotives..	2	3	35	9	---	49	22	7	46	1	20	96
Collisions, derailments, etc.....	---	---	2	2	---	4	1	---	3	---	6	10
Rail-highway crossing accidents/incide.	1	---	3	---	---	4	46	6	79	3	190	324
Struck by/ran into loco/car(not at rr-)	17	4	65	6	1	93	16	4	41	3	36	100
Servicing or maintenance of equipment..	---	---	2	---	---	2	2	3	11	2	4	22
Maintenance of way and structures.....	---	3	2	---	---	5	1	5	12	3	9	30
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	2	---	1	---	3
Windows, doors, etc., on on-track equi.	---	2	---	---	---	2	6	8	---	2	1	17
Passenger car doors.....	---	---	---	---	---	---	---	2	---	---	---	2
Stumbling, slipping, falling, caught,..	1	1	1	1	---	4	1	3	6	2	8	20
Flying or falling objects, burns, etc..	---	---	---	---	---	---	---	---	---	1	---	1
Operation of on-track work equipment...	---	2	---	---	---	2	4	8	7	4	6	29
Assault.....	---	---	---	---	---	---	---	---	---	---	5	5
Other occurrences.....	---	2	1	---	---	3	8	16	11	1	24	60
Total.....	23	19	115	20	1	178	118	93	231	27	334	803
NONTRAIN INCIDENTS												
Coupling and uncoupling locomotives....	---	1	---	---	---	1	4	13	3	10	5	35
Coupling/uncoupling air/steam hose.....	---	---	1	---	---	1	3	5	3	1	7	19
Operating or on locomotives.....	---	1	---	---	---	1	1	7	1	---	7	16
Operating rail motorcars.....	---	---	---	---	---	---	1	1	1	---	1	4
Operating hand brakes.....	---	---	1	---	---	1	5	7	2	2	5	21
Operating switches or derails.....	---	1	---	---	---	1	8	15	5	18	4	50
Contacting fixed objects while on loco.	---	---	---	---	---	---	---	1	---	---	2	3
Getting on or off cars or locomotives..	---	---	1	---	---	1	23	7	42	8	26	106
Collisions, derailments, etc.....	---	---	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide.	---	---	---	---	---	---	---	---	6	---	6	12
Struck by/ran into loco/car(not at rr-)	---	1	1	1	---	3	---	---	3	1	1	5
Servicing or maintenance of equipment..	1	15	---	---	---	16	66	226	87	98	49	526
Maintenance of way and structures.....	---	29	1	2	---	32	95	376	193	170	108	942
Freight, baggage, express or mail.....	---	---	---	---	---	---	1	4	2	2	1	10
Windows, doors, etc., on on-track equi.	---	2	---	---	---	2	14	41	2	6	5	68
Passenger car doors.....	---	---	---	---	---	---	---	2	---	---	---	2
Stumbling, slipping, falling, caught,..	---	---	---	---	---	---	71	17	119	14	54	275
Flying or falling objects, burns, etc..	---	---	---	---	---	---	4	3	5	13	1	26
Operation of on-track work equipment...	---	---	---	---	---	---	2	6	2	1	3	14
Assault.....	---	---	---	---	---	---	3	4	1	1	5	14
Other occurrences.....	---	3	---	---	---	3	22	28	25	19	51	145
Total.....	1	53	5	3	---	62	323	763	502	364	341	2,293
Grand Total.....	24	72	120	23	1	240	447	857	747	391	711	3,153

TABLE 49 (CONTINUED)

Type of Accident/Incident	Other Injuries								Total Injured	
	Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye	Other		
TRAIN ACCIDENTS										
Collisions.....	32	38	18	---	1	4	---	8	101	116
Derailments.....	61	61	14	---	---	2	---	19	157	178
Rail-highway x-ing.....	40	34	12	---	---	---	---	44	130	147
Miscellaneous.....	25	21	3	---	---	1	---	5	55	59
Total.....	158	154	47	---	1	7	---	76	443	500
TRAIN INCIDENTS										
Coupling and uncoupling locomotives....	64	154	23	---	1	2	7	7	258	284
Coupling/uncoupling air/steam hose.....	16	6	6	---	---	---	1	1	30	35
Operating or on locomotives.....	115	130	52	3	4	2	284	22	612	642
Operating rail motorcars.....	7	7	5	---	2	2	---	---	23	27
Operating hand brakes.....	32	37	8	---	---	1	3	3	84	102
Operating switches or derails.....	6	9	3	---	---	1	2	1	22	22
Contacting fixed objects while on loco.	53	18	21	---	---	1	---	2	95	106
Getting on or off cars or locomotives..	247	624	95	---	---	17	5	25	1,013	1,158
Collisions, derailments, etc.....	42	57	16	---	---	---	---	11	126	140
Rail-highway crossing accidents/incide.	695	203	685	---	4	15	1	464	2,067	2,395
Struck by/ran into loco/car(not at rr-)	69	19	80	---	1	---	1	34	204	397
Servicing or maintenance of equipment..	24	34	17	---	---	---	4	---	79	103
Maintenance of way and structures.....	53	33	29	---	---	1	---	5	121	156
Freight, baggage, express or mail.....	4	5	2	---	---	---	---	1	12	15
Windows, doors, etc., on on-track equi.	44	24	31	---	---	1	6	2	108	127
Passenger car doors.....	3	---	---	---	---	---	---	1	4	6
Stumbling, slipping, falling, caught,..	81	94	27	---	1	3	---	4	210	234
Flying or falling objects, burns, etc..	30	3	116	4	29	1	366	25	574	575
Operation of on-track work equipment...	84	63	51	---	---	1	2	13	214	245
Assault.....	33	7	43	---	---	---	14	9	106	111
Other occurrences.....	261	234	88	1	3	7	10	30	634	697
Total.....	1,963	1,761	1,398	8	45	55	706	660	6,596	7,577
NONTRAIN INCIDENTS										
Coupling and uncoupling locomotives....	109	426	56	---	1	3	6	27	628	664
Coupling/uncoupling air/steam hose.....	78	128	58	---	---	1	16	8	289	309
Operating or on locomotives.....	78	144	46	4	9	1	58	23	363	380
Operating rail motorcars.....	13	56	3	---	---	---	---	4	76	80
Operating hand brakes.....	89	236	33	---	---	4	7	13	382	404
Operating switches or derails.....	121	927	24	1	---	10	15	33	1,131	1,182
Contacting fixed objects while on loco.	7	6	11	---	1	---	1	---	26	29
Getting on or off cars or locomotives..	285	645	132	---	1	10	7	34	1,114	1,221
Collisions, derailments, etc.....	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide.	19	4	23	---	---	---	---	23	69	81
Struck by/ran into loco/car(not at rr-)	3	5	7	---	---	---	---	2	17	25
Servicing or maintenance of equipment..	1,067	2,145	1,110	73	237	23	493	266	5,414	5,956
Maintenance of way and structures.....	1,650	3,883	1,628	38	146	41	474	494	8,354	9,328
Freight, baggage, express or mail.....	73	105	22	---	---	---	1	12	213	223
Windows, doors, etc., on on-track equi.	126	143	111	---	---	1	7	10	398	468
Passenger car doors.....	24	4	6	---	---	---	---	3	37	39
Stumbling, slipping, falling, caught,..	633	1,317	261	---	1	24	3	59	2,298	2,573
Flying or falling objects, burns, etc..	77	9	97	22	30	2	310	91	638	664
Operation of on-track work equipment...	30	66	14	1	3	---	1	4	119	133
Assault.....	71	43	47	---	1	3	3	22	190	204
Other occurrences.....	379	729	304	2	13	17	40	488	1,972	2,120
Total.....	4,932	11,021	3,993	141	443	140	1,442	1,616	23,728	26,083
Grand Total.....	7,053	12,936	5,438	149	489	202	2,148	2,352	30,767	34,160

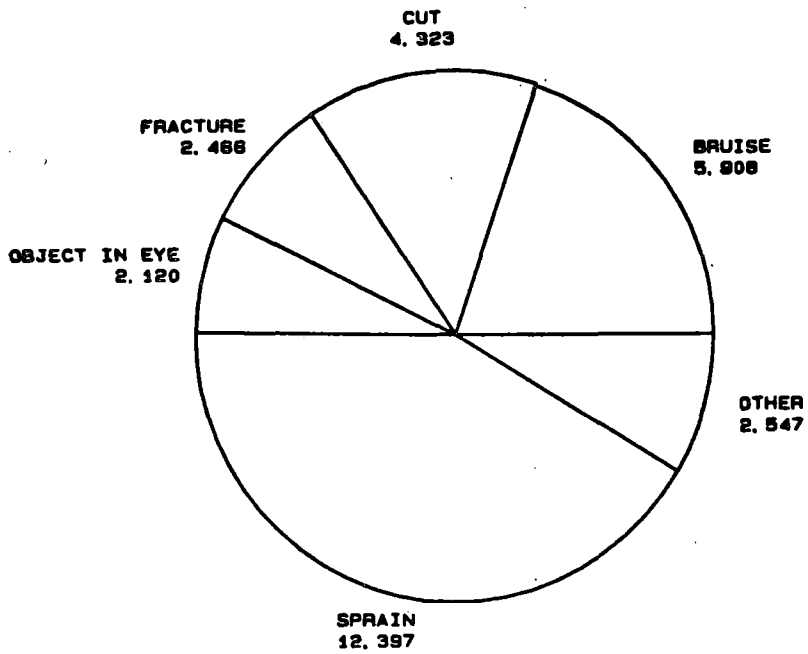
TABLE 50

NATURE OF INJURIES BY TYPE OF PERSON

Type Person	Amputations					Fractures						
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other	Arm/ Hand	Finger	Leg/ Foot	Toe	Other		
EMPLOYEES ON DUTY												
YARD SERVICE:												
Engineers and Motormen.....	---	1	---	---	---	1	3	6	1	3	11	24
Firemen and Helpers....	---	---	---	---	---	2	2	---	1	2	7	7
Conductors and Foremen....	---	2	1	---	---	3	6	20	8	15	47	47
Brakemen and Helpers....	---	3	3	1	---	7	30	32	34	22	29	147
Total.....	---	4	5	2	---	11	41	60	53	57	245	245
FREIGHT SERVICE:												
Engineers and Motormen.....	---	1	---	---	---	1	5	6	6	4	7	28
Firemen and Helpers....	---	---	---	---	---	---	1	2	---	1	4	4
Conductors and Foremen....	1	2	1	2	---	6	13	7	21	10	29	80
Brakemen and Helpers....	---	4	4	1	---	9	28	48	59	13	46	184
Total.....	1	7	5	3	---	16	46	62	78	27	83	296
PASSENGER SERVICE:												
Engineers and Motormen.....	---	---	---	---	---	1	---	3	1	---	5	5
Firemen and Helpers....	---	---	---	---	---	---	4	1	1	5	13	13
Conductors and Foremen....	---	---	---	---	---	---	---	---	1	---	1	1
Brakemen and Helpers....	---	---	---	---	---	2	2	1	1	1	7	7
Total.....	---	---	---	---	---	3	6	5	4	6	26	26
BOTTLERS.....	---	---	1	---	---	1	2	1	1	2	1	7
--SUMMARY--												
Total employees on												
Employees not on duty..	---	---	---	---	---	13	6	25	2	11	57	57
Passengers.....	---	1	2	---	---	3	15	8	22	2	22	70
Not respondents.....	1	2	5	---	---	8	61	17	108	3	215	406
Troopsmen.....	21	5	94	16	1	137	26	6	62	4	50	154
Grand total.....	24	72	100	23	1	240	447	457	747	711	3,153	3,153

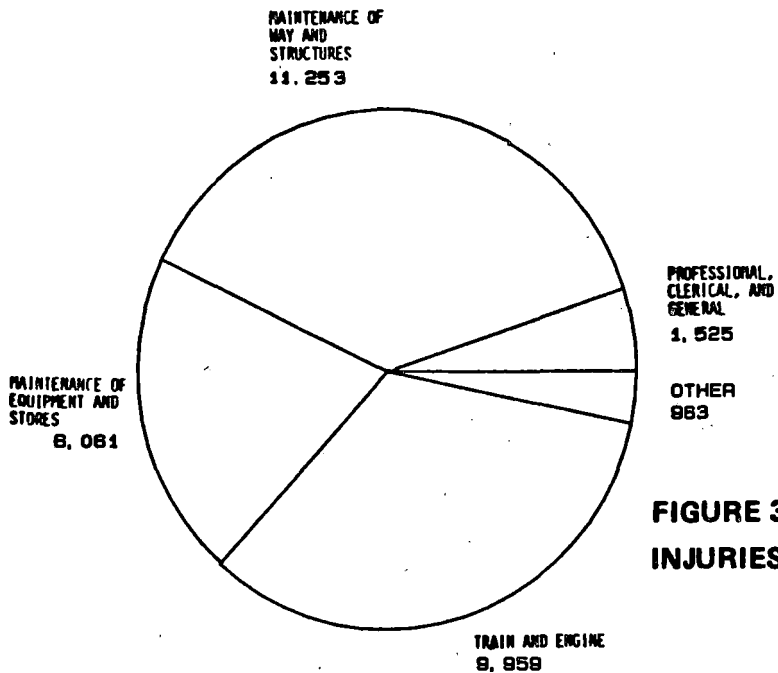
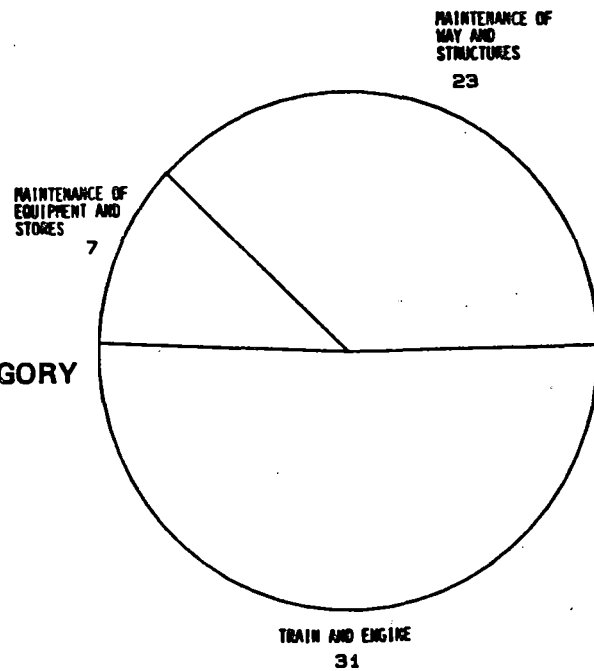
Type Person	Other Injuries							Total Injured		
	Blow	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Disloc- Cation	Object In Eye			
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen.....	74	163	56	3	3	2	78	21	402	427
Firemen and Helpers....	20	28	8	---	---	---	5	2	63	70
Conductors and Foremen....	199	397	77	---	5	4	65	40	767	857
Brakemen and Helpers....	580	1,460	218	3	22	25	294	109	2,711	2,865
Total.....	873	2,048	359	6	30	31	442	172	3,963	4,219
FREIGHT SERVICE:										
Engineers and Motormen.....	103	255	75	2	4	2	122	23	586	615
Firemen and Helpers....	33	75	24	---	1	---	40	10	183	187
Conductors and Foremen....	252	444	122	---	1	5	79	60	963	1,049
Brakemen and Helpers....	557	1,348	273	2	19	30	246	122	2,597	2,790
Total.....	945	2,122	494	4	25	37	487	215	4,329	4,641
PASSENGER SERVICE:										
Engineers and Motormen.....	46	53	13	3	---	---	17	9	139	146
Firemen and Helpers....	2	12	1	---	---	---	4	1	20	20
Conductors and Foremen....	145	169	65	2	---	2	43	18	444	457
Brakemen and Helpers....	5	6	2	---	---	---	---	---	13	14
Total.....	218	274	89	5	1	2	76	32	697	723
BOTTLERS.....	38	84	20	---	1	1	19	3	166	174
--SUMMARY--										
Total employees on										
Employees not on duty..	74	155	56	1	5	6	15	21	335	392
Passengers.....	169	85	112	1	1	3	1	55	429	502
Not respondents.....	807	277	783	3	8	16	13	500	2,408	2,822
Troopsmen.....	95	22	160	11	1	1	---	102	392	683
Grand total.....	7,053	12,936	5,438	149	489	202	2,148	2,332	30,767	34,160

EMPLOYEE CASUALTIES



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

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



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

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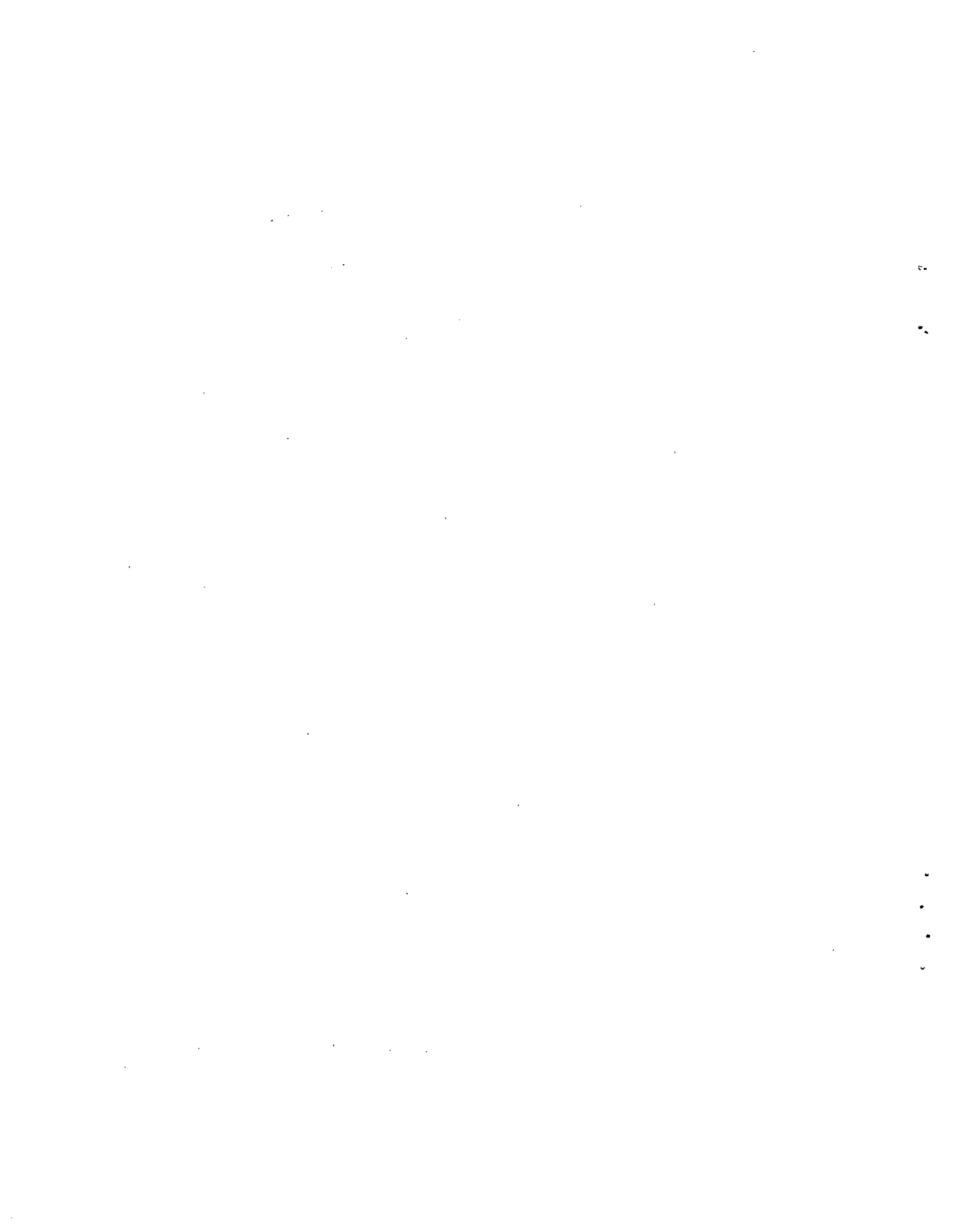


TABLE 51 EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

Type/Location Of Casualty	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	
I N J U R I E S							
Bruise - Contusion--Arm or hand.	1,015	692	366	326	4,359	2,851	323
Fingers.....	679	330	138	192	1,165	1,390	349
Leg or foot.	1,889	1,443	890	553	9,985	4,969	446
Toes.....	210	151	76	75	803	534	59
Torso.....	1,430	1,103	749	354	12,403	3,967	327
Other parts.	685	469	338	131	4,529	1,239	216
Sprain - Strain--Arm or hand.	992	748	356	392	4,587	4,272	244
Fingers.....	210	141	71	70	918	764	69
Leg or foot.	3,006	2,591	1,631	960	25,720	12,283	415
Toes.....	19	16	6	10	50	55	3
Torso.....	7,359	5,837	3,783	2,054	62,178	24,173	1,522
Other parts.	811	588	375	213	6,778	2,400	223
Cut or Laceration--Arm or hand.	814	280	137	143	1,308	1,358	534
Fingers.....	1,337	520	246	274	2,777	2,733	817
Leg or foot.	573	297	174	123	2,488	1,356	276
Toes.....	33	24	12	12	163	189	9
Head or Face	1,461	408	267	141	3,007	930	1,053
Torso.....	66	33	22	11	289	74	33
Other parts.	39	16	10	6	75	27	23
Electrical burn or shock.....	133	81	64	17	1,050	117	52
Other burns.....	474	229	141	88	1,836	836	245
Dislocation.....	174	150	106	44	2,282	868	24
Fracture--Arm or hand.	332	271	168	103	4,287	2,842	61
Fingers.....	822	491	202	289	3,484	5,094	331
Leg or foot.	529	479	396	83	14,973	3,160	50
Toes.....	378	273	139	134	2,458	2,220	105
Head or Face	102	75	61	14	1,632	196	27
Torso.....	273	218	173	45	5,651	1,013	55
Other parts.	30	22	11	11	262	340	8
Amputation--Arm or hand.	2	2	2	---	157	---	---
Fingers.....	64	58	44	14	1,206	530	6
Leg or foot.	19	19	19	---	3,349	---	---
Toes.....	7	7	7	---	570	---	---
Other parts.	---	---	---	---	---	---	---
Dust or other object in eye.....	2,120	841	448	393	1,989	1,135	1,279
Hernia.....	169	162	148	14	5,008	447	7
Concussion.....	74	59	53	6	1,131	68	15
Nervous shock.....	11	10	10	---	188	---	1
Internal injuries.....	33	31	27	4	1,056	33	2
Loss of eye.....	1	---	---	---	---	---	1
Puncture type wound.....	412	171	104	67	814	459	241
Dental related injuries.....	105	24	21	3	87	9	81
Skin reaction (one-time exposure)	137	39	26	13	163	108	98
Not otherwise classified.....	732	353	249	104	3,290	1,006	379
Total nonfatal injuries.....	29,761	19,752	12,266	7,486	200,505	86,045	10,009
I L L N E S S E S							
Skin diseases or disorders.....	243	118	98	20	569	190	125
Dust diseases of the lungs.....	3	2	2	---	61	---	1
Respiratory conditions.....	189	122	109	13	1,136	136	67
Poisoning.....	22	16	14	2	33	2	6
Disorders due to physical agents	128	60	54	6	243	32	68
Disorders due to repeated trauma	38	19	10	9	149	46	19
All other occupational illnesses	32	19	12	7	216	47	13
Total nonfatal illnesses.....	655	356	299	57	2,407	453	299
F A T A L I T I E S							
Fatal injuries.....	61	---	---	---	---	---	---
Fatal illnesses.....	---	---	---	---	---	---	---
Total fatalities..	61	---	---	---	---	---	---

TABLE 52 EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

	.....All Railroads.....			.....Class I Railroads.....			Total	Rate*	Manhours
	Killed	Injured	Illness	Killed	Injured	Illness			
EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS									
Executive, General Officers, and Assistants.....	---	14	---	---	10	---	10	.20	10,148,977
Division Officers, Assistants, and Staff Assistant	---	78	1	---	68	1	69	.72	19,190,776
Total.....	---	92	1	---	78	1	79	.54	29,339,753
PROFESSIONAL, CLERICAL, AND GENERAL									
Professional and Subprofessional Assistants.....	---	60	---	---	54	---	54	.65	16,534,991
Supervisory or Chief Clerks (Major Departments)...	---	19	1	---	14	---	14	.95	2,962,759
Chief Clerks (Minor Departments) and Assistants...	---	15	---	---	14	---	14	.25	11,228,402
Clerks and Clerical Specialists.....	---	71	4	---	65	4	69	1.43	9,654,316
Clerks.....	---	656	14	---	561	13	574	2.18	52,732,305
Mechanical Device Operators (Office).....	---	26	---	---	21	---	21	1.05	3,983,076
Stenographers and Secretaries.....	---	15	---	---	11	---	11	.54	4,107,810
Stenographers and Typists.....	---	4	---	---	2	---	2	.08	4,955,582
Storekeepers, Sales Agents, and Buyers.....	---	28	---	---	14	---	14	1.22	2,297,182
Ticket Agents and Assistant Ticket Agents.....	---	47	---	---	35	---	35	94.25	74,272
Traveling Auditors or Accountants.....	---	4	---	---	4	---	4	1.33	603,743
Telephone Switchboard Operators and Office Assist.	---	6	---	---	5	---	5	1.60	626,248
Messengers and Office Boys.....	---	6	---	---	6	---	6	2.09	573,630
Elevator Operators and Other Office Attendants....	---	15	---	---	4	---	4	9.53	83,945
Lieutenants and Sergeants of Police.....	---	54	1	---	42	---	42	4.38	1,919,909
Patrolmen and Watchmen.....	---	329	8	---	241	2	243	13.22	3,976,856
Traffic and Various Other Agents, Inspectors, Etc.	---	16	---	---	12	---	12	.45	5,286,103
Claim Agents or Investigators.....	---	6	---	---	6	---	6	1.26	954,461
Freight Claim Agents or Investigators.....	---	4	1	---	4	1	5	2.12	472,210
Chief Claim Agents or Investigators.....	---	---	---	---	---	---	---	.00	267,607
Miscellaneous Trade Workers (Other Than Plumbers).	---	52	---	---	26	---	26	43.21	120,349
Motor Vehicle and Motor Car Operators.....	---	292	4	---	255	4	259	6.99	7,409,046
Teamsters and Stablemen.....	---	4	---	---	3	---	3	1.50	399,652
Janitors and Cleaners.....	---	106	4	---	61	3	64	6.44	1,987,042
Total.....	---	1,835	37	---	1,460	27	1,487	2.24	132,911,496
MAINTENANCE OF WAY AND STRUCTURES									
Roadmasters, General Foreman, and Assistants.....	---	97	2	---	70	2	72	2.71	5,316,379
Maintenance of Way and Scale Inspectors.....	---	81	2	---	71	2	73	6.32	2,310,411
Bridge and Building Gang Foremen (Skilled Labor)..	1	107	1	1	95	1	97	6.66	2,911,518
Bridge and Building Carpenters.....	---	591	22	---	470	17	487	16.65	5,851,175
Bridge and Building Ironworkers.....	1	118	3	1	61	2	64	22.14	578,024
Bridge and Building Painters.....	---	48	---	---	25	---	25	15.08	331,457
Masons, Bricklayers, Plasterers, and Plumbers....	---	311	7	---	209	4	213	9.10	4,680,417
Maintenance of Way/Structure Helpers & Assistants.	1	362	6	1	230	5	236	14.14	3,338,609
Portable Steam Equipment Operators.....	3	1,103	25	3	962	20	985	10.42	18,897,424
Portable Steam Equipment Operator Helpers.....	---	83	---	---	45	---	45	26.79	335,958
Pumping Equipment Operators.....	---	17	---	---	6	---	6	19.15	62,650
Gang Foremen (Extra Gang and Work-Train Laborers).	1	148	1	1	110	1	112	4.55	4,925,895
Gang Foremen (Bridge and Building, Signal etc)....	---	17	2	---	10	1	11	75.60	29,101
Gang or Section Foremen.....	2	740	9	2	601	7	610	10.26	11,895,343
Extra Gang Men.....	3	1,576	42	2	1,270	32	1,304	23.37	11,161,053
Section Men.....	7	3,631	110	5	2,602	67	2,674	19.89	26,889,796
Maintenance of Way Laborers (Other Than Track/Rdwy	---	127	3	---	88	1	89	99.84	178,286
General & Ass't Gen Foremen/Inspectors (Signal, Et	---	41	2	---	33	2	35	2.43	2,876,021
Gang Foremen (Signal and Telegraph Skilled Trades)	---	38	4	---	31	2	33	2.78	2,374,332
Signalmen and Signal Maintainers.....	1	651	27	1	525	23	549	9.10	12,070,162
Linemen and Groundmen.....	3	252	24	3	137	8	148	8.80	3,362,834
Assistant Signalmen and Assistant Signal Maint....	---	149	16	---	93	6	99	14.12	1,402,651
Signalmen and Signal Maintainer Helpers.....	---	83	5	---	63	5	68	105.68	128,695
Total.....	23	10,371	313	20	7,807	208	8,035	13.18	121,908,191
MAINTENANCE OF EQUIPMENT AND STORES									
General, Assistant General, and Department Foremen	---	102	4	---	65	4	69	1.88	7,353,073
General and Assistant General Foremen (Stores)....	---	20	1	---	16	1	17	16.01	212,324
Equipment, Shop, Elec, Material, & Supplies Insptr	---	60	1	---	35	---	35	11.88	589,000
Gang Foremen and Gang Leaders (Skilled Labor)....	---	120	---	---	74	---	74	1.82	8,115,468
Blacksmiths.....	---	41	2	---	39	2	41	8.63	950,310
Boilermakers.....	---	137	---	---	111	---	111	13.30	1,669,706
Carmen (A and B).....	2	1,513	17	2	1,165	13	1,180	25.35	9,308,727
Carmen (C and D).....	2	1,167	25	1	955	24	980	7.02	27,928,140
Electrical Workers (A).....	1	699	12	1	495	9	505	7.72	13,081,227
Electrical Workers (B).....	---	30	1	---	12	1	13	3.72	698,712
Electrical Workers (C).....	---	14	---	---	11	---	11	10.26	214,351
Machinists.....	2	1,416	39	1	1,125	34	1,160	11.23	20,666,067
Molders.....	---	9	---	---	6	---	6	100.62	11,926
Sheet-Metal Workers.....	---	250	8	---	184	8	192	7.06	5,439,673
Skilled Trades Helpers (M of E and Stores).....	---	101	---	---	75	---	75	10.08	1,487,380
Helper Apprentices (M of E and Stores).....	---	33	---	---	9	---	9	42.05	42,803
Regular Apprentices (M of E and Stores).....	---	21	---	---	15	---	15	4.80	624,533
Coach Cleaners.....	---	180	1	---	60	---	60	6.70	1,789,769
Gang Foremen (Shops, Engine Houses, & Power Plants	---	13	---	---	8	---	8	3.29	485,642
Gang Foremen (Stores and Ice, Reclamation, Etc)...	---	7	---	---	5	---	5	2.21	453,507
Classified Laborers (Shops, Engine Houses, Etc)...	---	259	3	---	181	3	184	8.53	4,314,277
General Laborers (Shop, Engine Houses, Etc).....	---	349	13	---	254	10	264	15.15	3,484,062
General Laborers (Stores and Ice, Reclamation, Etc	---	155	3	---	134	2	136	10.97	2,479,624
Stationary Engineers (Steam).....	---	13	---	---	11	---	11	6.39	344,060
Stationary Firemen, Oilers, Coal Passers, and Etc.	---	5	---	---	3	---	3	3.02	198,820
Total.....	7	6,714	130	5	5,048	111	5,164	9.23	111,943,181

TABLE 52 (CONTINUED)

	.....All Railroads.....			.....Class I Railroads.....				
	Killed	Injured	Illness	Killed	Injured	Illness	Total Rate*	Manhours
TRANSPORTATION (NOT TRAIN, ENGINE, AND YARD)								
Chief Train Dispatchers.....	—	7	—	—	2	—	2 .25	1,616,454
Train Dispatchers.....	—	10	—	—	8	—	8 .44	3,644,584
Train Directors.....	—	13	1	—	3	—	3 3.76	159,518
Station Agents (Supervisory, Major Stations).....	—	6	1	—	3	1	4 .54	1,484,063
Station Agents (Smaller Stations, Nontelegraphers).....	—	13	—	—	8	—	8 .93	1,728,942
Station Agents (Telegraphers and Telephoners).....	—	5	—	—	4	—	4 .28	2,857,246
Chief Telegraphers and Telephoners or Wire Chiefs.....	—	2	—	—	1	—	1 .23	860,815
Clerk-Telegraphers and Clerk-Telephoners.....	—	23	—	—	20	—	20 1.02	3,911,757
Telegraphers, Telephoners, and Towermen.....	—	63	1	—	47	—	47 1.48	6,341,339
Stationmasters and Assistants.....	—	6	—	—	3	—	3 6.57	91,348
Supervising Baggage Agents.....	—	3	—	—	2	—	2 34.25	11,679
Baggage Agents and Assistants.....	—	16	—	—	14	—	14 246.67	11,351
Baggage, Parcel Room, and Station Attendants.....	—	33	—	—	27	—	27 4.27	1,265,862
General Foremen (Freight Stations, Warehouses, Etc)	—	4	—	—	2	—	2 3.05	131,056
Asst. General Foreman (Frt Stations, Warehouses)...	—	3	—	—	2	—	2 5.11	78,255
Gang Foremen (Freight Station, Warehouse, Etc)....	—	7	—	—	5	—	5 5.36	186,493
Callers, Loaders, Sealers, Scalars, Etc.....	—	16	—	—	11	—	11 7.31	300,822
Truckers (Stations, Warehouses, and Platforms)....	—	32	—	—	25	—	25 28.93	172,808
Laborers (Coal and Ore Docks and Grain Elevators)..	—	35	1	—	25	1	26 7.66	678,996
Common Laborers (Stations, Warehouses, Platforms)..	—	182	1	—	79	1	80 63.00	253,983
Stewards, Restaurant & Lodging-House Managers, Etc	—	44	1	—	43	1	44 77.50	113,555
Chefs and Cooks (Restaurants or Dining Cars).....	—	31	1	—	30	1	31 12.90	480,456
Waiters, Camp Cooks, Kitchen Helpers, Etc.....	—	55	1	—	34	1	35 1.85	3,782,756
Officers, Workers, Att'ants on Barges, Launches...	—	18	—	—	13	—	13 9.14	284,566
Transportation and Dining-Service Inspectors.....	—	1	—	—	1	—	1 .89	223,701
Parlor and Sleeping Car Conductors.....	—	—	—	—	—	—	— .00	—
Train Attendants.....	—	150	1	—	148	1	149 125.42	237,602
Bridge Operators and Helpers.....	—	9	—	—	6	—	6 1.56	769,429
Crossing and Bridge Flagmen and Gatemen.....	—	3	—	—	3	—	3 1.40	427,989
Foremen (Laundry) and Laundry Workers.....	—	—	—	—	—	—	— .00	672
Total.....	—	790	9	—	569	7	576 3.59	32,108,097
TRANSPORTATION (YARDMASTERS, SWITCHTENDERS, HOSTLERS)								
Yardmasters.....	—	59	—	—	45	—	45 1.67	5,385,279
Assistant Yardmasters.....	—	4	—	—	3	—	3 5.34	112,368
Switch Tenders.....	—	72	—	—	57	—	57 54.22	210,238
Outside Hostlers.....	—	145	—	—	103	—	103 9.07	2,271,678
Inside Hostlers.....	—	29	1	—	25	1	26 4.63	1,124,116
Outside Hostlers Helpers.....	—	67	—	—	38	—	38 9.44	804,782
Total.....	—	376	1	—	271	1	272 5.49	9,908,461
TRANSPORTATION (TRAIN AND ENGINE)								
Road Passenger Conductors.....	—	269	11	—	56	—	56 8.64	1,296,703
Assist Road Passenger Conductors & Ticket Collecto	—	188	9	—	30	—	30 9.56	627,718
Road Freight Conductors (Through Freight).....	3	590	6	1	519	6	526 8.39	12,545,623
Road Freight Conductors (Local and Way Freight)...	5	459	12	5	352	10	367 8.29	8,850,386
Road Passenger Baggage-men.....	—	14	—	—	9	—	9 8.99	200,191
Road Passenger Brakemen and Flagmen.....	—	88	2	—	37	—	37 11.00	672,881
Road Freight Brakemen and Flagmen (Through Freight	3	1,516	13	2	1,331	13	1,346 11.30	23,828,940
Road Freight Brakemen and Flagmen (Local & Way Frg	3	1,274	23	2	938	18	958 12.11	15,827,746
Yard Conductors and Yard Foremen.....	4	857	13	2	647	9	658 8.88	14,823,784
Yard Brakemen and Yard Helpers.....	7	2,865	33	6	2,156	26	2,188 17.32	25,266,598
Road Passenger Engineers and Motormen.....	—	144	10	—	28	1	29 5.43	1,068,035
Road Freight Engineers and Motormen (Through Frgt	2	369	5	2	328	5	335 5.01	13,372,549
Road Freight Engineers & Motormen (Local & Way Frg	—	246	11	—	189	9	198 4.60	8,606,255
Yard Engineers and Motormen.....	2	427	9	2	293	7	302 4.45	13,557,916
Road Passenger Firemen and Helpers.....	—	20	1	—	17	1	18 5.02	717,651
Road Freight Firemen and Helpers (Through Freight)	—	123	1	—	112	1	113 4.57	4,949,610
Road Freight Firemen & Helpers (Local & Way Frgt)	1	64	4	1	46	2	49 3.48	2,817,891
Yard Firemen and Helpers.....	1	70	1	1	58	—	59 3.09	3,817,040
Total.....	31	9,583	164	24	7,146	108	7,278 9.52	152,847,517
Grand Total.....	61	29,761	655	49	22,379	463	22,891 7.75	590,966,696

NOTE: Manhours for class I railroads were obtained from the Interstate Commerce Commission. Class I totals exclude counts for Seaboard System Railroad; manhours were not available by occupational categories.

*"Rate" is the frequency per 200,000 manhours.

TABLE 53 EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	---	---	1	1	---	---	9	11
Derailments.....	---	---	---	---	---	---	4	4
Rail-highway x-ing.....	---	---	---	---	---	---	---	---
Miscellaneous.....	---	---	---	---	---	---	---	---
Total.....	---	---	1	1	---	---	13	15
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	1	---	---	1	2
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	1	---	---	---	---	1
Operating hand brakes.....	---	---	---	---	---	---	1	1
Operating switches or derails.....	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	4	4
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	1	1
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	1	1
Struck by/ran into loco/car(not at rr-hwy x-ing)..	---	---	5	---	---	---	7	12
Servicing or maintenance of equipment.....	---	---	---	---	---	---	---	---
Maintenance of way and structures.....	---	---	3	---	---	---	---	3
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.....	---	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	---	---	---	---	---
Total.....	---	---	9	1	---	---	15	25
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	1	1
Operating or on locomotives.....	---	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)..	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	---	3	---	---	---	3
Maintenance of way and structures.....	---	---	5	---	---	---	---	5
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	1	---	---	1	2
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	---	---	1	1
Flying or falling objects, burns, etc., N.O.C.....	---	---	1	1	---	---	---	2
Operation of on-track work equipment.....	---	---	1	---	---	---	---	1
Assault.....	---	---	1	---	---	---	---	1
Other occurrences.....	---	---	5	---	---	---	---	5
Total.....	---	---	13	5	---	---	3	21
Grand total.....	---	---	23	7	---	---	31	61

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 (yardmasters, switchtenders, hostlers)
 VII = Transportation (train and engine)

TABLE 54 EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	2	---	15	---	9	2	83	111
Derailments.....	---	---	11	---	12	---	109	132
Rail-highway x-ing.....	---	---	---	1	20	1	30	52
Miscellaneous.....	---	1	5	1	12	---	31	50
Total.....	2	1	31	2	53	3	253	345
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	6	---	5	273	284
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	1	---	---	34	35
Operating or on locomotives.....	2	---	2	4	2	27	605	642
Operating rail motorcars.....	---	---	17	2	---	---	8	27
Operating hand brakes.....	---	---	---	2	1	2	97	102
Operating switches or derails.....	---	---	1	---	---	---	21	22
Contacting fixed objects while on locos or cars...	---	---	1	2	1	2	98	104
Getting on or off cars or locomotives.....	1	6	7	10	2	20	988	1,034
Collisions, derailments, etc. (<= \$4,501).....	---	1	8	2	1	2	105	119
Rail-highway crossing accidents/incidents.....	---	2	11	3	---	1	51	68
Struck by/ran into loco/car(not at rr-hwy x-ing)..	---	3	11	7	1	1	43	66
Servicing or maintenance of equipment.....	---	2	11	77	10	1	2	103
Maintenance of way and structures.....	1	2	139	6	1	---	3	152
Freight, baggage, express or mail.....	---	---	1	---	7	---	5	13
Windows, doors, etc., on on-track equipment.....	---	1	4	3	8	---	87	103
Passenger car doors.....	---	---	---	---	1	---	1	2
Stumbling, slipping, falling, caught, N.O.C.....	---	4	4	---	13	4	162	187
Flying or falling objects, burns, etc., N.O.C.....	---	3	8	3	18	7	524	563
Operation of on-track work equipment.....	1	7	202	14	---	---	20	244
Assault.....	---	3	3	---	---	1	99	106
Other occurrences.....	---	5	6	9	41	1	606	668
Total.....	5	39	436	151	107	74	3,832	4,644
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	3	5	27	1	19	609	664
Coupling/uncoupling air/steam hose, safety chains..	---	1	7	40	1	6	254	309
Operating or on locomotives.....	2	3	4	44	1	27	299	380
Operating rail motorcars.....	1	---	58	3	---	---	18	80
Operating hand brakes.....	---	1	1	12	---	8	382	404
Operating switches or derails.....	---	5	35	21	15	49	1,057	1,182
Contacting fixed objects while on locos or cars...	---	2	3	4	1	1	16	27
Getting on or off cars or locomotives.....	2	66	33	139	11	35	789	1,075
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	1	---	---	---	1	2
Struck by/ran into loco/car(not at rr-hwy x-ing)..	---	1	---	2	---	---	4	7
Servicing or maintenance of equipment.....	8	144	412	5,150	73	43	64	5,894
Maintenance of way and structures.....	29	298	8,377	433	37	2	44	9,220
Freight, baggage, express or mail.....	---	33	4	12	156	---	13	218
Windows, doors, etc., on on-track equipment.....	2	40	54	134	34	4	174	442
Passenger car doors.....	---	2	1	4	1	---	12	20
Stumbling, slipping, falling, caught, N.O.C.....	12	334	246	257	121	60	986	2,016
Flying or falling objects, burns, etc., N.O.C.....	4	127	30	52	46	15	326	600
Operation of on-track work equipment.....	---	---	118	10	---	---	3	131
Assault.....	1	98	16	7	4	1	49	176
Other occurrences.....	24	637	499	210	128	29	398	1,925
Total.....	85	1,795	9,904	6,561	630	299	5,498	24,772
Grand total.....	92	1,835	10,371	6,714	790	376	9,583	29,761

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 (yardmasters, switchtenders, hostlers)
 VII = Transportation (train and engines)

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

Type of Occurrence	Total Cases	Cases With Days Away From Work Or Days Of Restriction					Other Cases
		Total Cases	Lost Day Cases	Restricted Days Cases	Days Away From Work	Days Of Restriction	
TRAIN ACCIDENTS							
Collisions.....	111	78	72	6	2,569	116	33
Deraillments.....	132	123	100	23	1,852	354	9
Rail-highway x-ing.....	52	40	36	4	503	65	12
Miscellaneous.....	50	43	40	3	695	61	7
Total.....	345	284	248	36	5,619	596	61
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	284	240	141	99	3,500	1,309	44
Coupling/uncoupling air/steam hose, safety chains..	35	31	16	15	262	147	4
Operating or on locomotives.....	642	392	236	156	3,209	1,584	250
Operating rail motorcars.....	27	19	16	3	307	20	8
Operating hand brakes.....	102	82	56	26	1,906	215	20
Operating switches or derails.....	22	15	10	5	154	57	7
Contacting fixed objects while on locos or cars...	104	77	49	28	809	362	27
Getting on or off cars or locomotives.....	1,034	890	576	314	11,011	3,821	144
Collisions, derailments, etc. (<= \$4,501).....	119	97	77	20	2,294	460	22
Rail-highway crossing accidents/incidents.....	68	56	37	19	997	297	12
Struck by/ran into loco/car(not at rr-hwy x-ing)..	66	52	39	13	1,585	181	14
Servicing or maintenance of equipment.....	103	77	47	30	1,151	302	26
Maintenance of way and structures.....	152	120	76	44	1,931	671	32
Freight, baggage, express or mail.....	13	10	8	2	106	4	3
Windows, doors, etc., on on-track equipment.....	103	77	65	12	757	118	26
Passenger car doors.....	2	2	2	—	12	—	—
Stumbling, slipping, falling, caught, N.O.C.....	187	166	118	48	1,938	708	21
Flying or falling objects, burns, etc., N.O.C.....	563	245	126	119	876	495	318
Operation of on-track work equipment.....	244	170	115	55	1,620	536	74
Assault.....	106	74	53	21	747	222	32
Other occurrences.....	668	497	334	163	6,658	2,242	171
Total.....	4,644	3,389	2,197	1,192	41,830	13,751	1,255
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	664	531	310	221	5,553	2,964	133
Coupling/uncoupling air/steam hose, safety chains..	309	218	130	88	2,111	1,002	91
Operating or on locomotives.....	380	262	178	84	2,873	979	118
Operating rail motorcars.....	80	57	41	16	919	204	23
Operating hand brakes.....	404	306	185	121	3,118	1,622	98
Operating switches or derails.....	1,182	972	615	357	9,949	4,822	210
Contacting fixed objects while on locos or cars...	27	16	10	6	74	84	11
Getting on or off cars or locomotives.....	1,075	848	557	291	9,654	4,141	227
Collisions, derailments, etc. (<= \$4,501).....	—	—	—	—	—	—	—
Rail-highway crossing accidents/incidents.....	2	1	1	—	30	—	1
Struck by/ran into loco/car(not at rr-hwy x-ing)..	7	4	2	2	10	60	3
Servicing or maintenance of equipment.....	5,894	3,506	2,050	1,456	30,946	16,053	2,388
Maintenance of way and structures.....	9,220	5,639	3,068	2,571	48,818	27,263	3,581
Freight, baggage, express or mail.....	218	182	164	18	2,276	133	36
Windows, doors, etc., on on-track equipment.....	442	281	185	96	2,549	1,298	161
Passenger car doors.....	20	11	10	1	123	1	9
Stumbling, slipping, falling, caught, N.O.C.....	2,016	1,602	1,127	475	18,917	6,405	414
Flying or falling objects, burns, etc., N.O.C.....	600	327	218	109	1,524	597	273
Operation of on-track work equipment.....	131	89	37	52	540	645	42
Assault.....	176	145	131	14	2,178	171	31
Other occurrences.....	1,925	1,082	802	280	10,894	3,254	843
Total.....	24,772	16,079	9,821	6,258	153,056	71,698	8,693
Grand total.....	29,761	19,752	12,266	7,486	200,505	86,045	10,009

TABLE 56 EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	---	---	---	---	---	---	---	---
Derailments.....	---	---	---	---	---	---	1	1
Rail-highway x-ing.....	---	---	---	---	---	---	---	---
Miscellaneous.....	---	---	---	---	---	---	1	1
Total.....	---	---	---	---	---	---	2	2
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	---	---
Operating or on locomotives.....	---	---	---	1	---	---	23	24
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	---	---
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.....	---	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C.....	---	---	1	---	---	---	35	36
Operation of on-track work equipment.....	---	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	1	1	---	4	5
Total.....	---	---	1	1	1	---	62	65
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	1	1
Operating or on locomotives.....	---	---	---	4	---	---	17	21
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---	---
Operating switches or derails.....	---	---	---	---	---	---	3	3
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	1	1
Collisions, derailments, etc. (<= \$4,501).....	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents.....	---	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)..	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	1	6	89	2	---	---	98
Maintenance of way and structures.....	---	---	124	15	---	---	1	140
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment.....	---	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	2	---	---	1	3
Flying or falling objects, burns, etc., N.O.C.....	1	17	10	11	3	---	62	104
Operation of on-track work equipment.....	---	---	1	---	---	---	---	1
Assault.....	---	---	---	---	---	---	1	1
Other occurrences.....	---	19	171	8	3	1	13	215
Total.....	1	37	312	129	8	1	100	588
Grand total.....	1	37	313	130	9	1	164	655

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 (yardmasters, switchtenders, hostlers)
 VII = 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)....	---	---	---	---	---	45	45
Atchison, Topeka And Santa Fe Rwy Co...	---	3	---	1	---	1	5
Baltimore And Ohio Railroad Co.....	6	4	---	---	---	2	12
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Boston And Maine Corporation.....	---	2	---	---	---	2	4
Burlington Northern Incorporated.....	---	---	---	---	---	2	2
Central Of Georgia Railroad Company....	---	---	---	---	---	---	---
Chesapeake And Ohio Railway Company....	2	---	---	---	---	1	3
Chicago And North Western.....	---	1	---	---	---	3	4
Chicago, Milw, St. Paul And Pacific....	1	1	---	---	---	---	2
Cincinnati, New Orleans And TX Pac Co..	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	8	8	---	2	1	12	31
Delaware And Hudson Railway.....	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co....	---	---	---	---	---	1	1
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co..	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co...	---	---	---	---	---	2	2
Florida East Coast Railway Co.....	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.....	1	---	---	---	---	1	2
Illinois Central Gulf Railroad Co.....	---	1	2	---	1	8	12
Kansas City Southern Railway Co.....	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company....	---	2	---	---	1	---	3
Missouri Pacific Railroad Co.....	2	1	2	1	1	6	13
Missouri-Kansas-Texas Railroad Co.....	---	---	---	---	---	---	---
Norfolk And Western Railway Co.....	1	---	---	---	1	4	6
Pittsburg And Lake Erie Railroad Co....	---	---	---	---	---	---	---
Seaboard System Railroad.....	---	6	---	---	8	1	15
Sooline Railroad Company.....	---	---	---	---	---	---	---
Southern Pacific Transportation Co.....	2	8	---	1	2	9	22
Southern Railway Company.....	---	1	---	---	1	2	4
St. Louis Southwestern Railway Co.....	1	1	---	---	---	---	2
Union Pacific Railroad Co.....	---	1	---	---	---	---	1
Western Maryland Railway Company.....	---	---	---	---	---	---	---
Western Pacific Railroad Company.....	---	1	---	---	---	---	1
Total Class I Railroads.....	24	41	4	5	16	102	192
RECAPITULATION							
Class I Railroads.....	24	41	4	5	16	102	192
Class II Railroads.....	1	1	---	1	---	---	3
Class III Railroads.....	7	1	7	1	8	63	87
Total All Railroads.....	32	43	11	7	24	165	282

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	---	---	---	---	30	7
799 Other miscellaneous causes.....	4	4	---	4	---	---	---
SUBTOTAL.....	41	4	---	4	---	30	7
GRAND TOTAL.....	41	4	---	4	---	30	7

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....	147	30	22	52	---	42	43
702 Vandalism.....	9	9	---	9	---	---	---
703 Interference with RR oper.-not vandals...	9	2	2	4	---	5	---
707 Improperly loaded car.....	3	2	---	2	---	---	1
709 Object on or fouling track.....	4	4	---	4	---	---	---
710 Equipment on or fouling track.....	23	8	7	15	---	7	1
713 Interaction of lateral/vertical forces...	7	6	---	6	---	---	1
715 Snow, ice, or mud on track.....	6	6	---	6	---	---	---
716 Other acts of God.....	2	2	---	2	---	---	---
799 Other miscellaneous causes.....	9	9	---	9	---	---	---
SUBTOTAL.....	219	78	31	109	---	54	46
GRAND TOTAL.....	219	78	31	109	---	54	46

TABLE 60 FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

Cause	Total Killed	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other	Total			
BRAKES, USE OF							
509 Other causes involving use of brakes.....	1	---	1	1	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS							
52A Block signal, failure to comply.....	3	3	---	3	---	---	---
520 Fixed signal, failure to comply.....	1	1	---	1	---	---	---
528 Radio comm., failure to give/receive.....	2	2	---	2	---	---	---
SUBTOTAL.....	6	6	---	6	---	---	---
OTHER RULES AND INSTRUCTIONS							
535 Instruction to trn/yard crew improper....	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
SWITCHES, USE OF							
561 Switch improperly lined.....	1	---	1	1	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---
GRAND TOTAL.....	9	7	2	9	---	---	---

**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						
501 Dynamic brake, improper use.....	1	1	---	1	---	---
502 Failure to secure engine (R.R. emp.)....	1	1	---	1	---	---
503 Failure to secure hnd brk (R.R. emp.)....	2	---	2	2	---	---
505 Failure to apply hnd brk on car (emp.)...	2	2	---	2	---	---
509 Other causes involving use of brakes.....	4	3	1	4	---	---
SUBTOTAL.....	10	7	3	10	---	---
EMPLOYEE PHYSICAL CONDITION						
513 Employee falling asleep.....	2	2	---	2	---	---
SUBTOTAL.....	2	2	---	2	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
52A Block signal, failure to comply.....	8	8	---	8	---	---
52B Interlocking signal, failure to comply...	5	4	---	4	1	---
520 Fixed signal, failure to comply.....	14	13	1	14	---	---
525 Hand signal, failure to give/receive.....	2	2	---	2	---	---
SUBTOTAL.....	29	27	1	28	1	---
OTHER RULES AND INSTRUCTIONS						
530 Car(s) shoved out & left out of clear....	2	2	---	2	---	---
533 Failure to stop train in clear.....	8	7	1	8	---	---
535 Instruction to trn/yard crew improper....	5	3	2	5	---	---
536 Mtr car/on-trk eqp rules, fail to cmPLY... 16	16	1	15	16	---	---
537 Equip move without authority (RR emp)....	4	3	1	4	---	---
538 Shoving move, missing man at lead.....	1	1	---	1	---	---
539 Shoving movement, fail to control.....	7	7	---	7	---	---
541 Special op. instr., failure to comply....	7	6	1	7	---	---
542 Trn ord/timetable auth, fail to comply... 1	1	---	1	1	---	---
SUBTOTAL.....	51	30	21	51	---	---
SPEED						
550 Coupling speed excessive.....	3	3	---	3	---	---
554 Trn inside yrd limit, excess speed.....	1	1	---	1	---	---
559 Other Causes involving excessive speed... 9	9	7	2	9	---	---
SUBTOTAL.....	13	11	2	13	---	---
SWITCHES, USE OF						
561 Switch improperly lined.....	12	9	---	9	---	3
563 Switch previously run through.....	1	1	---	1	---	---
569 Use of switches, other.....	2	2	---	2	---	---
SUBTOTAL.....	15	12	---	12	---	3
MISCELLANEOUS						
570 Buffing or slack action excessive.....	4	4	---	4	---	---
599 Other train operation/human factors.....	3	2	1	3	---	---
SUBTOTAL.....	7	6	1	7	---	---
GRAND TOTAL.....	127	95	28	123	1	3

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

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
BRAKES						
400 Air hose uncoupled or burst.....	1	1	---	---	---	---
410 Other brake failure(not on locomotive)...	1	1	---	---	---	---
410L Other brake failure - locomotive.....	3	3	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
TRAILER OR CONTAINER ON FLAT CAR						
419 Oth trailer/container on flat car fail...	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
BODY						
421 Center sill broken or bent.....	2	2	---	---	---	---
423 Center plate broken or defective.....	1	1	---	---	---	---
424 Center plate disengaged from truck.....	1	1	---	---	---	---
425 Center pin broken or missing.....	1	1	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
COUPLER AND DRAFT SYSTEM						
432 Coupler drawhead broken or defective.....	2	2	---	---	---	---
SUBTOTAL.....	2	2	---	---	---	---
TRUCK COMPONENTS						
440 Side bearing clearance improper.....	2	2	---	---	---	---
445 Truck (stiff/improper lateral).....	6	3	---	3	---	---
446 Defective snubbing.....	9	---	---	---	9	---
449 Other truck component causes.....	2	2	---	---	---	---
449L Other truck component causes - loco.....	2	---	---	2	---	---
SUBTOTAL.....	21	7	---	5	9	---
AXLES AND JOURNAL BEARINGS						
450 Broken or bent between wheel seats.....	1	1	---	---	---	---
452 Journal (R. B.) failure - overheat.....	4	4	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
WHEELS						
467 Loose wheel.....	1	1	---	---	---	---
469 Other causes involving wheels-not loco...	2	---	2	---	---	---
SUBTOTAL.....	3	1	2	---	---	---
LOCOMOTIVES						
473L Oil fire - locomotive.....	2	2	---	---	---	---
474L Electrically caused fire - locomotive....	1	1	---	---	---	---
SUBTOTAL.....	3	3	---	---	---	---
GENERAL MECHANICAL AND ELECTRICAL						
499 General mech/elect failures-not loco.....	6	---	6	---	---	---
499L General mech/elect failures - loco.....	2	2	---	---	---	---
SUBTOTAL.....	8	2	6	---	---	---
GRAND TOTAL.....	53	31	8	39	5	9

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

Cause	Total Killed	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
RAIL AND JOINT BAR DEFECTS							
140 Rail defect with joint bar repair.....	1	1	---	1	---	---	---
141 Transverse/compound fissure.....	1	1	---	1	---	---	---
149 Other rail and joint bar defects.....	4	---	---	---	4	---	---
SUBTOTAL.....	6	2	---	2	4	---	---
GRAND TOTAL.....	6	2	---	2	4	---	---

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

Cause	Total Injured	...Employees On Duty...		Emp Not On Duty	Passengers	Nontrespassers	Trespassers
		Trainmen	Other				
ROADBED DEFECTS							
101 Roadbed settled or soft.....	1	1	---	1	---	---	---
102 Washout/rain/slide/ice, etc. dmg to trk...	19	5	11	16	3	---	---
SUBTOTAL.....	20	6	11	17	3	---	---
TRACK GEOMETRY DEFECTS							
110 Wide gage (defect/missing cross-ties).....	2	2	---	2	---	---	---
115 Track alignment irregular (buckled).....	10	10	---	10	---	---	---
119 Cross level irregular at joints.....	4	3	1	4	---	---	---
120 Cross level irregular not at joints.....	1	1	---	1	---	---	---
SUBTOTAL.....	17	16	1	17	---	---	---
RAIL AND JOINT BAR DEFECTS							
130 Bolt hole crack or break.....	2	2	---	2	---	---	---
131 Broken base of rail.....	4	4	---	4	---	---	---
136 Head/web sep.(outside joint bar limit)...	4	4	---	4	---	---	---
141 Transverse/compound fissure.....	1	1	---	1	---	---	---
142 Vertical split head.....	1	1	---	1	---	---	---
149 Other rail and joint bar defects.....	39	3	13	16	23	---	---
SUBTOTAL.....	51	15	13	28	23	---	---
FROGS, SWITCHES AND TRACK APPLIANCES							
161 Switch damaged/out of adjustment.....	3	3	---	3	---	---	---
163 Switch point worn or broken.....	2	1	---	1	1	---	---
167 Frog, rigid, worn or broken.....	1	1	---	1	---	---	---
168 Frog, spring, worn or broken.....	3	3	---	3	---	---	---
179 Other frog/switches/track appl. causes...	2	2	---	2	---	---	---
SUBTOTAL.....	11	10	---	10	1	---	---
OTHER WAY AND STRUCTURES							
189 Other way and structure causes.....	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
SIGNAL AND COMMUNICATION FAILURES							
209 Signal & communication failure N.O.C.....	3	3	---	3	---	---	---
SUBTOTAL.....	3	3	---	3	---	---	---
GRAND TOTAL.....	103	51	25	76	1	26	---

CASUALTIES IN TRAIN INCIDENTS

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

Occurrence	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
003T Crossing over, under or between on-track equipment, equipment moving	2	1 1	2	---	---	---
SUBTOTAL.....	2	1 1	2	---	---	---
OPERATING RAIL MOTORCARS						
153T Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	1	---	1	---	---	---
SUBTOTAL.....	1	---	1	---	---	---
OPERATING HAND BRAKES						
205T Caught between parts of equipment or lading - equipment moving	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES						
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	6	3	---	3	---	3
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	2	---	---	---	1	1
511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	1	---	---	---	---	1
513T Jumping from equipment - equipment moving	4	---	---	---	---	4
519T Other acc/inc while getting on or off cars or locos - equipment mov	3	1	---	1	---	2
SUBTOTAL.....	17	4	---	4	---	12
COLLISIONS, DERAILMENTS, ETC.(=< \$4,501)						
601T Casualty resulting fm a collision which did not satisfy \$ threshold	3	---	---	---	1	2
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	5	1	---	1	---	3
SUBTOTAL.....	8	1	---	1	---	5
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS						
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	505	1	---	1	---	440
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	29	---	---	---	---	28
SUBTOTAL.....	534	1	---	1	---	468
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	125	2	2	4	---	7
702T Crossing track at private rail-highway crossing - equipment moving	8	---	---	---	---	3
703T Crossing track not at a crossing - equipment moving	35	1	---	1	---	2
704T While on public thoroughfare - equipment moving	2	---	---	---	---	1
705T On bridges or trestles - equipment moving	16	---	---	---	---	16
706T Sitting or lying on track or near track, not in clear - eqp moving	149	---	---	---	1	4
707T While working on or along track - equipment moving	9	3	2	5	---	1
708T Passing over, through, or under cars - equipment moving	12	---	---	---	---	12
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	32	1	1	2	---	3
SUBTOTAL.....	388	7	5	12	1	21

TABLE 66 (CONTINUED)

Occurrence	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Montres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES						
853T Striking or being struck by eqp, structures, or material-eqp mov	3	---	3	3	---	---
SUBTOTAL.....	3	---	3	3	---	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT						
909T Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	1	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	1
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	4	---	---	---	---	4
935T From bridges of trestles-equipment moving	1	---	---	---	---	1
938T While on locomotive or car-equipment moving	1	---	---	---	---	1
SUBTOTAL.....	6	---	---	---	---	6
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
941T Struck by flying of falling object (except assaults)-eqp mov	1	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	1
OPERATION OF ON-TRACK WORK EQUIPMENT						
954T Getting on/off on-track work equipment - equipment moving	1	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	1
OTHER OCCURRENCES						
989T Other accidents/incidents-equipment moving	3	---	---	---	---	3
SUBTOTAL.....	3	---	---	---	---	3
GRAND TOTAL.....	966	15	10	25	1	448

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

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
001T Adjusting coupler, equipment moving unexpectedly	12	11 1	12	---	---	---
002T Adjusting coupler - equipment moving	19	15 4	19	---	---	---
003T Crossing over, under or between on-track equipment, equipment moving	1	1 ---	1	---	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	1	1 ---	1	---	---	---
005T Use of uncoupling lever - equipment moving	94	93 1	94	---	---	---
006T Use of uncoupling lever - equipment moving unexpectedly	2	2 ---	2	---	---	---
007T Striking parts of body against equipment - equipment moving	39	35 4	39	---	---	---
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	57	56 1	57	---	---	---
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	59	59 ---	59	---	---	---
SUBTOTAL.....	284	273 11	284	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051T Crossing over, under or between on-track equipment, equipment moving	1	1 ---	1	---	---	---
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	6	5 1	6	---	---	---
054T Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	9	9 ---	9	---	---	---
057T Opening or closing angle cocks - equipment moving	5	5 ---	5	---	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	14	14 ---	14	---	---	---
SUBTOTAL.....	35	34 1	35	---	---	---
OPERATING OR ON LOCOMOTIVES						
101T Burn or electrical shock - equipment moving	5	5 ---	5	---	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	51	48 3	51	---	---	---
103T Struck by tools or other objects falling - equipment moving	11	11 ---	11	---	---	---
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	31	29 2	31	---	---	---
105T Checking, oiling, servicing locomotive, etc. - equipment moving	4	3 1	4	---	---	---
106T Unexpected movement of locomotive, other than slack action	72	66 6	72	---	---	---
107T Slack action in locomotive	37	37 ---	37	---	---	---
108T Striking parts of body against equipment due to sudden stop of loco	61	58 3	61	---	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	11	11 ---	11	---	---	---
110T Defective locomotive seat - equipment moving	15	15 ---	15	---	---	---
111T Adjusting locomotive seat - equipment moving	6	6 ---	6	---	---	---
112T Foreign object in eye - equipment moving	284	265 19	284	---	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	54	51 3	54	---	---	---
SUBTOTAL.....	642	605 37	642	---	---	---
OPERATING RAIL MOTORCARS						
151T Striking parts of body against equipment - equipment moving	9	3 6	9	---	---	---
152T Struck by tools or other objects falling - equipment moving	2	--- 2	2	---	---	---
153T Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	4	3 1	4	---	---	---
154T Unexpected movement of rail motorcar	5	2 3	5	---	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	7	--- 7	7	---	---	---
SUBTOTAL.....	27	8 19	27	---	---	---

TABLE 67 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontreas-passers	Tres-passers
OPERATING HAND BRAKES						
200T Manipulating hand brakes, no defects, equipment moving	27	26	1	27	---	---
201T Defective equipment - equipment moving	13	13	---	13	---	---
202T Pawl slipping or accidentally knocked out of ratchet - eqp moving	1	1	---	1	---	---
203T Striking body due to movement of equipment	12	11	1	12	---	---
204T Losing hold, slipping or falling due to coupling impact	16	16	---	16	---	---
205T Caught between parts of equipment or lading - equipment moving	5	4	1	5	---	---
207T Losing hold, slipping, or falling - equipment moving	8	8	---	8	---	---
208T Caught hand or fingers in spinning brake wheel - equipment moving	2	---	2	2	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	18	18	---	18	---	---
SUBTOTAL.....	102	97	5	102	---	---
OPERATING SWITCHES OR DERAILS						
304T Struck by moving on-track equipment	5	5	---	5	---	---
309T Other acc/inc while operating switches/derails - equipment moving	17	16	1	17	---	---
SUBTOTAL.....	22	21	1	22	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
401T Persons on top locos/cars contacting fixed objects - equipment mov	9	8	1	9	---	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	68	64	4	68	---	---
409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov	29	26	1	27	1	1
SUBTOTAL.....	106	98	6	104	1	1
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/missed hold of grab/iron, handhold, etc.-eqp mov	82	68	3	71	---	11
502T Slip/fell due to losing/missing footing on step, stirrup, etc.-eqp mov	147	129	5	134	2	10
503T Stepping or tripping on parts of track in place - equipment moving	39	38	1	39	---	---
504T Stepping or tripping on foreign material or irreg surface - eqp mov	253	248	5	253	---	---
505T Slipping on ice or snow on ground - equipment moving	39	36	3	39	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	18	15	1	16	1	1
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	122	92	5	97	4	20
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	16	3	1	4	11	1
510T Striking body or falling due to sudden movement of equipment	39	31	5	36	3	---
511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	41	31	4	35	---	4
512T Striking or being struck by bridges or trestles - equipment moving	1	1	---	1	---	---
513T Jumping from equipment - equipment moving	94	57	6	63	9	20
514T Defective equipment - equipment moving	26	26	---	26	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	241	213	7	220	1	18
SUBTOTAL.....	1,158	988	46	1,034	2	85

TABLE 67 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers		
COLLISIONS, DERAILMENTS, ETC. (<= \$4,501)								
601T Casualty resulting fm a collision which did not satisfy \$ threshold	71	57	9	66	1	1	1	2
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	54	48	4	52	---	---	2	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	15	---	1	1	---	---	3	11
SUBTOTAL.....	140	105	14	119	1	1	6	13
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,252	37	13	50	1	3	2,031	167
610T Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	143	14	4	18	2	---	118	5
SUBTOTAL.....	2,395	51	17	68	3	3	2,149	172
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T Standing, walking or running on or along track - equipment moving	124	25	4	29	---	---	7	88
702T Crossing track at private rail-highway crossing - equipment moving	4	---	---	---	1	---	2	1
703T Crossing track not at a crossing - equipment moving	38	1	---	1	---	---	5	32
704T While on public thoroughfare - equipment moving	6	---	4	4	---	---	1	1
705T On bridges or trestles - equipment moving	17	---	---	---	3	---	---	14
706T Sitting or lying on track or near track, not in clear - eqp moving	85	---	1	1	---	---	1	83
707T While working on or along track - equipment moving	21	8	11	19	---	---	1	1
708T Passing over, through, or under cars - equipment moving	58	1	---	1	---	---	1	56
709T Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	44	8	3	11	---	---	7	26
SUBTOTAL.....	397	43	23	66	4	---	25	302
SERVICING OR MAINTENANCE OF EQUIPMENT								
803T Striking or being struck by eqp, structures, or material-eqp mov	45	1	44	45	---	---	---	---
815T Moving equipment for repairs	31	1	30	31	---	---	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	27	---	27	27	---	---	---	---
SUBTOTAL.....	103	2	101	103	---	---	---	---
MAINTENANCE OF WAY AND STRUCTURES								
852T Crossing over, under, or between locos or cars-eqp moving	2	1	1	2	---	---	---	---
853T Striking or being struck by eqp, structures, or material-eqp mov	101	2	98	100	---	---	1	---
899T Other accs/incs while maintaining way and structures - eqp moving	53	---	50	50	1	---	2	---
SUBTOTAL.....	156	3	149	152	1	---	3	---
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901T Handling freight, baggage, express or mail-eqp moving	5	---	4	4	---	1	---	---
902T Struck or caught by shifted lading-eqp moving	5	4	1	5	---	---	---	---
903T Tripping over, or struck by falling baggage in passenger car-eqp mov	1	---	---	---	---	1	---	---
904T Other acc/inc involving freight, baggage, express, or mail - eqp mov	4	1	3	4	---	---	---	---

TABLE 67 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Emp Not On Duty Total	Passengers	Nontrespassers	Trespassers
FREIGHT, BAGGAGE, EXPRESS OR MAIL (CONT.)							
SUBTOTAL.....	15	5	8	13	2	---	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT							
907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	1	---	1	1	---	---	---
909T Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	2	1	1	2	---	---	---
911T Closing or opening plug type car doors, no defects-equipment mov	2	1	1	2	---	---	---
912T Closing or opening coach trap doors-equipment moving	14	13	---	13	1	---	---
913T Interior doors-equipment moving	33	9	8	17	16	---	---
914T Opening or closing locomotive doors-equipment moving	24	24	---	24	---	---	---
915T Opening or closing locomotive windows-equipment moving	12	12	---	12	---	---	---
916T Opening or closing caboose doors-equipment moving	6	5	1	6	---	---	---
917T Opening or closing caboose windows-equipment moving	3	3	---	3	---	---	---
918T Opening and closing other windows-equipment moving	6	2	1	3	3	---	---
919T Other accidents/incidents involving windows or doors-eqp mov	24	17	3	20	2	---	2
SUBTOTAL.....	127	87	16	103	22	---	2
PASSENGER CAR DOORS							
920T Caught by side doors while entering coach-equipment moving	2	---	---	---	2	---	---
921T Caught by side doors while exiting coach-equipment moving	1	---	---	---	1	---	---
924T Struck by side doors while entering coach-equipment moving	3	1	1	2	1	---	---
SUBTOTAL.....	6	1	1	2	4	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED							
930T Stumbling/slipping, etc. on snow or ice - equipment moving	16	15	1	16	---	---	---
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	62	50	10	60	1	1	---
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	10	9	---	9	---	---	1
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	7	5	---	5	---	---	2
935T From bridges of trestles-equipment moving	6	1	---	1	---	---	5
936T From structures other than bridges or trestles-equipment moving	2	---	2	2	---	---	---
937T Into depressions - equipment moving	10	10	---	10	---	---	---
938T While on locomotive or car-equipment moving	92	59	8	67	20	2	3
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	29	13	4	17	9	3	---
SUBTOTAL.....	234	162	25	187	30	6	11
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.							
940T Foreign object in eye-equipment moving	457	441	16	457	---	---	---
941T Struck by flying of falling object (except assaults)-eqp mov	49	26	15	41	6	1	1
942T Electrical flash, shock, or burn-equipment moving	2	2	---	2	---	---	---
943T Fire or explosion of fuses or torpedoes-equipment moving	8	7	---	7	1	---	---
944T Other fire or explosion-equipment moving	1	1	---	1	---	---	---
945T Burned by hot or corrosive substances-equipment moving	33	28	5	33	---	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	11	9	2	11	---	---	---

TABLE 67 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. (CONT.)						
947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	1	---	1	---	---
949T Other A/I resulting from flying/falling obje, burns, etc. - eqp mov	13	9	1	10	---	---
SUBTOTAL.....	575	524	39	563	---	10
OPERATION OF ON-TRACK WORK EQUIPMENT						
950T Collision with train or car	11	2	9	11	---	---
951T Collision with other on-track work equipment	23	---	23	23	---	---
952T Jumping from equipment in anticipation of a collision	21	10	11	21	---	---
953T Derailment that does not satisfy monetary threshold	143	5	138	143	---	---
954T Getting on/off on-track work equipment - equipment moving	5	1	3	4	---	1
959T Other A/I involving on-track work equipment - equipment moving	42	2	40	42	---	---
SUBTOTAL.....	245	20	224	244	---	1
ASSAULT						
96AT Shot while on moving on-track equipment	9	8	1	9	---	---
96CT Struck by other propelled object while on locomotive - equip moving	31	30	1	31	---	---
96DT Struck by other propelled object while on car - equip moving	11	8	1	9	---	2
96ET Struck by other propelled object while on caboose - equip moving	40	40	---	40	---	---
96GT Other unprovoked assaults to persons on moving on-track equipment	12	9	1	10	---	2
96JT Shot while on moving on-track equipment	1	1	---	1	---	---
96LT Other assaults connected with the protection of RR property - eqp moving	4	1	2	3	1	---
96MT All other assaults involving moving on-track equipment	3	2	1	3	---	---
SUBTOTAL.....	111	99	7	106	1	4
OTHER OCCURRENCES						
970T Performing rerailling or other clearing operations-equipment moving	4	1	3	4	---	---
971T Loco or car coming against car placed for loading or unloading	7	3	2	5	---	2
972T Sudden movement of car, not otherwise classified	69	33	24	57	---	10
974T Slack action in caboose	287	281	6	287	---	---
975T Slack action, other	75	70	3	73	---	1
976T Emergency or severe application of air brakes due to def eqp	5	4	1	5	---	---
977T Emergency or severe application of air brakes not due to def eqp	39	38	---	38	---	1
986T Unexpected move of caboose, not slack action (include emergency & severe brking)	76	72	4	76	---	---
988T Other accidents/incidents while in caboose, equipment moving	67	67	---	67	---	---
989T Other accidents/incidents-equipment moving	68	37	19	56	---	8
SUBTOTAL.....	697	606	62	668	---	19
GRAND TOTAL.....	7,577	3,832	812	4,644	12	128
					2,200	593

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

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATING OR ON LOCOMOTIVES						
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	1	1	---	1	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	20	20	---	20	---	---
112T Foreign object in eye - equipment moving	1	1	---	1	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	2	1	1	2	---	---
SUBTOTAL.....	24	23	1	24	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
940T Foreign object in eye-equipment moving	1	1	---	1	---	---
942T Electrical flash, shock, or burn-equipment moving	1	1	---	1	---	---
945T Burned by hot or corrosive substances-equipment moving	1	1	---	1	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	33	32	1	33	---	---
SUBTOTAL.....	36	35	1	36	---	---
OTHER OCCURRENCES						
987T Caboose fire, equipment moving	2	2	---	2	---	---
988T Other accidents/incidents while in caboose, equipment moving	2	2	---	2	---	---
989T Other accidents/incidents-equipment moving	1	---	1	1	---	---
SUBTOTAL.....	5	4	1	5	---	---
GRAND TOTAL.....	65	62	3	65	---	---

CASUALTIES IN NON-TRAIN INCIDENTS

TABLE 69 FATALITIES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Killed	...Employees On Duty...		Eng Not On Duty	Passenger	Nontrain-passenger	Train-passenger
		Trainmen	Other				
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
057 Opening or closing angle cocks - equipment standing	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
609 Casualty at public rail-hwy X-ing (not rptd on form 6160-54)-eqp std	4	---	---	---	---	4	---
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							
819 Struck by flying or falling object	1	---	1	1	---	---	---
820 Electrical flash, shock, or burn	1	---	1	1	---	---	---
821 Fire or explosion of fuses or torpedoes	1	---	1	1	---	---	---
SUBTOTAL.....	3	---	3	3	---	---	---
MAINTENANCE OF WAY AND STRUCTURES							
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---	---
864 Handling material by hand	1	---	---	---	---	1	---
870 Electrical flash, shock, or burn	1	---	1	1	---	---	---
892 Working on or about sgls or comm. poles, sgls, seats, apl cantilevers or catenary	2	---	2	2	---	---	---
893 Servicing or repairing MOW equipment at work site	1	---	1	1	---	---	---
SUBTOTAL.....	6	---	5	5	---	1	---
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT							
910 Closing or opening plug type car doors, defective equipment-eqp std	2	1	1	2	---	---	---
SUBTOTAL.....	2	1	1	2	---	---	---
STUNTLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED							
935 From bridges or trestles	3	1	---	1	---	---	2
936 From structures other than bridges or trestles	1	---	---	---	---	1	---
939 Other, stumbling, slipping, falling, caught, etc.	1	---	---	---	---	1	---
SUBTOTAL.....	5	1	---	1	---	2	2
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.							
941 Struck by flying or falling object (except assaults)	2	---	1	1	1	---	---
942 Electrical flash, shock, or burn	1	---	1	1	---	---	---
946 Inhalation of or contact with fumes or gases	1	---	---	---	---	---	1
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	6	---	---	---	---	---	6
949 Other acc/inc resulting from flying/falling obje, burns, etc.	1	---	---	---	---	---	1
SUBTOTAL.....	11	---	2	2	1	---	8
OPERATION OF ON-TRACK MOW EQUIPMENT							
959 Other A/I involving on-track work equipment - equipment standing	1	---	1	1	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---
ASSAULT							
958 Shooting incidents not involving persons on on-track equipment	1	---	1	1	---	---	---
966 All other unprovoked assaults	1	---	---	---	---	---	1
SUBTOTAL.....	2	---	1	1	---	---	1
OTHER OCCURRENCES							
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	11	---	4	4	1	---	4
980 Horseplay	2	---	1	1	---	---	1
989 Other accidents/incidents	2	---	---	---	---	---	1
SUBTOTAL.....	15	---	5	5	1	---	4
GRAND TOTAL.....	51	3	18	21	2	---	17

TABLE 70

INJURIES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
002 Adjusting coupler - equipment standing	302	289	13	302	---	---
003 Crossing over, under or between on-track equipment, equipment standing	6	5	1	6	---	---
004 Adjusting coupler, part of coupler fell striking person-eqp standing	49	44	5	49	---	---
005 Use of uncoupling lever - equipment standing	88	77	11	88	---	---
007 Striking parts of body against equipment - equipment standing	33	26	7	33	---	---
008 Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std	93	87	6	93	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	93	81	12	93	---	---
SUBTOTAL.....	664	609	55	664	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
051 Crossing over, under or between on-track equipment, equipment standing	10	7	3	10	---	---
052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std	34	30	4	34	---	---
053 Coupling air hose, stk by hose due to sudden release of air - eqp std	32	27	5	32	---	---
054 Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp standing	51	41	10	51	---	---
055 Defective equipment - equipment standing	4	2	2	4	---	---
056 Burned by hot water or steam from hose - equipment standing	1	1	---	1	---	---
057 Opening or closing angle cocks - equipment standing	52	42	10	52	---	---
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	125	104	21	125	---	---
SUBTOTAL.....	309	254	55	309	---	---
OPERATING OR ON LOCOMOTIVES						
101 Burn or electrical shock - equipment standing	8	4	4	8	---	---
102 Striking parts of body against equipment, moving about loco-eqp std	48	36	12	48	---	---
103 Struck by tools or other objects falling - equipment standing	10	6	4	10	---	---
104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	90	68	22	90	---	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing	48	24	24	48	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	8	8	---	8	---	---
110 Defective locomotive seat - equipment standing	21	19	2	21	---	---
111 Adjusting locomotive seat - equipment standing	30	28	2	30	---	---
112 Foreign object in eye - equipment standing	53	47	6	53	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	64	59	5	64	---	---
SUBTOTAL.....	380	299	81	380	---	---
OPERATING RAIL MOTORCARS						
151 Striking parts of body against equipment - equipment standing	11	4	7	11	---	---
152 Struck by tools or other objects falling - equipment standing	4	1	3	4	---	---
153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	14	10	4	14	---	---
155 Placing or removing rail motorcar on or off rail	45	---	45	45	---	---
159 Other accidents/incidents while operating rail motorcars - eqp std	6	3	3	6	---	---
SUBTOTAL.....	80	18	62	80	---	---

TABLE 70 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers	
OPERATING HAND BRAKES								
200	Manipulating hand brakes, no defects, equipment standing	206	194	12	206	---	---	---
201	Defective equipment - equipment standing	35	33	2	35	---	---	---
202	Pawl slipping or accidentally knocked out of ratchet - eqp standing	6	6	---	6	---	---	---
203	Striking body not due to movement of equipment	24	23	1	24	---	---	---
205	Caught between parts of equipment or lading - equipment standing	3	2	1	3	---	---	---
206	Brake chains or bolts, breaking or giving way - equipment standing	9	7	2	9	---	---	---
207	Losing hold, slipping, or falling - equipment standing	47	46	1	47	---	---	---
208	Caught hand or fingers in spinning brake wheel - equipment standing	12	11	1	12	---	---	---
209	Other accidents/incidents while operating hand brakes - eqp standing	62	60	2	62	---	---	---
	SUBTOTAL.....	404	382	22	404	---	---	---
OPERATING SWITCHES OR DERAILS								
301	Slipped, tripped or fell due to ice or snow	41	36	5	41	---	---	---
302	Slipped, tripped or fell not due to ice or snow	49	41	8	49	---	---	---
303	Parts of body struck or caught by mechanism of switch	82	66	16	82	---	---	---
305	Lining switches, defective equipment	163	151	12	163	---	---	---
306	Lining switches, no defects	659	594	65	659	---	---	---
307	Manipulating derail, no defects	33	30	3	33	---	---	---
308	Manipulating derail, defective equipment	9	8	1	9	---	---	---
309	Other acc/inc while operating switches/derails - equipment standing	146	131	15	146	---	---	---
	SUBTOTAL.....	1,182	1,057	125	1,182	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
401	Persons on top locos/cars contacting fixed objects - equipment std	7	4	3	7	---	---	---
402	Persons on side/end of locos/cars contacting fixed objects - eqp std	6	4	2	6	---	---	---
409	Persons on loco/car coming in contact with fixed obj(other)-eqp std	16	8	6	14	---	1	1
	SUBTOTAL.....	29	16	11	27	---	1	1
GETTING ON OR OFF CARS OR LOCOMOTIVES								
501	Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp std	84	57	24	81	---	1	2
502	Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp std	214	140	63	203	2	7	1
503	Stepping or tripping on parts of track in place - equipment standing	59	44	11	55	1	---	3
504	Stepping or tripping on foreign material or irreg surface - eqp std	281	228	46	274	---	4	3
505	Slipping on ice or snow on ground - equipment standing	35	28	4	32	---	2	1
506	Slipping on ice/snow on cars or locomotives - equipment standing	32	19	11	30	---	---	2
507	Falling, slipping, tripping, not elsewhere classified - eqp std	113	63	34	97	5	4	5
508	Slipping/falling while boarding/alighting fm passenger eqp(standing)	122	20	14	34	---	80	8
511	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	45	31	8	39	---	2	3
513	Jumping from equipment - equipment standing	15	5	10	15	---	---	---
514	Defective equipment - equipment standing	29	17	11	28	---	---	1
519	Other acc/inc while getting on or off cars or locos - equipment std	192	137	50	187	1	2	2

TABLE 70 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers		
GETTING ON OR OFF CARS OR LOCOMOTIVES (CONT.)								
SUBTOTAL.....	1,221	789	286	1,075	9	102	31	4
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	80	1	1	2	---	---	73	5
610 Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std	1	---	---	---	---	---	1	---
SUBTOTAL.....	81	1	1	2	---	---	74	5
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	7	2	---	2	1	---	---	4
703 Crossing track not at a crossing - equipment standing	5	1	---	1	---	---	1	3
708 Passing over, through, or under cars - equipment standing	9	---	2	2	1	---	---	6
709 Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	4	1	1	2	1	---	---	1
SUBTOTAL.....	25	4	3	7	3	---	1	14
SERVICING OR MAINTENANCE OF EQUIPMENT								
802 Crossing over, under, or between locos or cars - equipment standing	34	2	31	33	---	---	1	---
803 Striking or being struck by eqp, structures, or material-eqp std	478	6	467	473	1	---	4	---
804 Use of hand tools	698	5	690	695	---	---	3	---
805 Use of portable power tools	104	1	103	104	---	---	---	---
806 Use of welding equipment	92	---	92	92	---	---	---	---
807 Use of oxygen-acytelene, natural gas cutting equipment	88	---	88	88	---	---	---	---
808 Use of grinding equipment	44	---	44	44	---	---	---	---
809 Use of scaffolds, ladders, etc.	62	---	60	60	---	---	2	---
81A Lifting parts to install while making repairs	189	2	186	188	---	---	1	---
810 Use of cranes, hoists, derricks, piledrivers, etc.	104	---	103	103	---	---	1	---
811 Use of lift trucks and other portable material handling eqp	99	1	97	98	---	---	1	---
812 Use of shop machinery not elsewhere classified	108	1	107	108	---	---	---	---
813 Loading and unloading materials	222	---	221	221	---	---	1	---
814 Handling material by hand	743	5	736	741	1	---	1	---
816 Inhalation of or contact with fumes or gases	7	---	7	7	---	---	---	---
817 Foreign object in eye, using eye protection	218	3	213	216	1	---	1	---
818 Foreign object in eye, not using eye protection	260	5	251	256	3	---	1	---
819 Struck by flying or falling object	264	3	259	262	---	---	2	---
820 Electrical flash, shock, or burn	73	2	71	73	---	---	---	---
821 Fire or explosion of fuses or torpedoes	4	1	3	4	---	---	---	---
822 Other fire or explosion	20	---	20	20	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	99	---	99	99	---	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	1,000	17	954	971	25	---	4	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	946	10	928	938	3	---	5	---
SUBTOTAL.....	5,956	64	5,830	5,894	34	---	28	---

TABLE 70 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty...	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES						
852 Crossing over, under, or between locos or cars-eqp std	12	1	10	11	1	---
853 Striking or being struck by eqp, structures, or material-eqp std	290	1	284	285	3	2
854 Use of hand tools	1,081	4	1,065	1,069	2	10
855 Use of portable power tools	272	1	270	271	---	1
856 Use of welding equipment	58	---	56	56	1	1
857 Use of oxygen-acetylene, natural gas cutting equipment	34	---	34	34	---	---
858 Use of grinding equipment	91	---	90	90	---	1
859 Use of scaffolds, ladders, etc.	69	1	67	68	---	1
860 Use of cranes, hoists, derricks, piledrivers, etc.	173	---	171	171	---	2
861 Use of lift trucks and other portable material handling eqp	72	---	72	72	---	---
862 Use of shop machinery not elsewhere classified	44	---	44	44	---	---
863 Loading and unloading materials	669	3	662	665	1	3
864 Handling material by hand	1,028	4	1,015	1,019	1	8
866 Inhalation of or contact with fumes or gases	5	---	5	5	---	---
867 Foreign object in eye, using eye protection	158	1	154	155	---	3
868 Foreign object in eye, not using eye protection	228	6	217	223	1	4
869 Struck by flying of falling object	418	2	413	415	---	3
870 Electrical flash, shock, or burn	34	3	31	34	---	---
871 Fire or explosion of fusees or torpedoes	3	---	3	3	---	---
872 Other fire or explosion	24	---	23	23	1	---
873 Burned or irritated by hot, corrosive or toxic substances	72	2	69	71	---	1
874 Stumbling, slipping, falling, caught, not elsewhere classified	1,088	5	1,042	1,047	36	5
875 Use of maintenance of way equipment not elsewhere classified	226	---	225	225	1	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	520	1	519	520	---	---
877 Insert/remove ties, switch timbers and tie plates using portable power tools	102	---	101	101	1	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	423	1	420	421	1	1
879 Handling rail by use of power tools	81	1	80	81	---	---
880 Handling rail by use of hand tools	325	2	323	325	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	193	---	193	193	---	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	618	2	616	618	---	---
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	229	2	227	229	---	---
893 Servicing or repairing MOW equipment at work site	167	---	167	167	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	521	1	508	509	5	7
SUBTOTAL.....	9,328	44	9,176	9,220	55	53
FREIGHT, BAGGAGE, EXPRESS OR MAIL						
901 Handling freight, baggage, express or mail	190	11	179	190	---	---
902 Struck or caught by shifted lading	14	---	13	13	---	1
903 Tripping over, or struck by falling baggage in passenger car-eqp std	3	---	1	1	1	1
904 Other accident/incident involving freight, baggage, express, or mail	16	2	12	14	1	1
SUBTOTAL.....	223	13	205	218	2	2
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT						
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	36	2	32	34	---	2
908 Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	25	5	18	23	---	2
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	56	4	50	54	1	---
910 Closing or opening plug type car doors, defective equipment-eqp std	19	1	18	19	---	---
911 Closing or opening plug type car doors, no defects-equipment std	23	6	17	23	---	---

TABLE 70 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT (CONT.)						
912 Closing or opening coach trap doors-equipment standing	62	40 19	59	3	---	---
913 Interior doors-equipment standing	38	14 19	33	3	---	---
914 Opening or closing locomotive doors-equipment standing	61	43 14	57	3	1	---
915 Opening or closing locomotive windows-equipment standing	16	15 1	16	---	---	---
916 Opening or closing caboose doors-equipment standing	9	6 3	9	---	---	---
917 Opening or closing caboose windows-equipment standing	3	3 ---	3	---	---	---
918 Opening and closing other windows	10	8 2	10	---	---	---
919 Other accidents/incidents involving windows or doors	110	27 75	102	2	2	---
SUBTOTAL.....	468	174 268	442	11	7	1
PASSENGER CAR DOORS						
920 Caught by side doors while entering coach-equipment standing	14	5 3	8	3	3	---
921 Caught by side doors while exiting coach-equipment standing	6	1 2	3	2	1	---
924 Struck by side doors while entering coach-equipment standing	8	2 ---	2	6	---	---
925 Struck by side doors while exiting coach-equipment standing	6	1 2	3	3	---	---
926 Striking side door while entering coach-equipment standing	5	3 1	4	1	---	---
SUBTOTAL.....	39	12 8	20	15	4	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
930 Stumbling/slipping, etc. on snow or ice	363	149 147	296	3	23	---
931 Stumbling/slipping, etc. on foreign material or irregular surface	891	466 350	816	10	22	3
932 Stumbling/slipping, etc. on parts of track in place	180	103 65	168	4	4	1
933 Stumbling/slipping, etc. on stairways, ramps or platforms	565	60 198	258	99	158	---
934 Slip/fall, etc. between loco/car and other cars and struct-eqp std	47	19 16	35	10	1	1
935 From bridges or trestles	36	7 20	27	---	3	3
936 From structures other than bridges or trestles	27	2 21	23	---	2	1
937 Into depressions	113	60 45	105	3	2	---
938 While on locomotive or car-equipment standing	93	34 45	79	5	6	2
939 Other, stumbling, slipping, falling, caught, etc.	258	86 123	209	8	25	4
SUBTOTAL.....	2,573	986 1,030	2,016	142	246	15
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
940 Foreign object in eye	335	240 81	321	4	---	---
941 Struck by flying or falling object (except assaults)	157	43 85	128	3	25	---
942 Electrical flash, shock, or burn	16	1 7	8	1	3	3
943 Fire or explosion of fuses or torpedoes	10	9 1	10	---	---	---
944 Other fire or explosion	8	5 3	8	---	---	---
945 Burned by hot or corrosive substances	22	3 14	17	1	1	---
946 Inhalation of or contact with fumes or gases	76	13 63	76	---	---	---
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	10	2 1	3	---	---	7
949 Other acc/inc resulting from flying/falling objs, burns, etc.	30	10 19	29	---	---	1
SUBTOTAL.....	664	326 274	600	5	33	11

TABLE 70 (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
OPERATION OF ON-TRACK WORK EQUIPMENT								
954 Getting on/off on-track work equipment - equipment standing	50	2	47	49	---	1	---	---
959 Other A/I involving on-track work equipment - equipment standing	83	1	81	82	---	1	---	---
SUBTOTAL.....	133	3	128	131	---	2	---	---
ASSAULT								
96A Shot while on standing on-track equipment	2	1	---	1	---	1	---	---
96B Shooting incidents not involving persons on on-track equipment	8	1	3	4	---	---	2	2
96C Struck by other propelled object while on locomotive - equip standing	1	1	---	1	---	---	---	---
96D Struck by other propelled object while on car - equip standing	3	1	1	2	---	1	---	---
96E Struck by other propelled object while on caboose - equip standing	3	2	1	3	---	---	---	---
96F Struck by other propelled object, not on on-track equipment	8	4	3	7	1	---	---	---
96G All other unprovoked assaults	81	30	33	63	5	3	10	---
96K Shooting incidents that did not involve persons on on-track equipment	1	---	1	1	---	---	---	---
96L Other assaults connected with the protection of RR property - eqp standing	49	5	44	49	---	---	---	---
96M All other assaults not involving moving on-track equipment	39	3	34	37	1	---	1	---
96N Injuries sustained by ther perpetrator of an assault	9	1	7	8	---	---	---	1
SUBTOTAL.....	204	49	127	176	7	5	13	3
OTHER OCCURRENCES								
970 Performing rerailling or other clearing operations	55	7	47	54	---	---	1	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	587	70	446	516	26	---	32	13
979 Servicing and maintenance of highway vehicles	37	---	32	32	1	---	4	---
980 Horseplay	31	5	22	27	4	---	---	---
981 Animal bites, including snake bites	18	4	7	11	3	---	---	4
982 Insect bites	281	97	177	274	6	1	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	428	5	407	412	16	---	---	---
984 Contact with poisonous plants	58	3	55	58	---	---	---	---
985 Stepping on nails or other sharp objects	58	22	33	55	3	---	---	---
987 Caboose fire, equipment standing	2	---	1	1	1	---	---	---
988 Other accidents/incidents while in caboose, equipment standing	33	30	3	33	---	---	---	---
989 Other accidents/incidents	532	155	297	452	35	3	34	8
SUBTOTAL.....	2,120	398	1,527	1,925	95	4	71	25
GRAND TOTAL.....	26,083	5,498	19,274	24,772	379	288	564	80

TABLE 71

ILLNESSES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRENCE
AND TYPE OF PERSON

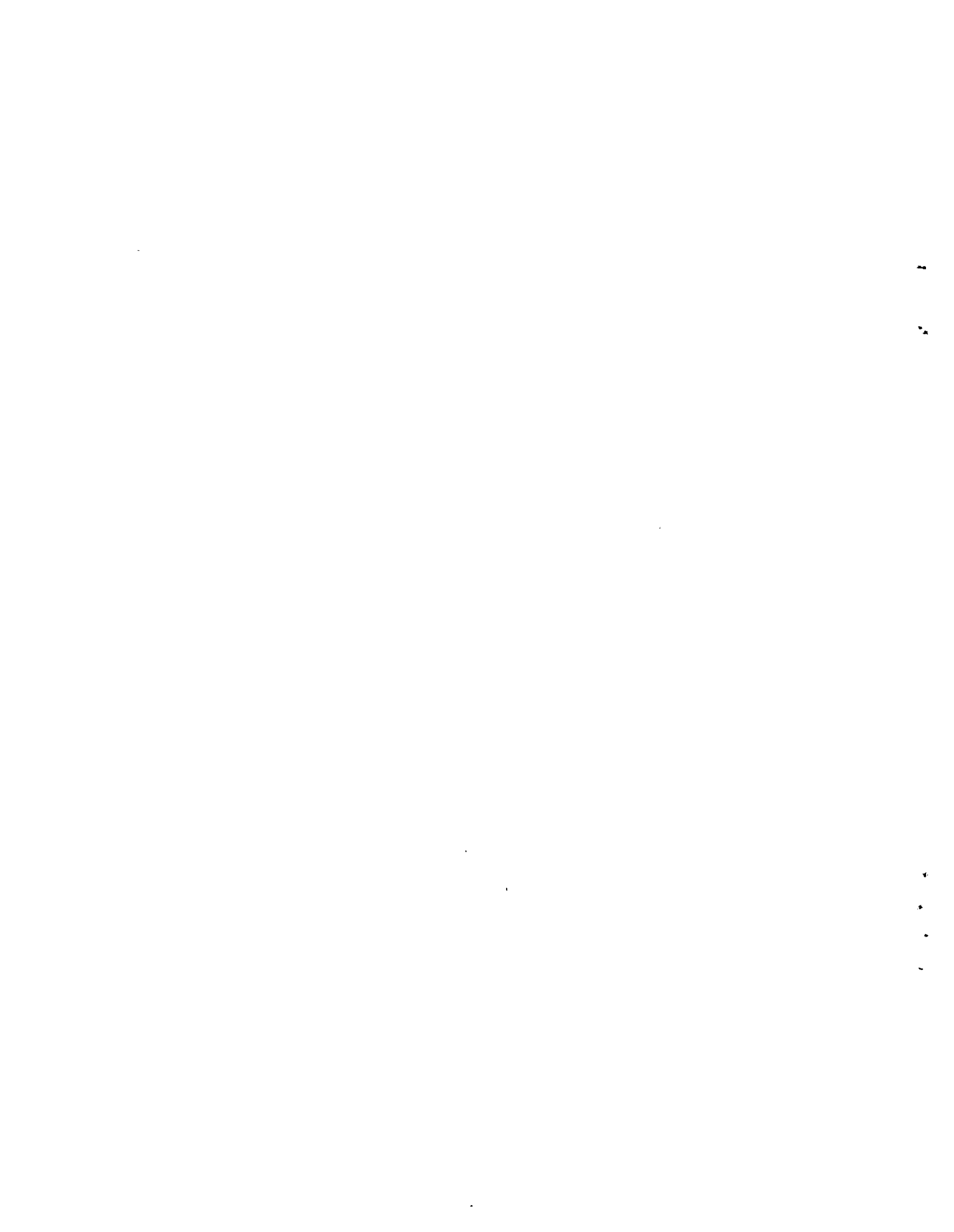
Occurrence	Total Illness	...Employees On Duty...		Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
		Trainmen	Other				
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.							
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	1	1	---	1	---	---	---
SUBTOTAL.....	1	1	---	1	---	---	---
OPERATING OR ON LOCOMOTIVES							
102 Striking parts of body against equipment, moving about loco-eqp std	1	---	1	1	---	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	16	15	1	16	---	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	4	2	2	4	---	---	---
SUBTOTAL.....	21	17	4	21	---	---	---
OPERATING SWITCHES OR DERAILS							
306 Lining switches, no defects	1	1	---	1	---	---	---
309 Other acc/inc while operating switches/derails - equipment standing	2	2	---	2	---	---	---
SUBTOTAL.....	3	3	---	3	---	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES							
506 Slipping on ice/snow on cars or locomotives - 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	2	---	2	2	---	---	---
805 Use of portable power tools	1	---	1	1	---	---	---
806 Use of welding equipment	10	---	10	10	---	---	---
81A Lifting parts to install while making repairs	2	---	2	2	---	---	---
814 Handling material by hand	10	---	10	10	---	---	---
816 Inhalation of or contact with fumes or gases	32	---	32	32	---	---	---
820 Electrical flash, shock, or burn	9	---	9	9	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	10	---	10	10	---	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	21	---	21	21	---	---	---
SUBTOTAL.....	98	---	98	98	---	---	---
MAINTENANCE OF WAY AND STRUCTURES							
854 Use of hand tools	6	---	6	6	---	---	---
855 Use of portable power tools	2	---	2	2	---	---	---
856 Use of welding equipment	5	---	5	5	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---	---
863 Loading and unloading materials	3	---	3	3	---	---	---
864 Handling material by hand	7	---	7	7	---	---	---
866 Inhalation of or contact with fumes or gases	13	1	12	13	---	---	---
869 Struck by flying of falling object	2	---	2	2	---	---	---
870 Electrical flash, shock, or burn	2	---	2	2	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances	11	---	11	11	---	---	---
875 Use of maintenance of way equipment not elsewhere classified	5	---	5	5	---	---	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	20	---	20	20	---	---	---
877 Insert/remove ties, switch timbers and tie plates using portable power tools	1	---	1	1	---	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	6	---	6	6	---	---	---

TABLE 71 (CONTINUED)

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passers
MAINTENANCE OF WAY AND STRUCTURES (CONT.)						
879 Handling rail by use of power tools	1	---	1	---	---	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	5	---	5	---	---	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	5	---	5	---	---	---
892 Working on or about sgnl or comm. poles, sgnl masts, sgnl cantilevers or catenary	2	---	2	---	---	---
893 Servicing or repairing MOW equipment at work site	3	---	3	---	---	---
899 Other accs/incs while maintaining way and structures - eqp standing	41	---	40	1	---	---
SUBTOTAL.....	141	1	139	140	1	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
933 Stumbling/slipping, etc. on stairways, ramps or platforms	1	---	1	---	---	---
939 Other, stumbling, slipping, falling, caught, etc.	2	1	1	2	---	---
SUBTOTAL.....	3	1	2	3	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
943 Fire or explosion of fuses or torpedoes	1	1	---	1	---	---
944 Other fire or explosion	4	4	---	4	---	---
945 Burned by hot or corrosive substances	7	4	3	7	---	---
946 Inhalation of or contact with fumes or gases	90	53	36	89	1	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	3	---	3	3	---	---
SUBTOTAL.....	105	62	42	104	1	---
OPERATION OF ON-TRACK WORK EQUIPMENT						
959 Other A/I involving on-track work equipment - equipment standing	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---
ASSAULT						
966 All other unprovoked assaults	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
OTHER OCCURRENCES						
970 Performing rerailling or other clearing operations	3	---	3	3	---	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	1	---	1	1	---	---
980 Horseplay	1	---	1	1	---	---
981 Animal bites, including snake bites	2	---	2	2	---	---
982 Insect bites	11	2	9	11	---	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel	6	---	6	6	---	---
984 Contact with poisonous plants	163	5	158	163	---	---
989 Other accidents/incidents	30	6	22	28	1	---
SUBTOTAL.....	217	13	202	215	1	---
GRAND TOTAL.....	592	100	488	588	3	---

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

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REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1983 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 \$4,500 in damages to railroad on-track equipment, signals, track, track structures, and roadbed;

(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. An 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 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.

Nontrepassers. 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 employee 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.

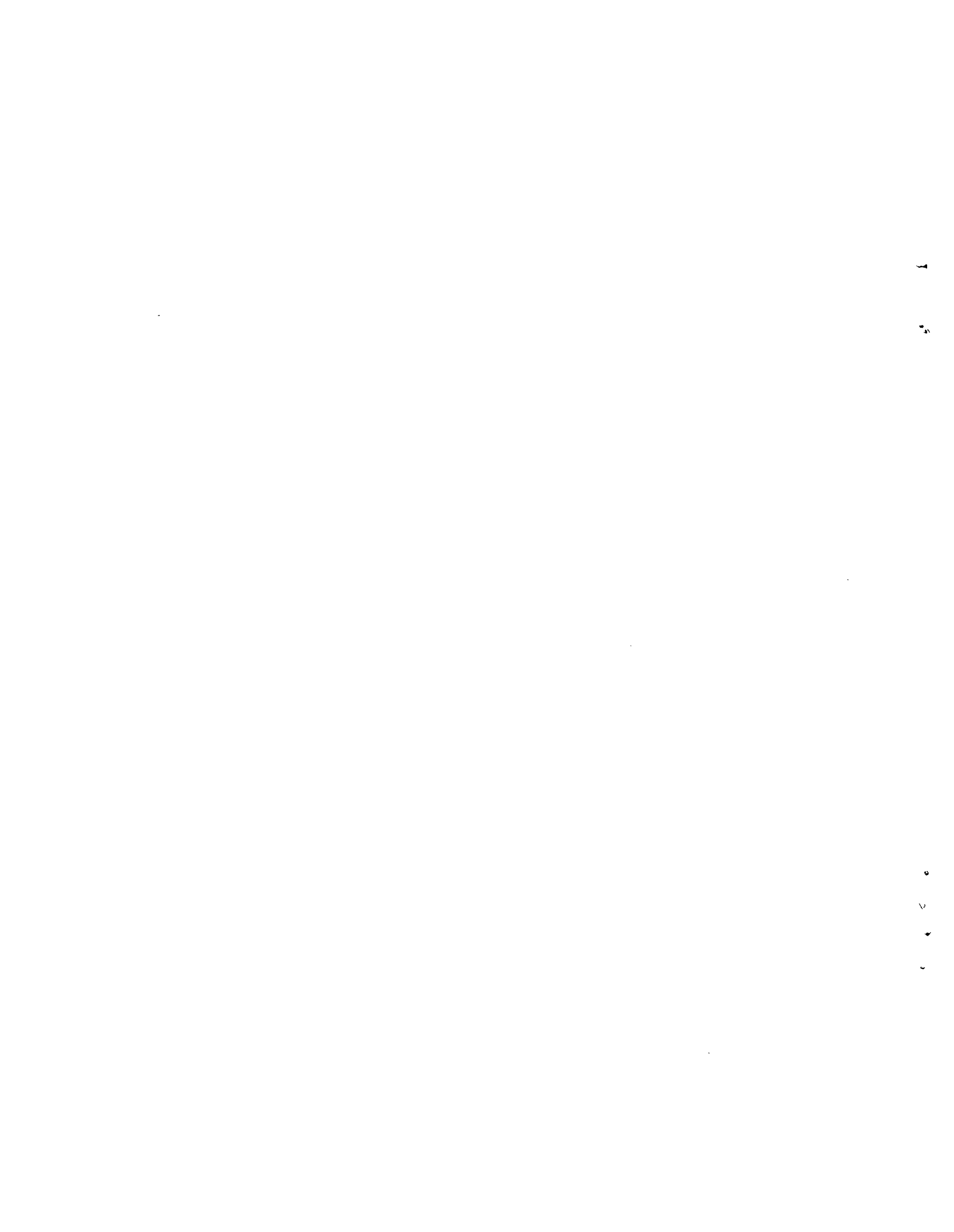
Trainmen. Persons employed as engineers and motormen, firemen and helpers, conductors, brakemen, and flagmen engaged in passenger, freight, yard or work service, and train baggagemen. Does not include hostlers.

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

Trepasser. Any person whose presence on railroad property, used in railroad operations, 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)										
<p>6. I, _____, being first duly sworn, do say upon my oath that I am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief.</p> <p>Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19_____.</p> <p>(Use an impression seal) _____ (Notary Public) (Signature of affiant)</p>																		
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 6180-54			TOTAL FRA FORMS 6180-57									
SECTION A—RECAPITULATION OF ALL CASUALTIES INCLUDING HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								CLASS OF PERSON FOR SECTIONS A AND B		SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES								
TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL				TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL		
Kid	Inj	Kid	Inj	Kid	Inj	Kid	Inj			Kid	Inj	Kid	Inj	Kid	Inj	Kid	Inj	
								1. Employees on duty 2. Employees not on duty 3. Passengers on trains 4. Other nontrespassers. 5. Trespassers (all classes) 6. Contractor Employees 7. GRAND TOTAL										
SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES																		
LINE NO.	ACCIDENT/INCIDENT NUMBER				TYPE PERSON OR JOB CODE		DATE OF INJURY			DATE OF DEATH			STATE					
1.																		
2.																		
3.																		
4.																		

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

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

**RAILROAD INJURY
AND
ILLNESS SUMMARY**
(CONTINUATION SHEET)

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

9.

CASUALTIES (Cont.)

a. ACCIDENT/ INCIDENT NUMBER	b. TYPE PERSON OR JOB CODE	c. INJURY OR ILLNESS CODE	d. OCCURRENCE CODE	e. AGE	f. NUMBER OF DAYS AWAY FROM WORK	g. NUMBER OF DAYS OF RESTRICTED ACTIVITY	h. CASES WITH- OUT LOST WORK DAYS	i. STATE ALPHABETIC CODE

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD <div style="text-align: right;">Amtrak Autotrain</div>		1a. Alphabetic Code	1b. Railroad Accident/Incident No.	
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT		2a. Alphabetic Code	2b. Railroad Accident/Incident No.	
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)		3a. Alphabetic Code	3b. Railroad Accident/Incident No.	
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER		5. DATE OF ACCIDENT/INCIDENT month day year		6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>
7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) 1. Derailment 3. Rear end collision 5. Raking collision 7. Rail-Hwy crossing 9. Obstruction 11. Fire or violent rupture 12. Other (specify) 2. Head on collision 4. Side collision 6. Broken train collision 8. RR grade crossing 10. Explosion-Detonation				
HAZARDOUS MATERIALS (number of)				
8. CARS CARRYING	9. CARS DAMAGED OR DERAILED	10. CARS WHICH RELEASED HAZ. MAT.	11. PEOPLE EVACUATED (est.)	
LOCATION				
12. DIVISION	13. NEAREST STATION	14. MILEPOST (to nearest tenth)	15. STATE (two letter code)	CODE
ENVIRONMENTAL CONDITIONS				
16. TEMPERATURE (specify if minus) °F	17. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark	CODE	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 <input type="checkbox"/> Manual block	4 <input type="checkbox"/> Automatic block	7 <input type="checkbox"/> Yard rules	10 <input type="checkbox"/> Auto. train control	13 <input type="checkbox"/> Other (specify)
2 <input type="checkbox"/> Interlocking	5 <input type="checkbox"/> Traffic control	8 <input type="checkbox"/> Time table	11 <input type="checkbox"/> Verbal permission	
3 <input type="checkbox"/> Cab signal	6 <input type="checkbox"/> Auto. train stop	9 <input type="checkbox"/> Radio	12 <input type="checkbox"/> Train orders	
20. SPEED (recorded speed, if available) Est. MPH Recorded		21. TRAIN NUMBER	22. TIME TABLE DIRECTION 1. North 2. South 3. East 4. West	
EQUIPMENT				
23. TRAILING TONS (gross tonnage, excluding power units)	24. TYPE OF EQUIPMENT CONSIST (single entry) 1. Freight train 3. Mixed train 5. Single car 7. Yard/switching 2. Passenger train 4. Work train 6. Cut of cars 8. Light loco(s)		CODE	25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? 1. Yes 2. No
26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION	28. ANNUAL TRACK DENSITY (gross tons in millions)	29. TYPE OF TRACK 1. Main 3. Siding 2. Yard 4. Industry	
30. PRINCIPLE CAR/UNIT (1) First Involved (derailed, struck, striking, etc.) (2) Causing (mechanical failures)	30a. Initial and Number	30b. Position in Train	30c. Loaded (yes or no)	
31. LOCOMOTIVE UNITS (no. of)	a. Head End	Mid Train	Rear End	32. CARS (no. of)
	b. Manual	c. Remote	d. Manual e. Remote	
(1) Total in Train				(1) Total in Equipment Consist
(2) Total Derailed				(2) Total Derailed
PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)				
33. EQUIPMENT DAMAGE (to be reported for this equipment consist only)		\$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only)	
ACCIDENT/INCIDENT CAUSE CODE				
35. PRIMARY CAUSE	CODE	36. CONTRIBUTING CAUSE	CODE	37. If no code available, explain cause.
CASUALTIES				
38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY		40. NUMBER OF FATALITIES	
CREW (no. of)				
41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN	45. ENGINEER
				Hrs: Mins:
				46. CONDUCTOR
				Hrs: Mins:
47. TYPED NAME AND TITLE			48. SIGNATURE	
			49. DATE	

50. NARRATIVE DESCRIPTION - Describe the cause, nature and circumstances of accident/incident

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

1. NAME OF REPORTING RAILROAD Amtrak Autotrain	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT	2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry)	3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER	5. DATE OF ACCIDENT/INCIDENT month day year	6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/>

LOCATION

7. NEAREST RAILROAD STATION	8. COUNTY	9. STATE (two letter code)	CODE
10. CITY (if in a city)	11. HIGHWAY NAME OR NUMBER (if private crossing, so state)		

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED				RAILROAD EQUIPMENT INVOLVED					
12. TYPE 1. Auto 2. Truck	3. Truck-Trailer 4. Bus 5. School Bus	6. Motorcycle 7. Pedestrian 8. Other (specify)	CODE	16. EQUIPMENT 1. Train (units pulling) 2. Train (units pushing)	3. Train (standing) 4. Car(s) (moving) 5. Car(s) (standing)	6. Light locols (moving) 7. Light locols (standing) 8. Other (specify)	CODE		
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				18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user				CODE	
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials?								CODE	
								1. Highway user 2. Rail equipment 3. Both 4. Neither	

ENVIRONMENT

20. TEMPERATURE (specify, if minus) °F	21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark	CODE	22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow	CODE
--	---	-------------	--	-------------

TRAIN AND TRACK

23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)	CODE	24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry	CODE
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION		27. NUMBER OF LOCOMOTIVE UNITS
28. NUMBER OF CARS	29. TRAIN SPEED (recorded speed, if available) MPH Recorded Est		30. TIME TABLE DIRECTION 1. North 3. East 2. South 4. West
CODE			

CROSSING WARNING

31. TYPE (place X in appropriate box(es)) 1. <input type="checkbox"/> Gates 5. <input type="checkbox"/> Hwy. Traffic Signals 9. <input type="checkbox"/> Watchman 2. <input type="checkbox"/> Cantilever FLS 6. <input type="checkbox"/> Audible 10. <input type="checkbox"/> Flagged by crew 3. <input type="checkbox"/> Standard FLS 7. <input type="checkbox"/> Crossbucks 11. <input type="checkbox"/> Other (specify) 4. <input type="checkbox"/> Wig Wags 8. <input type="checkbox"/> Stop Signs 12. <input type="checkbox"/> None	CODE	32. SIGNALLED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No	CODE
33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach	CODE	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown	CODE
35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown			

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown	CODE	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown	CODE
38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown			
39. VIEW OF TRACK OBSCURED BY (primary obstruction) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 5. Vegetation 7. Other (specify) 4. Topography 6. Highway vehicles 8. Not obstructed			

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)	41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured	CODE	42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED	44. TOTAL NUMBER OF OCCUPANTS INJURED		45. TOTAL NUMBER OF OCCUPANTS (include driver)
46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No			
47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE	

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

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

I. ESTABLISHMENTS INCLUDED IN THIS REPORT

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

II. AVERAGE EMPLOYMENT IN REPORTING YEAR

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

(Round to the nearest
whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR

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

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

(Round to the nearest
whole number)

IV. REPORTABLE INJURIES AND ILLNESSES

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

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

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

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

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

B-7

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

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

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

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

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

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

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

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

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APPENDIX C

REVISED 1982 TABLES

TABLE S16. 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.....	---	3	---	3	1	8	---	9	1	11	---	12
Alaska.....	---	---	---	---	1	1	---	1	---	1	---	1
Arizona.....	---	7	1	8	---	---	3	3	---	7	4	11
Arkansas.....	---	7	---	7	7	19	---	26	7	26	---	33
California.....	1	61	4	66	2	9	13	24	3	70	17	90
Colorado.....	---	---	---	---	---	3	---	3	---	3	---	3
Connecticut.....	1	7	1	9	---	1	---	1	1	8	1	10
Delaware.....	1	1	---	2	---	---	---	---	1	1	---	2
Dist of Columbia.	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	3	23	---	26	---	7	---	7	3	30	---	33
Georgia.....	1	9	---	10	---	9	---	9	1	18	---	19
Idaho.....	---	---	---	---	---	8	---	8	---	8	---	8
Illinois.....	1	19	5	25	1	39	3	43	2	58	8	68
Indiana.....	1	14	---	15	1	23	---	24	2	37	---	39
Iowa.....	---	2	---	2	1	4	3	8	1	6	3	10
Kansas.....	1	4	---	5	2	10	2	14	3	14	2	19
Kentucky.....	---	2	---	2	---	1	1	2	---	3	1	4
Louisiana.....	1	5	1	7	---	13	2	15	1	18	3	22
Maine.....	---	1	---	1	---	1	---	1	---	2	---	2
Maryland.....	---	17	1	18	---	1	---	1	---	18	1	19
Massachusetts....	2	8	---	10	---	1	---	1	2	9	---	11
Michigan.....	1	14	---	15	1	25	---	26	2	39	---	41
Minnesota.....	1	3	---	4	2	5	2	9	3	8	2	13
Mississippi.....	---	2	2	4	3	10	1	14	3	12	3	18
Missouri.....	1	8	---	9	---	11	1	12	1	19	1	21
Montana.....	---	3	---	3	---	5	---	5	---	8	---	8
Nebraska.....	---	3	---	3	1	7	3	11	1	10	3	14
Nevada.....	---	1	---	1	---	4	---	4	---	5	---	5
New Hampshire....	---	---	1	1	---	---	---	---	---	---	1	1
New Jersey.....	2	14	3	19	---	2	---	2	2	16	3	21
New Mexico.....	1	4	---	5	---	1	1	2	1	5	1	7
New York.....	1	37	3	41	---	2	1	3	1	39	4	44
North Carolina...	1	10	---	11	1	12	---	13	2	22	---	24
North Dakota.....	---	2	---	2	---	5	---	5	---	7	---	7
Ohio.....	---	20	---	20	3	36	---	39	3	56	---	59
Oklahoma.....	1	4	1	6	1	14	1	16	2	18	2	22
Oregon.....	---	5	---	5	---	1	---	1	---	6	---	6
Pennsylvania.....	---	20	3	23	---	17	---	17	---	37	3	40
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	---	11	---	11	---	5	---	5	---	16	---	16
South Dakota.....	---	1	---	1	---	---	---	---	---	1	---	1
Tennessee.....	---	4	---	4	1	9	---	10	1	13	---	14
Texas.....	2	34	2	38	4	70	12	86	6	104	14	124
Utah.....	---	3	---	3	---	6	2	8	---	9	2	11
Vermont.....	---	---	---	---	---	1	---	1	---	1	---	1
Virginia.....	1	11	---	12	1	5	---	6	2	16	---	18
Washington.....	2	9	1	12	---	4	---	4	2	13	1	16
West Virginia....	1	10	---	11	---	2	---	2	1	12	---	13
Wisconsin.....	---	1	1	2	---	10	1	11	---	11	2	13
Wyoming.....	---	3	---	3	---	2	---	2	---	5	---	5
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	28	427	30	485	33	429	52	514	61	856	82	999

TABLE S17. 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.....	---	8	---	8	5	64	8	77	5	72	8	85
Alaska.....	---	---	---	---	---	2	---	2	---	2	---	2
Arizona.....	2	11	---	13	---	2	2	4	2	13	2	17
Arkansas.....	3	5	1	9	7	50	9	66	10	55	10	75
California.....	9	60	7	76	10	56	31	97	19	116	38	173
Colorado.....	---	3	1	4	1	24	7	32	1	27	8	36
Connecticut.....	1	4	---	5	---	11	---	11	1	15	---	16
Delaware.....	---	2	---	2	---	2	1	3	---	4	1	5
Dist of Columbia.	1	---	---	1	---	---	---	---	1	---	---	1
Florida.....	2	32	---	34	---	41	---	41	2	73	---	75
Georgia.....	---	17	---	17	5	50	1	56	5	67	1	73
Idaho.....	---	4	---	4	---	15	---	15	---	19	---	19
Illinois.....	5	22	6	33	10	103	47	160	15	125	53	193
Indiana.....	1	21	---	22	8	74	10	92	9	95	10	114
Iowa.....	1	---	3	4	1	25	24	50	2	25	27	54
Kansas.....	---	3	---	3	2	50	20	72	2	53	20	75
Kentucky.....	---	15	---	15	4	35	7	46	4	50	7	61
Louisiana.....	4	10	---	14	8	106	39	153	12	116	39	167
Maine.....	---	---	---	---	---	2	1	3	---	2	1	3
Maryland.....	1	8	1	10	---	6	2	8	1	14	3	18
Massachusetts....	3	9	1	13	---	4	---	4	3	13	1	17
Michigan.....	2	14	---	16	10	86	---	96	12	100	---	112
Minnesota.....	2	1	---	3	6	16	19	41	8	17	19	44
Mississippi.....	---	2	3	5	8	30	53	91	8	32	56	96
Missouri.....	---	7	---	7	6	48	6	60	6	55	6	67
Montana.....	1	2	---	3	---	7	1	8	1	9	1	11
Nebraska.....	---	7	---	7	1	13	8	22	1	20	8	29
Nevada.....	---	1	1	2	---	---	---	---	---	1	1	2
New Hampshire....	---	1	1	2	---	2	---	2	---	3	1	4
New Jersey.....	3	7	2	12	---	1	2	3	3	8	4	15
New Mexico.....	1	3	2	6	---	2	6	8	1	5	8	14
New York.....	3	27	1	31	1	10	4	15	4	37	5	46
North Carolina...	---	12	---	12	3	66	1	70	3	78	1	82
North Dakota.....	1	3	---	4	1	8	1	10	2	11	1	14
Ohio.....	6	27	2	35	14	142	2	158	20	169	4	193
Oklahoma.....	---	5	3	8	7	49	23	79	7	54	26	87
Oregon.....	---	3	---	3	7	18	1	26	7	21	1	29
Pennsylvania.....	6	16	---	22	3	32	1	36	9	48	1	58
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina...	2	7	---	9	---	34	---	34	2	41	---	43
South Dakota.....	---	---	---	---	---	8	1	9	---	8	1	9
Tennessee.....	---	8	2	10	3	31	9	43	3	39	11	53
Texas.....	10	43	3	56	24	207	77	308	34	250	80	364
Utah.....	---	1	---	1	1	15	2	18	1	16	2	19
Vermont.....	---	---	---	---	---	3	---	3	---	3	---	3
Virginia.....	1	20	---	21	2	38	---	40	3	58	---	61
Washington.....	---	7	2	9	1	20	3	24	1	27	5	33
West Virginia....	1	17	---	18	1	28	---	29	2	45	---	47
Wisconsin.....	1	6	4	11	3	55	35	93	4	61	39	104
Wyoming.....	---	---	---	---	---	3	---	3	---	3	---	3
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	73	481	46	600	163	1,694	464	2,321	236	2,175	510	2,921

TABLE S50. CASUALTIES BY TYPE OF PERSON

	Employees On Duty	Employees Not On Duty	Passengers On Trains	Non- trespassers	Trespassers	Contractor Employees	Total
TRAIN ACCIDENTS							
Fatalities.....	9	—	3	—	2	—	14
Injuries.....	298	1	26	5	12	—	342
Occupational illnesses...	14	2	—	—	—	—	16
Total casualties.....	321	3	29	5	14	—	372
TRAIN INCIDENTS							
Fatalities.....	35	—	3	7	397	2	444
Injuries.....	4,902	7	111	39	443	5	5,507
Occupational illnesses...	83	3	—	—	—	—	86
Total casualties.....	5,020	10	114	46	840	7	6,037
NONTRAIN INCIDENTS							
Fatalities.....	30	2	3	2	15	2	54
Injuries.....	29,823	491	247	199	65	76	30,901
Occupational illnesses...	785	1	—	—	—	—	786
Total casualties.....	30,638	494	250	201	80	78	31,741
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities.....	4	—	—	516	87	—	607
Injuries.....	123	4	3	2,352	151	—	2,633
Occupational illnesses...	4	—	—	—	—	—	4
Total casualties.....	131	4	3	2,868	238	—	3,244
GRAND TOTAL							
Fatalities.....	78	2	9	525	501	4	1,119
Injuries.....	35,146	503	387	2,595	671	81	39,383
Occupational illnesses...	886	6	—	—	—	—	892
Total casualties.....	36,110	511	396	3,120	1,172	85	41,394

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.

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Accident/Incident Bulletin, No. 152 Calendar Year
1983, US DOT, FRA Office of Safety, 1984 -12-
Safety

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