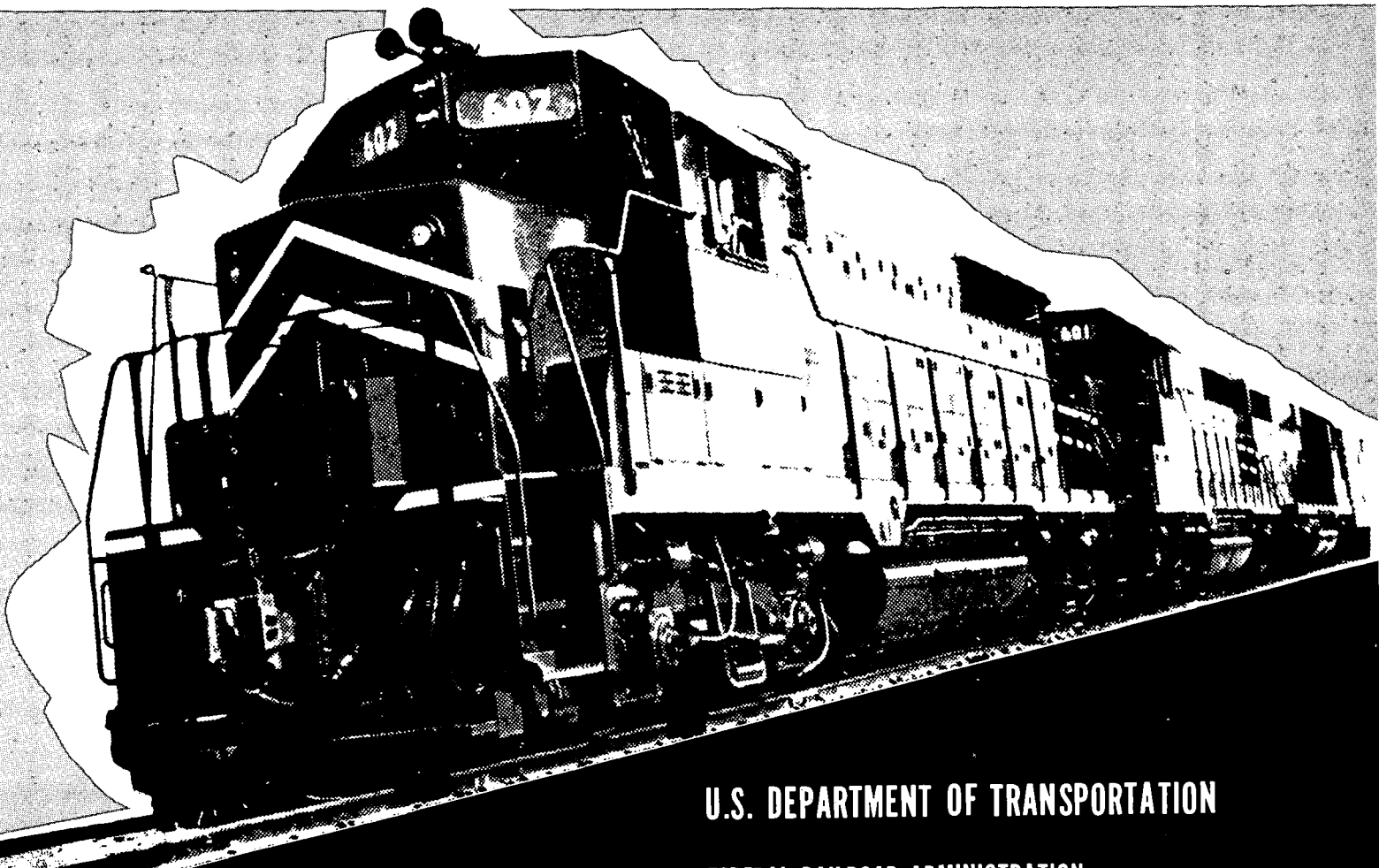


ACCIDENT/INCIDENT BULLETIN

No. 149

Calendar Year 1980



U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL RAILROAD ADMINISTRATION
OFFICE OF SAFETY



JUNE 1981

Notice

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

Federal Railroad Administration
Office of Safety, RRS-33
400 Seventh Street, S.W.
Washington, D.C. 20590

1979

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TABLE S10A pg 45

TABLE S33 pg 103

1980

TABLE S7 pg 32 & 33

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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.

This bulletin summarizes all reportable accidents/incidents which occurred in the United States during 1980 and includes those involving Canadian railroads operating in U.S. territory.

Railroads must use the reporting forms contained in Appendix B and the FRA's Guide for Preparing Accident/Incident Reports," in accordance with 49 CFR 225.11. The forms and reporting guide are reviewed every two years and amended if necessary.

The reporting threshold used to determine which accidents must be reported, is also adjusted to account for the effects of inflation on train accident damage costs. Any train accident exceeding \$750 in damages to railroad on-track equipment, signals, track or track structures, and roadbed had to be reported between 1957 and 1974. Since the reporting threshold remained the same during this period, the rise in damage costs due to inflation contributed to an increased number of reported accidents. In 1975 the FRA implemented new reporting rules for railroad accidents. The reporting threshold was raised to \$1,750 and a policy of adjusting the threshold every two years was adopted to reflect inflationary changes. The reporting threshold used for 1979 and 1980 was \$2,900.

While this change improved the comparability of accident information, comparisons were meaningful only for those years in which the threshold was adjusted. The number of accidents reported in the year following an adjustment was usually higher. Biennial adjustments not only make year to year statistical comparisons difficult, but also impose an unnecessary reporting burden on the railroads. In order to get a clearer picture of annual trends it is necessary to make some adjustment for the second year of a threshold. This had been done on several graphic displays by limiting the count of accidents in 1978 and 1980 to those resulting in reportable damage of more than \$2,600 and \$3,200, respectively. For other years the actual number of accidents reported is used. Beginning in 1981, the reporting threshold will be adjusted annually.

To assess the impact of any increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. The 1980 accident/incident bulletin attempts to normalize data for train accidents and train incidents by billion revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

New and more specific accident/incident cause and occurrence codes were added to the reporting instructions in 1977. Some existing codes have been redefined. While totals for major code groupings were not significantly affected by these changes, care should be used in comparing individual codes used before 1977 with those used in 1977 and after.

The heading "Non-fatal Casualties" indicates that both injuries and occupational illnesses are included. In all other cases, non-fatal illnesses are shown separately.

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

1. HISTORICAL TRENDS, 1976 THROUGH 1980

OPERATIONS

TABLE H1. RAILROAD OPERATIONAL PROFILE

Year	Man- Hours a (000,000)	Motor Train- Miles b (000)	Yard Switching- Miles c (000)	Locomotive- Miles d (000)	Total Train- Miles (b+c+d) (000)
1976	1,046	65,989	217,363	491,411	774,763
1977	1,053	32,419	218,544	499,079	750,042
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

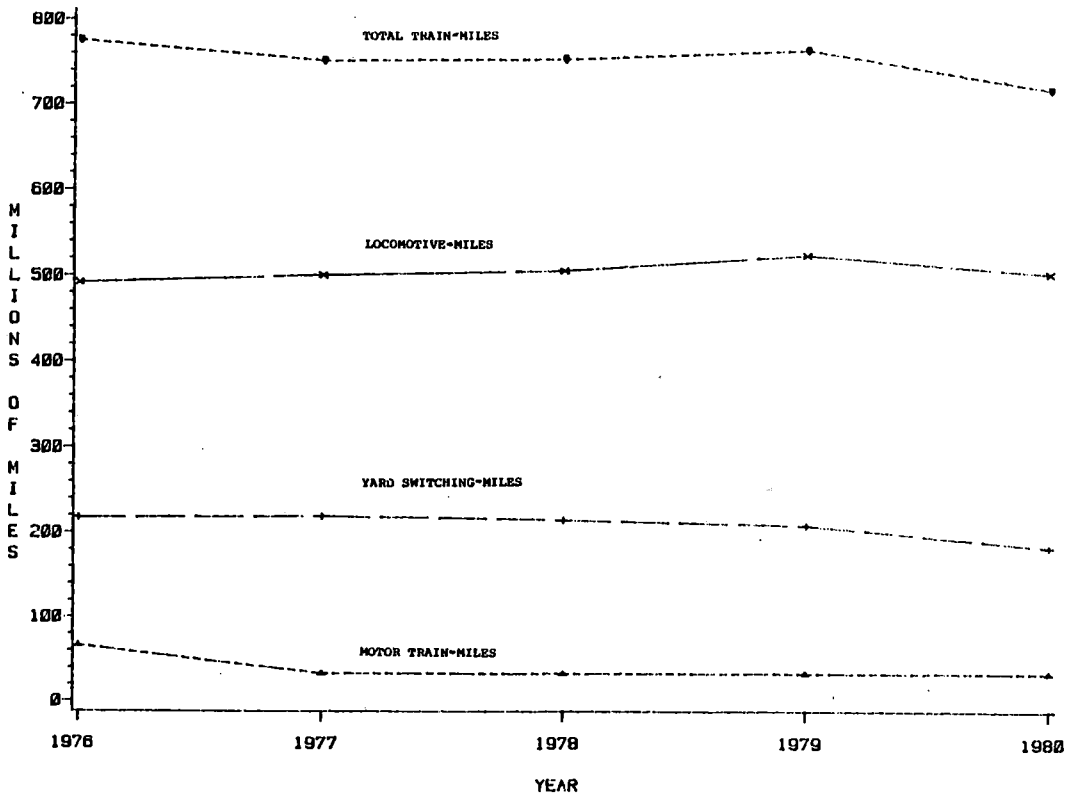
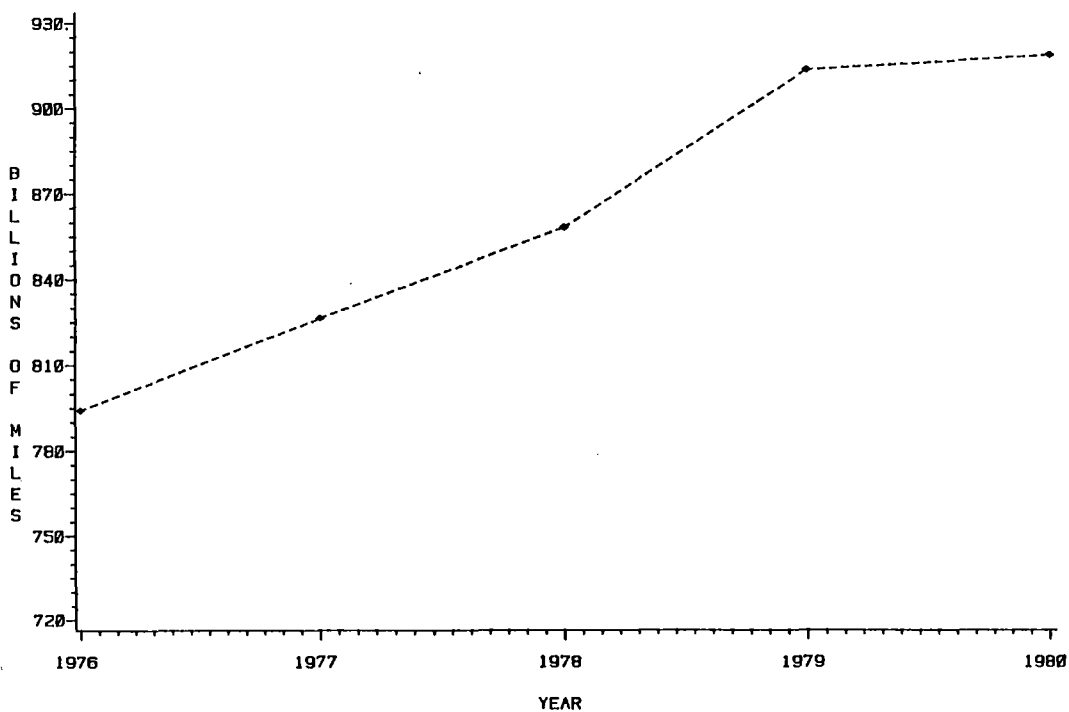


FIGURE 1. RAILROAD TRAIN MILES, 1976 - 1980

Revenue ton-miles again increased, reaching a level of 918,621 million, 0.6 percent above the 1979 level. While total train-miles decreased by 6 percent, the increase in revenue ton-miles appears to reflect a continuous trend toward heavier cars and a longer length of haul.

Revenue Ton-Miles, 1976-1980
(Billions)

1976	794.1
1977	826.3
1978	858.1
1979	913.7
1980	918.6



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES, 1976 - 1980

TRAIN ACCIDENTS

Following the trend established in 1979 the number of train accidents declined even further in 1980. As noted earlier, the decline is especially remarkable because there was no threshold adjustment in 1980.

TABLE H3. TRAIN ACCIDENT CAUSES

<u>Year</u>	<u>Total Accidents</u>	<u>Human Factors</u>	<u>Mechanical & Electrical Failures</u>	<u>Track Defects</u>	<u>Other</u>
1976	10,248	2,360	2,174	4,260	1,454
1977	10,362	2,559	2,064	4,337	1,402
1978	11,277	2,845	2,170	4,797	1,465
1979	9,740	2,660	1,815	4,050	1,215
1980	8,451	2,323	1,458	3,492	1,178

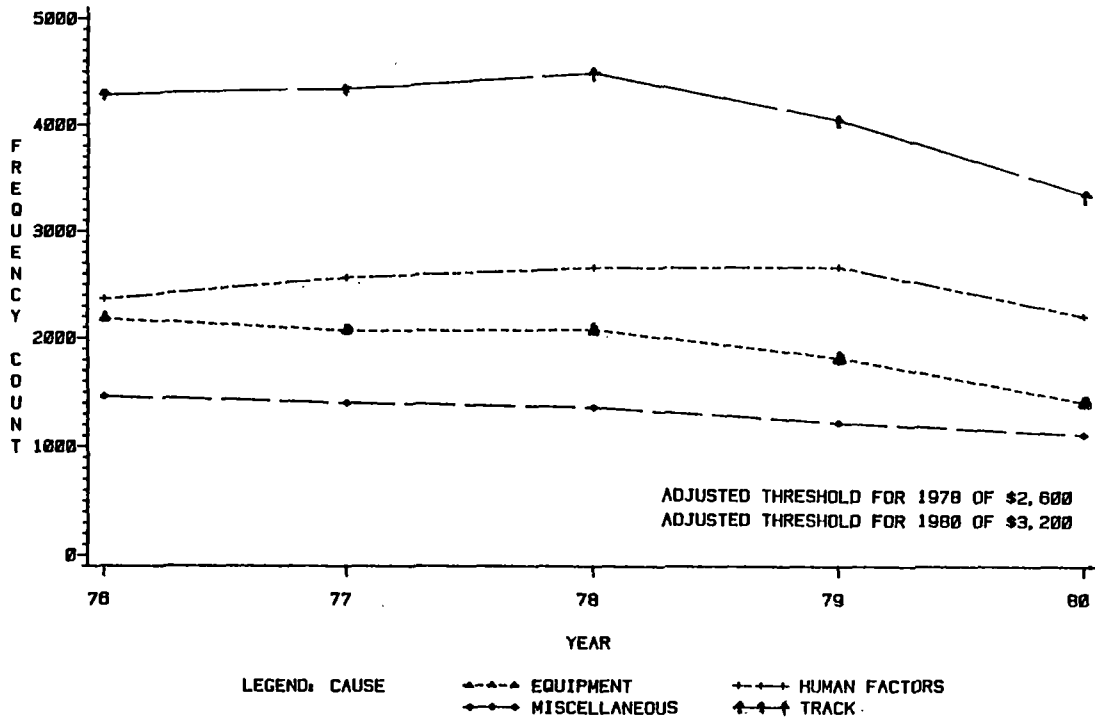


FIGURE 3A. ACCIDENT CAUSES, 1976-1980 - ADJUSTED

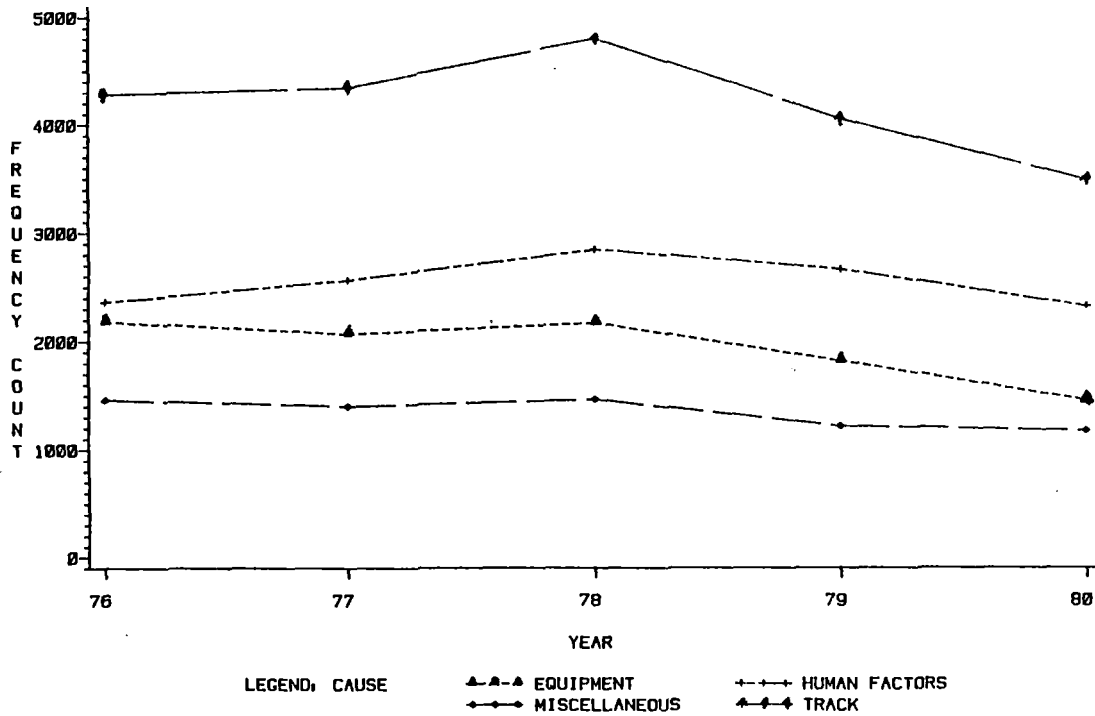


FIGURE 3B. ACCIDENT CAUSES, 1976-1980 - UNADJUSTED

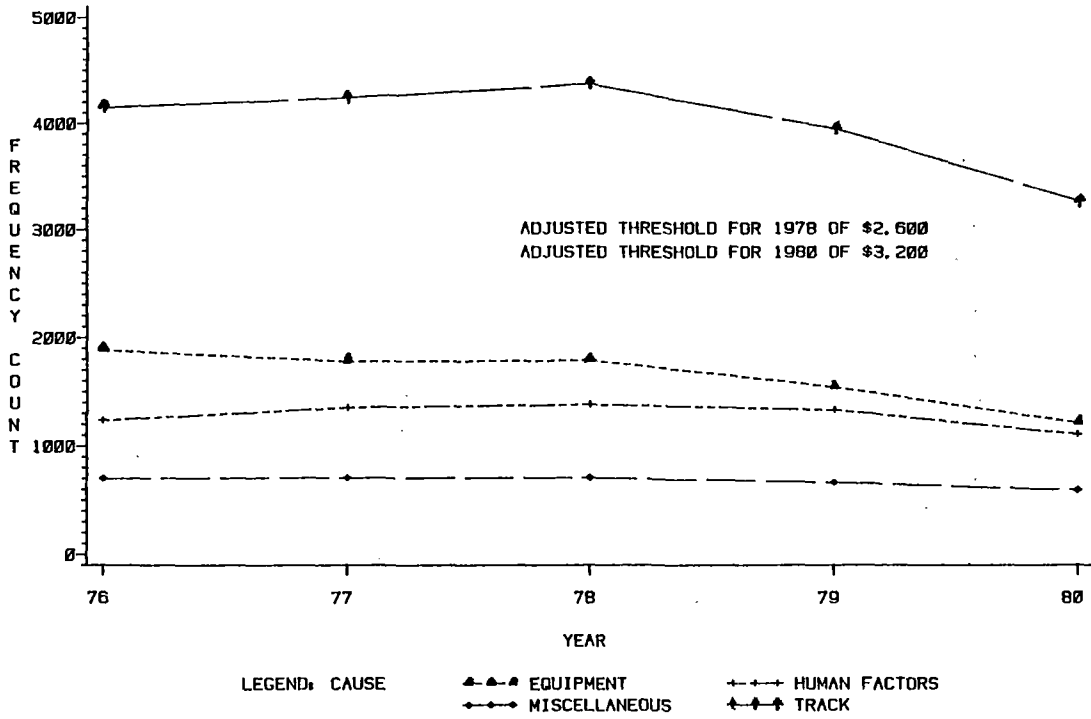


FIGURE 4A. DERAILMENT CAUSES, 1976-1980 - ADJUSTED

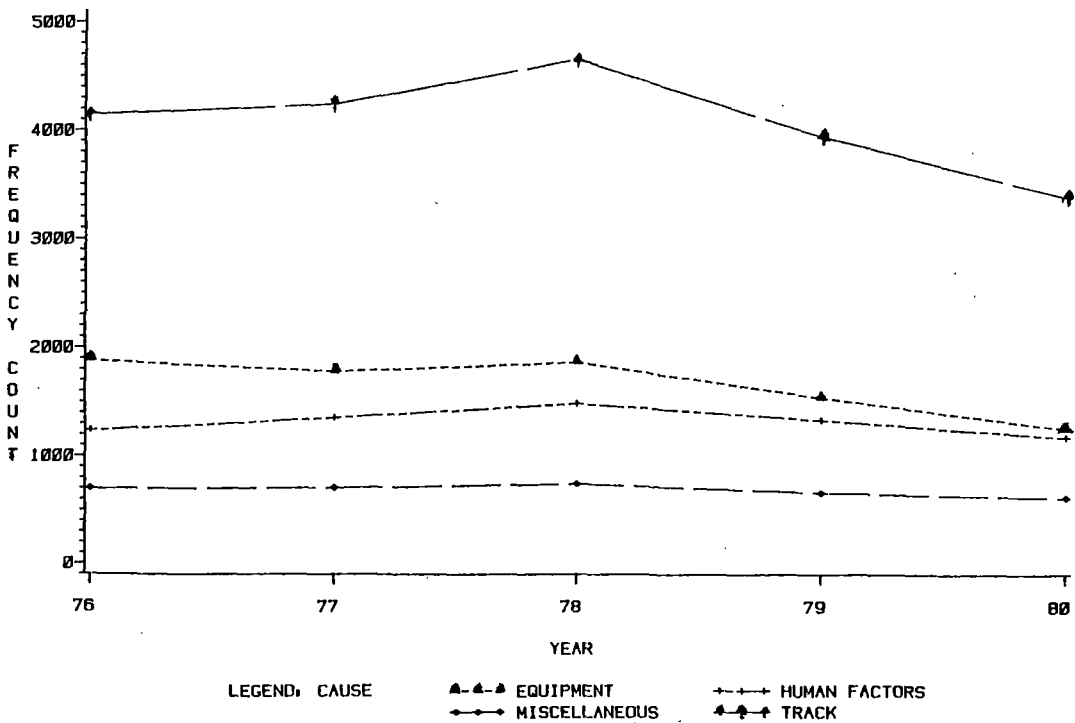


FIGURE 4B. DERAILMENT CAUSES, 1976-1980 - UNADJUSTED

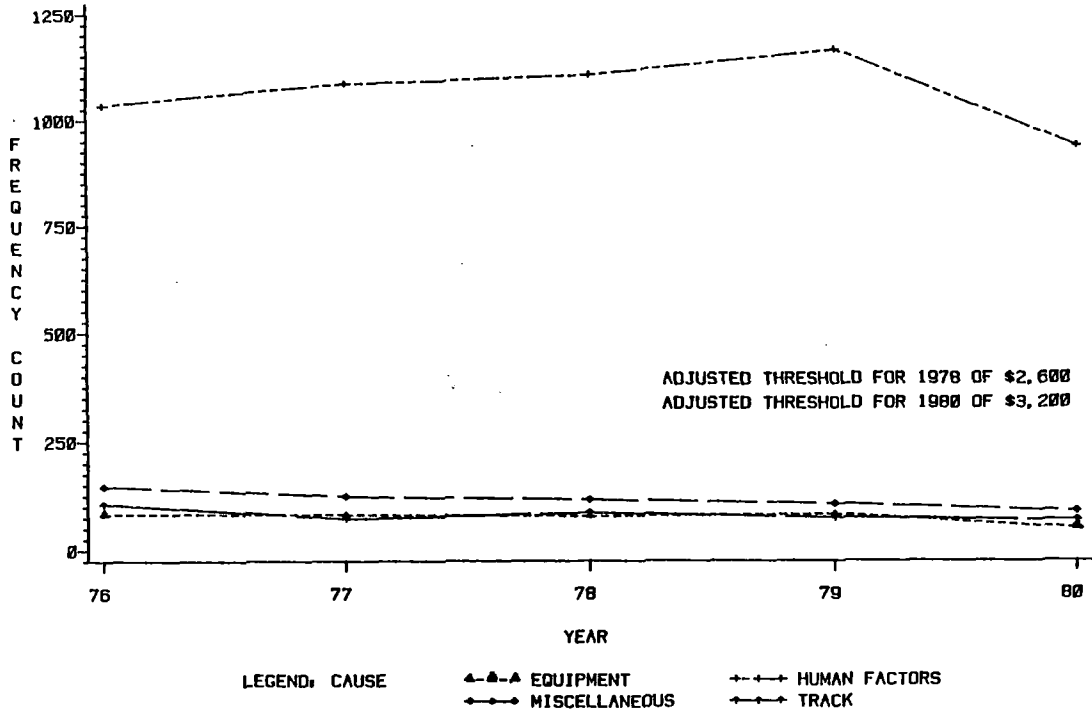


FIGURE 5A. COLLISION CAUSES, 1976-1980 - ADJUSTED

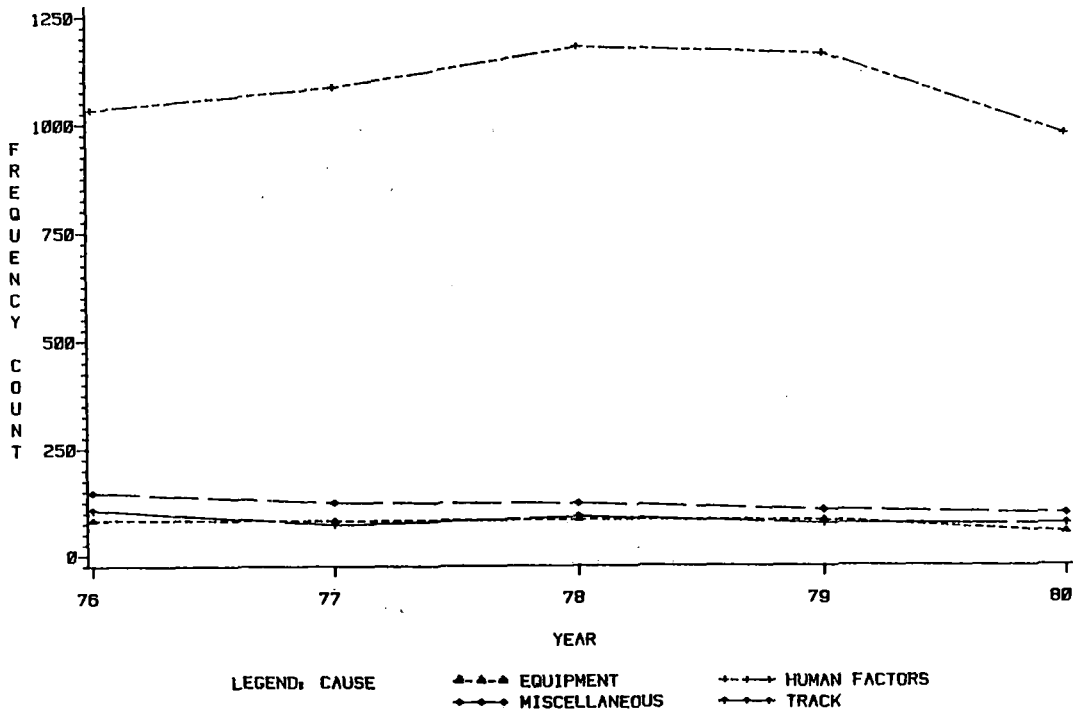


FIGURE 5B. COLLISION CAUSES, 1976-1980 - UNADJUSTED

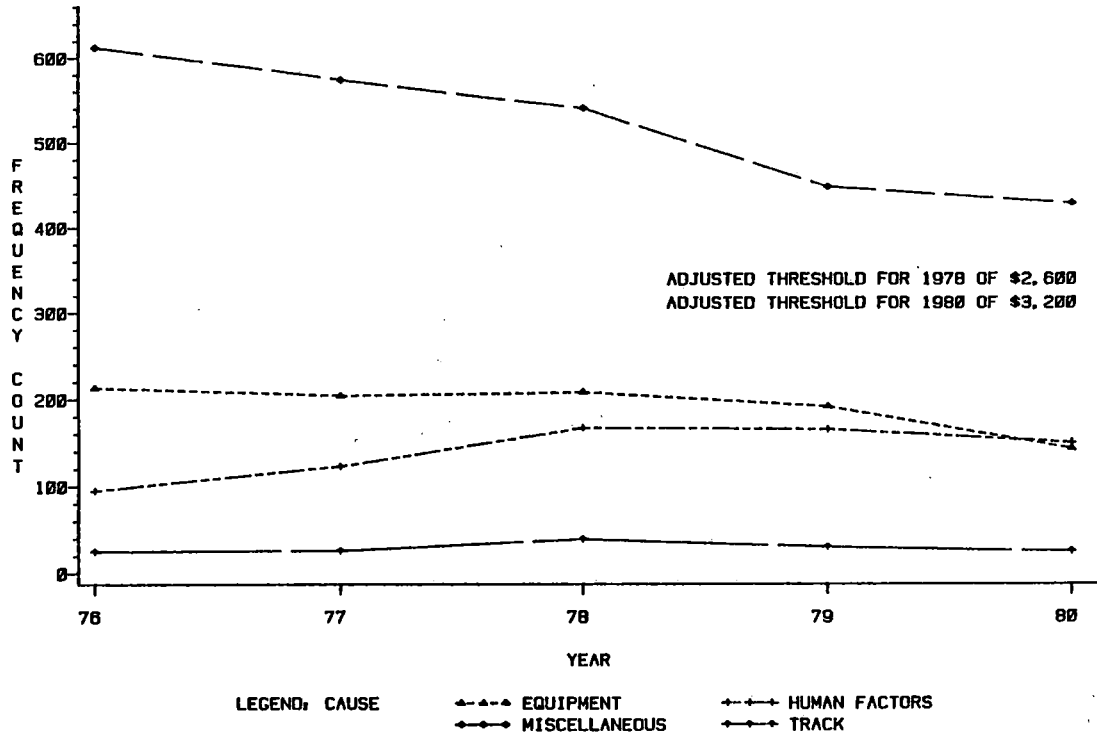


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS, 1976-1980 - ADJUSTED

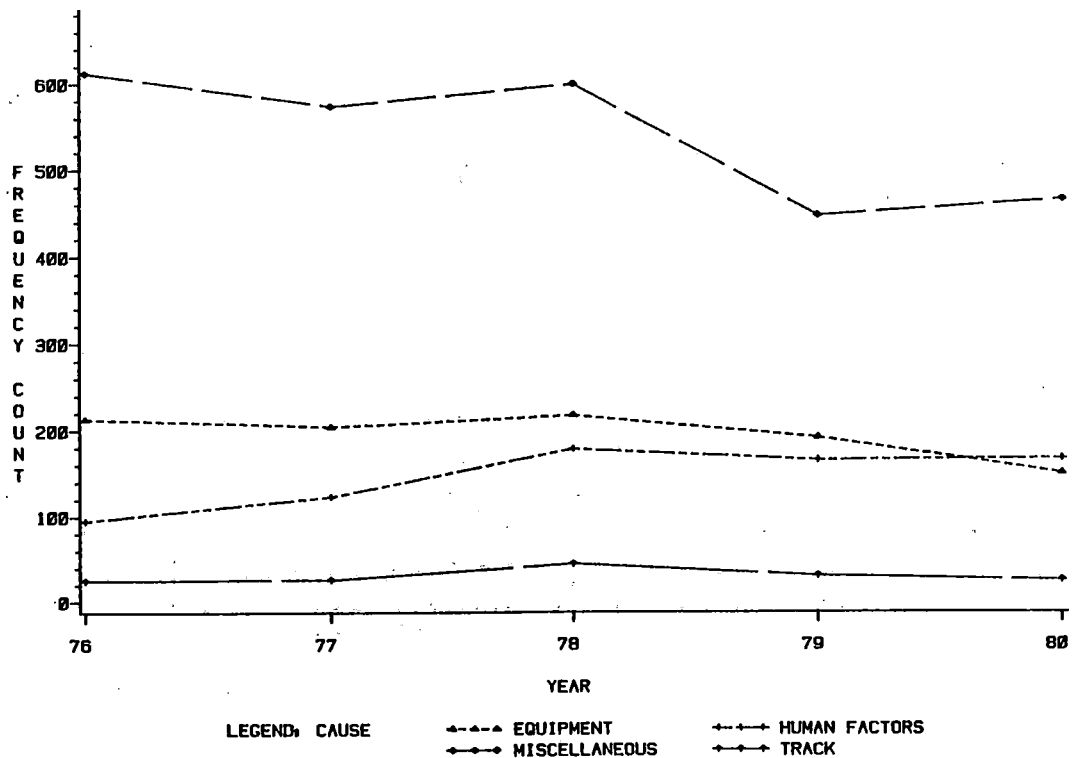


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS, 1976-1980 - UNADJUSTED

TABLE H6. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRAIN-MILES

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accidents/ Million Train-Miles</u>
1976	10,248	226,990,697	22,150	292,980	13.23
1977	10,362	279,450,336	26,969	372,579	13.82
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

TABLE H7. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accidents/ Million Train-Miles</u>
COLLISIONS					
1976	1,370	24,749,012	18,065	31,944	1.77
1977	1,363	34,101,836	25,020	45,467	1.82
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
DERAILMENTS					
1976	7,934	184,273,761	23,226	237,845	10.24
1977	8,073	223,123,541	27,638	297,481	10.76
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	8.98
OTHER					
1976	944	17,967,924	19,034	23,191	1.22
1977	926	22,224,959	24,001	29,632	1.23
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

TABLE H8. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

<u>Year</u>	<u>Total Accidents</u>	<u>Total Damage (\$)</u>	<u>Average Damage (\$)</u>	<u>Damage/Million Train-Miles (\$)</u>	<u>Accidents/ Million Train-Miles</u>
HUMAN FACTORS					
1976	2,360	31,939,411	13,534	41,225	3.05
1977	2,559	65,679,391	25,666	87,568	3.41
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
EQUIPMENT FAILURES					
1976	2,174	68,572,507	31,542	88,508	2.81
1977	2,064	70,662,940	34,236	94,212	2.75
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
TRACK DEFECTS					
1976	4,260	85,537,356	20,079	110,404	5.50
1977	4,337	96,377,004	22,222	128,495	5.78
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
OTHER					
1976	1,454	40,941,423	28,158	52,844	1.88
1977	1,402	46,731,001	33,332	62,304	1.87
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

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

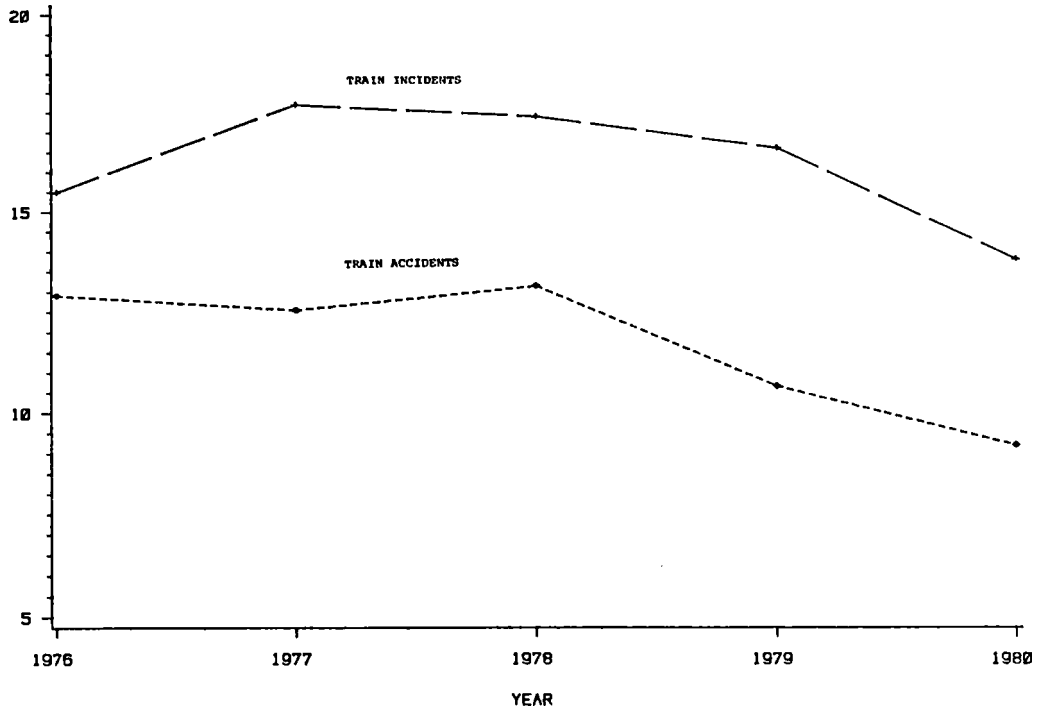


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

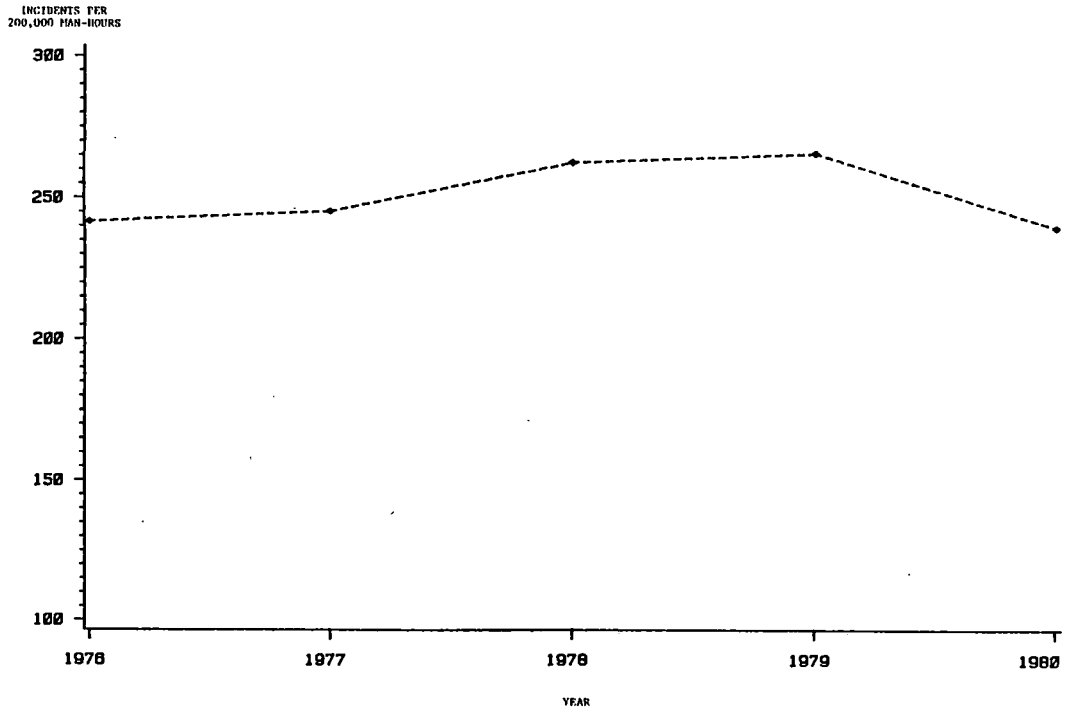


FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE H2. TOTAL ACCIDENTS/INCIDENTS

<u>Year</u>	<u>Train Accidents</u>	<u>Train Incidents</u>	<u>Non-train Incidents</u>	<u>Total</u>
1976	10,248	12,303	50,532	73,083
1977	10,362	14,611	51,601	76,574
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

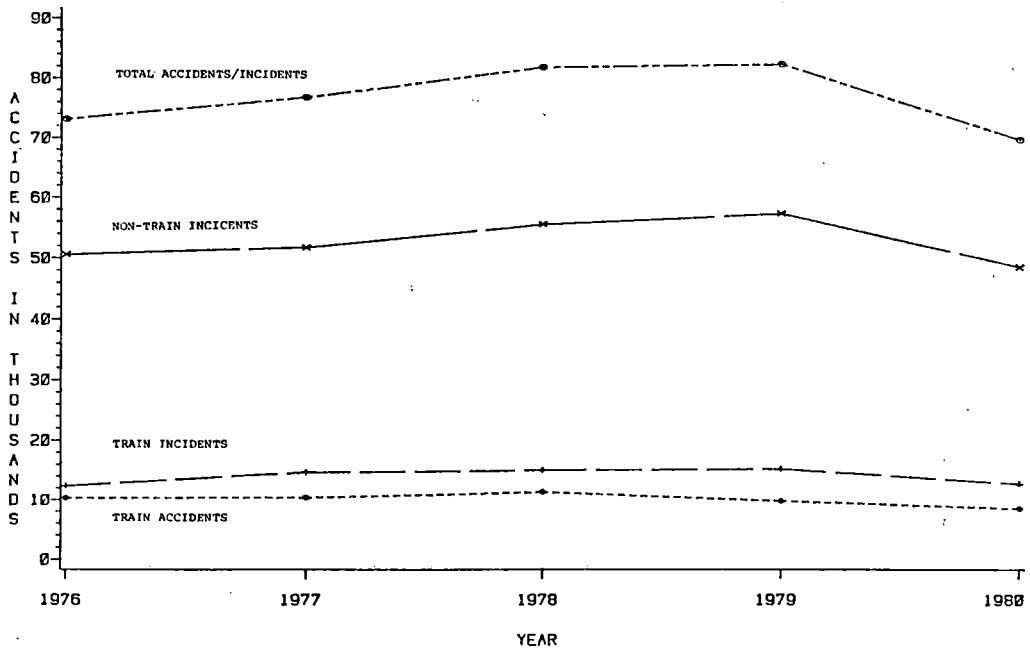


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS, 1976-1980

CASUALTIES

Casualties in train accidents have shown a decline as the total number of accidents has dropped. In 1980 casualties in train incidents and non-train incidents also declined following an increase the previous year.

TABLE H4. CASUALTIES IN ACCIDENTS/INCIDENTS

Class of Acc/Inc by Year	-----Casualties-----			Total Accidents	Casualties per Million Train Miles
	Fatal	Non- Fatal	Total		
Train Accidents					
1976	152	1,279	1,431	10,248	1.85
1977	108	985	1,093	10,362	1.46
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
Train Incidents					
1976	1,259	12,648	13,907	12,368	17.94
1977	1,340	14,876	16,216	14,611	21.62
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
Non-Train Incidents					
1976	219	51,404	51,623	50,535	66.63
1977	82	52,006	52,088	51,601	69.45
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
All Accidents					
1976	1,630	65,331	66,961	73,151	86.43
1977	1,530	67,867	69,397	76,574	92.52
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

* Included is an ICG railroad commuter train on January 26, 1978 which resulted in 558 non-fatal casualties.

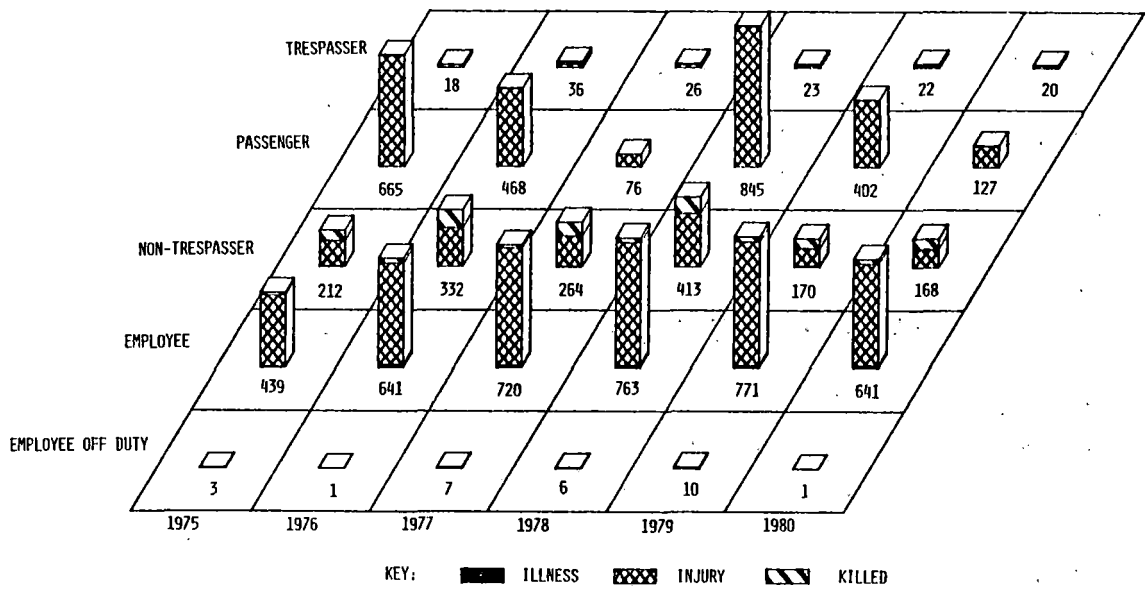


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS, 1975-1980

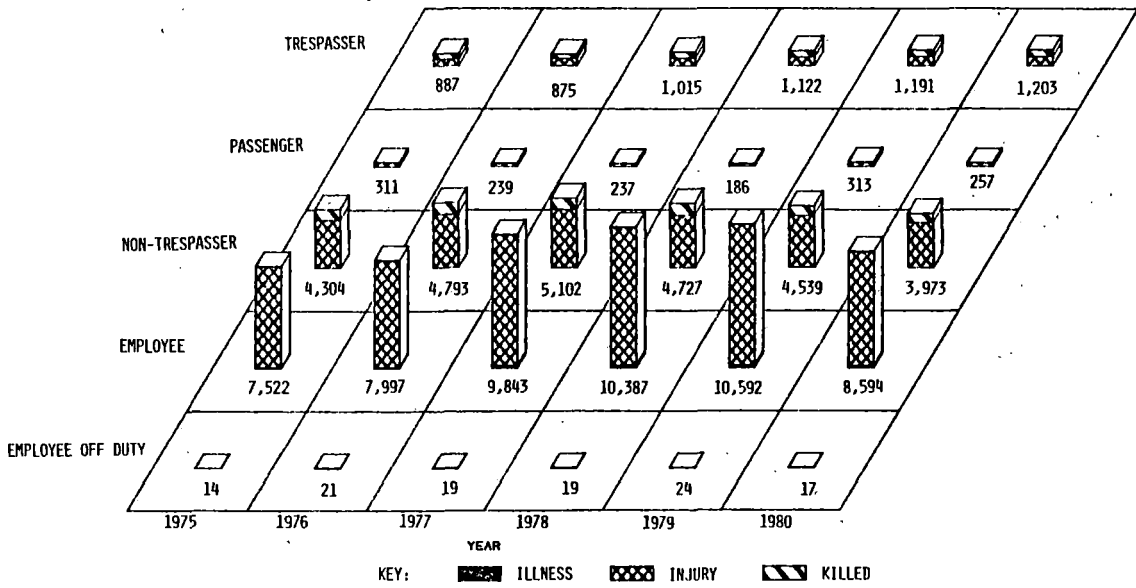


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS, 1975-1980

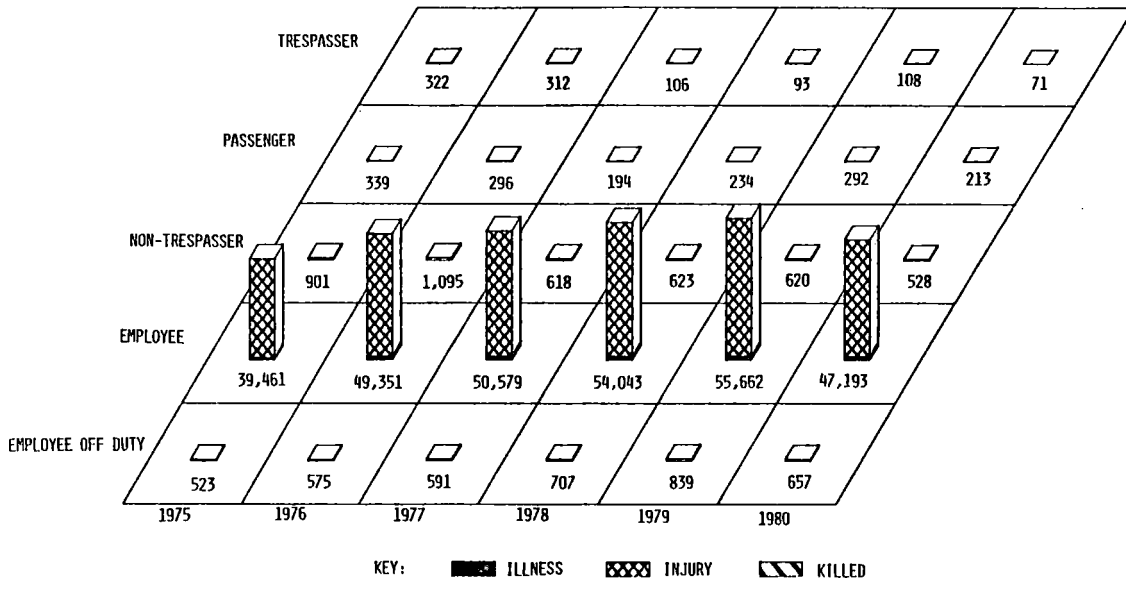


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS, 1975-1980

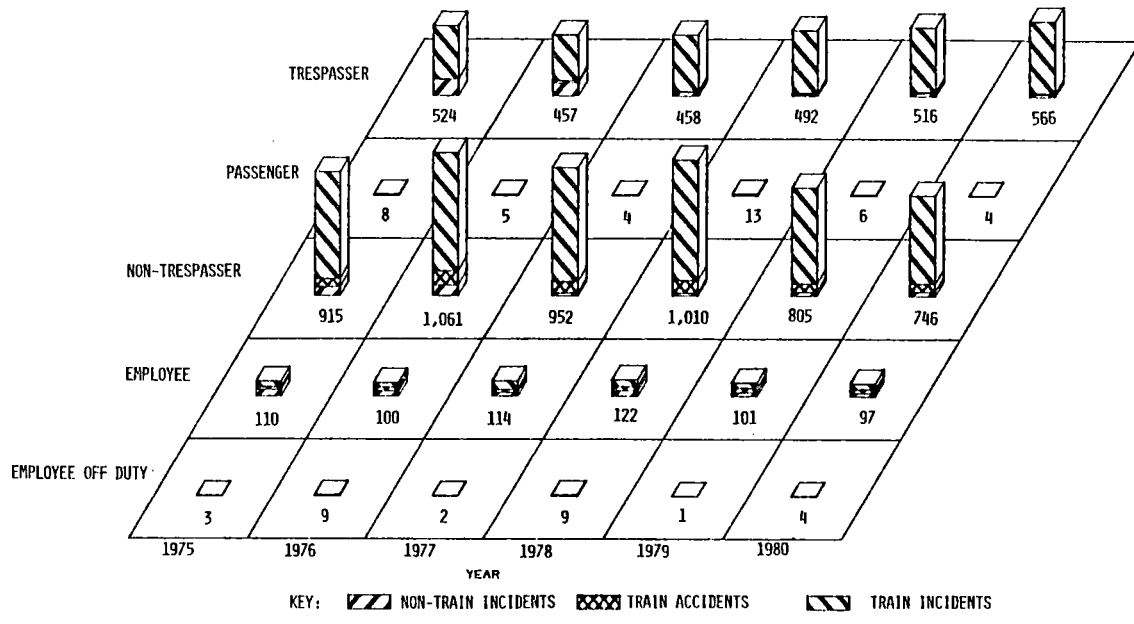


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS, 1975-1980

2. OVERVIEW OF 1980 DATA

This section gives a summary of the total accidents/incidents in 1980.

SPEED FACTOR IN ACCIDENTS

The relationship of speed to the number of accidents and the amount of damage is clearly established. As Figure 14 shows, most train accidents occurred at low speeds.

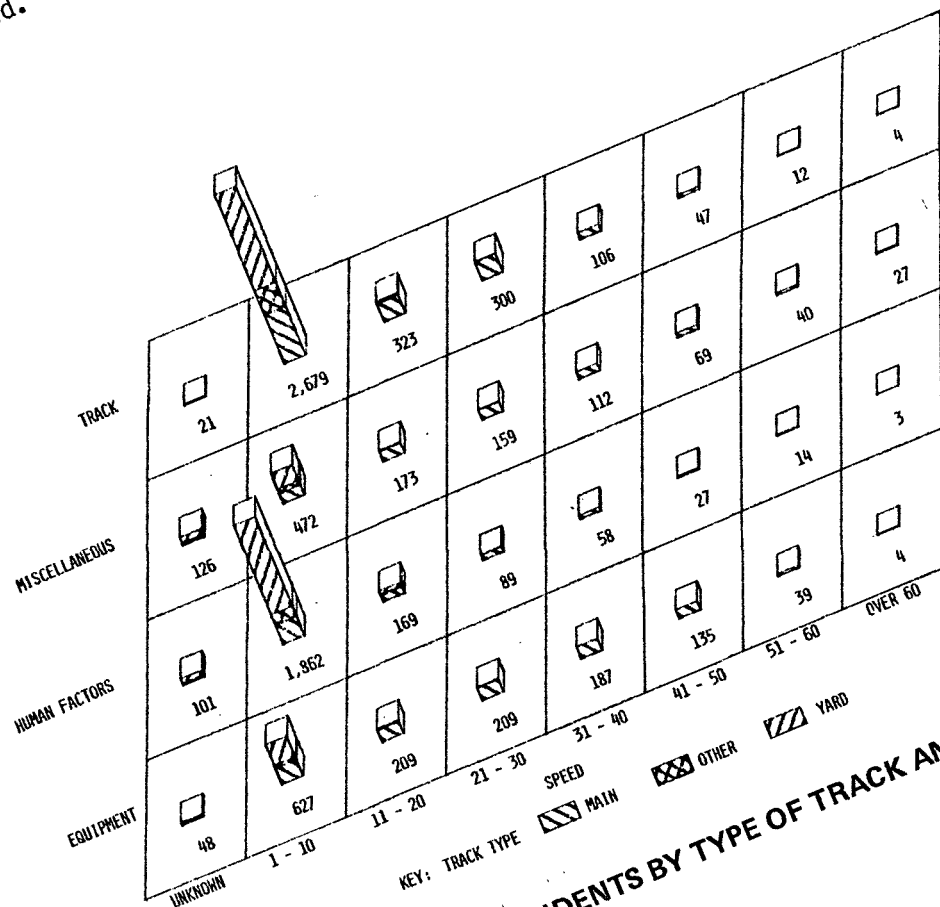


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

Accidents at higher speeds, however, tend to be more expensive. As seen in Figure 15, damage cost is evenly spread through the various speed ranges.

TABLE S44. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS CAUSED	TRACK EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
UNKNOWN	55	2,477,557	2,343,251	134,306	2	18	35	4	23	17
1-10	1,473	36,255,744	24,908,998	11,346,746	112	1,278	83	762	300	154
11-20	726	32,886,189	24,928,214	7,957,975	46	634	46	282	103	156
21-30	740	52,226,078	41,335,763	10,890,315	31	616	93	299	79	159
31-40	463	47,753,498	40,549,688	7,203,810	26	333	104	106	55	112
41-50	275	16,233,299	14,118,782	2,114,517	19	191	65	47	26	67
51-60	104	1,968,948	1,806,764	162,184	6	60	38	12	13	40
61-70	23	1,060,836	1,035,400	25,436	1	1	16	1	3	1
71-80	11	427,000	407,000	20,000	1	1	9	1	1	1
81-90	2	810,546	688,646	121,900	1	1	1	1	1	1
>=91	1	219,687,041	174,807,033	44,880,008	1	1	1	1	1	1
TOTAL	3,873	219,687,041	174,807,033	44,880,008	245	3,138	490	1,515	1,036	590

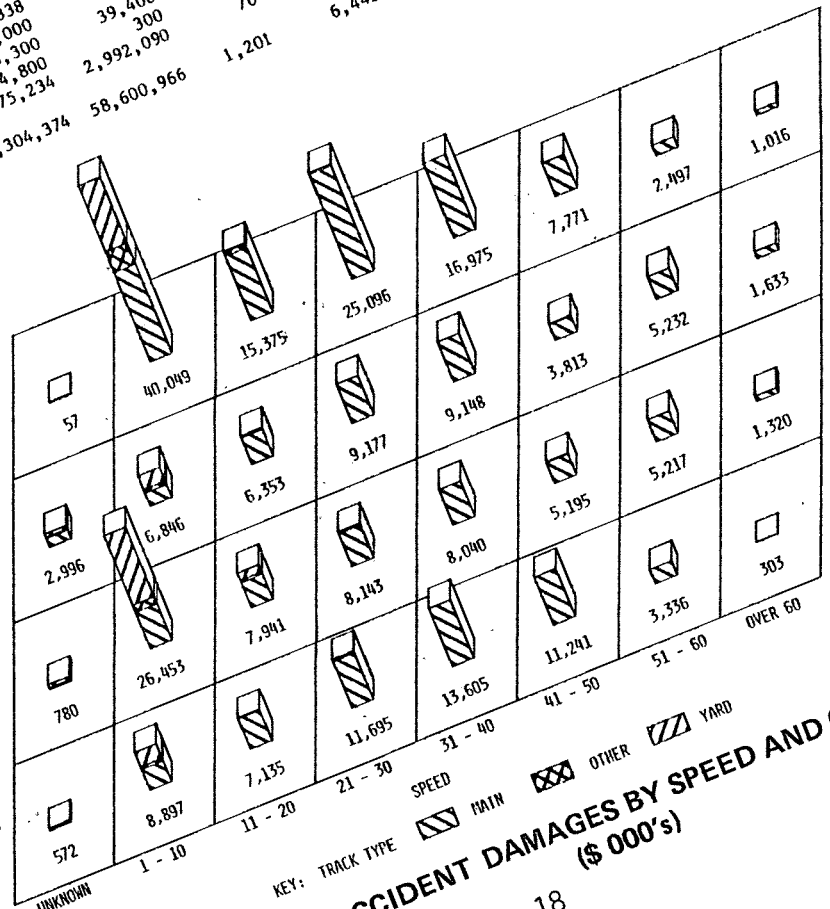


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

ACCIDENTS AND TRACK TYPE

The majority of train accidents in 1980 occurred on FRA Class I track, largely yard and lightly-used branch lines. However, FRA Class III and Class IV tracks, main lines and major branch lines with maximum freight train speed limits of 40 and 60 mph, accounted for just over half the damage costs.

TABLE S45. 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
?	265	2,863,720	2,045,110	818,610	50	195	20	78	44	104	39
1	4,548	64,022,247	46,044,995	17,977,252	800	3,438	310	2,093	474	1,531	450
2	1,434	47,649,970	36,012,624	11,637,346	184	1,163	87	669	231	340	194
3	1,265	82,481,421	67,975,240	14,506,181	63	1,019	183	464	367	180	254
4	820	66,521,079	54,487,683	12,033,396	88	547	185	172	292	144	212
5	110	10,202,821	8,607,240	1,595,581	13	76	21	15	46	23	26
6	9	164,082	131,482	32,600	3	4	2	1	4	1	3
TOTAL	8,451	273,905,340	215,304,374	58,600,966	1,201	6,442	808	3,492	1,458	2,323	1,178

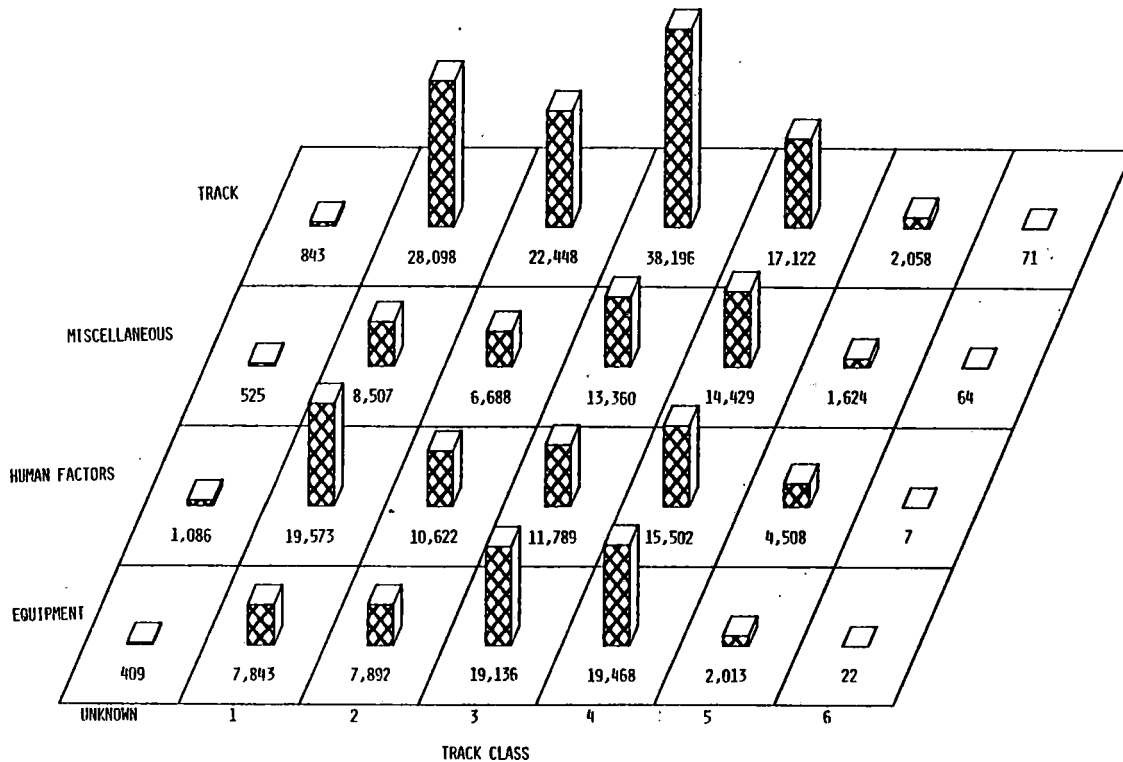


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

CAUSE BY TYPE OF ACCIDENT

TABLE S40B. 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	24,028,075	82,241,633	14,673,011	37,007,267	7,405,592	24,983,411	7,392,268	20,911,286	53,498,946	165,143,597
Head on collision	---	4,304	34,981	220,789	134,329	7,418,983	3,101	1,430,352	172,411	9,074,428
Rear end collision	800	27,340	15,500	163,600	193,532	7,989,190	183,100	3,196,993	392,932	11,377,123
Side collision	42,113	794,079	13,814	255,397	856,743	10,856,381	54,632	670,305	967,302	12,576,162
Raking collision	15,737	266,850	324,374	1,084,040	127,728	1,094,784	436,091	459,441	903,930	2,905,115
Broken trn collisin	---	---	64,768	518,320	8,000	82,328	---	5,000	72,768	605,648
Rail-hwy crossing	---	---	---	---	---	---	890,986	5,592,248	890,986	5,592,248
RR grade crossing	---	---	---	---	59,513	116,225	4,386	12,737	63,899	128,962
Obstruction	109,766	586,876	100	73,630	24,840	93,100	241,687	1,742,911	376,393	2,496,517
Explosion-detonatin	---	---	---	23,000	---	---	---	7,000	---	30,000
Fire/violent ruptre	---	---	183,664	1,370,853	7,000	10,000	2,000	1,241,359	192,664	2,622,212
Other	378,072	343,744	205,959	505,657	225,267	1,434,096	259,437	468,865	1,068,735	2,752,362
TOTAL.....	24,574,563	84,264,826	15,516,171	41,222,553	9,042,544	54,078,498	9,467,688	35,738,497	58,600,966	215,304,374

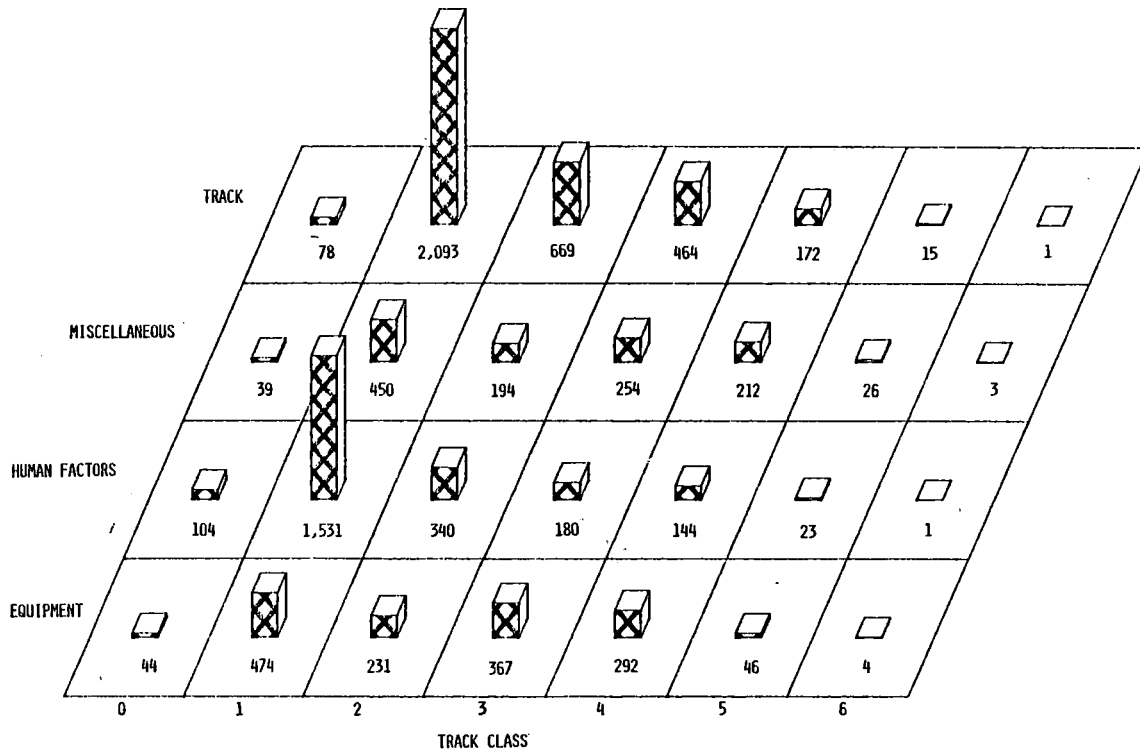


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

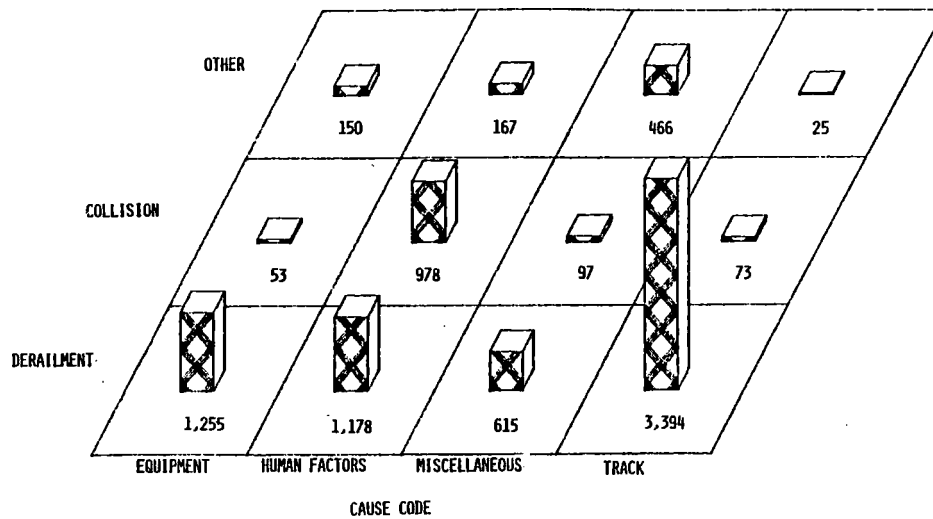
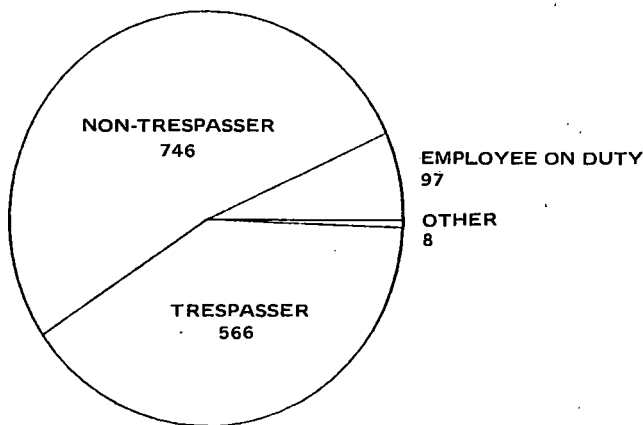


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

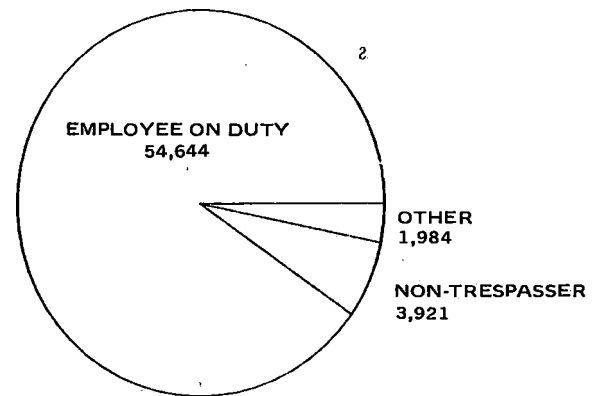
INJURIES AND FATALITIES BY TYPE OF PERSON

Trespassers accounted for almost 40 percent of all railroad-related fatalities. Some trespasser fatalities are included in the total for rail-highway crossings. There were only 97 fatalities to railroad employees, about 7 percent of the total.

In contrast over 90 percent of the 60,549 railroad-related injuries were to employees on duty.



**FIGURE 19A.
FATALITIES BY TYPE OF PERSON, 1980**



**FIGURE 19B.
INJURIES BY TYPE OF PERSON, 1980**

TABLE S50. CASUALTIES BY TYPE OF PERSON

Type of Person	Train Accidents ¹			Train Incidents ¹			Non-train Incidents ¹			Rail-Highway Crossing			Total		
	K	I	NFI	K	I	NFI	K	I	NFI	K	I	NFI	K	I	NFI
Employee on Duty	28	525	18	43	8,269	207	26	45,705	1,462	-	145	-	97	54,644	1,687
Employee not on Duty	-	1	-	1	13	-	2	647	8	1	2	-	4	663	8
Passenger on Train	1	105	-	3	251	-	-	213	-	-	24	-	4	593	-
Non-trespasser	-	13	-	7	66	-	9	305	-	723	3,465	-	739	3,849	-
Trespasser	-	3	-	440	420	-	17	51	-	109	254	-	566	728	-
Contractor Employee ²	-	-	-	2	7	-	5	65	2	-	-	-	7	72	2
Total	29	647	18	496	9,026	207	59	46,986	1,472	833	3,890	-	1,417	60,549	1,697

¹ After subtracting rail-highway crossing casualties

² Contractor employees have been included with "non-trespassers" in other tables

KEY: K - Killed
 I - Injured
 NFI - Non-fatal illness

TABLE S11. TOTAL FATALITIES BY TYPE OF PERSON

	Total Acci- dents	Fatal Acci- dents	...Employees on duty...			Empl not on duty	Passen- gers	Non tres- passers	Tres- passers	Total Killed
			Trainmen	Other	Total					
TRAIN ACCIDENTS										
Collisions.....	1,201	14	18	1	19	---	1	---	---	20
Deraillments.....	6,442	6	7	1	8	---	---	---	---	8
Grade crossing.....	246	59	---	---	---	---	---	61	7	68
Other train accidents.....	562	1	---	1	1	---	---	---	---	1
TOTAL.....	8,451	80	25	3	28	---	1	61	7	97
TRAIN INCIDENTS										
Coupling incidents.....	544	8	7	1	8	---	---	---	---	8
Operating locomotives.....	763	---	---	---	---	---	---	---	---	---
Operating rail motor car.....	316	2	---	2	2	---	---	---	---	2
Operating handbrakes.....	257	2	2	---	2	---	---	---	---	2
Operating switches.....	55	---	---	---	---	---	---	---	---	---
Striking fixed structures.....	159	3	2	---	2	---	---	---	1	3
Getting on or off trains.....	2,158	20	1	---	1	---	1	1	16	19
Highway grade accidents.....	2,959	583	---	---	---	1	---	604	99	704
Struck or run over.....	1,043	450	5	7	12	1	---	46	404	463
Flying or falling objects.....	1,316	---	---	---	---	---	---	---	---	---
Assaults.....	220	4	1	---	1	---	1	---	2	4
Miscellaneous.....	2,896	36	8	7	15	---	1	2	19	37
TOTAL.....	12,686	1,108	26	17	43	2	3	653	541	1,242
NONTRAIN INCIDENTS										
Coupling incidents.....	1,609	---	---	---	---	---	---	---	---	---
Operating switches.....	1,885	---	---	---	---	---	---	---	---	---
Getting on/off locos or cars.....	2,219	1	---	---	---	---	---	---	1	1
Servicing or maintenance of equip. 13,783		4	---	3	3	---	---	1	---	4
Maintenance of way and structures. 17,007		12	---	10	10	1	---	1	---	12
Involving freight, baggage, etc... 299		---	---	---	---	---	---	---	---	---
Involving windows, doors, etc..... 746		1	---	1	1	---	---	---	---	1
Involving passenger car doors..... 10		---	---	---	---	---	---	---	---	---
Stumbling, falling not on car/loco. 4,696		9	---	2	2	---	---	4	3	9
Flying/falling objs, burns, etc... 1,528		10	---	1	1	---	---	4	5	10
Assaults to persons..... 283		1	---	---	---	---	---	1	---	1
Miscellaneous..... 4,333		31	3	6	9	1	---	21	9	40
TOTAL..... 48,398		69	3	23	26	2	---	32	18	78
GRAND TOTAL.....	69,535	1,257	54	43	97	4	4	746	566	1,417

TABLE S12. TOTAL NON-FATAL CASUALTIES BY TYPE OF PERSON

	Total acci- dents	Nonfatal acci- dents	...Employees on duty...			Empl not on duty	Passen- gers	Non Tres- passers	Tres- passers	Total Non-Fatal Casualties
			Trainmen	Other	Total					
TRAIN ACCIDENTS										
Collisions.....	1,201	121	210	59	269	---	65	7	---	341
Derailments.....	6,442	139	192	50	242	---	40	1	3	286
Grade crossing.....	246	101	61	9	70	---	21	94	10	195
Other train accidents.....	562	23	20	12	32	1	---	5	---	38
TOTAL.....	8,451	384	483	130	613	1	126	107	13	860
TRAIN INCIDENTS										
Coupling accidents.....	544	536	522	15	537	---	---	1	---	538
Operating locomotives.....	763	763	752	23	775	---	---	---	---	775
Operating rail motor car.....	316	314	27	305	332	---	---	1	3	336
Operating handbrakes.....	257	255	247	8	255	---	---	---	---	255
Operating switches.....	55	55	52	3	55	---	---	---	---	55
Striking fixed structures.....	159	156	145	9	154	---	1	---	2	157
Getting on or off trains.....	2,158	2,138	1,996	59	2,055	1	19	9	66	2,150
Highway grade accidents.....	2,959	2,376	43	17	60	---	3	3,054	238	3,355
Struck or run over.....	1,043	593	88	27	115	4	---	226	322	667
Flying or falling objects.....	1,316	1,316	1,256	79	1,335	---	12	6	1	1,354
Assaults.....	220	216	201	8	209	---	10	---	---	219
Miscellaneous.....	2,896	2,860	1,900	769	2,669	10	209	23	30	2,941
TOTAL.....	12,686	11,578	7,229	1,322	8,551	15	254	3,320	662	12,802
NONTRAIN INCIDENTS										
Coupling incidents.....	1,609	1,609	1,452	158	1,610	1	---	1	---	1,612
Operating switches.....	1,885	1,885	1,746	140	1,886	1	---	1	---	1,888
Getting on/off locos or cars.....	2,219	2,218	1,553	519	2,072	26	109	9	3	2,219
Servicing or maintenance of equip.	13,783	13,779	58	13,630	13,688	88	---	22	---	13,798
Maintenance of way and structures.	17,007	16,995	35	16,882	16,917	66	---	70	---	17,053
Involving freight, baggage, etc...	299	299	11	283	294	---	4	---	1	299
Involving windows, doors, etc.....	746	745	243	451	694	18	18	19	---	749
Involving passenger car doors.....	10	10	2	6	8	---	2	---	---	10
Stumbling, falling not on car/loco.	4,696	4,687	1,895	2,235	4,130	298	75	174	12	4,689
Flying/falling objs, burns, etc...	1,528	1,518	871	589	1,460	34	1	36	24	1,555
Assaults to persons.....	283	282	90	176	266	17	1	2	2	288
Miscellaneous.....	4,333	4,302	1,768	2,374	4,142	106	3	162	11	4,424
TOTAL.....	48,398	48,329	9,724	37,443	47,167	655	213	496	53	48,584
GRAND TOTAL.....	69,535	60,291	17,436	38,895	56,331	671	593	3,923	728	62,246

There were 833 fatalities at rail-highway crossings in 1980. Although this continues the significant decline from previous years, rail-highway crossing accidents remain the principal cause of railroad fatalities. More than 58 percent of the 1,417 fatalities in 1980 occurred at rail-highway crossings; almost all involved "non-trespassers."

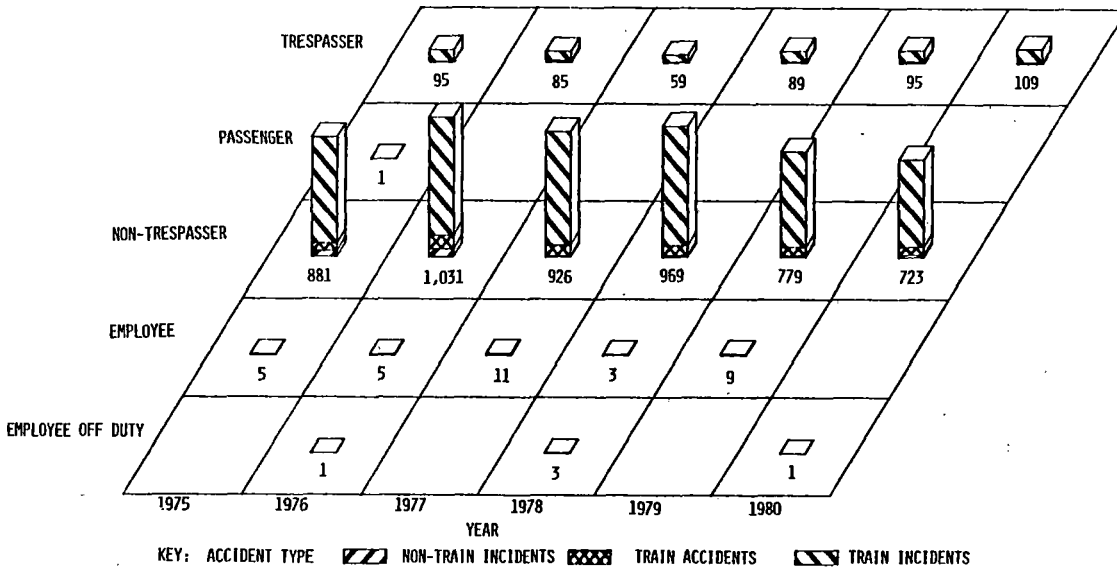


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON, 1975-1980

The remaining 584 fatalities occurred at locations other than rail-highway crossings and the majority of these fatalities involved trespassers.

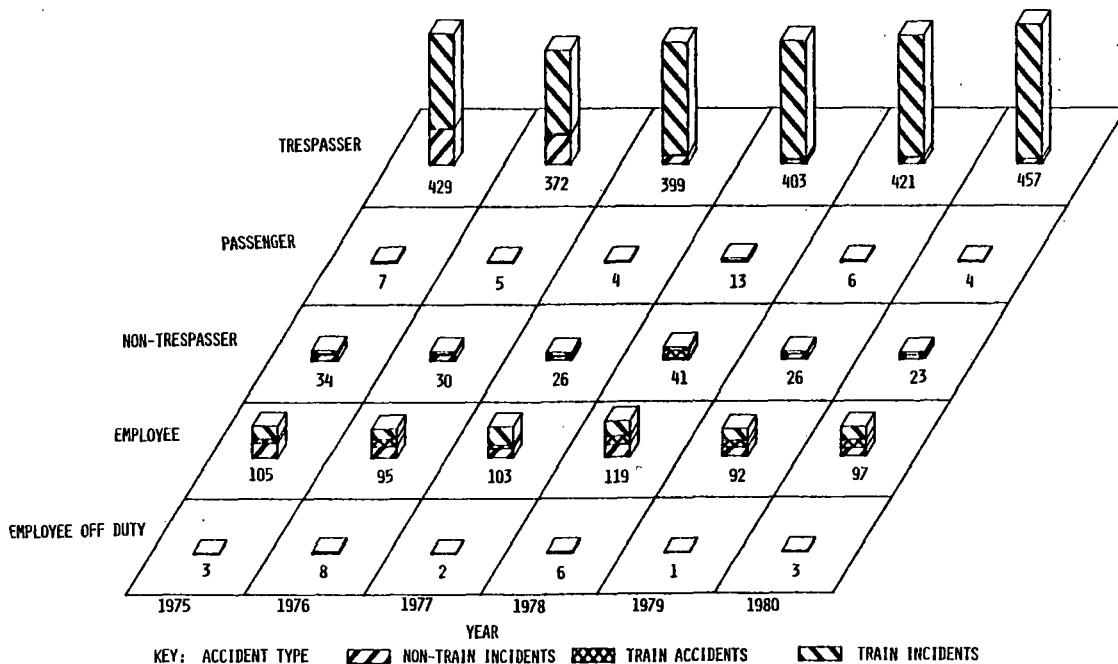


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS, 1975-1980

TABLE S2. TRAIN ACCIDENTS BY MONTH

Month	Accs		Total Damage	Damage Per MTM	.....Train Miles.....			
	Accs	Per MTM			Locomotive	Motor	Yard Switching	Total
January	812	13.28	25,509,707	\$417,077.43	42,048,660	2,835,540	16,278,864	61,163,064
February	817	13.48	29,767,743	\$491,257.41	42,147,166	2,672,680	15,775,173	60,595,019
March	850	13.10	21,180,827	\$326,376.06	44,885,662	2,848,684	17,162,721	64,897,067
April	740	12.11	22,477,385	\$367,848.54	42,461,197	2,721,830	15,921,728	61,104,755
May	659	10.99	24,672,841	\$411,296.28	41,963,359	2,699,510	15,324,912	59,987,781
June	657	11.46	24,302,886	\$424,045.33	39,996,481	2,700,323	14,614,776	57,311,580
July	687	12.09	29,175,921	\$513,452.67	39,462,738	2,838,861	14,521,736	56,823,335
August	642	11.00	17,652,592	\$302,342.89	41,621,876	2,740,453	14,023,212	58,385,541
September	683	11.89	20,193,880	\$351,644.35	40,432,444	2,687,971	14,306,546	57,426,961
October	636	10.42	21,580,955	\$353,450.08	43,022,562	2,759,160	15,276,299	61,058,021
November	609	10.31	18,662,472	\$315,997.09	41,976,320	2,584,659	14,497,559	59,058,538
December	659	11.01	18,728,131	\$312,917.81	42,519,543	2,693,939	14,636,597	59,850,079
Total...	8,451	11.78	273,905,340	\$381,663.43	502,538,008	32,783,610	182,340,123	717,661,741

NOTE: "MTM" = Million train miles

TABLE S40A. TRAIN ACCIDENTS BY TYPE AND MONTH

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	652	621	653	566	508	506	529	471	519	458	442	517	6,442
Head on collision	4	7	8	11	5	8	5	8	8	8	3	5	80
Rear end collision	15	15	17	10	11	13	14	14	15	23	8	9	164
Side collision	62	78	71	65	64	54	70	65	62	70	71	52	784
Raking collision	11	13	14	15	8	11	7	15	10	9	17	17	147
Broken train collision	2	3	3	3	2	---	1	1	1	1	2	4	23
Rail-hwy crossing	14	30	29	21	16	14	16	22	25	22	20	17	246
RR grade crossing	---	---	---	---	1	---	1	---	---	---	1	---	3
Obstruction	9	4	7	6	3	7	5	3	3	6	7	5	65
Explosion-detonation	---	---	---	---	---	---	1	---	1	---	---	---	2
Fire or violent rupture	19	17	15	18	18	9	13	16	22	19	14	9	189
Other	24	29	33	25	23	35	25	27	17	20	24	24	306
TOTAL.....	812	817	850	740	659	657	687	642	683	636	609	659	8,451

3. ACCIDENTS: DETAIL OF 1980 OCCURRENCES

TABLE S41. 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.....	156	10,402,491	1	150	5	---
Track geometry defects.....	1,575	48,442,881	9	1,564	2	---
Rail and joint bar defects.....	911	39,202,727	4	906	1	---
Frogs, switches and track appliances.....	808	10,075,158	52	748	8	---
Other way and structure.....	21	385,396	1	15	5	---
Signal and communication failures.....	21	330,736	6	11	4	---
Subtotal.....	3,492	108,839,389	73	3,394	25	---
MECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
Brakes.....	11	349,520	1	7	3	---
Body.....	---	---	---	---	---	---
Coupler and draft system.....	2	109,856	1	1	---	---
Truck components.....	9	64,323	---	8	1	---
Axles and journal bearings.....	6	69,631	---	5	1	---
Wheels.....	12	934,917	---	12	---	---
Locomotives.....	75	1,784,817	---	15	60	---
Doors.....	---	---	---	---	---	---
General mechanical and electrical failures.....	2	115,368	2	---	---	---
Subtotal (Locomotives).....	117	3,428,432	4	48	65	---
CAR FAILURE						
Brakes.....	176	5,148,276	15	133	28	---
Trailer or container on flat car.....	9	196,318	---	2	7	---
Body.....	141	6,386,813	2	128	11	---
Coupler and draft system.....	181	4,673,388	15	155	11	---
Truck components.....	314	9,771,772	3	308	3	---
Axles and journal bearings.....	200	10,538,863	---	193	7	---
Wheels.....	283	15,638,203	6	276	1	---
Doors.....	8	60,234	4	3	1	---
General mechanical and electrical failures.....	29	896,425	4	9	16	---
Subtotal (cars).....	1,341	53,310,292	49	1,207	85	---
TOTAL EQUIPMENT FAILURES.....	1,458	56,738,724	53	1,255	150	---
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of.....	343	9,347,599	202	113	28	---
Employee physical condition.....	6	126,697	3	3	---	---
Flagging, fixed, hand and radio signals.....	77	11,587,417	53	15	9	---
Other rules and instructions.....	651	11,449,294	463	138	50	---
Speed.....	216	8,342,635	77	117	22	---
Switches, use of.....	393	5,891,598	105	264	24	---
Miscellaneous.....	637	16,375,802	75	528	34	---
Subtotal.....	2,323	63,121,042	978	1,178	167	---
MISCELLANEOUS FACTORS						
Collision with highway user at grade crossing....	245	6,458,234	---	---	---	245
Emergency brake application to avoid accident....	15	439,891	---	14	1	---
Vandalism.....	171	5,619,524	15	92	64	---
Interference with rr oper.-not vandals.....	38	802,761	7	25	6	---
Load shifted.....	71	2,423,211	8	52	11	---
Load fell from car.....	12	343,877	---	6	6	---
Overloaded car.....	13	159,200	---	12	1	---
Improperly loaded car.....	57	1,200,357	2	53	2	---
Oversized load, misrouted.....	7	56,190	2	2	3	---
Object on or fouling track.....	76	2,008,719	2	44	30	---
Equipment on or fouling track.....	25	838,572	16	2	7	---
Trail/container tiedown eqp impr applied.....	9	522,128	1	3	5	---
Overload/improper loaded container etc.....	1	4,500	---	---	1	---
Interaction of lateral/vertical forces.....	162	7,282,683	2	160	---	---
Failure to control car spd with hand brk.....	9	158,349	3	5	1	---
Snow, ice, or mud on track.....	16	544,897	4	10	2	---
Other acts of god.....	13	1,067,002	2	8	3	---
Other causes.....	238	15,276,090	33	127	77	1
Subtotal.....	1,178	45,206,185	97	615	220	246
GRAND TOTAL.....	8,451	273,905,340	1,201	6,442	562	246

**TABLE S5. 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.....	20	965,087	5	15	---
501 Dynamic brake, improper use.....	6	245,252	---	6	---
502 Failure to secure engine (R.R. emp.).....	23	1,365,859	15	7	1
503 Failure to secure hnd brk (R.R. emp.).....	111	1,258,377	83	23	5
504 Failure to apply sufficient hand brake.....	67	3,036,428	39	20	8
505 Failure to apply hnd brk on car (emp.).....	48	831,593	37	9	2
506 Fail. to secure eng/car (Non R.R. emp.).....	8	180,800	6	1	1
507 Independent (eng.) brake, improper use.....	22	510,309	1	16	5
508 Fail. to control spd,hnd brk (R.R.emp.).....	8	78,182	2	3	3
509 Other causes involving use of brakes.....	30	875,712	14	13	3
SUBTOTAL.....	343	9,347,599	202	113	28
EMPLOYEE PHYSICAL CONDITION					
510 Impairment due to alcohol or drugs.....	2	43,600	---	2	---
513 Employee falling asleep.....	4	83,097	3	1	---
SUBTOTAL.....	6	126,697	3	3	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS					
517 Absence of fixed signal (Blue signal).....	1	35,014	1	---	---
519 Fixed signal improperly displayed.....	1	3,000	1	---	---
520 Fixed signal, failure to comply.....	22	10,843,124	19	3	---
521 Flagging, improper or failure to flag.....	7	128,858	5	1	1
522 Flagging signal, failure to comply.....	1	7,000	---	---	1
523 Hand signal, failure to comply.....	6	69,440	2	1	3
524 Hand signal improper.....	---	600	---	---	---
525 Hand signal, failure to give/receive.....	7	128,911	5	1	1
526 Radio communication, failure to comply.....	7	102,975	5	2	---
527 Radio communication, improper.....	4	29,800	3	---	1
528 Radio comm., failure to give/receive.....	11	87,485	6	5	---
529 Flagging, fixed, hand & radio (other).....	10	151,210	6	2	2
SUBTOTAL.....	77	11,587,417	53	15	9
OTHER RULES AND INSTRUCTIONS					
530 Car(s) shoved out & left out of clear.....	49	537,124	42	4	3
531 Cars left foul.....	86	734,898	71	4	11
532 Derail, failure to apply or remove.....	28	188,037	3	25	---
533 Failure to stop train in clear.....	102	1,562,254	92	9	1
535 Instruction to trn/yard crew improper.....	22	229,968	17	3	2
536 Mtr car/on-trk eqp rules,fail to cmPLY.....	37	400,866	26	1	10
537 Equip move without authority (RR emp.).....	19	270,472	11	6	2
538 Shoving move, missing man at lead.....	176	2,126,042	130	33	13
539 Shoving movement, fail to control.....	83	2,692,884	48	31	4
540 Skate, failure to remove or place.....	5	46,940	4	1	---
541 Special op. instr., failure to comply.....	38	1,767,020	16	18	4
542 Trn ord/timetable auth, fail to comply.....	4	633,789	2	2	---
543 Trn ord(radio)err in prep/trans/deliv.....	1	9,500	1	---	---
544 Trn ord(written)err in preparation,etc.....	1	249,500	---	1	---
SUBTOTAL.....	651	11,449,294	463	138	50

TABLE S5. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	
	Accidents	Damage				
SPEED						
550	Coupling speed excessive.....	71	766,360	25	27	19
553	Switch movement, excessive speed.....	44	987,866	19	22	3
554	Trn inside yrd limit, excess speed.....	31	730,150	17	14	---
555	Trn out yrd limit,clear blk,excess spd.....	34	3,606,271	---	34	---
559	Other Causes involving excessive speed.....	36	2,251,988	16	20	---
	SUBTOTAL.....	216	8,342,635	77	117	22
SWITCHES, USE OF						
560	Spring switch not clear before reverse.....	19	115,794	---	18	1
561	Switch improperly lined.....	260	4,649,194	103	136	21
562	Switch not latched or locked.....	19	253,472	---	18	1
563	Switch previously run through.....	95	873,138	2	92	1
	SUBTOTAL.....	393	5,891,598	105	264	24
MISCELLANEOUS						
570	Buffing or slack action excessive.....	307	10,308,134	2	304	1
571	Failure to couple.....	36	305,641	20	13	3
572	Lateral drawbar force on curve excess.....	92	1,847,170	---	91	1
573	Moving car,loading ramp not positioned.....	2	10,477	---	1	1
574	Passed couplers.....	84	804,853	3	73	8
575	Retarder, improper manual operation.....	16	139,288	9	3	4
576	Retarder yard skate improperly applied.....	5	47,341	3	2	---
599	Other train operation/human factors.....	95	2,912,898	38	41	16
	SUBTOTAL.....	637	16,375,802	75	528	34
	GRAND TOTAL.....	2,323	63,121,042	978	1,178	167

TABLE S6. TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
BRAKES					
400 Air hose uncoupled or burst.....	29	1,070,788	1	28	---
400L Air hose uncoupled or burst - loco.....	1	9,800	---	1	---
401 Hydraulic hose uncoupled or burst.....	1	5,400	---	1	---
402 Broken brake pipe or connections.....	11	780,410	---	11	---
403L Obstructed brake pipe - locomotive.....	1	5,000	---	1	---
404 Other brake component failure, etc.....	18	340,510	---	16	2
404L Other brake component failure - loco.....	2	71,660	---	1	1
405 Brk valve malf. (undesired emergency).....	6	455,249	---	6	---
405L Brk valve malf - loco (emergency appl).....	1	104,950	---	1	---
406 Brake valve malfunction/stuck brake/etc.....	18	196,590	---	3	15
406L Brk valve malf./stuck brake/etc - loco.....	2	7,860	---	---	2
407 Rigging down or dragging.....	56	1,774,173	---	53	3
408 Hand brake/gear broken or defective.....	13	234,135	8	2	3
409 Hand brk linkage/connections failure.....	15	220,355	5	7	3
410 Other brake failure(not on locomotive).....	9	70,666	1	6	2
410L Other brake failure - locomotive.....	4	150,250	1	3	---
SUBTOTAL.....	187	5,497,796	16	140	31
TRAILER OR CONTAINER ON FLAT CAR					
411 Broken or defective tiedown equipment.....	3	32,415	---	1	2
419 Oth trailer/container on flat car fail.....	6	163,903	---	1	5
SUBTOTAL.....	9	196,318	---	2	7
BODY					
420 Body bolster broken or defective.....	17	880,337	---	17	---
421 Center sill broken or bent.....	35	1,434,774	1	28	6
422 Draft sill broken or bent.....	8	445,979	---	7	1
423 Center plate broken or defective.....	27	1,057,398	---	27	---
424 Center plate disengaged from truck.....	34	1,439,715	1	33	---
425 Center pin broken or missing.....	7	105,275	---	6	1
426 Center plate attachment defective.....	5	669,443	---	4	1
429 Other causes due to body (not loco).....	8	353,892	---	6	2
SUBTOTAL.....	141	6,386,813	2	128	11
COUPLER AND DRAFT SYSTEM					
430 Knuckle broken or defective.....	12	243,095	2	7	3
430L Knuckle broken or defective - loco.....	1	6,956	---	1	---
431 Coupler mismatch, high/low.....	25	226,601	1	23	1
431L Coupler mismatch, high/low - loco.....	1	102,900	1	---	---
432 Coupler drawhead broken or defective.....	38	1,035,890	3	34	1
433 Coupler retainer pin/cross key missing.....	14	359,486	---	13	1
434 Draft gear/mechanism broken/defective.....	27	603,994	---	26	1
435 Coupler carrier broken or defective.....	20	625,581	2	17	1
436 Coupler shank broken or defective.....	21	308,639	2	18	1
439 Other coupler and draft system causes.....	24	1,270,102	5	17	2
SUBTOTAL.....	183	4,783,244	16	156	11
TRUCK COMPONENTS					
440 Side bearing clearance improper.....	122	2,960,647	---	122	---
440L Side bearing clearance improper - loco.....	1	8,905	---	1	---
441 Side bearing(s) broken.....	20	515,234	2	18	---
442 Side bearing(s) missing.....	15	698,621	---	15	---
443 Truck bolster broken.....	17	385,153	---	14	3
444 Side frame broken.....	7	350,487	---	7	---
445 Truck (stiff/improper lateral).....	96	2,654,054	---	96	---
445L Truck (stiff/improper lateral) - loco.....	4	19,795	---	4	---
446 Defective snubbing.....	3	36,100	---	3	---
447 Broken/missing/defective springs.....	5	600,746	1	4	---
449 Other truck component causes.....	29	1,570,730	---	29	---
449L Other truck component causes - loco.....	4	35,623	---	3	1
SUBTOTAL.....	323	9,836,095	3	316	4

TABLE S6. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
AXLES AND JOURNAL BEARINGS					
450 Broken or bent between wheel seats.....	10	370,992	---	10	---
450L Broken/bent between wheel seats-loco.....	4	57,381	---	3	1
451 Journal (plain) failure - overheating.....	120	6,595,190	---	117	3
452 Journal (R. B.) failure - overheat.....	56	2,511,308	---	53	3
452L Journal (R. B.) failure-overheat(loco).....	2	12,250	---	2	---
453 Journal fractured, new cold break.....	9	418,290	---	8	1
454 Journal fract., cold brk(prev. O.heat).....	3	458,144	---	3	---
459 Axles and journal bearings (other).....	2	184,939	---	2	---
SUBTOTAL.....	206	10,608,494	---	198	8
WHEELS					
460 Broken flange.....	36	3,572,874	2	33	1
461 Broken rim.....	31	1,598,487	---	31	---
462 Broken plate.....	35	3,006,045	---	35	---
462L Broken plate - locomotive.....	2	25,300	---	2	---
463 Broken hub.....	7	483,590	---	7	---
463L Broken hub - locomotive.....	1	783,300	---	1	---
464 Worn flange.....	115	2,158,349	2	113	---
464L Worn flange - locomotive.....	6	117,535	---	6	---
465 Worn thread.....	2	17,395	---	2	---
466 Damaged flange/thread, thermal/flat.....	6	253,950	---	6	---
467 Loose wheel.....	30	3,209,945	1	29	---
467L Loose wheel - locomotive.....	1	3,500	---	1	---
469 Other causes involving wheels-not loco.....	21	1,337,568	1	20	---
469L Other causes involving wheel - loco.....	2	5,282	---	2	---
SUBTOTAL.....	295	16,573,120	6	288	1
LOCOMOTIVES					
470L Running gear failure - locomotive.....	1	5,350	---	1	---
471L Traction motor failure - locomotive.....	5	130,260	---	2	3
472L Crank case/air box explosion - loco.....	1	8,500	---	---	1
473L Oil fire - locomotive.....	6	97,813	---	---	6
474L Electrically caused fire - locomotive.....	41	1,087,688	---	1	40
475L Current collector system - loco.....	6	56,795	---	---	6
476L Remote control eqp. inoperative-loco.....	1	125,000	---	1	---
477L Broke/defect swing hanger or plank-loc.....	1	11,700	---	---	1
479L Other causes involving locomotives.....	13	261,711	---	10	3
SUBTOTAL.....	75	1,784,817	---	15	60
DOORS					
480 Box car plug door open.....	1	6,700	1	---	---
481 Box car plug door,attachment defective.....	1	9,224	1	---	---
482 Box car plug door,lock lever not in.....	1	4,500	---	---	1
484 Box car door(not plug) attach defect.....	1	4,565	1	---	---
485 Bottom outlet car door open.....	2	26,859	---	2	---
486 Bottom outlet car door attach defect.....	1	3,350	---	1	---
489 Other causes involving doors.....	1	5,036	1	---	---
SUBTOTAL.....	8	60,234	4	3	1
GENERAL MECHANICAL AND ELECTRICAL FAILURES					
499 General mech/elect failures-not loco.....	29	896,425	4	9	16
499L General mech/elect failures - loco.....	2	115,368	2	---	---
SUBTOTAL.....	31	1,011,793	6	9	16
GRAND TOTAL.....	1,458	56,738,724	53	1,255	150

TABLE S7. TRAIN ACCIDENTS RESULTING FROM DEFECTS IN TRACK, ROADBED, AND STRUCTURES

Cause Of Accident	-----Total-----		Collisions	Derailments	Other
	Accidents	Damage			
ROADBED DEFECTS					
101 Roadbed settled or soft.....	111	3,610,889	---	111	---
102 Washout/rain/slide/ice,etc. dmg to trk.....	31	3,209,294	---	26	5
109 Other roadbed defects.....	14	3,582,308	1	13	---
SUBTOTAL.....	156	10,402,491	1	150	5
TRACK GEOMETRY DEFECTS					
110 Wide gage (defect/missing crossties).....	531	6,922,155	2	529	---
111 Wide gage (def/missing rail fasteners).....	104	2,406,222	---	103	1
112 Wide gage (involving gage rods).....	19	423,327	---	19	---
113 Wide gage due to worn rail.....	50	1,272,493	---	50	---
114 Track alignment irregular.....	94	3,438,666	---	94	---
115 Track alignment irregular (buckled).....	174	14,221,120	---	174	---
116 Track profile improper.....	23	1,177,165	---	22	1
117 Superelevation incorrect.....	43	1,195,829	---	43	---
118 Superelevation runoff improper.....	4	192,644	1	3	---
119 Cross level irregular at joints.....	359	11,778,811	2	357	---
120 Cross level irregular not at joints.....	141	4,682,557	4	137	---
129 Other track geometry defects.....	33	731,892	---	33	---
SUBTOTAL.....	1,575	48,442,881	9	1,564	2
RAIL AND JOINT BAR DEFECTS					
130 Bolt hole crack or break.....	56	3,283,605	---	56	---
131 Broken base of rail.....	193	6,352,664	1	192	---
132 Broken weld, field.....	7	473,400	---	7	---
133 Broken weld, plant.....	5	593,351	---	5	---
134 Detail fracture fm shelling/head check.....	17	1,109,532	---	17	---
135 Engine burn fracture.....	1	3,725	---	1	---
136 Head/web sep.(outside joint bar limit).....	79	3,250,329	1	78	---
137 Head/web sep.(within joint bar limits).....	26	1,124,975	---	25	1
138 Horizontal split head.....	20	408,872	---	20	---
139 Piped rail.....	3	190,300	---	3	---
140 Rail defect with joint bar repair.....	7	97,391	---	7	---
141 Transverse/compound fissure.....	122	7,691,844	1	121	---
142 Vertical split head.....	130	3,927,976	---	130	---
143 Worn rail.....	48	1,739,974	---	48	---
144 Mismatched rail-head contour.....	22	432,846	---	22	---
145 Joint bar broken, compromise.....	7	763,335	---	7	---
146 Joint bar broken, insulated.....	6	1,006,140	---	6	---
147 Joint bar broken, noninsulated.....	50	2,094,128	1	49	---
148 Joint bolts, broken or missing.....	16	919,069	---	16	---
149 Other rail and joint bar defects.....	96	3,739,271	---	96	---
SUBTOTAL.....	911	39,202,727	4	906	1

TABLE S7. (CONTINUED)

Cause Of Accident	-----Total-----		Collisions	Derailments	Other	
	Accidents	Damage				
FROGS, SWITCHES AND TRACK APPLIANCES						
160	Guard rail loose/broken/etc.....	16	239,046	---	16	---
161	Switch damaged/out of adjustment.....	166	1,816,460	6	160	---
162	Switch stand failure (hand oper.).....	16	226,265	---	16	---
163	Switch connecting/oper. rod fail.....	19	248,812	---	19	---
164	Stock rail worn/broken/disconnect.....	16	196,204	---	16	---
165	Switch point worn or broken.....	374	4,983,373	4	369	1
166	Switch rod worn/bent/broken/etc.....	16	298,912	---	16	---
167	Frog, rigid, worn or broken.....	17	348,517	---	17	---
168	Frog, spring, worn or broken.....	7	129,299	---	7	---
169	Frog, self guarded, worn/broken.....	2	11,900	---	2	---
171	Derail, defective.....	4	26,487	---	4	---
172	Expansion joint failure/malfunction.....	3	95,350	---	3	---
173	Retarder worn/broken/malfunction.....	41	368,630	31	6	4
174	Spring/power switch mech. malfunction.....	22	212,735	4	15	3
175	Retarder yard skate defective.....	6	30,895	5	1	---
176	Switch out of adjust.(insuf rail anch).....	23	240,424	---	23	---
179	Other frog/switches/track appl. causes.....	60	601,849	2	58	---
	SUBTOTAL.....	808	10,075,158	52	748	8
OTHER WAY AND STRUCTURES						
180	Bridge misalignment or failure.....	2	62,212	---	1	1
181	Flangeway clogged.....	8	59,364	---	8	---
189	Other way and structure causes.....	11	263,820	1	6	4
	SUBTOTAL.....	21	385,396	1	15	5
SIGNAL AND COMMUNICATION FAILURES						
200	Fix sig. improperly displayed (defect).....	---	24,850	---	---	---
201	Radio communication equipment failure.....	7	51,649	---	5	2
202	Other communication equipment failure.....	2	64,348	---	1	1
209	Signal & communication failure N.O.C.....	12	189,889	6	5	1
	SUBTOTAL.....	21	330,736	6	11	4
			716,132			
	GRAND TOTAL.....	3,492	108,839,389	73	3,394	25

TABLE S8. 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.....	245	6,458,234	---	---	---	245
701 Emergency brk appl to avoid accident.....	15	439,891	---	14	1	---
702 Vandalism.....	171	5,619,524	15	92	64	---
703 Interference with RR oper.-not vandals.....	38	802,761	7	25	6	---
704 Load shifted.....	71	2,423,211	8	52	11	---
705 Load fell from car.....	12	343,877	---	6	6	---
706 Overloaded car.....	13	159,200	---	12	1	---
707 Improperly loaded car.....	57	1,200,357	2	53	2	---
708 Oversized load, misrouted.....	7	56,190	2	2	3	---
709 Object on or fouling track.....	76	2,008,719	2	44	30	---
710 Equipment on or fouling track.....	25	838,572	16	2	7	---
711 Trail/contain tiedown eqp-impr applied.....	9	522,128	1	3	5	---
712 Overload/improper loaded container etc.....	1	4,500	---	---	1	---
713 Interaction of lateral/vertical forces.....	162	7,282,683	2	160	---	---
714 Failure to control spd with hand brake.....	9	158,349	3	5	1	---
715 Snow, ice, or mud on track.....	16	544,897	4	10	2	---
716 Other acts of God.....	13	1,067,002	2	8	3	---
799 Other miscellaneous causes.....	238	15,276,090	33	127	77	1
SUBTOTAL.....	1,178	45,206,185	97	615	220	246
GRAND TOTAL.....	1,178	45,206,185	97	615	220	246

TABLE S43. 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....	402	16,543,202	4,306	145,914,009	168	3,328,284	175	3,744,297	5,051	169,529,792
Passenger train..	15	3,566,300	38	3,651,858	52	1,438,602	34	1,111,853	139	9,768,613
Mixed train.....	---	---	1	10,000	---	---	1	185,504	2	195,504
Work train.....	6	598,993	25	476,934	3	6,000	2	11,000	36	1,092,927
Single car.....	262	1,546,627	54	257,296	129	1,013,685	8	54,398	453	2,872,006
Cut of cars.....	461	3,382,193	178	3,174,419	85	833,566	---	---	724	7,390,178
Yard/switching...	833	6,287,218	1,575	10,373,635	87	818,426	9	437,655	2,504	17,916,934
Light loco(s)....	215	4,742,905	113	1,285,446	29	462,528	7	47,541	364	6,538,420
Unknown.....	---	---	---	---	---	---	---	---	---	---
Total.....	2,194	36,667,438	6,290	165,143,597	553	7,901,091	236	5,592,248	9,273	215,304,374

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

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

A train accident is reportable when total reportable damages exceed the established monetary threshold. The presence of or damage to cars transporting hazardous material is not considered in determining reportability. For all train accidents, however, information concerning any placarded hazardous material cars and the number of people evacuated must be included on the accident report. Although this does not represent a complete accounting of all hazardous materials releases, it provides some insight into the extent of hazardous materials car involvement in train accidents.

The information in this section only represents 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 consist.

TABLE S10. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	.....Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Derailment	673	49,879	3,466	866	160	17,466	31,827,453
Head on collision	5	259	14	5	---	---	852,198
Rear end collision	12	929	85	6	1	---	2,875,884
Side collision	83	3,430	230	73	7	8,202	2,114,776
Raking collision	15	954	69	7	1	---	299,626
Broken train collision	3	304	23	7	---	---	109,028
Rail-hwy crossing	22	2,059	59	2	1	37	461,242
RR grade crossing	1	94	47	---	---	---	14,500
Obstruction	3	328	56	13	---	---	682,671
Explosion-detonation	---	---	---	---	---	---	---
Fire or violent rupture	7	434	31	2	2	10	61,400
Other	18	1,027	59	8	1	---	59,765
TOTAL.....	842	59,697	4,139	989	173	25,715	39,358,543

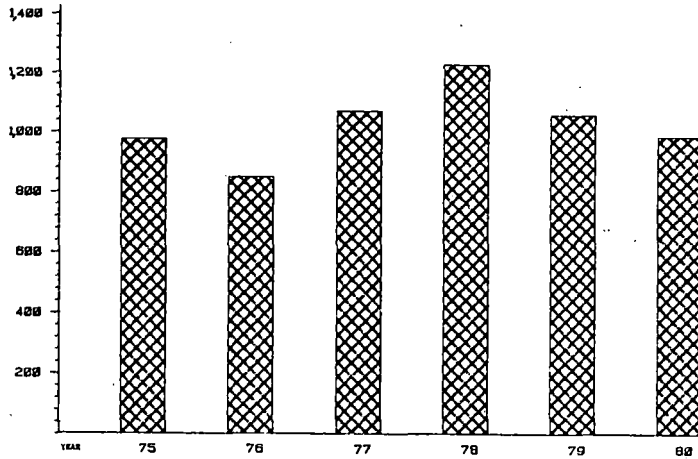


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED, 1975-1980

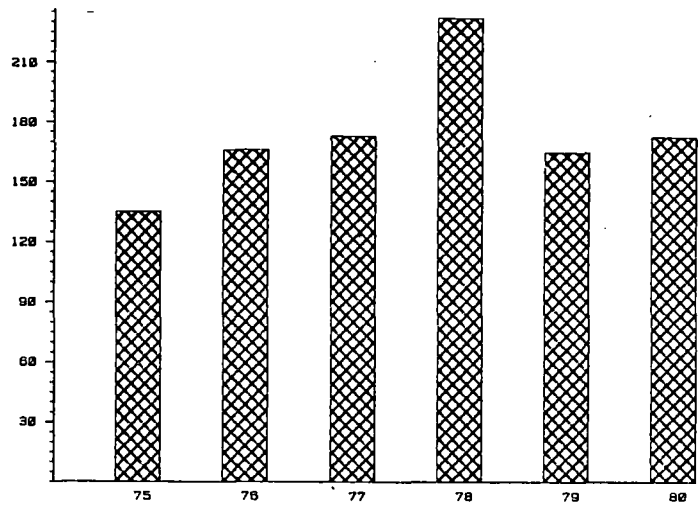


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIAL BY YEAR, 1975-1980

TABLE S10A. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

Cause	.....Cars.....					People Evacuated	Damage To Equipment
	Consists Carrying	In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
TRACK, ROADBED AND STRUCTURES							
Roadbed defects.....	11	925	110	34	5	---	1,650,031
Track geometry defects.....	150	9,958	780	208	34	349	4,164,806
Rail and joint bar defects.....	86	6,081	582	169	26	4,069	4,604,433
Frogs, switches and track appliances.....	91	5,124	545	96	12	---	1,093,593
Other way and structure.....	5	366	15	---	---	---	178,125
Signal and communication failures.....	2	151	7	6	---	---	95,900
Subtotal.....	345	22,605	2,039	513	77	4,418	11,786,888
MECHANICAL AND ELECTRICAL FAILURES							
Brakes.....	25	2,278	158	32	2	200	1,794,775
Trailer or container on flat car.....	3	218	13	2	2	10	10,640
Body.....	22	1,741	81	26	9	498	2,079,809
Coupler and draft system.....	24	2,407	111	19	9	1,130	1,201,271
Truck components.....	28	2,739	177	28	1	45	832,238
Axles and journal bearings.....	37	3,401	144	40	18	6	2,654,285
Wheels.....	40	2,945	240	57	19	350	3,904,948
Locomotives.....	4	341	23	---	---	---	48,050
Doors.....	---	---	---	---	---	---	---
General mechanical and electrical failures.....	1	121	7	---	---	---	33,328
Subtotal.....	184	16,191	954	204	60	2,239	12,559,344
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of.....	34	1,828	108	33	2	2	391,730
Employee physical condition.....	2	197	10	---	---	---	15,900
Flagging, fixed, hand and radio signals.....	11	918	36	7	1	---	5,028,124
Other rules and instructions.....	63	2,949	211	36	4	8,004	743,163
Speed.....	14	882	37	12	---	---	669,241
Switches, use of.....	32	1,825	83	25	2	15	249,990
Miscellaneous.....	54	3,745	232	52	7	---	1,847,800
Subtotal.....	210	12,344	717	165	16	8,021	8,945,948
MISCELLANEOUS FACTORS							
Collision with highway user at grade crossing....	22	2,059	59	2	1	37	461,242
Emergency brake application to avoid accident....	4	553	35	2	---	---	65,442
Vandalism.....	7	574	23	5	1	1,000	56,969
Interference with rr oper.-not vandals.....	2	144	41	3	---	---	11,273
Load shifted.....	7	579	15	7	2	---	419,766
Load fell from car.....	---	---	---	---	---	---	---
Overloaded car.....	---	---	---	---	---	---	---
Improperly loaded car.....	8	656	33	20	---	---	197,500
Oversized load, misrouted.....	1	117	3	---	---	---	22,200
Object on or fouling track.....	5	423	11	2	1	---	227,709
Equipment on or fouling track.....	1	51	1	---	---	---	5,850
Trail/container tiedown eqp impr applied.....	1	87	7	3	---	---	310,000
Overload/improper loaded container etc.....	1	108	1	---	---	---	---
Interaction of lateral/vertical forces.....	15	1,245	56	19	6	2,500	616,700
Failure to control car spd with hand brk.....	1	2	2	2	1	---	12,600
Snow, ice, or mud on track.....	1	52	51	13	---	---	300,000
Other acts of god.....	---	---	---	---	---	---	---
Other causes.....	27	1,907	91	29	8	7,500	3,359,112
Subtotal.....	103	8,557	429	107	20	11,037	6,066,363
GRAND TOTAL.....	842	59,697	4,139	989	173	25,715	39,358,543

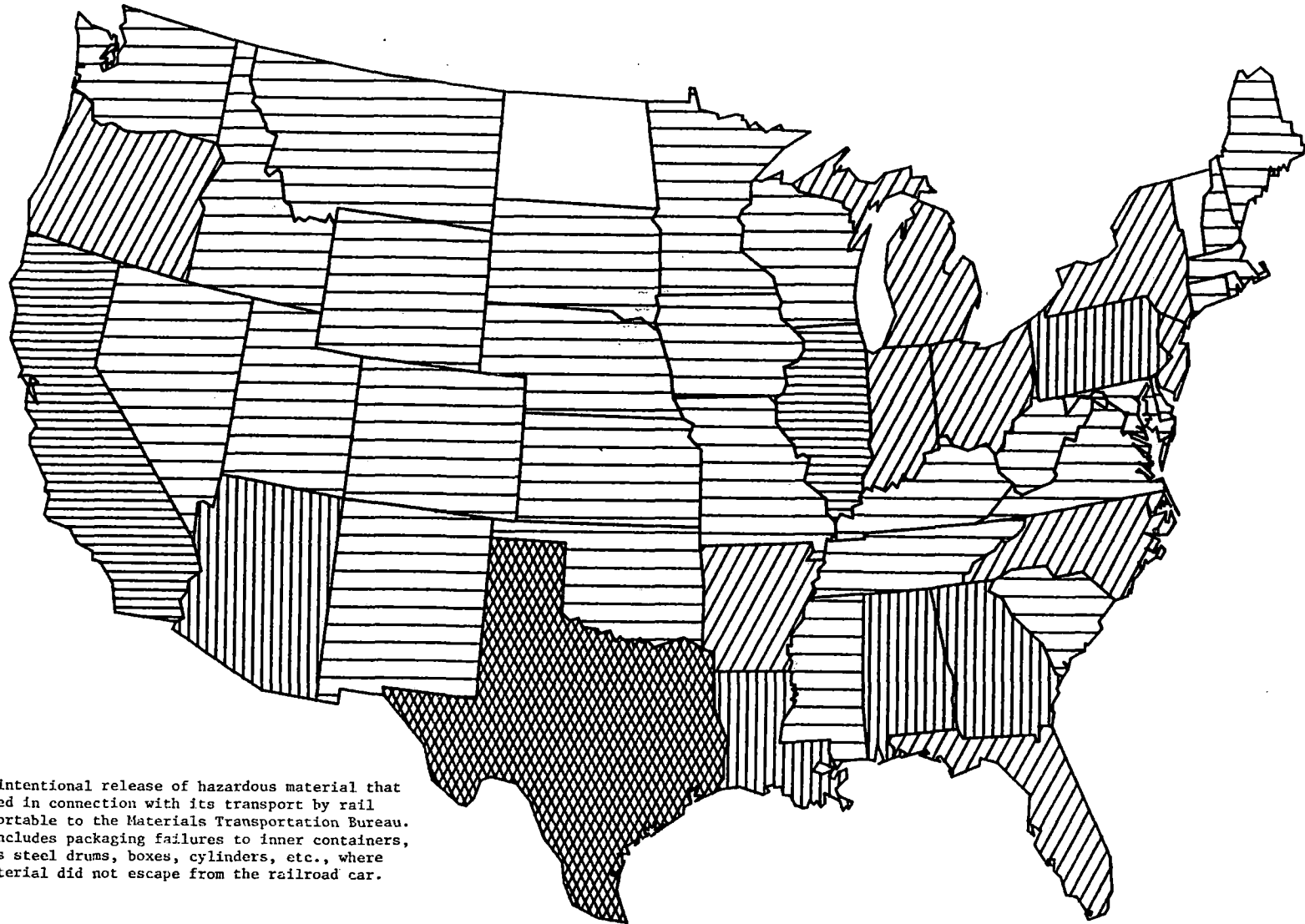
No. of days in a hospital for exposure to hazardous materials in an accident

TABLE S9. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	Consists Carrying	.....Cars.....				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Alabama.....	23	1,815	118	26	10	37	1,466,607
Alaska.....	7	123	121	29	---	---	326,850
Arizona.....	5	356	10	4	2	1,010	42,550
Arkansas.....	17	1,300	172	29	4	250	982,500
California.....	40	2,391	103	30	2	---	3,263,408
Colorado.....	6	315	17	4	1	---	131,800
Connecticut.....	2	119	6	2	---	---	3,400
Delaware.....	---	---	---	---	---	---	---
Dist of Columbia.	---	---	---	---	---	---	---
Florida.....	8	659	175	8	---	---	102,792
Georgia.....	33	2,716	172	36	5	750	727,165
Idaho.....	4	295	12	2	1	---	161,206
Illinois.....	58	4,059	299	41	6	---	2,784,044
Indiana.....	26	2,017	89	22	8	2	1,205,131
Iowa.....	10	710	17	13	6	230	834,700
Kansas.....	11	262	34	13	2	2	67,350
Kentucky.....	39	3,056	221	36	10	7,811	2,262,809
Louisiana.....	33	2,239	314	61	4	4,200	760,812
Maine.....	8	507	18	14	4	---	431,400
Maryland.....	4	225	9	9	---	---	127,800
Massachusetts....	10	444	27	2	1	8,000	188,646
Michigan.....	19	1,290	123	26	3	---	265,824
Minnesota.....	24	2,024	104	16	1	---	1,385,090
Mississippi.....	30	2,691	218	53	7	6	1,705,014
Missouri.....	18	1,434	54	13	8	430	804,750
Montana.....	7	539	26	7	1	37	739,000
Nebraska.....	5	280	11	11	1	---	288,425
Nevada.....	2	189	3	1	---	---	127,106
New Hampshire....	---	---	---	---	---	---	---
New Jersey.....	13	402	59	24	2	1,000	54,600
New Mexico.....	11	775	42	10	2	---	221,050
New York.....	19	1,499	59	20	2	---	714,120
North Carolina...	22	2,077	65	12	2	---	1,270,538
North Dakota.....	7	468	43	6	---	---	315,229
Ohio.....	32	1,833	90	52	5	654	1,758,001
Oklahoma.....	20	1,335	80	6	---	---	484,184
Oregon.....	5	360	13	6	1	---	263,350
Pennsylvania.....	51	4,221	346	122	34	1,256	2,736,680
Rhode Island.....	1	27	1	---	---	---	19,516
South Carolina...	4	390	7	2	---	---	171,709
South Dakota.....	1	29	1	1	1	---	9,500
Tennessee.....	46	3,200	234	33	4	---	898,460
Texas.....	107	6,820	443	134	24	15	4,525,435
Utah.....	6	477	13	10	1	---	844,900
Vermont.....	---	---	---	---	---	---	---
Virginia.....	13	1,081	57	7	1	---	1,151,193
Washington.....	6	243	31	10	3	---	712,600
West Virginia....	11	804	44	21	2	25	1,144,450
Wisconsin.....	15	1,270	25	5	2	---	804,049
Wyoming.....	3	331	13	---	---	---	72,800
Unknown.....	---	---	---	---	---	---	---
TOTAL.....	842	59,697	4,139	989	173	25,715	39,358,543

TABLE R4. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

Railroad	Cars.....					People Evacuated	Damage To Equipment
	Consists Carrying	In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.....	4	408	39	22	2	---	653,050
Amtrak.....	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.....	58	3,130	235	47	11	---	4,040,109
Baltimore And Ohio Railroad Co.....	36	2,806	173	80	27	179	2,294,700
Bessemer And Lake Erie Railroad Co.....	2	43	2	---	---	---	5,850
Boston And Maine Corporation.....	12	679	34	6	1	8,000	538,950
Burlington Northern Incorporated.....	24	1,427	87	32	10	267	2,708,200
Central Of Georgia Railroad Company.....	2	84	9	---	---	---	80,450
Chesapeake And Ohio Railway Company.....	16	1,262	119	15	2	30	269,459
Chicago And Northwestern Transportation Co..	8	617	10	8	2	---	152,150
Chicago, Milw, St. Paul And Pacific RR Co...	3	197	4	1	---	---	46,950
Chicago, Rock Island And Pacific Railroad...	3	83	13	13	---	---	6,750
Cincinnati, New Orleans And Tx Pacific Co...	2	239	4	---	---	---	54,000
Clinchfield Railroad Company.....	4	292	10	2	---	---	212,458
Colorado And Southern Railway Co.....	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	86	5,630	428	156	21	2,756	2,543,447
Delaware And Hudson Railway.....	6	491	26	7	1	---	133,270
Denver And Rio Grande Western RR Co.....	2	148	2	1	---	---	101,500
Detroit, Toledo And Ironton RR Co.....	3	208	11	4	---	---	690,800
Duluth, Missabe And Iron Range Rwy Co.....	1	31	4	---	---	---	3,669
Elgin, Joliet And Eastern Railway Co.....	---	---	---	---	---	---	---
Florida East Coast Railway Co.....	---	---	---	---	---	---	---
Forth Worth And Denver Railroad Co.....	2	158	2	---	---	---	8,800
Grand Truck Western Railroad Co.....	1	28	4	4	---	---	---
Illinois Central Gulf Railroad Co.....	77	5,873	595	101	16	11,751	3,027,744
Kansas City Southern Railway Co.....	11	777	91	13	2	---	248,920
Long Island Railroad Company.....	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company.....	9	672	83	11	2	---	364,002
Louisville And Nashville Railroad Co.....	54	4,335	257	51	11	736	2,447,074
Missouri Pacific Railroad Co.....	59	4,223	307	65	12	680	2,177,300
Missouri-Kansas-Texas Railroad Co.....	11	813	17	2	---	---	70,475
Norfolk And Western Railway Co.....	29	2,590	105	11	3	2	3,504,623
Pittsburg And Lake Erie Railroad Co.....	1	8	2	2	---	---	4,000
Seaboard Coast Line Railroad Co.....	47	4,088	330	42	6	---	1,744,673
Sooline Railroad Company.....	41	3,370	129	17	3	---	1,764,510
Southern Pacific Transportation Co.....	92	6,204	325	108	13	1,210	3,776,639
Southern Railway Company.....	25	1,979	89	15	3	---	851,475
St. Louis Southwestern Railway Co.....	4	457	7	4	1	---	26,050
St. Louis-San Francisco Railway Co.....	22	1,374	71	13	6	37	1,370,849
Union Pacific Railroad Co.....	18	1,278	55	29	3	2	848,087
Western Maryland Railway Co.....	3	171	8	6	---	---	88,000
Western Pacific Railroad Co.....	3	218	3	1	---	---	590,000
TOTAL CLASS I RAILROADS.....	781	56,391	3,690	889	158	25,650	37,448,983
CLASS II RAILROADS							
Autotrain Corporation.....	---	---	---	---	---	---	---
Bangor And Aroostook Railroad Co.....	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine.....	2	217	4	---	---	---	176,700
Central Vermont Railway Inc.....	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.....	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.....	1	13	5	3	1	---	2,000
Detroit And Toledo Shore Line Railroad.....	2	263	21	13	1	---	41,650
Duluth, Winnipeg And Pacific Rwy Co.....	2	180	7	2	---	---	210,000
Georgia Railroad Lessee Organization.....	5	488	21	9	4	50	390,630
Georgia Southern And Florida Railway.....	1	67	18	---	---	---	20,150
Green Bay And Western Railroad.....	---	---	---	---	---	---	---
Illinois Terminal Railroad.....	3	129	13	2	---	---	55,100
Lake Superior And Ishpeming Railroad Co....	---	---	---	---	---	---	---
Maine Central Railroad Company.....	4	212	11	11	4	---	162,700
Michigan Interstate Railroad (Ann Arbor)....	---	---	---	---	---	---	---
Norfolk Southern Railway Company.....	---	---	---	---	---	---	---
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac RR Co...	5	315	9	4	---	---	296,000
Texas, Mexican Railway Company.....	1	29	1	1	1	15	10,000
Toledo, Peoria And Western Railroad Co.....	---	---	---	---	---	---	---
TOTAL CLASS II RAILROADS.....	26	1,913	110	45	11	65	1,364,930
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS.....	781	56,391	3,690	889	158	25,650	37,448,983
CLASS II RAILROADS.....	26	1,913	110	45	11	65	1,364,930
CLASS III RAILROADS.....	35	1,393	339	55	4	---	544,630
TOTAL ALL RAILROADS.....	842	59,697	4,139	989	173	25,715	39,358,543



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.

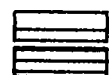
FREQUENCY



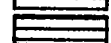
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51 TO 75



1 TO 25



101 TO 125



26 TO 50



176 TO 200

FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES, 1980 -
MATERIALS TRANSPORTATION BUREAU

5. ACCIDENTS AND CASUALTIES BY STATE

TABLE S3A. 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.....	16	256,056	150	4,725,815	4	24,000	9	98,538	179	5,104,409
Alaska.....	---	---	9	127,870	2	375,137	2	188,730	13	691,737
Arizona.....	9	200,236	39	723,985	6	151,383	1	28,800	55	1,104,404
Arkansas.....	21	305,830	103	3,993,366	5	45,000	2	30,050	131	4,374,246
California.....	64	4,552,045	260	7,352,430	30	801,174	14	170,570	368	12,876,219
Colorado.....	19	508,596	72	3,735,933	12	184,946	5	35,295	108	4,464,770
Connecticut.....	3	184,993	11	164,862	12	281,530	3	14,400	29	645,785
Delaware.....	6	69,300	10	146,800	---	---	1	3,000	17	219,100
Dist of Columbia.	1	2,975	3	21,421	1	75,000	---	---	5	99,396
Florida.....	12	182,060	64	1,865,549	12	98,656	11	309,325	99	2,455,590
Georgia.....	34	702,240	190	3,888,850	19	179,694	6	52,400	249	4,823,184
Idaho.....	10	279,007	18	841,194	1	3,500	---	---	29	1,123,701
Illinois.....	105	1,461,265	533	19,754,425	45	858,077	20	654,477	703	22,728,244
Indiana.....	30	1,048,351	184	4,143,079	6	34,796	13	122,884	233	5,349,110
Iowa.....	38	393,831	348	10,683,612	18	293,974	7	593,243	411	11,964,660
Kansas.....	42	490,494	148	4,806,958	6	40,960	1	4,750	197	5,343,162
Kentucky.....	16	187,549	175	6,804,543	6	137,161	3	33,936	200	7,163,189
Louisiana.....	21	222,442	162	4,130,935	4	31,608	12	552,110	199	4,937,095
Maine.....	6	84,784	35	1,284,970	---	---	---	---	41	1,369,754
Maryland.....	13	140,736	72	1,831,980	6	55,886	3	97,225	94	2,125,827
Massachusetts....	10	72,924	34	709,791	8	85,050	---	---	52	867,765
Michigan.....	34	293,294	122	2,225,176	7	108,472	8	178,274	171	2,805,590
Minnesota.....	24	427,759	226	9,834,043	27	267,897	4	41,876	281	10,571,575
Mississippi.....	9	200,900	116	5,569,728	8	103,232	4	34,670	137	5,908,530
Missouri.....	31	383,680	183	6,634,056	19	122,350	6	119,150	239	7,259,236
Montana.....	18	240,274	71	4,942,991	2	17,100	4	267,219	95	5,467,584
Nebraska.....	34	3,207,779	137	5,782,094	11	127,878	5	106,650	187	9,224,401
Nevada.....	8	240,930	41	3,812,721	3	16,857	---	---	52	4,070,508
New Hampshire....	---	---	13	147,213	1	7,000	1	9,798	15	164,011
New Jersey.....	9	105,004	52	437,709	14	108,500	6	112,000	81	763,213
New Mexico.....	10	201,391	34	1,755,535	7	255,645	1	4,280	52	2,216,851
New York.....	45	4,705,918	178	4,269,691	36	914,754	3	91,800	262	9,982,163
North Carolina...	19	1,435,259	96	3,047,983	12	66,900	10	269,735	137	4,819,877
North Dakota.....	12	89,005	47	2,064,225	6	31,810	1	3,300	66	2,188,340
Ohio.....	41	591,052	281	7,558,719	20	247,267	11	88,097	353	8,485,135
Oklahoma.....	33	560,654	106	3,156,589	10	108,400	6	67,735	155	3,893,378
Oregon.....	18	147,243	79	1,542,599	7	62,056	1	3,785	105	1,755,683
Pennsylvania.....	49	2,407,731	402	15,973,097	39	725,453	6	193,700	496	19,299,981
Rhode Island.....	2	32,105	3	96,235	1	12,385	---	---	6	140,725
South Carolina...	4	70,004	44	1,473,005	6	50,188	7	359,973	61	1,953,170
South Dakota.....	5	69,450	38	1,039,157	2	8,000	---	---	45	1,116,607
Tennessee.....	25	1,047,951	148	3,327,223	9	78,720	8	42,200	190	4,496,094
Texas.....	142	3,906,206	659	25,696,988	42	492,954	23	678,513	866	30,774,661
Utah.....	9	139,053	42	3,205,863	3	31,135	1	15,004	55	3,391,055
Vermont.....	---	---	11	245,063	1	6,381	---	---	12	251,444
Virginia.....	24	1,107,250	92	2,328,696	10	81,440	4	282,704	130	3,800,090
Washington.....	58	836,904	123	4,388,003	19	366,565	3	11,000	203	5,602,472
West Virginia....	20	2,839,175	178	5,027,078	3	460,484	4	33,600	205	8,360,337
Wisconsin.....	15	334,331	229	6,410,804	26	838,928	5	400,382	275	7,984,445
Wyoming.....	27	2,274,664	71	4,911,891	8	62,600	1	78,056	107	7,327,211
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	1,201	39,240,680	6,442	218,642,543	562	9,538,883	246	6,483,234	8,451	273,905,340

TABLE S3B. TRAIN ACCIDENTS BY STATE AND CAUSE

State	.....Track.....		....Equipment....		..Human Factors...		..Miscellaneous...		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	77	2,648,866	35	1,080,154	41	801,475	26	573,914	179	5,104,409
Alaska.....	6	98,727	4	34,143	---	---	3	558,867	13	691,737
Arizona.....	9	95,744	17	465,570	17	318,680	12	224,410	55	1,104,404
Arkansas.....	51	1,285,610	30	2,294,332	40	674,006	10	120,298	131	4,374,246
California.....	103	2,124,814	67	2,429,540	139	4,784,534	59	3,537,331	368	12,876,219
Colorado.....	32	1,963,368	17	408,039	34	1,471,144	25	622,219	108	4,464,770
Connecticut.....	10	178,737	4	50,951	4	184,237	11	231,860	29	645,785
Delaware.....	5	70,000	2	42,500	7	90,800	3	15,800	17	219,100
Dist of Columbia.	1	6,500	---	---	4	92,896	---	---	5	99,396
Florida.....	25	784,209	11	175,771	31	309,962	32	1,185,648	99	2,455,590
Georgia.....	93	1,927,953	45	1,572,791	83	892,081	28	430,359	249	4,823,184
Idaho.....	4	98,607	5	479,737	19	531,064	1	14,293	29	1,123,701
Illinois.....	305	10,506,973	113	4,562,213	196	3,951,578	89	3,707,480	703	22,728,244
Indiana.....	97	1,679,652	32	1,122,020	46	826,812	58	1,720,626	233	5,349,110
Iowa.....	231	6,040,568	59	2,514,140	87	1,090,685	34	2,319,267	411	11,964,660
Kansas.....	87	3,318,886	27	904,763	75	1,058,554	8	60,959	197	5,343,162
Kentucky.....	92	2,355,923	33	1,079,276	47	1,886,439	28	1,841,551	200	7,163,189
Louisiana.....	115	3,032,613	19	663,066	42	438,631	23	802,785	199	4,937,095
Maine.....	13	658,479	7	27,526	14	280,530	7	403,219	41	1,369,754
Maryland.....	31	534,575	19	458,400	23	780,441	21	352,411	94	2,125,827
Massachusetts....	15	413,549	6	67,200	19	162,363	12	224,653	52	867,765
Michigan.....	61	1,236,897	25	641,931	59	507,154	26	419,234	171	2,805,216
Minnesota.....	132	5,073,599	52	2,147,539	63	2,386,398	34	964,039	281	10,571,575
Mississippi.....	79	3,821,861	19	926,444	21	522,416	18	637,809	137	5,908,530
Missouri.....	98	3,205,259	40	2,314,457	76	1,068,136	25	671,384	239	7,259,236
Montana.....	36	2,106,717	22	1,743,724	26	328,174	11	1,288,969	95	5,467,584
Nebraska.....	78	3,090,945	24	1,272,516	64	3,538,488	21	1,322,452	187	9,224,401
Nevada.....	10	1,135,121	22	1,345,874	15	1,011,222	5	578,291	52	4,070,508
New Hampshire....	9	120,186	1	6,330	---	---	5	37,495	15	164,011
New Jersey.....	31	197,089	13	157,386	17	117,628	20	291,110	81	763,213
New Mexico.....	7	177,825	19	1,341,900	17	403,005	9	294,121	52	2,216,851
New York.....	104	1,778,121	51	1,805,040	66	3,265,850	41	3,133,152	262	9,982,163
North Carolina...	51	1,438,000	30	1,041,669	31	1,660,119	25	680,089	137	4,819,877
North Dakota.....	19	454,561	12	725,754	22	215,672	13	792,353	66	2,188,340
Ohio.....	165	4,108,468	54	1,749,582	84	1,939,643	50	687,442	353	8,485,135
Oklahoma.....	72	1,976,964	18	539,480	52	1,007,889	13	369,045	155	3,893,378
Oregon.....	30	277,029	19	347,772	39	717,834	17	413,048	105	1,755,683
Pennsylvania.....	230	10,026,061	100	4,491,801	91	2,972,753	75	1,809,366	496	19,299,981
Rhode Island.....	2	80,235	1	16,000	2	32,105	1	12,385	6	140,725
South Carolina...	27	1,004,485	5	215,689	17	190,139	12	542,857	61	1,953,170
South Dakota.....	26	762,623	6	111,170	8	168,150	5	74,664	45	1,116,607
Tennessee.....	76	1,879,068	28	536,708	56	1,745,705	30	334,613	190	4,496,094
Texas.....	361	11,325,258	146	7,270,918	277	7,783,125	82	4,395,360	866	30,774,661
Utah.....	14	1,903,671	16	258,670	18	868,430	7	360,284	55	3,391,055
Vermont.....	5	179,759	4	33,054	1	6,960	2	31,671	12	251,444
Virginia.....	40	882,805	31	905,088	37	1,234,707	22	777,490	130	3,800,090
Washington.....	63	2,256,360	28	612,203	74	1,332,403	38	1,401,506	203	5,602,472
West Virginia....	112	2,581,553	37	753,066	25	3,752,551	31	1,273,167	205	8,360,337
Wisconsin.....	131	3,325,348	57	1,655,326	53	1,655,595	34	1,348,176	275	7,984,445
Wyoming.....	21	2,609,168	26	1,339,501	44	2,061,879	16	1,316,663	107	7,327,211
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	3,492	108,839,389	1,458	56,738,724	2,323	63,121,042	1,178	45,206,185	8,451	273,905,340

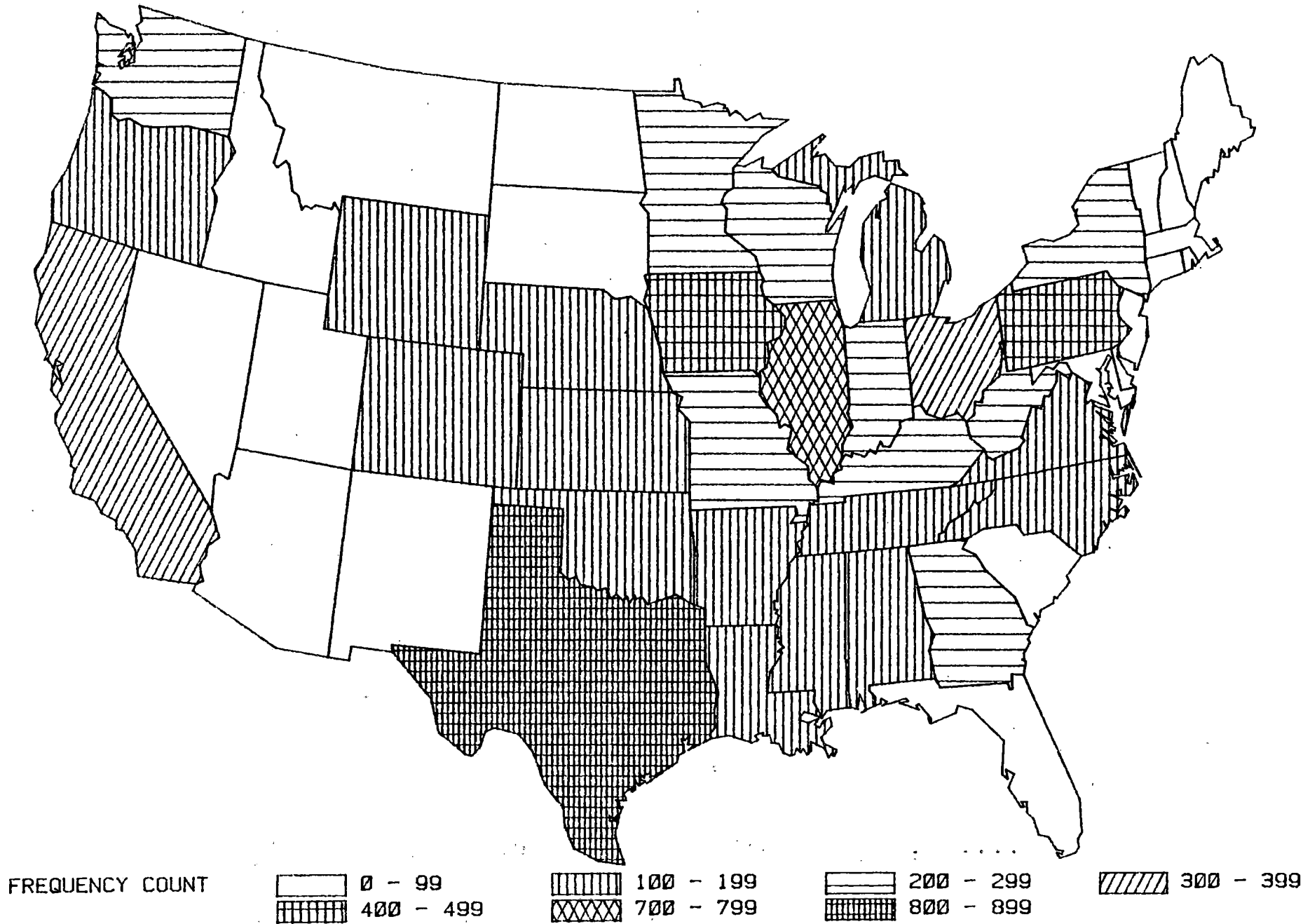


FIGURE 25. TRAIN ACCIDENTS BY STATE, 1980

TABLE S4. TRAIN ACCIDENTS BY STATE AND MONTH

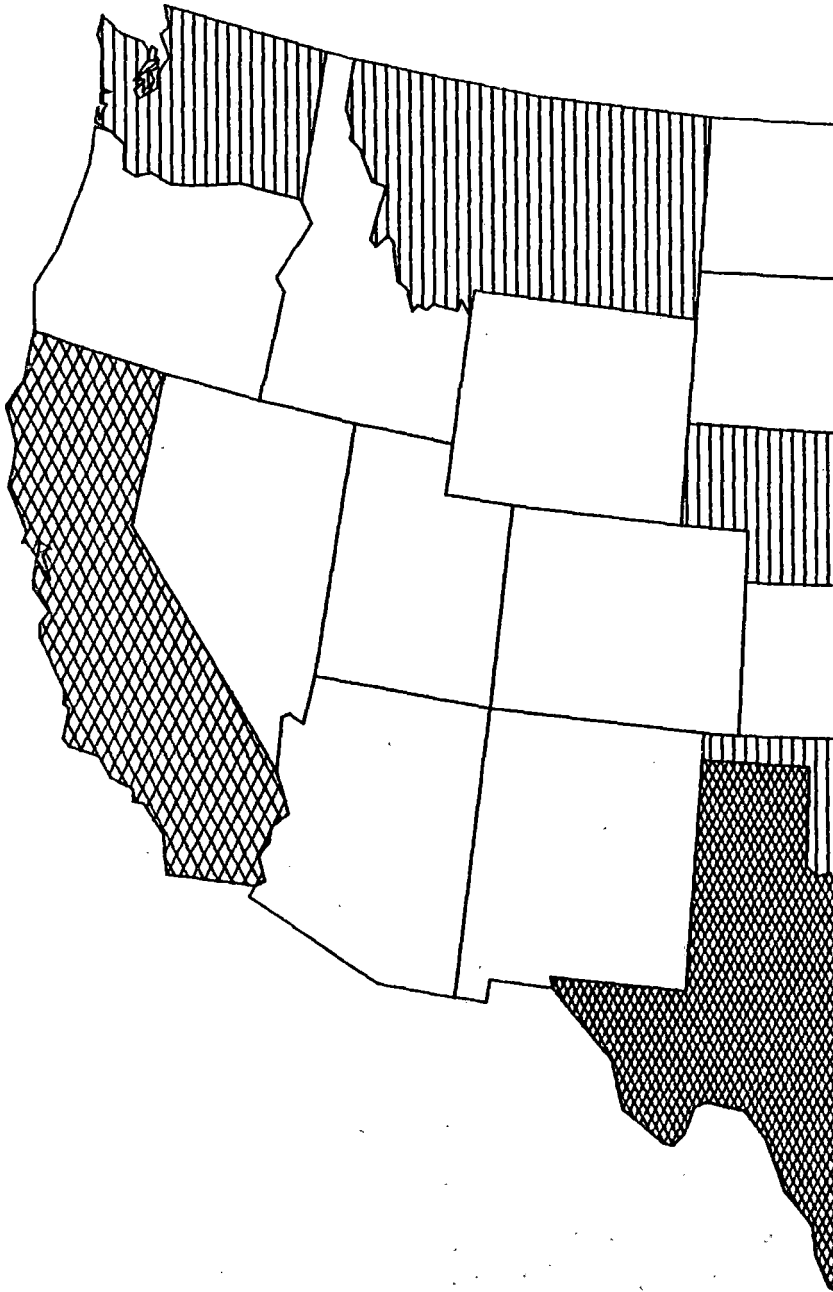
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama.....	12	24	27	14	15	21	14	14	10	11	5	12	179
Alaska.....	1	---	1	2	1	1	1	2	1	---	2	1	13
Arizona.....	8	1	1	7	7	4	3	5	2	2	5	10	55
Arkansas.....	13	18	12	13	11	7	9	15	8	9	6	10	131
California.....	28	44	33	28	38	37	26	29	20	31	30	24	368
Colorado.....	18	16	7	5	2	9	8	15	9	6	8	5	108
Connecticut.....	5	4	2	1	5	2	---	1	5	---	3	1	29
Delaware.....	3	1	2	2	3	---	---	---	3	2	---	1	17
Dist of Columbia.	---	---	1	1	---	---	1	---	1	1	---	---	5
Florida.....	6	11	8	8	8	10	10	3	9	10	8	8	99
Georgia.....	21	25	29	26	22	14	12	21	12	28	26	13	249
Idaho.....	1	3	1	3	3	3	5	---	1	3	2	4	29
Illinois.....	71	72	88	43	52	54	53	55	60	61	44	50	703
Indiana.....	32	27	26	19	14	14	19	13	13	20	17	19	233
Iowa.....	38	23	45	37	46	26	32	31	36	32	37	28	411
Kansas.....	20	24	24	11	12	13	36	15	16	9	6	11	197
Kentucky.....	24	20	25	24	12	11	17	17	12	7	11	20	200
Louisiana.....	24	19	13	22	18	26	7	10	17	12	17	14	199
Maine.....	1	1	3	8	4	6	3	3	4	2	---	6	41
Maryland.....	8	7	18	1	16	15	12	5	3	3	2	4	94
Massachusetts....	4	3	2	3	11	5	6	4	5	2	2	5	52
Michigan.....	15	14	13	12	13	16	15	6	15	21	14	17	171
Minnesota.....	18	15	25	31	23	24	17	32	32	25	14	25	281
Mississippi.....	11	15	13	15	9	7	12	13	9	7	17	9	137
Missouri.....	20	29	22	18	15	22	21	18	17	20	15	22	239
Montana.....	10	6	12	4	5	5	9	13	9	8	5	9	95
Nebraska.....	19	13	14	16	13	11	25	29	16	11	9	11	187
Nevada.....	3	6	2	1	6	3	4	3	6	7	7	4	52
New Hampshire....	---	---	1	---	1	---	1	3	3	2	1	3	15
New Jersey.....	9	6	14	8	6	5	6	1	8	11	3	4	81
New Mexico.....	7	4	---	1	5	4	5	6	3	7	6	4	52
New York.....	33	15	30	26	19	17	22	12	20	23	20	25	262
North Carolina...	15	17	17	14	7	5	11	10	8	11	10	12	137
North Dakota.....	6	6	7	8	4	4	9	3	9	2	3	5	66
Ohio.....	38	32	39	32	21	25	25	23	27	23	35	33	353
Oklahoma.....	18	17	14	8	9	11	22	10	7	14	11	14	155
Oregon.....	11	15	10	7	2	10	6	13	9	7	6	9	105
Pennsylvania.....	45	49	55	46	44	41	34	33	36	27	41	45	496
Rhode Island.....	---	---	---	---	---	1	2	---	1	---	---	2	6
South Carolina...	9	2	6	7	5	4	4	1	6	7	2	8	61
South Dakota.....	1	3	2	4	1	4	4	7	3	5	6	5	45
Tennessee.....	20	27	26	11	14	12	12	14	9	17	13	15	190
Texas.....	82	99	77	82	64	71	68	65	80	54	64	60	866
Utah.....	3	10	8	2	1	6	6	1	6	2	6	4	55
Vermont.....	---	---	1	4	2	---	2	1	1	---	1	---	12
Virginia.....	18	7	11	16	10	10	11	10	9	10	9	9	130
Washington.....	13	18	21	24	14	16	13	12	26	21	15	10	203
West Virginia....	27	19	21	17	15	18	11	11	21	12	12	21	205
Wisconsin.....	17	17	9	40	21	21	30	26	29	20	25	20	275
Wyoming.....	6	13	12	8	10	6	6	8	11	11	8	8	107
TOTAL.....	812	817	850	740	659	657	687	642	683	636	609	659	8,451

TABLE S18. 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.....	---	10	---	31	280	2	---	658	14	31	948	16
Alaska.....	---	1	---	---	19	---	1	73	---	1	93	---
Arizona.....	---	4	2	16	93	4	---	200	3	16	297	9
Arkansas.....	1	6	---	21	226	3	2	622	21	24	854	24
California.....	8	38	2	87	708	19	4	2,343	71	99	3,089	92
Colorado.....	1	9	---	14	168	5	1	639	11	16	816	16
Connecticut.....	---	14	---	11	45	1	---	301	7	11	360	8
Delaware.....	---	---	---	3	37	4	---	199	10	3	236	14
Dist of Columbia.	---	---	---	1	25	3	---	233	4	1	258	7
Florida.....	2	19	---	45	394	1	1	761	7	48	1,174	8
Georgia.....	3	19	---	30	442	3	1	1,063	17	34	1,524	20
Idaho.....	---	3	---	4	113	4	2	406	6	6	522	10
Illinois.....	6	79	---	90	801	6	9	4,106	125	105	4,986	131
Indiana.....	7	38	---	68	418	3	1	1,515	52	76	1,971	55
Iowa.....	1	12	---	20	258	2	10	1,233	52	31	1,503	54
Kansas.....	1	5	---	15	259	---	1	890	14	17	1,154	14
Kentucky.....	2	11	1	26	193	1	2	1,644	63	30	1,848	65
Louisiana.....	8	18	---	26	505	6	1	963	20	35	1,486	26
Maine.....	---	3	---	4	62	---	---	285	13	4	350	13
Maryland.....	---	8	---	11	189	2	---	1,078	36	11	1,275	38
Massachusetts....	---	13	4	6	86	6	---	475	9	6	574	19
Michigan.....	4	12	---	26	430	8	4	1,569	34	34	2,011	42
Minnesota.....	---	17	---	19	227	2	2	1,046	15	21	1,290	17
Mississippi.....	---	21	---	28	251	2	1	491	27	29	763	29
Missouri.....	2	30	---	32	338	8	2	1,323	57	36	1,691	65
Montana.....	---	36	---	20	89	1	1	515	16	21	640	17
Nebraska.....	4	11	---	23	271	3	1	1,439	34	28	1,721	37
Nevada.....	---	7	---	5	61	4	---	95	2	5	163	6
New Hampshire....	2	2	---	---	7	---	---	19	---	2	28	---
New Jersey.....	4	19	---	22	174	---	1	884	37	27	1,077	37
New Mexico.....	1	2	2	7	73	4	---	151	---	8	226	6
New York.....	1	72	3	55	499	14	4	2,952	203	60	3,523	220
North Carolina...	2	53	---	48	241	1	1	401	2	51	695	3
North Dakota.....	---	---	---	10	42	---	1	235	7	11	277	7
Ohio.....	4	23	---	76	666	6	3	2,468	72	83	3,157	78
Oklahoma.....	4	16	---	21	205	---	---	343	13	25	564	13
Oregon.....	---	10	---	13	230	5	---	733	11	13	973	16
Pennsylvania.....	3	70	1	36	490	20	5	3,262	131	44	3,822	152
Rhode Island.....	---	---	---	---	10	---	---	67	2	---	77	2
South Carolina...	1	13	---	28	158	---	1	321	5	30	492	5
South Dakota.....	---	3	---	1	24	---	---	95	2	1	122	2
Tennessee.....	3	15	---	17	228	4	1	764	22	21	1,007	26
Texas.....	7	38	2	113	1,256	36	10	3,225	105	130	4,519	143
Utah.....	---	1	---	7	114	1	---	353	8	7	468	9
Vermont.....	---	4	---	2	9	---	---	67	3	2	80	3
Virginia.....	2	13	---	27	376	4	1	1,304	13	30	1,693	17
Washington.....	5	9	1	24	219	1	---	596	34	29	824	36
West Virginia....	6	19	---	18	181	---	1	768	20	25	968	20
Wisconsin.....	---	10	---	30	257	---	1	1,309	30	31	1,576	30
Wyoming.....	2	6	---	5	148	8	1	630	12	8	784	20
TOTAL.....	97	842	18	1,242	12,595	207	78	47,112	1,472	1,417	60,549	1,697

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.....	---	14	---	14	2	15	---	17	2	29	---	31
Alaska.....	---	---	---	---	---	---	---	---	---	---	---	---
Arizona.....	---	15	---	15	---	---	1	1	---	15	1	16
Arkansas.....	---	5	---	5	5	10	---	15	5	15	---	20
California.....	3	50	3	56	---	23	6	29	3	73	9	85
Colorado.....	---	4	---	4	2	9	---	11	2	13	---	15
Connecticut.....	2	5	---	7	---	2	---	2	2	7	---	9
Delaware.....	---	1	---	1	---	2	---	2	---	3	---	3
Dist of Columbia.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida.....	2	24	---	26	2	18	---	20	4	42	---	46
Georgia.....	2	14	---	16	2	14	---	16	4	28	---	32
Idaho.....	---	2	---	2	---	1	---	1	---	3	---	3
Illinois.....	7	32	12	51	5	33	6	44	12	65	18	95
Indiana.....	1	27	3	31	2	39	---	41	3	66	3	72
Iowa.....	---	3	---	3	1	8	7	16	1	11	7	19
Kansas.....	1	2	---	3	3	6	4	13	4	8	4	16
Kentucky.....	1	11	---	12	2	11	2	15	3	22	2	27
Louisiana.....	2	8	1	11	2	19	2	23	4	27	3	34
Maine.....	---	1	---	1	1	2	---	3	1	3	---	4
Maryland.....	1	9	1	11	---	---	---	---	1	9	1	11
Massachusetts.....	---	4	---	4	---	2	---	2	---	6	---	6
Michigan.....	---	6	---	6	---	22	---	22	---	28	---	28
Minnesota.....	---	4	---	4	---	11	3	14	---	15	3	18
Mississippi.....	---	9	---	9	1	15	2	18	1	24	2	27
Missouri.....	---	6	---	6	2	23	2	27	2	29	2	33
Montana.....	---	7	1	8	2	8	---	10	2	15	1	18
Nebraska.....	---	4	1	5	---	20	---	20	---	24	1	25
Nevada.....	---	4	---	4	---	1	---	1	---	5	---	5
New Hampshire.....	---	---	---	---	---	2	---	2	---	2	---	2
New Jersey.....	---	17	1	18	---	4	---	4	---	21	1	22
New Mexico.....	---	5	---	5	---	1	2	3	---	6	2	8
New York.....	8	30	2	40	---	6	6	12	8	36	8	52
North Carolina.....	---	16	---	16	3	30	---	33	3	46	---	49
North Dakota.....	1	3	---	4	---	6	---	6	1	9	---	10
Ohio.....	1	20	---	21	8	49	---	57	9	69	---	78
Oklahoma.....	---	4	---	4	1	18	2	21	1	22	2	25
Oregon.....	---	4	---	4	---	9	---	9	---	13	---	13
Pennsylvania.....	4	25	1	30	2	5	1	8	6	30	2	38
Rhode Island.....	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina.....	2	6	---	8	1	19	---	20	3	25	---	28
South Dakota.....	---	---	---	---	---	1	---	1	---	1	---	1
Tennessee.....	---	6	---	6	1	11	---	12	1	17	---	18
Texas.....	1	19	7	27	3	74	10	87	4	93	17	114
Utah.....	---	1	---	1	1	5	---	6	1	6	---	7
Vermont.....	1	---	---	1	---	1	---	1	1	1	---	2
Virginia.....	1	11	---	12	3	6	1	10	4	17	1	22
Washington.....	---	12	2	14	---	12	1	13	---	24	3	27
West Virginia.....	1	9	---	10	---	9	---	9	1	18	---	19
Wisconsin.....	1	9	1	11	---	12	4	16	1	21	5	27
Wyoming.....	---	1	---	1	---	1	---	1	---	2	---	2
TOTAL.....	43	469	36	548	57	595	62	714	100	1,064	98	1,262



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FREQUENCY COUNT



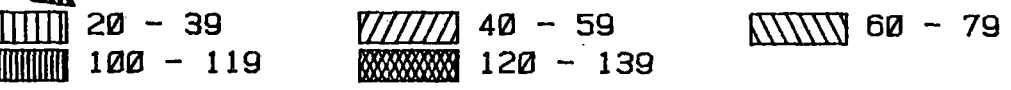
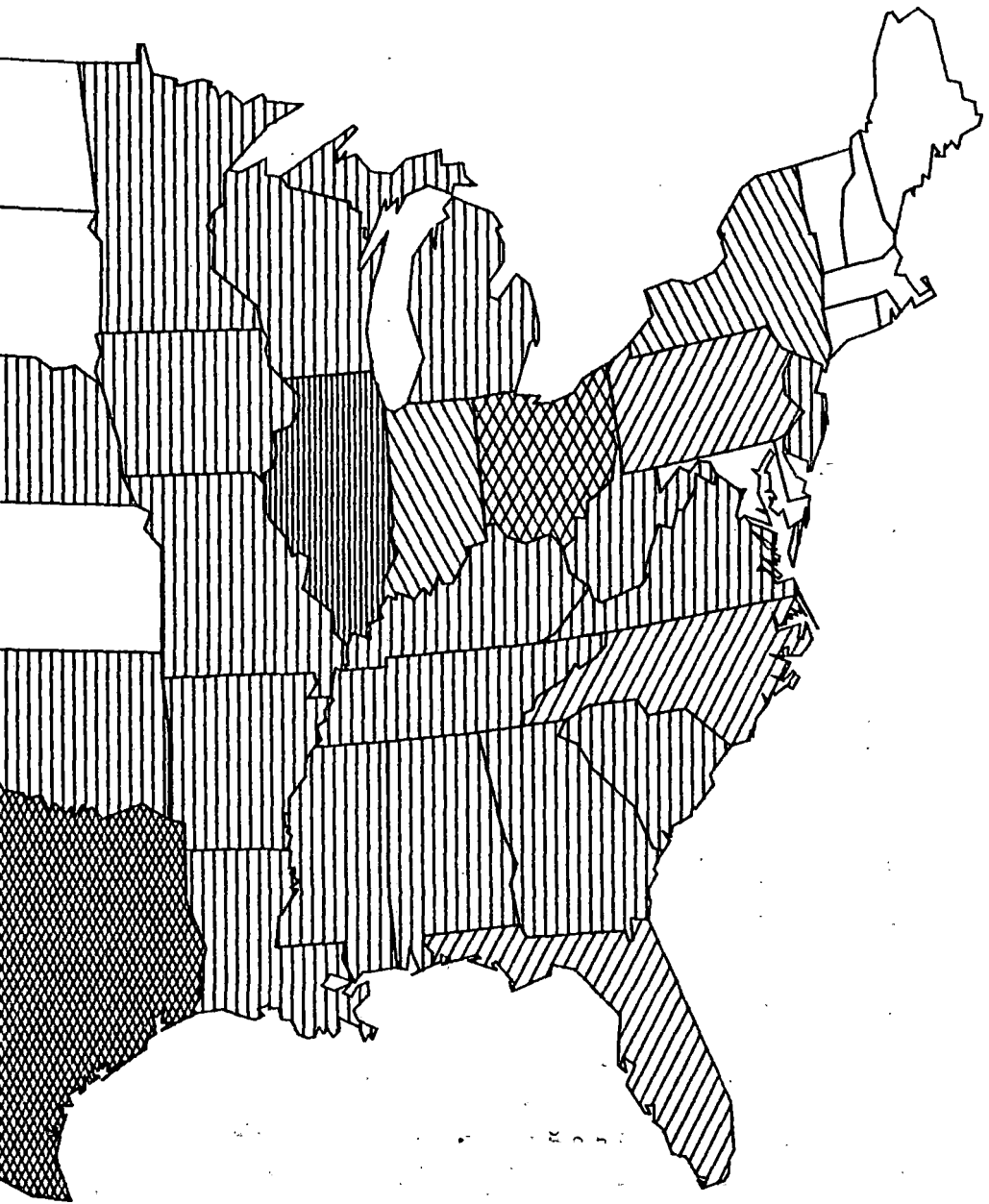
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	80 - 99



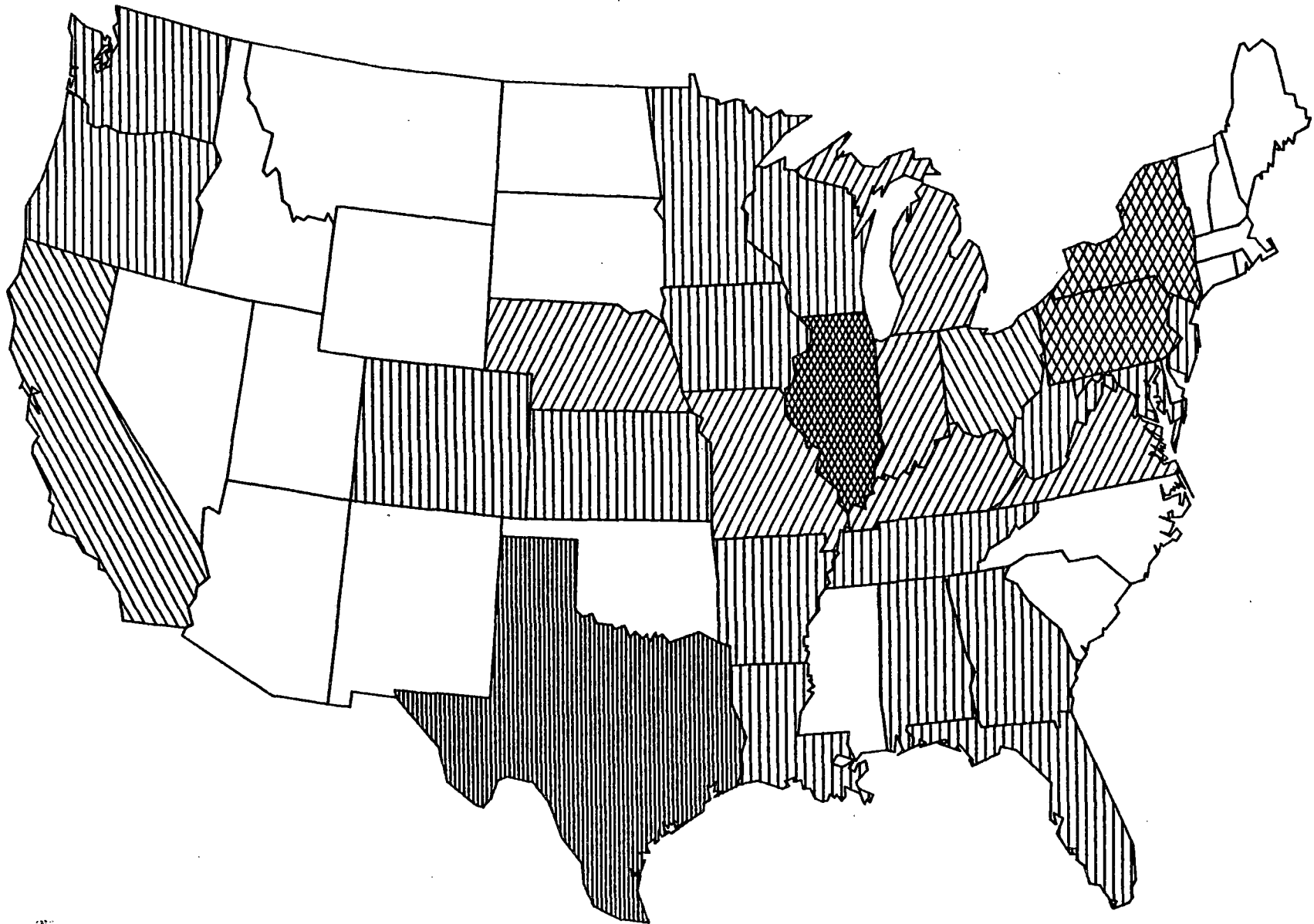

FIGURE 26.



FATALITIES BY STATE, 1980

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.....	3	10	1	14	6	97	17	120	9	107	18	134
Alaska.....	---	---	---	---	---	5	2	7	---	5	2	7
Arizona.....	1	10	---	11	---	7	5	12	1	17	5	23
Arkansas.....	1	3	---	4	10	76	21	107	11	79	21	111
California.....	7	54	9	70	7	74	28	109	14	128	37	179
Colorado.....	1	10	1	12	1	20	12	33	2	30	13	45
Connecticut.....	---	3	---	3	1	6	---	7	1	9	---	10
Delaware.....	1	---	---	1	---	3	---	3	1	3	---	4
Dist of Columbia.....	---	---	---	---	---	2	---	2	---	2	---	2
Florida.....	1	24	---	25	7	83	1	91	8	107	1	116
Georgia.....	---	18	---	18	16	107	1	124	16	125	1	142
Idaho.....	---	3	---	3	5	22	---	27	5	25	---	30
Illinois.....	5	46	29	80	8	106	59	173	13	152	88	253
Indiana.....	5	31	6	42	18	128	9	155	23	159	15	197
Iowa.....	2	3	2	7	1	21	48	70	3	24	50	77
Kansas.....	---	4	---	4	18	55	23	96	18	59	23	100
Kentucky.....	1	5	---	6	2	42	6	50	3	47	6	56
Louisiana.....	2	14	5	21	14	129	118	261	16	143	123	282
Maine.....	---	---	---	---	---	4	---	4	---	4	---	4
Maryland.....	1	10	---	11	---	18	---	18	1	28	---	29
Massachusetts.....	3	11	---	14	2	3	7	12	5	14	7	26
Michigan.....	4	12	2	18	9	102	7	118	13	114	9	136
Minnesota.....	1	7	2	10	5	45	36	86	6	52	38	96
Mississippi.....	3	7	1	11	9	48	90	147	12	55	91	158
Missouri.....	1	7	---	8	6	78	24	108	7	85	24	116
Montana.....	---	4	---	4	3	4	2	9	3	8	2	13
Nebraska.....	---	6	1	7	6	35	4	45	6	41	5	52
Nevada.....	---	2	---	2	2	8	1	11	2	10	1	13
New Hampshire.....	---	1	---	1	1	1	---	2	1	2	---	3
New Jersey.....	3	15	1	19	---	10	3	13	3	25	4	32
New Mexico.....	---	1	6	7	---	---	13	13	---	1	19	20
New York.....	2	31	1	34	---	14	1	15	2	45	2	49
North Carolina.....	---	10	---	10	4	95	---	99	4	105	---	109
North Dakota.....	1	2	---	3	---	4	2	6	1	6	2	9
Ohio.....	5	26	---	31	20	210	5	235	25	236	5	266
Oklahoma.....	1	5	1	7	12	55	28	95	13	60	29	102
Oregon.....	2	9	---	11	5	37	3	45	7	46	3	56
Pennsylvania.....	9	19	1	29	1	55	3	59	10	74	4	88
Rhode Island.....	---	1	---	1	---	---	---	---	---	1	---	1
South Carolina.....	---	8	---	8	---	49	---	49	---	57	---	57
South Dakota.....	---	---	---	---	3	1	2	6	3	1	2	6
Tennessee.....	3	9	---	12	2	58	13	73	5	67	13	85
Texas.....	8	40	8	56	32	277	135	444	40	317	143	500
Utah.....	---	2	---	2	5	19	---	24	5	21	---	26
Vermont.....	---	---	---	---	---	2	---	2	---	2	---	2
Virginia.....	1	12	---	13	5	42	---	47	6	54	---	60
Washington.....	---	6	1	7	2	25	6	33	2	31	7	40
West Virginia.....	2	3	---	5	4	45	2	51	6	48	2	56
Wisconsin.....	3	6	2	11	5	69	28	102	8	75	30	113
Wyoming.....	---	2	---	2	3	5	1	9	3	7	1	11
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL.....	83	512	80	675	260	2,401	766	3,427	343	2,913	846	4,102



FREQUENCY COUNT



0 - 799

2400 - 3199

4800 - 5599



800 - 1599

3200 - 3999



1600 - 2399

4000 - 4799

FIGURE 27. INJURIES BY STATE, 1980

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6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD

TABLE R1. 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.....	2,514,687	---	687,642	3,202,329
Amtrak.....	24,530,766	4,956,519	453,324	29,940,609
Atchison, Topeka And Santa Fe Rwy Co.....	49,940,605	---	8,779,026	58,719,631
Baltimore And Ohio Railroad Co.....	13,079,297	241,318	6,403,890	19,724,505
Bessemer And Lake Erie Railroad Co.....	689,850	---	187,788	877,638
Boston And Maine Corporation.....	1,505,272	1,640,819	1,019,260	4,165,351
Burlington Northern Incorporated.....	54,065,097	1,928,973	16,863,362	72,857,432
Central Of Georgia Railroad Company.....	2,618,377	---	1,167,939	3,786,316
Chesapeake And Ohio Railway Company.....	13,859,273	---	6,079,092	19,938,365
Chicago And Northwestern Transportation Co..	14,384,653	2,428,777	5,919,691	22,733,121
Chicago, Milw, St. Paul And Pacific RR Co..	8,663,192	---	3,042,293	11,705,485
Chicago, Rock Island And Pacific Railroad...	1,530,000	---	597,000	2,127,000
Cincinnati, New Orleans And Tx Pacific Co..	4,192,637	---	913,888	5,106,525
Clinchfield Railroad Company.....	1,142,795	---	318,982	1,461,777
Colorado And Southern Railway Co.....	2,254,945	---	138,710	2,393,655
Consolidated Rail Corporation.....	46,307,218	12,550,538	21,293,994	80,151,750
Delaware And Hudson Railway.....	2,008,961	---	357,604	2,366,565
Denver And Rio Grande Western RR Co.....	5,325,032	---	1,277,841	6,602,873
Detroit, Toledo And Ironton RR Co.....	1,026,551	---	400,948	1,427,499
Duluth, Misabe And Iron Range Rwy Co.....	526,362	---	832,560	1,358,922
Elgin, Joliet And Eastern Railway Co.....	555,019	---	1,544,321	2,099,340
Florida East Coast Railway Co.....	2,517,805	---	853,524	3,371,329
Forth Worth And Denver Railroad Co.....	2,401,058	---	514,052	2,915,110
Grand Truck Western Railroad Co.....	2,552,053	---	2,017,743	4,569,796
Illinois Central Gulf Railroad Co.....	17,211,717	1,402,607	6,404,918	25,019,242
Kansas City Southern Railway Co.....	2,396,056	---	1,309,524	3,705,580
Long Island Railroad Company.....	2,157,597	5,650,824	888,985	8,697,406
Louisiana And Arkansas Rwy Company.....	1,050,155	---	539,653	1,589,808
Louisville And Nashville Railroad Co.....	17,679,557	---	7,144,542	24,824,099
Missouri Pacific Railroad Co.....	28,691,006	---	10,534,302	39,225,308
Missouri-Kansas-Texas Railroad Co.....	3,279,068	---	1,634,357	4,913,425
Norfolk And Western Railway Co.....	16,216,263	---	7,528,320	23,744,583
Pittsburg And Lake Erie Railroad Co.....	433,106	---	809,670	1,242,776
Seaboard Coast Line Railroad Co.....	20,124,819	---	7,797,043	27,921,862
Sooline Railroad Company.....	4,230,139	---	1,755,212	5,985,351
Southern Pacific Transportation Co.....	30,354,154	---	11,757,852	42,112,006
Southern Railway Company.....	20,748,717	---	6,597,443	27,346,160
St. Louis Southwestern Railway Co.....	5,237,041	---	1,466,938	6,703,979
St. Louis-San Francisco Railway Co.....	9,699,949	---	3,445,884	13,145,833
Union Pacific Railroad Co.....	39,189,039	---	6,356,460	45,545,499
Western Maryland Railway Co.....	1,114,792	---	420,702	1,535,494
Western Pacific Railroad Co.....	3,802,752	---	751,650	4,554,402
TOTAL CLASS I RAILROADS.....	481,807,432	30,800,375	158,307,929	670,915,736
CLASS II RAILROADS				
Autotrain Corporation.....	510,176	---	79,200	589,376
Bangor And Aroostook Railroad Co.....	500,228	---	159,753	659,981
Canadian Pacific Lines In Maine.....	437,713	---	---	437,713
Central Vermont Railway Inc.....	365,593	---	44,300	409,893
Chicago And Illinois Midland Rwy Co.....	70,744	---	75,794	146,538
Chicago South Shore And South Bend RR.....	213,470	1,913,508	---	2,126,978
Detroit And Toledo Shore Line Railroad.....	138,770	---	125,019	263,789
Duluth, Winnipeg And Pacific Rwy Co.....	415,849	---	179,471	595,320
Georgia Railroad Lessee Organization.....	402,930	---	487,148	890,078
Georgia Southern And Florida Railway.....	1,386,949	---	172,836	1,559,785
Green Bay And Western Railroad.....	215,228	---	166,440	381,668
Illinois Terminal Railroad.....	236,688	---	472,901	709,589
Lake Superior And Ishpeming Railroad Co....	41,021	---	101,666	142,687
Maine Central Railroad Company.....	792,340	---	426,096	1,218,436
Michigan Interstate Railroad (Ann Arbor)....	179,219	---	141,415	320,634
Norfolk Southern Railway Company.....	657,795	---	98,540	756,335
Northwestern Pacific Railroad.....	228,528	---	54,980	283,508
Richmond, Frederickburg And Potomac RR Co..	2,010,733	---	545,722	2,556,455
Texas, Mexican Railway Company.....	145,758	---	194,132	339,890
Toledo, Peoria And Western Railroad Co.....	656,536	---	159,247	815,783
TOTAL CLASS II RAILROADS.....	9,606,268	1,913,508	3,684,660	15,204,436
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
CLASS I RAILROADS.....	481,807,432	30,800,375	158,307,929	670,915,736
CLASS II RAILROADS.....	9,606,268	1,913,508	3,684,660	15,204,436
CLASS III RAILROADS.....	11,124,308	69,727	20,347,534	31,541,569
TOTAL ALL RAILROADS.....	502,538,008	32,783,610	182,340,123	717,661,741

TABLE R3. INVOLVEMENT IN TRAIN ACCIDENTS BY RAILROAD, TYPE, AND CAUSE

	..... Collisions.....					..... Derailments.....						
	Human Factor	..... Defects.....				Damages (\$)	Human Factors	..... Defects.....				Damages (\$)
Equip		Track	Other	Total	Equip			Track	Other	Total		
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	9	2	---	6	17	2,318,600	14	14	35	2	65	3,667,035
Baltimore and Ohio Railroad.....	22	2	2	2	28	1,938,925	26	56	136	42	260	7,953,537
Bessemer and Lake Erie Railroad....	2	---	---	---	2	16,089	1	2	4	---	7	518,654
Boston and Maine Corp.....	4	---	---	---	4	33,574	4	3	22	11	40	1,328,286
Chesapeake and Ohio Railway.....	31	4	4	4	43	314,835	24	37	89	30	180	3,934,495
Consolidated Rail Corp.....	117	7	16	15	155	4,390,685	136	145	413	59	753	17,708,570
Delaware and Hudson Railway.....	2	---	---	---	2	156,000	3	2	27	4	36	1,248,569
Detroit, Toledo and Ironton Railroad.....	2	---	1	---	3	16,598	10	6	13	7	36	1,268,300
Elgin, Joliet and Eastern Railway..	8	---	---	---	8	154,168	4	5	22	18	49	338,489
Grand Trunk Western Railroad.....	10	1	---	1	12	184,782	19	6	16	7	48	374,179
Long Island Railroad.....	1	---	---	2	3	1,821,440	1	2	3	2	8	153,660
Norfolk and Western Railway.....	19	2	2	1	24	2,244,357	24	20	50	18	112	5,496,601
Pittsburg and Lake Erie Railroad...	1	---	---	1	2	127,463	4	2	36	---	42	1,075,310
Western Maryland Railway.....	2	---	---	---	2	32,000	4	10	12	7	33	1,135,500
SUBTOTAL, EASTERN DISTRICT:.....	230	18	25	32	305	13,749,516	274	310	878	207	1,669	46,201,185
SOUTHERN DISTRICT												
Alabama Great Southern Railroad....	---	---	---	---	---	---	2	3	5	1	11	839,250
Central of Georgia Railroad.....	5	---	---	---	5	38,000	9	2	22	1	34	394,250
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	---	4	5	3	5	17	467,450
Clinchfield Railroad.....	4	1	---	1	6	139,744	5	14	20	3	42	1,777,231
Florida East Coast Railway.....	---	---	---	1	1	6,660	1	---	1	1	3	409,360
Illinois Central Gulf Railroad.....	26	---	---	3	29	968,925	32	38	191	25	286	13,782,789
Louisville and Nashville Railroad..	16	---	3	5	24	680,832	61	55	148	35	299	10,102,040
Seaboard Coast Line Railroad.....	26	6	4	6	42	1,356,137	51	45	102	28	226	6,158,376
Southern Railway.....	36	3	---	---	39	598,950	49	39	84	12	184	4,057,976
SUBTOTAL, SOUTHERN DISTRICT:.....	113	10	7	16	146	3,789,248	214	201	576	111	1,102	37,988,722
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway.....	89	4	3	5	101	4,585,368	39	71	114	17	241	10,908,316
Burlington Northern Inc.....	144	2	10	13	169	4,175,453	106	104	270	61	541	24,733,798
Chicago and Northwestern Trans. Company.....	32	1	2	---	35	686,196	78	73	373	35	559	11,686,981
Chicago, Milw., St. Paul & Pacific Railroad.....	18	1	1	8	28	472,266	30	39	177	12	258	7,606,987
Chicago, Rock Island & Pacific Railroad.....	1	---	1	1	3	15,330	8	17	73	1	99	1,985,835
Colorado and Southern Railway.....	1	1	---	1	3	51,500	9	4	15	7	35	2,319,512
Denver and Rio Grande Western Railroad.....	1	---	---	---	1	25,000	1	1	7	---	9	403,483
Duluth, Missabe and Iron Range Railway.....	---	---	---	---	---	---	2	3	4	3	12	80,449
Fort Worth and Denver Railway.....	8	1	---	---	9	586,850	7	6	28	5	46	2,115,928
Kansas City Southern Railway.....	9	---	---	---	9	153,319	21	17	49	5	92	3,863,101
Louisiana and Arkansas Railway....	7	---	---	---	7	33,700	5	6	22	2	35	593,648
Missouri-Kansas-Texas Railroad....	18	2	1	1	22	239,360	14	10	56	4	84	4,022,749
Missouri Pacific Railroad.....	49	2	3	4	58	658,832	56	77	145	11	289	10,486,783
St. Louis-San Francisco Railway....	41	2	7	2	52	2,029,273	43	23	77	8	151	4,202,262
St. Louis Southwestern Railway.....	15	---	2	1	18	260,602	15	21	37	5	78	2,086,584
Soo Line Railroad.....	7	---	---	2	9	125,847	14	21	59	9	103	3,866,350
Southern Pacific Trans. Company....	79	3	6	2	90	1,347,517	163	141	286	66	656	19,606,069
Union Pacific Railroad.....	65	6	1	8	80	4,406,009	64	60	63	29	216	9,727,635
Western Pacific Railroad.....	9	1	---	---	10	219,255	10	8	11	8	37	2,083,589
SUBTOTAL, WESTERN DISTRICT:.....	593	26	37	48	704	20,071,677	685	702	1,866	288	3,541	122,380,059
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	90	3	8	8	109	1,630,239	84	109	291	44	528	12,072,577
RECAPITULATION												
ALL DISTRICTS												
Class I RAILROADS.....	888	50	65	89	1,092	37,610,441	1,094	1,146	3,103	571	6,914	206,569,966
Class II & III Railroads.....	90	3	8	8	109	1,630,239	84	109	291	44	528	12,072,577
TOTAL FOR ALL RAILROADS.....	978	53	73	97	1,201	39,240,680	1,178	1,255	3,394	615	6,442	218,642,543

TABLE R3. (CONTINUED)

	.....Other.....				.....Total.....				
	.....Defects.....								
	Human	Equip	Track	Other	Total	Damages (\$)	Accidents	Acc/Mil Train Miles	Damages (\$)
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).....	1	9	---	32	42	1,117,810	124	4.1	7,103,445
Baltimore and Ohio Railroad.....	1	1	---	8	10	162,472	298	15.1	10,054,934
Bessemer and Lake Erie Railroad....	---	---	---	---	---	---	9	10.2	534,743
Boston and Maine Corp.....	---	---	---	5	5	38,298	49	11.7	1,400,158
Chesapeake and Ohio Railway.....	---	4	---	6	10	566,190	233	11.6	4,815,520
Consolidated Rail Corp.....	11	31	10	96	148	2,262,384	1,056	13.1	24,361,639
Delaware and Hudson Railway.....	---	---	---	---	---	---	38	16.0	1,404,569
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	---	39	27.3	1,284,898
Elgin, Joliet and Eastern Railway..	---	---	---	1	1	9,646	58	27.6	502,303
Grand Trunk Western Railroad.....	1	---	---	3	4	61,012	64	14.0	619,973
Long Island Railroad.....	1	---	---	2	3	80,240	14	1.6	2,055,340
Norfolk and Western Railway.....	1	1	---	15	17	111,991	153	6.4	7,852,949
Pittsburg and Lake Erie Railroad...	1	---	---	---	1	39,000	45	36.2	1,241,773
Western Maryland Railway.....	---	---	---	1	1	81,500	36	23.4	1,249,000
SUBTOTAL, EASTERN DISTRICT:.....	17	46	10	169	242	4,530,543	2,216	11.0	64,481,244
SOUTHERN DISTRICT									
Alabama Great Southern Railroad....	---	---	---	1	1	4,000	12	3.7	843,250
Central of Georgia Railroad.....	---	2	---	1	3	27,400	42	11.0	459,650
Cinn., N.O. & Texas Pacific Railway.....	1	---	---	---	1	3,500	18	3.5	470,950
Clinchfield Railroad.....	---	---	---	1	1	51,985	49	33.5	1,968,960
Florida East Coast Railway.....	---	---	---	3	3	46,100	7	2.0	462,120
Illinois Central Gulf Railroad.....	4	4	---	22	30	887,032	345	13.7	15,638,746
Louisville and Nashville Railroad..	5	3	3	14	25	212,655	348	14.0	10,995,527
Seaboard Coast Line Railroad.....	12	2	1	32	47	637,638	315	11.2	8,152,151
Southern Railway.....	3	6	2	25	36	480,100	259	9.4	5,137,026
SUBTOTAL, SOUTHERN DISTRICT:.....	25	17	6	99	147	2,350,410	1,395	11.4	44,128,380
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway.....	5	9	1	20	35	1,008,267	377	6.4	16,501,951
Burlington Northern Inc.....	25	28	3	44	100	1,531,578	810	11.1	30,440,829
Chicago and Northwestern Trans. Company.....	17	6	1	16	40	458,569	634	27.8	12,831,746
Chicago, Milw., St. Paul & Pacific Railroad.....	11	1	1	21	34	632,628	320	27.3	8,711,881
Chicago, Rock Island & Pacific Railroad.....	---	1	---	1	2	21,500	104	48.8	2,022,665
Colorado and Southern Railway.....	---	1	---	2	3	105,000	41	17.1	2,476,012
Denver and Rio Grande Western Railroad.....	1	---	---	1	2	62,010	12	1.8	490,493
Duluth, Missabe and Iron Range Railway.....	1	---	---	1	2	13,317	14	16.3	93,766
Fort Worth and Denver Railway.....	---	---	---	2	2	32,500	57	19.5	2,735,278
Kansas City Southern Railway.....	---	2	---	---	2	12,368	103	27.7	4,028,788
Louisiana and Arkansas Railway.....	---	1	---	1	2	116,550	44	27.6	743,898
Missouri-Kansas-Texas Railroad.....	---	1	---	5	6	29,448	112	22.7	4,291,557
Missouri Pacific Railroad.....	3	2	---	9	14	161,866	361	9.2	11,307,481
St. Louis-San Francisco Railway....	13	4	---	18	35	350,323	238	18.1	6,581,858
St. Louis Southwestern Railway....	2	5	---	6	13	148,460	109	16.2	2,495,646
Soo Line Railroad.....	6	10	2	7	25	1,112,702	137	22.8	5,104,899
Southern Pacific Trans. Company....	27	18	---	45	90	1,304,198	836	19.8	22,257,784
Union Pacific Railroad.....	2	3	---	8	13	190,333	309	6.7	14,323,977
Western Pacific Railroad.....	2	2	---	4	8	67,802	55	12.0	2,370,646
SUBTOTAL, WESTERN DISTRICT:.....	115	94	8	211	428	7,359,419	4,673	13.4	149,811,155
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	11	4	1	24	40	1,781,745	677	14.4	15,484,561
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS.....	156	146	24	442	768	14,240,372	7,774	11.6	258,420,779
Class II & III Railroads.....	11	4	1	24	40	1,781,745	677	14.5	15,484,561
TOTAL FOR ALL RAILROADS.....	167	150	25	446	808	16,022,117	8,451	11.8	273,905,340

NOTE: The frequency counts for the railroads listed above represent involvement in accidents. For those accidents where two or more railroads have reporting responsibility, each railroad has been charged one count. The total number of accidents reported in 1980 is given in the final recapitulation.

TABLE R7. FATALITIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

	.....Train Accidents.....					.....Train Incidents.....					Total	
	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers		
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	---	1	---	---	1	2	---	1	1	14	18
Baltimore and Ohio Railroad	1	---	---	---	---	1	3	---	---	11	15	29
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	---	---	---
Boston and Maine Corp.	---	---	---	2	---	2	---	---	---	1	2	3
Chesapeake and Ohio Railway	1	---	---	1	---	2	2	---	---	17	9	28
Consolidated Rail Corp.	2	---	---	8	---	10	3	---	2	71	100	176
Delaware and Hudson Railway	---	---	---	---	---	---	---	---	---	6	---	6
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	---	---	---	---	1	---	1
Elgin, Joliet and Eastern Railway	1	---	---	---	---	1	---	---	---	---	1	1
Grand Trunk Western Railroad	---	---	---	---	1	1	---	---	---	7	2	9
Long Island Railroad	---	---	---	---	---	---	---	---	---	---	24	24
Norfolk and Western Railway	5	---	---	6	---	11	3	---	---	40	13	56
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	---	1	1
Western Maryland Railway	---	---	---	---	---	---	---	---	---	1	3	4
SUBTOTAL, EASTERN DISTRICT:.....	10	---	1	17	1	29	13	---	3	156	184	356
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	---	---	1	---	1	---	---	---	4	11	15
Central of Georgia Railroad	---	---	---	---	---	---	---	---	---	---	1	1
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	---	---	---	4	3	7
Clinchfield Railroad	---	---	---	---	---	---	---	---	---	---	---	---
Florida East Coast Railway	---	---	---	---	---	---	---	---	---	1	9	10
Illinois Central Gulf Railroad	---	---	---	9	---	9	1	---	---	30	12	43
Louisville and Nashville Railroad	2	---	---	3	1	6	1	---	---	9	24	34
Seaboard Coast Line Railroad	---	---	---	5	---	5	2	---	---	62	32	96
Southern Railway	---	---	---	1	---	1	3	---	---	32	27	62
SUBTOTAL, SOUTHERN DISTRICT:.....	2	---	---	19	1	22	7	---	---	142	119	268
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	1	---	---	2	---	3	2	---	---	37	35	74
Burlington Northern Inc.	4	---	---	5	---	9	2	1	---	62	46	111
Chicago and Northwestern Trans. Company	---	---	---	---	---	---	2	---	---	18	24	44
Chicago, Milw., St. Paul & Pacific Railroad	---	---	---	---	4	4	1	---	---	6	9	16
Chicago, Rock Island & Pacific Railroad	---	---	---	---	---	---	---	---	---	---	1	1
Colorado and Southern Railway	---	---	---	---	---	---	---	---	---	---	1	1
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	---	---	---	4	1	5
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	---	---	---	---	---	---
Fort Worth and Denver Railway	---	---	---	1	---	1	---	---	---	6	---	6
Kansas City Southern Railway	---	---	---	---	---	---	---	---	---	3	3	6
Louisiana and Arkansas Railway	---	---	---	---	---	---	---	---	---	2	1	3
Missouri-Kansas-Texas Railroad	1	---	---	---	---	1	---	---	---	10	---	10
Missouri Pacific Railroad	---	---	---	1	---	1	2	---	---	64	10	76
St. Louis-San Francisco Railway	---	---	---	5	---	5	---	---	---	27	6	33
St. Louis Southwestern Railway	---	---	---	1	---	1	---	---	---	10	2	12
Soo Line Railroad	---	---	---	1	---	1	3	---	---	9	2	14
Southern Pacific Trans. Company	---	---	---	3	1	4	4	---	---	35	63	102
Union Pacific Railroad	5	---	---	---	---	5	4	1	---	31	13	49
Western Pacific Railroad	2	---	---	---	---	2	---	---	---	2	7	9
SUBTOTAL, WESTERN DISTRICT:.....	13	---	---	19	5	37	20	2	---	326	224	572
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	3	---	---	6	---	9	3	---	---	29	14	46
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS.....	25	---	1	55	7	88	40	2	3	624	527	1,196
Class II & III Railroads.....	3	---	---	6	---	9	3	---	---	29	14	46
TOTAL FOR ALL RAILROADS.....	28	---	1	61	7	97	43	2	3	653	541	1,242

TABLE R7. (CONTINUED)

	Nontrain Incidents.....					Total.....						
	Empl on Duty	Empl Not on Duty	Pass- engers	Non Tres- passers	Tres- passers	Total	Empl on Duty	Empl Not on Duty	Pass- engers	Non Tres- passers	Tres- passers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	---	---	---	1	1	2	2	---	2	2	15	21
Baltimore and Ohio Railroad.....	3	---	---	1	---	4	7	---	---	12	15	34
Bessemer and Lake Erie Railroad.....	---	---	---	---	1	1	---	---	---	---	1	1
Boston and Maine Corp.....	---	---	---	---	---	---	---	---	---	3	2	5
Chesapeake and Ohio Railway.....	2	---	---	1	1	4	5	---	---	19	10	34
Consolidated Rail Corp.....	3	---	---	1	1	5	8	---	2	80	101	191
Delaware and Hudson Railway.....	---	---	---	---	---	---	---	---	---	6	---	6
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	---	---	---	1	---	---	1
Elgin, Joliet and Eastern Railway.....	---	---	---	---	---	---	1	---	---	---	1	2
Grand Trunk Western Railroad.....	---	---	---	1	---	1	---	---	---	8	3	11
Long Island Railroad.....	---	---	---	---	2	2	---	---	---	---	26	26
Norfolk and Western Railway.....	2	---	---	---	---	2	10	---	---	46	13	69
Pittsburg and Lake Erie Railroad.....	---	---	---	---	---	---	---	---	---	---	1	1
Western Maryland Railway.....	---	---	---	---	---	---	---	---	---	1	3	4
SUBTOTAL, EASTERN DISTRICT:.....	10	---	---	5	6	21	33	---	4	178	191	406
SOUTHERN DISTRICT												
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	---	---	5	11	16
Central of Georgia Railroad.....	---	---	---	---	---	---	---	---	---	---	1	1
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	---	---	---	---	4	3	7
Clinchfield Railroad.....	---	---	---	---	---	---	---	---	---	---	---	---
Florida East Coast Railway.....	---	---	---	---	---	---	---	---	---	1	9	10
Illinois Central Gulf Railroad.....	2	---	---	---	1	3	3	---	---	39	13	55
Louisville and Nashville Railroad.....	---	---	---	---	2	2	3	---	---	12	27	42
Seaboard Coast Line Railroad.....	---	---	---	---	---	---	2	---	---	67	32	101
Southern Railway.....	---	---	---	3	---	3	3	---	---	36	27	66
SUBTOTAL, SOUTHERN DISTRICT:.....	2	---	---	3	3	8	11	---	---	164	123	298
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway.....	3	---	---	---	---	3	6	---	---	39	35	80
Burlington Northern Inc.....	---	1	---	2	1	4	6	2	---	69	47	124
Chicago and Northwestern Trans. Company....	---	---	---	2	1	3	2	---	---	20	25	47
Chicago, Milw., St. Paul & Pacific Railroad.....	2	---	---	---	1	3	3	---	---	6	14	23
Chicago, Rock Island & Pacific Railroad....	---	---	---	---	---	---	---	---	---	---	1	1
Colorado and Southern Railway.....	---	---	---	---	---	---	---	---	---	---	1	1
Denver and Rio Grande Western Railroad.....	1	---	---	---	---	1	1	---	---	4	1	6
Duluth, Missabe and Iron Range Railway.....	---	---	---	---	---	---	---	---	---	---	---	---
Fort Worth and Denver Railway.....	---	---	---	---	---	---	---	---	---	7	---	7
Kansas City Southern Railway.....	---	---	---	---	---	---	---	---	---	3	3	6
Louisiana and Arkansas Railway.....	---	---	---	---	---	---	---	---	---	2	1	3
Missouri-Kansas-Texas Railroad.....	---	---	---	---	---	---	1	---	---	10	---	11
Missouri Pacific Railroad.....	1	---	---	4	---	5	3	---	---	69	10	82
St. Louis-San Francisco Railway.....	2	---	---	---	---	2	2	---	---	32	6	40
St. Louis Southwestern Railway.....	2	---	---	---	---	2	2	---	---	11	2	15
Soo Line Railroad.....	---	---	---	1	1	2	3	---	---	11	3	17
Southern Pacific Trans. Company.....	1	---	---	---	3	4	5	---	---	38	67	110
Union Pacific Railroad.....	---	1	---	1	---	2	9	2	---	32	13	56
Western Pacific Railroad.....	---	---	---	---	---	---	2	---	---	2	7	11
SUBTOTAL, WESTERN DISTRICT:.....	12	2	---	10	7	31	45	4	---	355	236	640
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	2	---	---	14	2	18	8	---	---	49	16	73
RECAPITULATION												
ALL DISTRICTS												
Class I RAILROADS.....	24	2	---	18	16	60	89	4	4	697	550	1,344
Class II & III Railroads.....	2	---	---	14	2	18	8	---	---	49	16	73
TOTAL FOR ALL RAILROADS.....	26	2	---	32	18	78	97	4	4	746	566	1,417

TABLE R8. NON-FATAL CASUALTIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

	.....Train Accidents.....					.....Train Incidents.....						
	Empl on Duty	Empl Not on Duty	Pass- engers	Non Tres- passers	Tres- passers	Total	Empl on Duty	Empl Not on Duty	Pass- engers	Non Tres- passers	Tres- passers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	81	---	72	---	---	153	274	---	70	6	8	358
Baltimore and Ohio Railroad.....	20	---	---	1	---	21	258	---	---	152	21	431
Bessemer and Lake Erie Railroad.....	1	---	---	---	---	1	8	---	---	5	1	14
Boston and Maine Corp.....	7	---	1	8	2	18	39	---	3	4	5	51
Chesapeake and Ohio Railway.....	9	---	---	---	---	9	261	---	1	90	20	372
Consolidated Rail Corp.....	102	---	39	15	1	157	1,097	2	28	162	108	1,397
Delaware and Hudson Railway.....	3	---	---	---	---	3	24	---	---	1	1	26
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	---	35	---	---	5	1	41
Elgin, Joliet and Eastern Railway.....	3	---	---	---	---	3	35	---	---	5	2	42
Grand Trunk Western Railroad.....	7	---	---	---	---	7	85	---	1	41	11	138
Long Island Railroad.....	11	---	---	---	1	12	147	2	27	---	18	194
Norfolk and Western Railway.....	20	---	---	3	---	23	361	---	---	202	16	579
Pittsburg and Lake Erie Railroad.....	4	---	---	---	---	4	20	---	---	4	1	25
Western Maryland Railway.....	3	---	---	1	---	4	15	---	---	8	1	24
SUBTOTAL, EASTERN DISTRICT:.....	271	---	112	28	4	415	2,659	4	130	685	214	3,692
SOUTHERN DISTRICT												
Alabama Great Southern Railroad.....	---	---	---	---	---	---	14	---	---	16	2	32
Central of Georgia Railroad.....	---	---	---	1	---	1	53	---	---	23	3	79
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	---	15	---	---	5	---	20
Clinchfield Railroad.....	---	---	---	---	---	---	10	---	---	---	---	10
Florida East Coast Railway.....	4	---	---	1	---	5	6	---	---	7	13	26
Illinois Central Gulf Railroad.....	18	---	---	6	---	24	334	1	1	302	14	652
Louisville and Nashville Railroad.....	20	1	---	5	---	26	230	---	---	83	36	349
Seaboard Coast Line Railroad.....	27	---	---	9	---	36	436	---	---	163	19	618
Southern Railway.....	12	---	---	14	---	26	251	---	---	228	24	503
SUBTOTAL, SOUTHERN DISTRICT:.....	81	1	---	36	---	118	1,349	1	1	827	111	2,289
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway.....	20	---	---	2	---	22	266	1	---	196	34	497
Burlington Northern Inc.....	39	---	---	4	---	43	563	2	3	106	36	710
Chicago and Northwestern Trans. Company....	17	---	---	1	---	18	238	---	2	120	23	383
Chicago, Milw., St. Paul & Pacific Railroad.....	13	---	6	1	4	24	122	---	4	33	12	171
Chicago, Rock Island & Pacific Railroad....	---	---	---	---	---	---	19	---	---	6	4	29
Colorado and Southern Railway.....	---	---	---	---	---	---	30	---	---	6	1	37
Denver and Rio Grande Western Railroad....	---	---	---	---	---	---	47	---	2	12	10	71
Duluth, Missabe and Iron Range Railway.....	---	---	---	3	---	3	12	---	---	2	2	16
Fort Worth and Denver Railway.....	3	---	---	---	---	3	25	---	---	9	2	36
Kansas City Southern Railway.....	6	---	---	---	---	6	96	---	---	39	3	138
Louisiana and Arkansas Railway.....	---	---	---	2	---	2	35	---	---	20	4	59
Missouri-Kansas-Texas Railroad.....	6	---	---	1	---	7	103	---	---	39	---	142
Missouri Pacific Railroad.....	33	---	8	4	---	45	416	1	2	442	13	874
St. Louis-San Francisco Railway.....	10	---	---	8	---	18	129	---	---	128	14	271
St. Louis Southwestern Railway.....	2	---	---	---	---	2	68	---	---	44	2	114
Soo Line Railroad.....	5	---	---	2	---	7	114	---	---	66	11	191
Southern Pacific Trans. Company.....	37	---	---	7	4	48	796	---	3	176	96	1,071
Union Pacific Railroad.....	25	---	---	3	---	28	608	6	---	132	21	767
Western Pacific Railroad.....	8	---	---	---	1	9	71	---	---	14	6	91
SUBTOTAL, WESTERN DISTRICT:.....	224	---	14	38	9	285	3,758	10	16	1,590	294	5,668
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	37	---	---	5	---	42	785	---	107	218	43	1,153
RECAPITULATION												
ALL DISTRICTS												
Class I RAILROADS.....	576	1	126	102	13	818	7,766	15	147	3,102	619	11,649
Class II & III Railroads.....	37	---	---	5	---	42	785	---	107	218	43	1,153
TOTAL FOR ALL RAILROADS.....	613	1	126	107	13	860	8,551	15	254	3,320	662	12,802

TABLE R8. (CONTINUED)

	Nontrain Incidents.....					Total.....						
	Empl on Duty	Empl Not on Duty	Pass-engers	Non Tres-passers	Tres-passers	Total	Empl on Duty	Empl Not on Duty	Pass-engers	Non Tres-passers	Tres-passers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	2,156	11	46	47	9	2,269	2,511	11	188	53	17	2,780
Baltimore and Ohio Railroad	1,450	35	5	12	---	1,502	1,728	35	5	165	21	1,954
Bessemer and Lake Erie Railroad	84	---	---	---	---	84	93	---	---	5	1	99
Boston and Maine Corp.	227	5	12	1	---	245	273	5	16	13	7	314
Chesapeake and Ohio Railway	1,601	29	3	9	4	1,646	1,871	29	4	99	24	2,027
Consolidated Rail Corp.	6,761	100	16	30	12	6,919	7,960	102	83	207	121	8,473
Delaware and Hudson Railway	127	---	---	---	---	127	154	---	---	1	1	156
Detroit, Toledo and Ironton Railroad	197	---	---	---	---	197	232	---	---	5	1	238
Elgin, Joliet and Eastern Railway	135	12	---	2	---	149	173	12	---	7	2	194
Grand Trunk Western Railroad	332	12	3	4	---	351	424	12	4	45	11	496
Long Island Railroad	1,174	12	40	42	5	1,273	1,332	14	67	42	24	1,479
Norfolk and Western Railway	2,518	44	8	31	2	2,603	2,899	44	8	236	18	3,205
Pittsburg and Lake Erie Railroad	290	---	---	2	---	292	314	---	---	6	1	321
Western Maryland Railway	90	1	---	2	---	93	108	1	---	11	1	121
SUBTOTAL, EASTERN DISTRICT:	17,142	261	133	182	32	17,750	20,072	265	375	895	250	21,857
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	40	3	---	---	---	43	54	3	---	16	2	75
Central of Georgia Railroad	100	1	---	2	---	103	153	1	---	26	3	183
Cinn., N.O. & Texas Pacific Railway	58	2	---	1	---	61	73	2	---	6	---	81
Clinchfield Railroad	45	---	---	---	---	45	55	---	---	---	---	55
Florida East Coast Railway	31	---	---	---	---	31	41	---	---	8	13	62
Illinois Central Gulf Railroad	2,352	19	20	12	1	2,404	2,704	20	21	320	15	3,080
Louisville and Nashville Railroad	1,278	11	---	3	---	1,292	1,528	12	---	91	36	1,667
Seaboard Coast Line Railroad	1,348	11	1	1	---	1,361	1,811	11	1	173	19	2,015
Southern Railway	1,229	25	---	18	---	1,272	1,492	25	---	260	24	1,801
SUBTOTAL, SOUTHERN DISTRICT:	6,481	72	21	37	1	6,612	7,911	74	22	900	112	9,019
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	1,751	37	---	12	---	1,800	2,037	38	---	210	34	2,319
Burlington Northern Inc.	3,431	74	4	26	2	3,537	4,033	76	7	136	38	4,290
Chicago and Northwestern Trans. Company	1,909	15	19	29	1	1,973	2,164	15	21	150	24	2,374
Chicago, Milw., St. Paul & Pacific Railroad	1,069	10	3	4	---	1,086	1,204	10	13	38	16	1,281
Chicago, Rock Island & Pacific Railroad	150	1	4	---	---	155	169	1	4	6	4	184
Colorado and Southern Railway	94	3	---	---	---	97	124	3	---	6	1	134
Denver and Rio Grande Western Railroad	149	1	---	---	---	150	196	1	2	12	10	221
Duluth, Missabe and Iron Range Railway	131	3	---	62	---	196	143	3	---	67	2	215
Fort Worth and Denver Railway	153	---	---	1	---	154	181	---	---	10	2	193
Kansas City Southern Railway	364	---	---	3	---	367	466	---	---	42	3	511
Louisiana and Arkansas Railway	134	---	---	1	---	135	169	---	---	23	4	196
Missouri-Kansas-Texas Railroad	304	---	---	6	---	310	413	---	---	46	---	459
Missouri Pacific Railroad	1,354	20	2	25	1	1,402	1,803	21	12	471	14	2,321
St. Louis-San Francisco Railway	726	6	---	18	---	750	865	6	---	154	14	1,039
St. Louis Southwestern Railway	486	4	---	25	2	517	556	4	---	69	4	633
Soo Line Railroad	524	6	---	6	2	538	643	6	---	74	13	736
Southern Pacific Trans. Company	3,108	25	1	14	6	3,154	3,941	25	4	197	106	4,273
Union Pacific Railroad	2,920	92	---	7	2	3,021	3,553	98	---	142	23	3,816
Western Pacific Railroad	238	2	---	---	---	240	317	2	---	14	7	340
SUBTOTAL, WESTERN DISTRICT:	18,995	299	33	239	16	19,582	22,977	309	63	1,867	319	25,535
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	4,549	23	26	38	4	4,640	5,371	23	133	261	47	5,835
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	42,618	632	187	458	49	43,944	50,960	648	460	3,662	681	56,411
Class II & III Railroads	4,549	23	26	38	4	4,640	5,371	23	133	261	47	5,835
TOTAL FOR ALL RAILROADS	47,167	655	213	496	53	48,584	56,331	671	593	3,923	728	62,246

TABLE R12. INJURIES TO EMPLOYEES ON DUTY BY TYPE OF INJURY AND RAILROAD

	.....Amputations.....					.....Fractures.....							
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Face or Head	Other	Total
CLASS I RAILROADS													
EASTERN DISTRICT													
National Railroad Passenger Corp. (Amtrak).....	---	4	---	---	1	5	26	50	26	20	3	14	139
Baltimore and Ohio Railroad.....	---	8	1	1	---	10	26	50	23	21	9	13	142
Bessemer and Lake Erie Railroad.....	---	1	---	---	---	1	---	1	3	---	---	---	4
Boston and Maine Corp.....	---	2	---	---	---	2	6	15	7	5	3	6	42
Chesapeake and Ohio Railway.....	---	14	1	---	---	15	24	49	31	27	5	15	151
Consolidated Rail Corp.....	1	15	5	2	---	23	137	274	138	103	48	91	791
Delaware and Hudson Railway.....	---	---	---	---	---	---	3	4	2	1	---	3	13
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	---	---	9	1	1	1	2	14
Elgin, Joliet and Eastern Railway.....	---	---	---	---	---	---	3	4	---	2	---	2	11
Grand Trunk Western Railroad.....	---	1	1	---	---	2	8	8	2	6	1	6	31
Long Island Railroad.....	---	1	---	---	---	1	11	23	7	5	5	5	56
Norfolk and Western Railway.....	---	11	3	2	---	16	27	79	48	35	10	27	226
Pittsburg and Lake Erie Railroad.....	---	1	---	---	---	1	2	2	5	1	1	1	12
Western Maryland Railway.....	---	---	---	---	---	---	---	3	4	3	---	3	13
SUBTOTAL, EASTERN DISTRICT:.....	1	58	11	5	1	76	273	571	297	230	86	188	1,645
SOUTHERN DISTRICT													
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	1	2	---	---	---	3
Central of Georgia Railroad.....	---	---	---	---	---	---	2	2	1	1	1	---	7
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	---	---	2	1	1	---	---	4
Clinchfield Railroad.....	---	1	---	---	---	1	---	1	1	1	---	---	3
Florida East Coast Railway.....	---	1	---	---	---	1	1	2	---	1	1	---	5
Illinois Central Gulf Railroad.....	---	7	1	1	---	9	21	78	32	21	7	34	193
Louisville and Nashville Railroad.....	1	2	3	2	---	8	25	30	31	18	5	15	124
Seaboard Coast Line Railroad.....	---	2	3	1	---	6	22	51	31	17	9	24	154
Southern Railway.....	---	3	3	1	1	8	14	23	28	8	4	15	92
SUBTOTAL, SOUTHERN DISTRICT:.....	1	16	10	5	1	33	85	190	127	68	27	88	585
WESTERN DISTRICT													
Atchison, Topeka and Santa Fe Railway.....	1	6	3	2	---	12	47	79	37	30	29	28	250
Burlington Northern Inc.....	---	18	3	1	---	22	60	142	89	53	64	36	444
Chicago and Northwestern Trans. Company....	---	3	---	1	---	4	22	48	38	18	7	13	146
Chicago, Milw., St. Paul & Pacific Railroad.....	---	8	---	---	---	8	14	40	26	10	9	22	121
Chicago, Rock Island & Pacific Railroad....	---	---	---	---	---	---	5	3	6	2	---	2	18
Colorado and Southern Railway.....	---	1	1	---	---	2	1	5	6	3	2	1	18
Denver and Rio Grande Western Railroad.....	---	---	1	---	---	1	3	9	10	3	---	4	29
Duluth, Missabe and Iron Range Railway.....	---	---	---	---	---	---	---	3	---	1	---	---	4
Fort Worth and Denver Railway.....	---	---	1	---	---	1	---	6	8	1	1	2	18
Kansas City Southern Railway.....	---	3	---	---	---	3	1	9	12	5	2	3	32
Louisiana and Arkansas Railway.....	---	1	---	---	---	1	4	4	---	2	1	2	13
Missouri-Kansas-Texas Railroad.....	---	---	---	---	---	---	2	9	11	3	2	5	32
Missouri Pacific Railroad.....	---	2	1	3	---	6	37	36	43	18	11	14	159
St. Louis-San Francisco Railway.....	---	3	---	---	---	3	9	15	21	10	12	10	77
St. Louis Southwestern Railway.....	---	1	---	---	---	1	8	15	9	5	---	5	42
Soo Line Railroad.....	---	---	---	---	---	---	11	11	11	2	1	7	43
Southern Pacific Trans. Company.....	---	5	1	---	---	6	48	75	50	26	8	34	241
Union Pacific Railroad.....	---	11	5	---	---	16	49	110	59	45	11	35	309
Western Pacific Railroad.....	---	---	1	---	---	1	2	12	4	2	---	3	23
SUBTOTAL, WESTERN DISTRICT:.....	1	62	17	7	---	87	323	631	440	239	160	226	2,019
CLASS II & III RAILROADS													
SUBTOTAL, CLASS II & III:.....	1	7	3	1	---	12	48	114	80	37	11	33	323
RECAPITULATION ALL DISTRICTS													
Class I RAILROADS.....	3	136	38	17	2	196	681	1,392	864	537	273	502	4,249
Class II & III Railroads.....	1	7	3	1	---	12	48	114	80	37	11	33	323
TOTAL FOR ALL RAILROADS.....	4	143	41	18	2	208	729	1,506	944	574	284	535	4,572

TABLE R12. (CONTINUED)

	.....Other Injuries.....							Total In- juries	Total Fatal- ities		
	Sprain or Bruise	Strain	Elec Shock Cut or Burn	Other Burn	Dislo- cation	Cinder In Eye	Other				
CLASS I RAILROADS											
EASTERN DISTRICT											
National Railroad Passenger Corp. (Amtrak)	651	893	351	23	78	15	124	98	2,233	2,377	2
Baltimore and Ohio Railroad	351	673	291	4	28	17	133	28	1,525	1,677	7
Bessemer and Lake Erie Railroad	6	54	8	---	2	1	7	4	82	87	---
Boston and Maine Corp.	24	89	63	---	4	2	26	9	217	261	---
Chesapeake and Ohio Railway	397	755	279	9	58	7	116	39	1,660	1,826	5
Consolidated Rail Corp.	1,508	3,113	1,215	33	127	28	622	214	6,860	7,674	8
Delaware and Hudson Railway	47	59	17	---	6	1	4	7	141	154	---
Detroit, Toledo and Ironton Railroad	57	92	32	---	8	2	17	9	217	231	---
Elgin, Joliet and Eastern Railway	38	54	29	---	6	2	26	4	159	170	1
Grand Trunk Western Railroad	93	182	44	1	6	---	33	25	384	417	---
Long Island Railroad	359	465	130	15	15	8	124	17	1,133	1,190	---
Norfolk and Western Railway	525	1,156	384	6	96	13	312	113	2,605	2,847	10
Pittsburg and Lake Erie Railroad	77	114	39	1	9	1	32	23	296	309	---
Western Maryland Railway	21	34	25	---	1	---	10	1	92	105	---
SUBTOTAL, EASTERN DISTRICT	4,154	7,733	2,907	92	444	97	1,586	591	17,604	19,325	33
SOUTHERN DISTRICT											
Alabama Great Southern Railroad	8	21	22	---	---	---	---	---	51	54	---
Central of Georgia Railroad	31	56	52	---	---	1	1	3	144	151	---
Cinn., N.O. & Texas Pacific Railway	16	32	19	---	---	---	---	1	68	72	---
Clinchfield Railroad	16	19	12	1	---	---	1	---	49	53	---
Florida East Coast Railway	5	16	11	---	1	---	1	1	35	41	---
Illinois Central Gulf Railroad	527	1,071	373	9	70	20	208	72	2,350	2,552	3
Louisville and Nashville Railroad	260	626	265	4	33	10	100	66	1,364	1,496	3
Seaboard Coast Line Railroad	338	725	269	4	43	12	192	47	1,630	1,790	2
Southern Railway	307	593	414	11	30	8	5	12	1,380	1,480	3
SUBTOTAL, SOUTHERN DISTRICT	1,508	3,159	1,437	29	177	51	508	202	7,071	7,689	11
WESTERN DISTRICT											
Atchison, Topeka and Santa Fe Railway	377	719	380	12	46	12	149	62	1,757	2,019	6
Burlington Northern Inc.	750	1,634	700	8	51	27	234	30	3,434	3,900	6
Chicago and Northwestern Trans. Company	342	644	354	4	76	15	213	303	1,951	2,101	2
Chicago, Milw., St. Paul & Pacific Railroad	236	522	176	1	35	6	51	28	1,055	1,184	3
Chicago, Rock Island & Pacific Railroad	38	69	18	---	5	---	13	7	150	168	---
Colorado and Southern Railway	20	46	24	---	---	---	5	1	96	116	---
Denver and Rio Grande Western Railroad	32	73	35	---	3	3	8	10	164	194	1
Duluth, Missabe and Iron Range Railway	24	63	13	---	5	---	24	8	137	141	---
Fort Worth and Denver Railway	33	81	25	---	---	3	12	6	160	179	---
Kansas City Southern Railway	108	175	54	2	19	3	50	14	425	460	---
Louisiana and Arkansas Railway	55	55	25	---	3	1	12	2	153	167	---
Missouri-Kansas-Texas Railroad	80	125	68	1	12	4	72	9	371	403	1
Missouri Pacific Railroad	336	688	249	10	39	10	181	74	1,587	1,752	3
St. Louis-San Francisco Railway	156	277	128	2	10	3	132	37	745	825	2
St. Louis Southwestern Railway	131	222	63	1	11	3	52	15	498	541	2
Soo Line Railroad	138	252	75	4	15	9	57	37	587	630	3
Southern Pacific Trans. Company	809	1,551	504	9	78	31	406	107	3,495	3,742	5
Union Pacific Railroad	726	1,399	468	13	111	31	266	162	3,176	3,501	9
Western Pacific Railroad	68	125	31	1	3	2	49	8	287	311	2
SUBTOTAL, WESTERN DISTRICT	4,459	8,720	3,390	68	522	163	1,986	920	20,228	22,334	45
CLASS II & III RAILROADS											
SUBTOTAL, CLASS II & III	1,289	1,958	814	12	157	34	524	173	4,961	5,296	8
RECAPITULATION ALL DISTRICTS											
Class I RAILROADS	10,121	19,612	7,734	189	1,143	311	4,080	1,713	44,903	49,348	89
Class II & III Railroads	1,289	1,958	814	12	157	34	524	173	4,961	5,296	8
TOTAL FOR ALL RAILROADS	11,410	21,570	8,548	201	1,300	345	4,604	1,886	49,864	54,644	97

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TABLE R5. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

Railroad	..Collisions..		..Derailments.		...Other.....	Totals.....		Miles (000)	Kld/Mil Miles	Inj/Mil Miles
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured			
CLASS I RAILROADS											
EASTERN DISTRICT											
National Railroad Passenger Corp. (Amtrak).....	1	63	---	83	---	7	1	153	29,940	0.03	5.11
Baltimore and Ohio Railroad.....	1	10	---	8	---	3	1	21	19,724	0.05	1.06
Bessemer and Lake Erie Railroad.....	---	1	---	---	---	---	---	1	877	0.00	1.13
Boston and Maine Corp.....	---	11	---	6	2	1	2	18	4,165	0.48	4.32
Chesapeake and Ohio Railway.....	1	3	---	3	1	3	2	9	19,938	0.10	0.45
Consolidated Rail Corp.....	2	92	---	26	8	39	10	157	80,151	0.12	1.95
Delaware and Hudson Railway.....	---	1	---	2	---	---	---	3	2,366	0.00	1.26
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	---	---	---	1,427	0.00	0.00
Elgin, Joliet and Eastern Railway.....	1	3	---	---	---	---	1	3	2,099	0.47	1.42
Grand Trunk Western Railroad.....	---	1	---	5	1	1	1	7	4,569	0.21	1.53
Long Island Railroad.....	---	10	---	1	---	1	---	12	8,697	0.00	1.38
Norfolk and Western Railway.....	4	9	---	3	7	11	11	23	23,744	0.46	0.96
Pittsburg and Lake Erie Railroad.....	---	---	---	2	---	2	---	4	1,242	0.00	3.21
Western Maryland Railway.....	---	1	---	1	---	2	---	4	1,535	0.00	2.60
SUBTOTAL, EASTERN DISTRICT:.....	10	205	---	140	19	70	29	415	200,481	0.14	2.07
SOUTHERN DISTRICT											
Alabama Great Southern Railroad.....	---	---	---	---	1	---	1	---	3,202	0.31	0.00
Central of Georgia Railroad.....	---	---	---	---	---	1	---	1	3,786	0.00	0.26
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	---	---	---	5,106	0.00	0.00
Clinchfield Railroad.....	---	---	---	---	---	---	---	---	1,461	0.00	0.00
Florida East Coast Railway.....	---	1	---	2	---	2	---	5	3,371	0.00	1.48
Illinois Central Gulf Railroad.....	---	3	---	15	9	6	9	24	25,019	0.36	0.95
Louisville and Nashville Railroad.....	1	7	1	12	4	7	6	26	24,824	0.24	1.04
Seaboard Coast Line Railroad.....	---	11	---	10	5	15	5	36	27,921	0.17	1.28
Southern Railway.....	---	4	---	2	1	20	1	26	27,346	0.03	0.95
SUBTOTAL, SOUTHERN DISTRICT:.....	1	26	1	41	20	51	22	118	122,039	0.18	0.96
WESTERN DISTRICT											
Atchison, Topeka and Santa Fe Railway.....	1	11	---	4	2	7	3	22	58,719	0.05	0.37
Burlington Northern Inc.....	2	14	2	20	5	9	9	43	72,857	0.12	0.59
Chicago and Northwestern Trans. Company...	---	1	---	12	---	5	---	18	22,733	0.00	0.79
Chicago, Milw., St. Paul & Pacific Railroad.....	---	3	---	5	4	16	4	24	11,705	0.34	2.05
Chicago, Rock Island & Pacific Railroad...	---	---	---	---	---	---	---	---	2,127	0.00	0.00
Colorado and Southern Railway.....	---	---	---	---	---	---	---	---	2,393	0.00	0.00
Denver and Rio Grande Western Railroad....	---	---	---	---	---	---	---	---	6,602	0.00	0.00
Duluth, Missabe and Iron Range Railway....	---	---	---	---	---	3	---	3	858	0.00	3.49
Fort Worth and Denver Railway.....	---	---	---	2	1	1	1	3	2,915	0.34	1.02
Kansas City Southern Railway.....	---	6	---	---	---	---	---	6	3,705	0.00	1.61
Louisiana and Arkansas Railway.....	---	---	---	---	---	2	---	2	1,589	0.00	1.25
Missouri-Kansas-Texas Railroad.....	---	2	1	4	---	1	1	7	4,913	0.20	1.42
Missouri Pacific Railroad.....	---	13	---	19	1	13	1	45	39,225	0.02	1.14
St. Louis-San Francisco Railway.....	---	5	---	3	5	10	5	18	13,145	0.38	1.36
St. Louis Southwestern Railway.....	---	1	---	1	1	---	1	2	6,703	0.14	0.29
Soo Line Railroad.....	---	---	---	4	1	3	1	7	5,985	0.16	1.17
Southern Pacific Trans. Company.....	---	18	---	8	4	22	4	48	42,112	0.09	1.14
Union Pacific Railroad.....	5	17	---	6	---	5	5	28	45,545	0.11	0.61
Western Pacific Railroad.....	---	3	2	4	---	2	2	9	4,554	0.43	1.97
SUBTOTAL, WESTERN DISTRICT:.....	8	94	5	92	24	99	37	285	348,394	0.10	0.81
CLASS II & III RAILROADS											
SUBTOTAL, CLASS II & III:.....	1	16	2	13	6	13	9	42	46,746	0.19	0.89
RECAPITULATION											
ALL DISTRICTS											
Class I RAILROADS.....	19	325	6	273	63	220	88	818	670,915	0.13	1.21
Class II & III Railroads.....	1	16	2	13	6	13	9	42	46,746	0.19	0.89
TOTAL FOR ALL RAILROADS.....	20	341	8	286	69	233	97	860	717,661	0.13	1.19

NOTE: Injured includes non-fatal illnesses

TABLE R13. CASUALTIES IN TRAIN INCIDENTS BY OCCURRENCE AND RAILROAD

	Coupling		Operating Locos/Mtr Crs		Operating Hand Brakes		Operating Switches		Contact With Fixed Structure	
	Kill	Inj	Kill	Inj	Kill	Inj	Kill	Inj	Kill	Inj
CLASS I RAILROADS										
EASTERN DISTRICT										
National Railroad Passenger Corp. (Amtrak).....	---	---	---	1	---	---	---	---	---	---
Baltimore and Ohio Railroad.....	---	15	---	22	---	10	---	---	---	2
Bessemer and Lake Erie Railroad.....	---	1	---	---	---	---	---	---	---	1
Boston and Maine Corp.....	---	1	---	5	---	2	---	---	---	1
Chesapeake and Ohio Railway.....	---	20	---	12	---	17	---	---	---	7
Consolidated Rail Corp.....	---	58	---	128	---	16	---	10	---	13
Delaware and Hudson Railway.....	---	1	---	5	---	4	---	---	---	2
Detroit, Toledo and Ironton Railroad...	---	3	---	6	---	1	---	1	---	---
Elgin, Joliet and Eastern Railway.....	---	---	---	4	---	1	---	---	---	---
Grand Trunk Western Railroad.....	---	8	---	4	---	3	---	---	---	1
Long Island Railroad.....	---	3	---	2	---	2	---	---	---	1
Norfolk and Western Railway.....	---	31	---	35	---	13	---	---	1	4
Pittsburg and Lake Erie Railroad.....	---	1	---	6	---	---	---	---	---	---
Western Maryland Railway.....	---	---	---	2	---	---	---	---	---	1
SUBTOTAL, EASTERN DISTRICT:..	---	142	---	232	---	69	---	11	1	33
SOUTHERN DISTRICT										
Alabama Great Southern Railroad.....	---	---	---	---	---	---	---	---	---	---
Central of Georgia Railroad.....	---	1	---	---	---	---	---	---	---	---
Cinn., N.O. & Texas Pacific Railway....	---	---	---	---	---	1	---	---	---	---
Clinchfield Railroad.....	---	2	---	2	---	---	---	1	---	---
Florida East Coast Railway.....	---	---	---	1	---	---	---	---	---	---
Illinois Central Gulf Railroad.....	1	24	---	35	---	8	---	7	---	7
Louisville and Nashville Railroad.....	---	11	---	25	---	4	---	---	---	5
Seaboard Coast Line Railroad.....	1	30	---	55	---	12	---	1	---	9
Southern Railway.....	1	4	---	---	---	2	---	---	---	---
SUBTOTAL, SOUTHERN DISTRICT:..	3	72	---	118	---	27	---	9	---	21
WESTERN DISTRICT										
Atchison, Topeka and Santa Fe Railway..	1	18	---	40	---	10	---	1	1	8
Burlington Northern Inc.....	---	24	1	71	---	24	---	1	---	9
Chicago and Northwestern Trans. Company.....	1	19	---	3	---	10	---	8	---	5
Chicago, Milw., St. Paul & Pacific Railroad.....	1	13	---	9	---	3	---	---	---	2
Chicago, Rock Island & Pacific Railroad.....	---	2	---	3	---	---	---	---	---	---
Colorado and Southern Railway.....	---	1	---	5	---	3	---	---	---	1
Denver and Rio Grande Western Railroad.	---	3	---	7	---	1	---	---	---	---
Duluth, Missabe and Iron Range Railway.	---	---	---	2	---	1	---	---	---	---
Fort Worth and Denver Railway.....	---	1	---	6	---	---	---	---	---	---
Kansas City Southern Railway.....	---	8	---	8	---	5	---	1	---	1
Louisiana and Arkansas Railway.....	---	1	---	1	---	---	---	---	---	---
Missouri-Kansas-Texas Railroad.....	---	1	---	35	---	2	---	---	---	2
Missouri Pacific Railroad.....	1	27	---	60	---	13	---	4	---	15
St. Louis-San Francisco Railway.....	---	14	---	17	---	6	---	2	---	2
St. Louis Southwestern Railway.....	---	2	---	9	---	---	---	---	---	---
Soo Line Railroad.....	1	14	1	13	---	4	---	---	---	2
Southern Pacific Trans. Company.....	---	40	---	58	---	23	---	2	---	12
Union Pacific Railroad.....	---	41	---	35	1	30	---	7	---	15
Western Pacific Railroad.....	---	5	---	6	---	1	---	---	---	---
SUBTOTAL, WESTERN DISTRICT:..	5	234	2	388	1	136	---	26	1	74
CLASS II & III RAILROADS										
SUBTOTAL, CLASS II & III:....	---	90	---	98	1	23	---	9	1	29
RECAPITULATION										
ALL DISTRICTS										
Class I RAILROADS.....	8	448	2	738	1	232	---	46	2	128
Class II & III Railroads.....	---	90	---	98	1	23	---	9	1	29
TOTAL FOR ALL RAILROADS.....	8	538	2	836	2	255	---	55	3	157

TABLE R13. (CONTINUED)

	Get		Acc At		Struck Or		...Other...		.....TOTAL.....			
	...On Kill	Off... Inj	Pub Kill	Kings Inj	Run Kill	Over Inj	Kill	Inj	Kill	Acc/Mil Man Hrs	Inj	Cas/Mil Man Hrs
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	1	14	1	---	15	7	1	336	18	.47	358	9.33
Baltimore and Ohio Railroad.....	---	65	11	135	18	42	---	140	29	.95	431	14.07
Bessemer and Lake Erie Railroad.....	---	2	---	5	---	---	---	5	---	---	14	5.93
Boston and Maine Corp.....	---	8	1	5	2	1	---	28	3	.47	51	7.95
Chesapeake and Ohio Railway.....	---	75	16	82	11	33	1	126	28	.77	372	10.17
Consolidated Rail Corp.....	2	187	94	193	76	80	4	712	176	1.16	1,397	9.19
Delaware and Hudson Railway.....	---	3	6	2	---	1	---	8	6	1.70	26	7.35
Detroit, Toledo and Ironton Railroad...	---	9	1	6	---	2	---	13	1	.39	41	16.12
Elgin, Joliet and Eastern Railway.....	---	7	1	7	---	---	---	23	1	.22	42	9.36
Grand Trunk Western Railroad.....	1	21	7	47	1	8	---	46	9	1.13	138	17.38
Long Island Railroad.....	---	13	9	7	15	8	---	158	24	1.93	194	15.62
Norfolk and Western Railway.....	1	78	38	194	15	28	1	196	56	1.33	579	13.70
Pittsburg and Lake Erie Railroad.....	---	5	---	3	1	1	---	9	1	.25	25	6.25
Western Maryland Railway.....	---	3	1	8	3	2	---	8	4	1.79	24	10.74
SUBTOTAL, EASTERN DISTRICT:..	5	490	186	694	157	213	7	1,808	356	1.03	3,692	10.68
SOUTHERN DISTRICT												
Alabama Great Southern Railroad.....	---	3	4	16	11	3	---	10	15	A	32	A
Central of Georgia Railroad.....	---	19	---	23	1	3	---	33	1	A	79	A
Cinn., N.O. & Texas Pacific Railway....	---	---	2	4	5	1	---	14	7	A	20	A
Clinchfield Railroad.....	---	1	---	---	---	---	---	4	---	---	10	5.34
Florida East Coast Railway.....	---	2	6	16	4	4	---	3	10	4.01	26	10.44
Illinois Central Gulf Railroad.....	---	73	32	288	9	32	1	178	43	1.18	652	17.90
Louisville and Nashville Railroad.....	---	65	12	97	20	21	2	121	34	1.10	349	11.28
Seaboard Coast Line Railroad.....	---	136	62	160	30	23	3	192	96	2.43	618	15.65
Southern Railway.....	---	77	29	209	30	43	2	168	62	1.55	503	12.57
SUBTOTAL, SOUTHERN DISTRICT:..	---	376	147	813	110	130	8	723	268	1.77	2,289	15.13
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway..	---	107	35	192	36	36	1	85	.74	1.16	497	7.78
Burlington Northern Inc.....	1	180	67	102	33	37	9	262	111	1.16	710	7.44
Chicago and Northwestern Trans. Company.....	---	45	28	139	15	10	---	144	44	1.37	383	11.93
Chicago, Milw., St. Paul & Pacific Railroad.....	---	42	11	40	4	6	---	56	16	.95	171	10.13
Chicago, Rock Island & Pacific Railroad.....	---	5	---	9	---	---	1	10	1	.27	29	7.74
Colorado and Southern Railway.....	---	8	---	6	---	1	1	12	1	.56	37	20.71
Denver and Rio Grande Western Railroad.	---	10	4	18	---	4	1	28	5	.64	71	9.15
Duluth, Missabe and Iron Range Railway.	---	2	---	---	---	1	---	10	---	---	16	5.53
Fort Worth and Denver Railway.....	---	9	6	8	---	3	---	9	6	1.91	36	11.44
Kansas City Southern Railway.....	---	26	3	36	3	6	---	47	6	.91	138	20.96
Louisiana and Arkansas Railway.....	---	10	2	18	1	6	---	23	3	B	59	B
Missouri-Kansas-Texas Railroad.....	---	13	10	41	---	2	---	46	10	1.63	142	23.15
Missouri Pacific Railroad.....	1	107	60	417	14	43	---	188	76	1.77	874	20.33
St. Louis-San Francisco Railway.....	---	19	26	122	7	19	---	70	33	2.44	271	20.05
St. Louis Southwestern Railway.....	---	23	10	46	2	2	---	32	12	1.33	114	12.59
Soo Line Railroad.....	---	25	8	65	2	10	2	58	14	1.58	191	21.59
Southern Pacific Trans. Company.....	11	222	37	206	49	70	5	438	102	1.54	1,071	16.14
Union Pacific Railroad.....	1	206	31	123	13	32	3	278	49	.95	767	14.82
Western Pacific Railroad.....	---	15	3	18	6	6	---	40	9	1.87	91	18.87
SUBTOTAL, WESTERN DISTRICT:..	14	1,074	341	1,606	185	294	23	1,836	572	1.31	5,668	12.95
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:....	---	210	30	242	11	30	3	422	46	.61	1,153	15.17
RECAPITULATION												
ALL DISTRICTS												
Class I RAILROADS.....	19	1,940	674	3,113	452	637	38	4,367	1,196	1.28	11,649	12.46
Class II & III Railroads.....	---	210	30	242	11	30	3	422	46	.61	1,153	15.17
TOTAL FOR ALL RAILROADS.....	19	2,150	704	3,355	463	667	41	4,789	1,242	1.23	12,802	12.67

NOTE: 'A' Included with Southern Railway
'B' Included with Kansas City Southern Railway
Injured columns include non-fatal illnesses

TABLE R6. CASUALTIES IN NON-TRAIN INCIDENTS BY RAILROAD

	...Coupling...		Operating		Operating		Operating		Contact with		Getting on or	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	---	11	---	5	---	1	---	1	---	---	---	66
Baltimore and Ohio Railroad.....	---	60	---	30	---	32	---	56	---	---	---	74
Bessemer and Lake Erie Railroad....	---	---	---	---	---	1	---	1	---	---	---	4
Boston and Maine Corp.....	---	4	---	1	---	2	---	8	---	1	---	18
Chesapeake and Ohio Railway.....	---	56	---	14	---	34	---	51	---	---	---	83
Consolidated Rail Corp.....	---	146	---	127	---	53	---	182	---	---	---	205
Delaware and Hudson Railway.....	---	3	---	1	---	2	---	3	---	---	---	11
Detroit, Toledo and Ironton Railroad.....	---	10	---	6	---	3	---	15	---	---	---	12
Elgin, Joliet and Eastern Railway....	---	3	---	---	---	2	---	7	---	---	---	7
Grand Trunk Western Railroad.....	---	24	---	2	---	6	---	27	---	---	---	20
Long Island Railroad.....	---	7	---	5	---	5	---	21	---	---	---	105
Norfolk and Western Railway.....	---	89	---	33	---	48	---	81	---	---	---	85
Pittsburg and Lake Erie Railroad..	---	2	---	2	---	1	---	2	---	---	---	5
Western Maryland Railway.....	---	2	---	2	---	3	---	4	---	---	---	6
SUBTOTAL, EASTERN DISTRICT:.....	---	417	---	228	---	193	---	459	---	1	---	701
SOUTHERN DISTRICT												
Alabama Great Southern Railroad...	---	---	---	---	---	2	---	3	---	---	---	3
Central of Georgia Railroad.....	---	3	---	---	---	4	---	17	---	1	---	10
Cinn., N.O. & Texas Pacific Railway.....	---	3	---	---	---	4	---	3	---	---	---	1
Clinchfield Railroad.....	---	1	---	2	---	1	---	4	---	---	---	5
Florida East Coast Railway.....	---	1	---	---	---	---	---	3	---	---	---	1
Illinois Central Gulf Railroad.....	---	69	---	10	---	25	---	120	---	2	---	115
Louisville and Nashville Railroad..	---	77	---	14	---	18	---	64	---	2	---	59
Seaboard Coast Line Railroad.....	---	72	---	12	---	20	---	76	---	1	---	58
Southern Railway.....	---	43	---	1	---	25	---	81	---	---	---	45
SUBTOTAL, SOUTHERN DISTRICT:.....	---	269	---	39	---	99	---	371	---	6	---	297
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway.....	---	79	---	44	---	33	---	71	---	1	---	98
Burlington Northern Inc.....	---	101	---	45	---	62	---	147	---	---	---	184
Chicago and Northwestern Trans. Company.....	---	55	---	3	---	26	---	60	---	1	---	66
Chicago, Milw., St. Paul & Pacific Railroad.....	---	48	---	17	---	9	---	38	---	---	---	35
Chicago, Rock Island & Pacific Railroad.....	---	4	---	---	---	1	---	9	---	---	---	11
Colorado and Southern Railway.....	---	3	---	1	---	4	---	10	---	---	---	5
Denver and Rio Grande Western Railroad.....	---	11	---	2	---	5	---	8	---	---	---	10
Duluth, Missabe and Iron Range Railway.....	---	2	---	---	---	1	---	3	---	---	---	12
Fort Worth and Denver Railway.....	---	5	---	6	---	4	---	5	---	---	---	2
Kansas City Southern Railway.....	---	11	---	2	---	8	---	24	---	1	---	18
Louisiana and Arkansas Railway....	---	3	---	---	---	1	---	7	---	---	---	5
Missouri-Kansas-Texas Railroad....	---	11	---	4	---	11	---	22	---	---	---	14
Missouri Pacific Railroad.....	---	73	---	29	---	37	---	95	---	5	---	77
St. Louis-San Francisco Railway....	---	20	---	15	---	8	---	21	---	2	---	21
St. Louis Southwestern Railway....	---	23	---	5	---	7	---	21	---	---	---	28
Soo Line Railroad.....	---	21	---	11	---	16	---	19	---	---	---	24
Southern Pacific Trans. Company...	---	116	---	44	---	87	---	131	---	1	1	196
Union Pacific Railroad.....	---	95	---	12	---	47	---	125	---	2	---	133
Western Pacific Railroad.....	---	13	---	5	---	4	---	6	---	---	---	14
SUBTOTAL, WESTERN DISTRICT:.....	---	694	---	245	---	371	---	822	---	13	1	953
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	---	229	---	90	---	74	---	228	---	4	---	267
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS.....	---	1,380	---	512	---	663	---	1,652	---	20	1	1,951
Class II & III Railroads.....	---	229	---	90	---	74	---	228	---	4	---	267
TOTAL FOR ALL RAILROADS.....	---	1,609	---	602	---	737	---	1,880	---	24	1	2,218

TABLE R6. (CONTINUED)

	Acc At		Struck or		....Other.....		Totals					
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Per Mil Man Hours	Injured	Per Mil Man Hours	Illness	Per Mil Man Hours
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak).....	---	---	---	1	2	2,068	2	0.05	2,153	56.13	116	3.02
Baltimore and Ohio Railroad.....	---	6	---	1	4	1,196	4	0.13	1,455	47.49	47	1.53
Bessemer and Lake Erie Railroad...	---	---	---	---	1	72	1	0.42	78	33.06	6	2.54
Boston and Maine Corp.....	---	---	---	---	---	207	---	---	241	37.57	4	0.62
Chesapeake and Ohio Railway.....	---	3	---	---	4	1,366	4	0.11	1,607	43.93	39	1.07
Consolidated Rail Corp.....	1	4	---	1	4	5,957	5	0.03	6,675	43.90	244	1.60
Delaware and Hudson Railway.....	---	---	---	---	---	107	---	---	127	35.92	---	---
Detroit, Toledo and Ironton Railroad.....	---	---	---	---	---	150	---	---	196	77.07	1	0.39
Elgin, Joliet and Eastern Railway.	---	2	---	---	---	126	---	---	147	32.78	2	0.45
Grand Trunk Western Railroad.....	1	1	---	---	---	264	1	0.13	344	43.33	7	0.88
Long Island Railroad.....	---	---	---	---	2	990	2	0.16	1,133	91.25	140	11.27
Norfolk and Western Railway.....	---	7	---	---	2	2,210	2	0.05	2,553	60.41	50	1.18
Pittsburg and Lake Erie Railroad..	---	2	---	---	---	277	---	---	291	72.71	1	0.25
Western Maryland Railway.....	---	---	---	---	---	73	---	---	90	40.29	3	1.34
SUBTOTAL, EASTERN DISTRICT:.....	2	25	---	3	19	15,063	21	0.06	17,090	49.42	660	1.91
SOUTHERN DISTRICT												
Alabama Great Southern Railroad...	---	---	---	---	---	35	---	A	43	A	---	A
Central of Georgia Railroad.....	---	1	---	---	---	65	---	A	101	A	2	A
Cinn., N.O. & Texas Pacific Railway.....	---	---	---	---	---	49	---	A	60	A	1	A
Clinchfield Railroad.....	---	---	---	---	---	30	---	---	43	22.97	2	1.07
Florida East Coast Railway.....	---	---	---	---	---	26	---	---	31	12.44	---	---
Illinois Central Gulf Railroad....	---	12	---	2	3	1,902	3	0.08	2,257	61.96	147	4.04
Louisville and Nashville Railroad.	---	2	---	1	2	1,027	2	0.06	1,264	40.86	28	0.91
Seaboard Coast Line Railroad.....	---	1	---	1	---	1,102	---	---	1,343	34.01	18	0.46
Southern Railway.....	---	4	---	---	3	1,062	3	0.07	1,261	31.50	11	0.27
SUBTOTAL, SOUTHERN DISTRICT:.....	---	20	---	4	8	5,298	8	0.05	6,403	42.33	209	1.38
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway.....	---	7	---	2	3	1,447	3	0.05	1,782	27.88	18	0.28
Burlington Northern Inc.....	---	3	---	---	4	2,871	4	0.04	3,413	35.75	124	1.30
Chicago and Northwestern Trans. Company.....	1	14	1	1	1	1,687	3	0.09	1,913	59.57	60	1.87
Chicago, Milw., St. Paul & Pacific Railroad.....	---	2	1	1	2	916	3	0.18	1,066	63.16	20	1.18
Chicago, Rock Island & Pacific Railroad.....	---	---	---	---	---	129	---	---	154	41.09	1	0.27
Colorado and Southern Railway.....	---	---	---	---	---	69	---	---	92	51.48	5	2.80
Denver and Rio Grande Western Railroad.....	---	---	---	---	1	113	1	0.13	149	19.20	1	0.13
Duluth, Missabe and Iron Range Railway.....	---	---	---	---	---	176	---	---	194	67.08	2	0.69
Fort Worth and Denver Railway....	---	1	---	---	---	129	---	---	152	48.28	2	0.64
Kansas City Southern Railway.....	---	3	---	---	---	295	---	---	362	54.97	5	0.76
Louisiana and Arkansas Railway....	---	1	---	---	---	117	---	B	134	B	1	B
Missouri-Kansas-Texas Railroad....	---	1	---	---	---	237	---	---	300	48.91	10	1.63
Missouri Pacific Railroad.....	4	21	---	2	1	1,028	5	0.12	1,367	31.80	35	0.81
St. Louis-San Francisco Railway...	---	10	---	---	2	615	2	0.15	712	52.68	38	2.81
St. Louis Southwestern Railway....	---	2	---	---	2	418	2	0.22	504	55.66	13	1.44
Soo Line Railroad.....	---	3	---	---	2	433	2	0.23	527	59.56	11	1.24
Southern Pacific Trans. Company...	---	5	1	3	2	2,431	4	0.06	3,014	45.41	140	2.11
Union Pacific Railroad.....	---	---	---	1	2	2,564	2	0.04	2,979	57.58	42	0.81
Western Pacific Railroad.....	---	---	---	---	---	194	---	---	236	48.93	4	0.83
SUBTOTAL, WESTERN DISTRICT:.....	5	73	3	10	22	15,869	31	0.07	19,050	43.52	532	1.22
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:.....	12	7	---	2	6	3,668	18	0.24	4,569	60.13	71	0.93
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS.....	7	118	3	17	49	36,230	60	0.06	42,543	45.51	1,401	1.50
Class II & III Railroads.....	12	7	---	2	6	3,668	18	0.24	4,569	60.13	71	0.93
TOTAL FOR ALL RAILROADS.....	19	125	3	19	55	39,898	78	0.08	47,112	46.61	1,472	1.46

NOTE: 'A' Included in Southern Railway System
'B' Included in Kansas City Southern Railway

Injured columns do not include non-fatal illnesses

TABLE R9. FATALITIES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff II. Prof, Clerical, General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).....	---	13,253	0.00	2	6,890	0.29	---	9,624	0.00
Baltimore and Ohio Railroad.....	1	4,944	0.20	1	6,415	0.16	1	6,300	0.16
Bessemer and Lake Erie Railroad.....	---	986	0.00	---	333	0.00	---	617	0.00
Boston and Maine Corp.....	---	1,561	0.00	---	1,363	0.00	---	1,436	0.00
Chesapeake and Ohio Railway.....	---	9,825	0.00	1	5,255	0.19	---	9,327	0.00
Consolidated Rail Corp.....	1	39,090	0.03	5	25,033	0.20	---	33,842	0.00
Delaware and Hudson Railway.....	---	802	0.00	---	708	0.00	---	802	0.00
Detroit, Toledo and Ironton Railroad.....	---	640	0.00	---	386	0.00	---	649	0.00
Elgin, Joliet and Eastern Railway.....	---	1,382	0.00	---	772	0.00	---	746	0.00
Grand Trunk Western Railroad.....	---	2,813	0.00	---	1,025	0.00	---	1,546	0.00
Long Island Railroad.....	---	2,576	0.00	---	1,969	0.00	---	4,112	0.00
Norfolk and Western Railway.....	1	10,415	0.10	1	8,986	0.11	---	8,990	0.00
Pittsburg and Lake Erie Railroad.....	---	1,166	0.00	---	578	0.00	---	1,225	0.00
Western Maryland Railway.....	---	280	0.00	---	450	0.00	---	507	0.00
SUBTOTAL, EASTERN DISTRICT:.....	3	89,733	0.03	10	60,163	0.17	1	79,723	0.01
SOUTHERN DISTRICT									
Alabama Great Southern Railroad.....	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad.....	---	---	A	---	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway.....	---	---	A	---	---	A	---	---	A
Clinchfield Railroad.....	---	188	0.00	---	489	0.00	---	366	0.00
Florida East Coast Railway.....	---	598	0.00	---	720	0.00	---	413	0.00
Illinois Central Gulf Railroad.....	---	8,056	0.00	2	6,927	0.29	---	9,302	0.00
Louisville and Nashville Railroad.....	---	5,850	0.00	---	6,136	0.00	1	7,114	0.14
Seaboard Coast Line Railroad.....	---	8,672	0.00	---	7,228	0.00	1	9,009	0.11
Southern Railway.....	1	9,270	0.11	---	7,099	0.00	---	7,089	0.00
SUBTOTAL, SOUTHERN DISTRICT:.....	1	32,634	0.03	2	28,599	0.07	2	33,293	0.06
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway.....	---	15,530	0.00	2	12,681	0.16	1	14,979	0.07
Burlington Northern Inc.....	---	21,538	0.00	1	21,220	0.05	1	22,133	0.05
Chicago and Northwestern Trans. Company....	---	6,696	0.00	---	7,434	0.00	---	6,349	0.00
Chicago, Milw., St. Paul & Pacific Railroad.....	---	3,979	0.00	---	3,565	0.00	1	3,592	0.28
Chicago, Rock Island & Pacific Railroad....	---	793	0.00	---	622	0.00	---	837	0.00
Colorado and Southern Railway.....	---	144	0.00	---	730	0.00	---	4	0.00
Denver and Rio Grande Western Railroad.....	---	1,776	0.00	1	1,583	0.63	---	1,849	0.00
Duluth, Missabe and Iron Range Railway.....	---	667	0.00	---	626	0.00	---	783	0.00
Fort Worth and Denver Railway.....	---	302	0.00	---	1,006	0.00	---	388	0.00
Kansas City Southern Railway.....	---	1,479	0.00	---	1,354	0.00	---	969	0.00
Louisiana and Arkansas Railway.....	---	---	B	---	---	B	---	---	B
Missouri-Kansas-Texas Railroad.....	---	1,464	0.00	---	1,225	0.00	---	950	0.00
Missouri Pacific Railroad.....	---	8,958	0.00	1	8,420	0.12	---	7,565	0.00
St. Louis-San Francisco Railway.....	---	2,953	0.00	1	2,886	0.35	1	2,744	0.36
St. Louis Southwestern Railway.....	2	1,962	1.02	---	2,022	0.00	---	1,798	0.00
Soo Line Railroad.....	---	2,068	0.00	1	2,192	0.46	---	1,811	0.00
Southern Pacific Trans. Company.....	1	19,287	0.05	1	11,255	0.09	---	13,725	0.00
Union Pacific Railroad.....	---	15,601	0.00	2	10,490	0.19	---	11,681	0.00
Western Pacific Railroad.....	---	1,458	0.00	---	1,005	0.00	---	789	0.00
SUBTOTAL, WESTERN DISTRICT:.....	3	106,655	0.03	10	90,316	0.11	4	92,946	0.04
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	---	---	C	2	---	C	1	---	C
RECAPITULATION									
ALL DISTRICTS									
Class I RAILROADS.....	7	229,022	0.03	22	179,078	0.12	7	205,962	0.03
Class II & III Railroads.....	---	---	C	2	---	C	1	---	C
TOTAL FOR ALL RAILROADS.....	7	229,022	0.03	24	179,078	0.13	8	205,962	0.04

TABLE R9. (CONTINUED)

	V. Via. Transportation not train, engine, yard			Vib. Transportation Train and Engine			.....TOTAL.....		
	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).....	---	8,587	0.00	---	---	---	2	38,354	0.05
Baltimore and Ohio Railroad.....	---	2,921	0.00	4	10,060	0.40	7	30,640	0.23
Bessemer and Lake Erie Railroad.....	---	122	0.00	---	301	0.00	---	2,359	0.00
Boston and Maine Corp.....	---	411	0.00	---	1,643	0.00	---	6,414	0.00
Chesapeake and Ohio Railway.....	1	3,103	0.32	3	9,072	0.33	5	36,582	0.14
Consolidated Rail Corp.....	---	10,286	0.00	2	43,801	0.05	8	152,052	0.05
Delaware and Hudson Railway.....	---	146	0.00	---	1,078	0.00	---	3,536	0.00
Detroit, Toledo and Ironton Railroad.....	---	139	0.00	---	729	0.00	---	2,543	0.00
Elgin, Joliet and Eastern Railway.....	---	319	0.00	1	1,266	0.79	1	4,485	0.22
Grand Trunk Western Railroad.....	---	423	0.00	---	2,132	0.00	---	7,939	0.00
Long Island Railroad.....	---	784	0.00	---	2,976	0.00	---	12,417	0.00
Norfolk and Western Railway.....	1	2,565	0.39	7	11,302	0.62	10	42,258	0.24
Pittsburg and Lake Erie Railroad.....	---	197	0.00	---	836	0.00	---	4,002	0.00
Western Maryland Railway.....	---	82	0.00	---	915	0.00	---	2,234	0.00
SUBTOTAL, EASTERN DISTRICT:.....	2	30,085	0.07	17	86,111	0.20	33	345,815	0.10
SOUTHERN DISTRICT									
Alabama Great Southern Railroad.....	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad.....	---	---	A	---	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway.....	---	---	A	---	---	A	---	---	A
Clinchfield Railroad.....	---	176	0.00	---	653	0.00	---	1,872	0.00
Florida East Coast Railway.....	---	117	0.00	---	643	0.00	---	2,491	0.00
Illinois Central Gulf Railroad.....	---	2,094	0.00	1	10,049	0.10	3	36,428	0.08
Louisville and Nashville Railroad.....	---	2,044	0.00	2	9,793	0.20	3	30,937	0.10
Seaboard Coast Line Railroad.....	---	2,834	0.00	1	11,751	0.09	2	39,494	0.05
Southern Railway.....	---	2,746	0.00	2	13,825	0.14	3	40,029	0.07
SUBTOTAL, SOUTHERN DISTRICT:.....	---	10,011	0.00	6	46,714	0.13	11	151,251	0.07
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway.....	---	3,763	0.00	3	16,962	0.18	6	63,915	0.09
Burlington Northern Inc.....	---	6,595	0.00	4	23,974	0.17	6	95,460	0.06
Chicago and Northwestern Trans. Company....	---	2,451	0.00	2	9,182	0.22	2	32,112	0.06
Chicago, Milw., St. Paul & Pacific Railroad.....	---	1,191	0.00	2	4,552	0.44	3	16,879	0.18
Chicago, Rock Island & Pacific Railroad....	---	310	0.00	---	1,186	0.00	---	3,748	0.00
Colorado and Southern Railway.....	---	24	0.00	---	885	0.00	---	1,787	0.00
Denver and Rio Grande Western Railroad....	---	478	0.00	---	2,075	0.00	1	7,761	0.13
Duluth, Missabe and Iron Range Railway....	---	349	0.00	---	467	0.00	---	2,892	0.00
Fort Worth and Denver Railway.....	---	292	0.00	---	1,160	0.00	---	3,148	0.00
Kansas City Southern Railway.....	---	259	0.00	---	2,524	0.00	---	6,585	0.00
Louisiana and Arkansas Railway.....	---	---	B	---	---	B	---	---	B
Missouri-Kansas-Texas Railroad.....	---	312	0.00	1	2,183	0.46	1	6,134	0.16
Missouri Pacific Railroad.....	---	2,507	0.00	2	15,539	0.13	3	42,989	0.07
St. Louis-San Francisco Railway.....	---	895	0.00	---	4,038	0.00	2	13,516	0.15
St. Louis Southwestern Railway.....	---	508	0.00	---	2,765	0.00	2	9,055	0.22
Soo Line Railroad.....	1	654	1.53	1	2,123	0.47	3	8,848	0.34
Southern Pacific Trans. Company.....	1	3,309	0.30	2	18,791	0.11	5	66,367	0.08
Union Pacific Railroad.....	---	2,781	0.00	7	11,186	0.63	9	51,739	0.17
Western Pacific Railroad.....	---	236	0.00	2	1,335	1.50	2	4,823	0.41
SUBTOTAL, WESTERN DISTRICT:.....	2	26,914	0.07	26	120,927	0.22	45	437,758	0.10
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	---	---	C	5	---	C	8	75,983	0.11
RECAPITULATION									
ALL DISTRICTS									
Class I RAILROADS.....	4	67,010	0.06	49	253,752	0.19	89	934,824	0.10
Class II & III Railroads.....	---	---	*	5	---	*	8	75,983	0.11
TOTAL FOR ALL RAILROADS.....	4	67,010	0.06	54	253,752	0.21	97	1,010,807	0.10

NOTE: 'A' Included in Southern Railway System
 'B' Included in Kansas City Southern Railway
 'C' Class II & III railroad manhours are not available by job categories

TABLE R10. INJURIES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	II. Prof, Clerical, General	Man Hrs	Inj/Mil	Man Hrs	Inj/Mil	Man Hrs	Inj/Mil	Man Hrs	Inj/Mil
	Injured (Thou)	Man Hrs	Man Hrs	Injured (Thou)	Man Hrs	Injured (Thou)	Man Hrs	Injured (Thou)	Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).....	256	13,253	19.32	775	6,890	112.48	747	9,624	77.62
Baltimore and Ohio Railroad.....	86	4,944	17.39	723	6,415	112.70	262	6,300	41.59
Bessemer and Lake Erie Railroad.....	5	986	5.07	34	333	102.10	34	617	55.11
Boston and Maine Corp.....	16	1,561	10.25	100	1,363	73.37	72	1,436	50.14
Chesapeake and Ohio Railway.....	68	9,825	6.92	562	5,255	106.95	633	9,327	67.87
Consolidated Rail Corp.....	489	39,090	12.51	2,420	25,033	96.67	2,374	33,842	70.15
Delaware and Hudson Railway.....	3	802	3.74	46	708	64.97	49	802	61.10
Detroit, Toledo and Ironton Railroad.....	9	640	14.06	72	386	186.53	63	649	97.07
Elgin, Joliet and Eastern Railway.....	28	1,382	20.26	27	772	34.97	38	746	50.94
Grand Trunk Western Railroad.....	32	2,813	11.38	74	1,025	72.20	114	1,546	73.74
Long Island Railroad.....	76	2,576	29.50	288	1,969	146.27	451	4,112	109.68
Norfolk and Western Railway.....	133	10,415	12.77	1,086	8,986	120.85	873	8,990	97.11
Pittsburg and Lake Erie Railroad.....	13	1,166	11.15	83	578	143.60	178	1,225	145.31
Western Maryland Railway.....	2	280	7.14	40	450	88.89	17	507	33.53
SUBTOTAL, EASTERN DISTRICT:.....	1,216	89,733	13.55	6,330	60,163	105.21	5,905	79,723	74.07
SOUTHERN DISTRICT									
Alabama Great Southern Railroad.....	3	---	A	8	---	A	4	---	A
Central of Georgia Railroad.....	3	---	A	20	---	A	17	---	A
Cinn., N.O. & Texas Pacific Railway.....	4	---	A	27	---	A	3	---	A
Clinchfield Railroad.....	1	188	5.32	22	489	44.99	6	366	16.39
Florida East Coast Railway.....	---	598	0.00	16	720	22.22	11	413	26.63
Illinois Central Gulf Railroad.....	77	8,056	9.56	950	6,927	137.14	815	9,302	87.62
Louisville and Nashville Railroad.....	38	5,850	6.50	493	6,136	80.35	395	7,114	55.52
Seaboard Coast Line Railroad.....	50	8,672	5.77	475	7,228	65.72	449	9,009	49.84
Southern Railway.....	77	9,270	8.31	261	7,099	36.77	509	7,089	71.80
SUBTOTAL, SOUTHERN DISTRICT:.....	253	32,634	7.75	2,272	28,599	79.44	2,209	33,293	66.35
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway.....	78	15,530	5.02	556	12,681	43.85	669	14,979	44.66
Burlington Northern Inc.....	108	21,538	5.01	1,511	21,220	71.21	920	22,133	41.57
Chicago and Northwestern Trans. Company....	53	6,696	7.92	756	7,434	101.69	683	6,349	107.58
Chicago, Milw., St. Paul & Pacific Railroad.....	71	3,979	17.84	399	3,565	111.92	416	3,592	115.81
Chicago, Rock Island & Pacific Railroad....	8	793	10.09	58	622	93.25	55	837	65.71
Colorado and Southern Railway.....	1	144	6.94	55	730	75.34	1	4	250.00
Denver and Rio Grande Western Railroad....	1	1,776	0.56	75	1,583	47.38	40	1,849	21.63
Duluth, Missabe and Iron Range Railway....	4	667	6.00	48	626	76.68	57	783	72.80
Fort Worth and Denver Railway.....	3	302	9.93	102	1,006	101.39	14	388	36.08
Kansas City Southern Railway.....	---	1,479	0.00	178	1,354	131.46	104	969	107.33
Louisiana and Arkansas Railway.....	3	---	B	91	---	B	13	---	B
Missouri-Kansas-Texas Railroad.....	6	1,464	4.10	171	1,225	139.59	51	950	53.68
Missouri Pacific Railroad.....	39	8,958	4.35	507	8,420	60.21	376	7,565	49.70
St. Louis-San Francisco Railway.....	36	2,953	12.19	273	2,886	94.59	275	2,744	100.22
St. Louis Southwestern Railway.....	16	1,962	8.15	252	2,022	124.63	73	1,798	40.60
Soo Line Railroad.....	9	2,068	4.35	258	2,192	117.70	165	1,811	91.11
Southern Pacific Trans. Company.....	309	19,287	16.02	957	11,255	85.03	880	13,725	64.12
Union Pacific Railroad.....	163	15,601	10.45	1,094	10,490	104.29	1,085	11,681	92.89
Western Pacific Railroad.....	12	1,458	8.23	63	1,005	62.69	89	789	112.80
SUBTOTAL, WESTERN DISTRICT:.....	920	106,655	8.63	7,404	90,316	81.98	5,966	92,946	64.19
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	289	---	C	1,835	---	C	1,212	---	C
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS.....	2,389	229,022	10.43	16,006	179,078	89.38	14,080	205,962	68.36
Class II & III Railroads.....	289	---	C	1,835	---	C	1,212	---	C
TOTAL FOR ALL RAILROADS.....	2,678	229,022	11.69	17,841	179,078	99.63	15,292	205,962	74.25

TABLE R10. (CONTINUED)

	V. Via. Transportation not train, engine, yard			Vib. Transportation Train and Engine			.....TOTAL.....		
	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak)	599	8,587	69.76	---	---	---	2,377	38,354	61.98
Baltimore and Ohio Railroad	37	2,921	12.67	569	10,060	56.56	1,677	30,640	54.73
Bessemer and Lake Erie Railroad	---	122	0.00	14	301	46.51	87	2,359	36.88
Boston and Maine Corp.	1	411	2.43	72	1,643	43.82	261	6,414	40.69
Chesapeake and Ohio Railway	57	3,103	18.37	506	9,072	55.78	1,826	36,582	49.92
Consolidated Rail Corp.	145	10,286	14.10	2,246	43,801	51.28	7,674	152,052	50.47
Delaware and Hudson Railway	6	146	41.10	50	1,078	46.38	154	3,536	43.55
Detroit, Toledo and Ironton Railroad	2	139	14.39	85	729	116.60	231	2,543	90.84
Elgin, Joliet and Eastern Railway	4	319	12.54	73	1,266	57.66	170	4,485	37.90
Grand Trunk Western Railroad	1	423	2.36	196	2,132	91.93	417	7,939	52.53
Long Island Railroad	36	784	45.92	339	2,976	113.91	1,190	12,417	95.84
Norfolk and Western Railway	30	2,565	11.70	725	11,302	64.15	2,847	42,258	67.37
Pittsburg and Lake Erie Railroad	3	197	15.23	32	836	38.28	309	4,002	77.21
Western Maryland Railway	4	82	48.78	42	915	45.90	105	2,234	47.00
SUBTOTAL, EASTERN DISTRICT:.....	925	30,085	30.75	4,949	86,111	57.47	19,325	345,815	55.88
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	2	---	A	37	---	A	54	---	A
Central of Georgia Railroad	2	---	A	109	---	A	151	---	A
Cinn., N.O. & Texas Pacific Railway	1	---	A	37	---	A	72	---	A
Clinchfield Railroad	1	176	5.68	23	653	35.22	53	1,872	28.31
Florida East Coast Railway	---	117	0.00	14	643	21.77	41	2,491	16.46
Illinois Central Gulf Railroad	35	2,094	16.71	675	10,049	67.17	2,552	36,428	70.06
Louisville and Nashville Railroad	24	2,044	11.74	546	9,793	55.75	1,496	30,937	48.36
Seaboard Coast Line Railroad	54	2,834	19.05	762	11,751	64.85	1,790	39,494	45.32
Southern Railway	32	2,746	11.65	601	13,825	43.47	1,480	40,029	36.97
SUBTOTAL, SOUTHERN DISTRICT:.....	151	10,011	15.08	2,804	46,714	60.02	7,689	151,251	50.84
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	14	3,763	3.72	702	16,962	41.39	2,019	63,915	31.59
Burlington Northern Inc.	117	6,595	17.74	1,244	23,974	51.89	3,900	95,460	40.85
Chicago and Northwestern Trans. Company	57	2,451	23.26	552	9,182	60.12	2,101	32,112	65.43
Chicago, Milw., St. Paul & Pacific Railroad	6	1,191	5.04	292	4,552	64.15	1,184	16,879	70.15
Chicago, Rock Island & Pacific Railroad	---	310	0.00	47	1,186	39.63	168	3,748	44.82
Colorado and Southern Railway	1	24	41.67	58	885	65.54	116	1,787	64.91
Denver and Rio Grande Western Railroad	3	478	6.28	75	2,075	36.14	194	7,761	25.00
Duluth, Missabe and Iron Range Railway	4	349	11.46	28	467	59.96	141	2,892	48.76
Fort Worth and Denver Railway	1	292	3.42	59	1,160	50.86	179	3,148	56.86
Kansas City Southern Railway	3	259	11.58	175	2,524	69.33	460	6,585	69.86
Louisiana and Arkansas Railway	---	---	B	60	---	B	167	---	B
Missouri-Kansas-Texas Railroad	12	312	38.46	163	2,183	74.67	403	6,134	65.70
Missouri Pacific Railroad	35	2,507	13.96	795	15,539	51.16	1,752	42,989	40.75
St. Louis-San Francisco Railway	8	895	8.94	233	4,038	57.70	825	13,516	61.04
St. Louis Southwestern Railway	6	508	11.81	194	2,765	70.16	541	9,055	59.75
Soo Line Railroad	15	654	22.94	183	2,123	86.20	630	8,848	71.20
Southern Pacific Trans. Company	82	3,309	24.78	1,514	18,791	80.57	3,742	66,367	56.38
Union Pacific Railroad	66	2,781	23.73	1,093	11,186	97.71	3,501	51,739	67.67
Western Pacific Railroad	4	236	16.95	143	1,335	107.12	311	4,823	64.48
SUBTOTAL, WESTERN DISTRICT:.....	434	26,914	16.13	7,610	120,927	62.93	22,334	437,758	51.02
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	283	---	C	1,677	---	C	5,296	75,983	69.70
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	1,510	67,010	22.53	15,363	253,752	60.54	49,348	934,824	52.79
Class II & III Railroads	283	---	C	1,677	---	C	5,296	75,983	69.70
TOTAL FOR ALL RAILROADS	1,793	67,010	26.76	17,040	253,752	67.15	54,644	1,010,807	54.06

NOTE: 'A' Included in Southern Railway System
'B' Included in Kansas City Southern Railway
'C' Class II & III railroad manhours are not available by job categories

TABLE R11. ILLNESSES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	II. Prof, Clerical, General								
	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness (Thou)	Man Hrs	Ill/Mil Man Hrs	Illness (Thou)	Man Hrs	Ill/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).....	9	13,253	0.68	60	6,890	8.71	32	9,624	3.33
Baltimore and Ohio Railroad.....	5	4,944	1.01	23	6,415	3.59	8	6,300	1.27
Bessemer and Lake Erie Railroad.....	---	986	0.00	5	333	15.02	---	617	0.00
Boston and Maine Corp.....	1	1,561	0.64	4	1,363	2.93	---	1,436	0.00
Chesapeake and Ohio Railway.....	1	9,825	0.10	20	5,255	3.81	6	9,327	0.64
Consolidated Rail Corp.....	19	39,090	0.49	85	25,033	3.40	98	33,842	2.90
Delaware and Hudson Railway.....	---	802	0.00	---	708	0.00	---	802	0.00
Detroit, Toledo and Ironton Railroad.....	1	640	1.56	---	386	0.00	---	649	0.00
Elgin, Joliet and Eastern Railway.....	---	1,382	0.00	---	772	0.00	---	746	0.00
Grand Trunk Western Railroad.....	1	2,813	0.36	4	1,025	3.90	2	1,546	1.29
Long Island Railroad.....	5	2,576	1.94	92	1,969	46.72	33	4,112	8.03
Norfolk and Western Railway.....	1	10,415	0.10	36	8,986	4.01	10	8,990	1.11
Pittsburg and Lake Erie Railroad.....	---	1,166	0.00	---	578	0.00	1	1,225	0.82
Western Maryland Railway.....	---	280	0.00	3	450	6.67	---	507	0.00
SUBTOTAL, EASTERN DISTRICT:.....	43	89,733	0.48	332	60,163	5.52	190	79,723	2.38
SOUTHERN DISTRICT									
Alabama Great Southern Railroad.....	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad.....	1	---	A	---	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway.....	---	---	A	1	---	A	---	---	A
Clinchfield Railroad.....	---	188	0.00	1	489	2.04	1	366	2.73
Florida East Coast Railway.....	---	598	0.00	---	720	0.00	---	413	0.00
Illinois Central Gulf Railroad.....	1	8,056	0.12	109	6,927	15.74	31	9,302	3.33
Louisville and Nashville Railroad.....	---	5,850	0.00	11	6,136	1.79	10	7,114	1.41
Seaboard Coast Line Railroad.....	---	8,672	0.00	8	7,228	1.11	10	9,009	1.11
Southern Railway.....	---	9,270	0.00	---	7,099	0.00	6	7,089	0.85
SUBTOTAL, SOUTHERN DISTRICT:.....	2	32,634	0.06	130	28,599	4.55	58	33,293	1.74
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway.....	---	15,530	0.00	6	12,681	0.47	9	14,979	0.60
Burlington Northern Inc.....	2	21,538	0.09	74	21,220	3.49	28	22,133	1.27
Chicago and Northwestern Trans. Company....	---	6,696	0.00	35	7,434	4.71	20	6,349	3.15
Chicago, Milw., St. Paul & Pacific Railroad.....	---	3,979	0.00	15	3,565	4.21	3	3,592	0.84
Chicago, Rock Island & Pacific Railroad....	---	793	0.00	---	622	0.00	1	837	1.19
Colorado and Southern Railway.....	---	144	0.00	2	730	2.74	---	4	0.00
Denver and Rio Grande Western Railroad.....	---	1,776	0.00	1	1,583	0.63	---	1,849	0.00
Duluth, Missabe and Iron Range Railway.....	---	667	0.00	---	626	0.00	2	783	2.55
Fort Worth and Denver Railway.....	---	302	0.00	2	1,006	1.99	---	388	0.00
Kansas City Southern Railway.....	---	1,479	0.00	4	1,354	2.95	---	969	0.00
Louisiana and Arkansas Railway.....	---	---	B	1	---	B	---	---	B
Missouri-Kansas-Texas Railroad.....	---	1,464	0.00	9	1,225	7.35	---	950	0.00
Missouri Pacific Railroad.....	2	8,958	0.22	19	8,420	2.26	6	7,565	0.79
St. Louis-San Francisco Railway.....	3	2,953	1.02	21	2,886	7.28	7	2,744	2.55
St. Louis Southwestern Railway.....	1	1,962	0.51	7	2,022	3.46	2	1,798	1.11
Soo Line Railroad.....	---	2,068	0.00	7	2,192	3.19	3	1,811	1.66
Southern Pacific Trans. Company.....	6	19,287	0.31	51	11,255	4.53	43	13,725	3.13
Union Pacific Railroad.....	4	15,601	0.26	11	10,490	1.05	17	11,681	1.46
Western Pacific Railroad.....	---	1,458	0.00	4	1,005	3.98	---	789	0.00
SUBTOTAL, WESTERN DISTRICT:.....	18	106,655	0.17	269	90,316	2.98	141	92,946	1.52
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:.....	2	---	C	40	---	C	13	---	C
RECAPITULATION									
ALL DISTRICTS									
Class I RAILROADS.....	63	229,022	0.28	731	179,078	4.08	389	205,962	1.89
Class II & III Railroads.....	2	---	C	40	---	C	13	---	C
TOTAL FOR ALL RAILROADS.....	65	229,022	0.28	771	179,078	4.31	402	205,962	1.95

TABLE R11. (CONTINUED)

	V. Via. Transportation not train, engine, yard			Vib. Transportation Train and Engine			.....TOTAL.....		
	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak)	33	8,587	3.84	---	---	---	134	38,354	3.49
Baltimore and Ohio Railroad	4	2,921	1.37	11	10,060	1.09	51	30,640	1.66
Bessemer and Lake Erie Railroad	---	122	0.00	1	301	3.32	6	2,359	2.54
Boston and Maine Corp.	---	411	0.00	7	1,643	4.26	12	6,414	1.87
Chesapeake and Ohio Railway	1	3,103	0.32	17	9,072	1.87	45	36,582	1.23
Consolidated Rail Corp.	5	10,286	0.49	79	43,801	1.80	286	152,052	1.88
Delaware and Hudson Railway	---	146	0.00	---	1,078	0.00	---	3,536	0.00
Detroit, Toledo and Ironton Railroad	---	139	0.00	---	729	0.00	1	2,543	0.39
Elgin, Joliet and Eastern Railway	---	319	0.00	3	1,266	2.37	3	4,485	0.67
Grand Trunk Western Railroad	---	423	0.00	---	2,132	0.00	7	7,939	0.88
Long Island Railroad	1	784	1.28	11	2,976	3.70	142	12,417	11.44
Norfolk and Western Railway	---	2,565	0.00	5	11,302	0.44	52	42,258	1.23
Pittsburg and Lake Erie Railroad	---	197	0.00	4	836	4.78	5	4,002	1.25
Western Maryland Railway	---	82	0.00	---	915	0.00	3	2,234	1.34
SUBTOTAL, EASTERN DISTRICT	44	30,085	1.46	138	86,111	1.60	747	345,815	2.16
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad	---	---	A	1	---	A	2	---	A
Cinn., N.O. & Texas Pacific Railway	---	---	A	---	---	A	1	---	A
Clinchfield Railroad	---	176	0.00	---	653	0.00	2	1,872	1.07
Florida East Coast Railway	---	117	0.00	---	643	0.00	---	2,491	0.00
Illinois Central Gulf Railroad	---	2,094	0.00	11	10,049	1.09	152	36,428	4.17
Louisville and Nashville Railroad	---	2,044	0.00	11	9,793	1.12	32	30,937	1.03
Seaboard Coast Line Railroad	---	2,834	0.00	3	11,751	0.26	21	39,494	0.53
Southern Railway	---	2,746	0.00	6	13,825	0.43	12	40,029	0.30
SUBTOTAL, SOUTHERN DISTRICT	---	10,011	0.00	32	46,714	0.69	222	151,251	1.47
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	---	3,763	0.00	3	16,962	0.18	18	63,915	0.28
Burlington Northern Inc.	2	6,595	0.30	27	23,974	1.13	133	95,460	1.39
Chicago and Northwestern Trans. Company	---	2,451	0.00	8	9,182	0.87	63	32,112	1.96
Chicago, Milw., St. Paul & Pacific Railroad	2	1,191	1.68	---	4,552	0.00	20	16,879	1.18
Chicago, Rock Island & Pacific Railroad	---	310	0.00	---	1,186	0.00	1	3,748	0.27
Colorado and Southern Railway	---	24	0.00	6	885	6.78	8	1,787	4.48
Denver and Rio Grande Western Railroad	---	478	0.00	1	2,075	0.48	2	7,761	0.26
Duluth, Missabe and Iron Range Railway	---	349	0.00	---	467	0.00	2	2,892	0.69
Fort Worth and Denver Railway	---	292	0.00	---	1,160	0.00	2	3,148	0.64
Kansas City Southern Railway	---	259	0.00	2	2,524	0.79	6	6,585	0.91
Louisiana and Arkansas Railway	---	---	B	1	---	B	2	---	B
Missouri-Kansas-Texas Railroad	---	312	0.00	1	2,183	0.46	10	6,134	1.63
Missouri Pacific Railroad	---	2,507	0.00	24	15,539	1.54	51	42,989	1.19
St. Louis-San Francisco Railway	2	895	2.23	7	4,038	1.73	40	13,516	2.96
St. Louis Southwestern Railway	---	508	0.00	5	2,765	1.81	15	9,055	1.66
Soo Line Railroad	---	654	0.00	3	2,123	1.41	13	8,848	1.47
Southern Pacific Trans. Company	1	3,309	0.30	98	18,791	5.22	199	66,367	3.00
Union Pacific Railroad	1	2,781	0.36	19	11,186	1.70	52	51,739	1.01
Western Pacific Railroad	---	236	0.00	2	1,335	1.50	6	4,823	1.24
SUBTOTAL, WESTERN DISTRICT	8	26,914	0.30	207	120,927	1.71	643	437,758	1.47
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III	1	---	C	19	---	C	75	75,983	0.99
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	52	67,010	0.78	377	253,752	1.49	1,612	934,824	1.72
Class II & III Railroads	1	---	C	19	---	C	75	75,983	0.99
TOTAL FOR ALL RAILROADS	53	67,010	0.79	396	253,752	1.56	1,687	1,010,807	1.67

NOTE: 'A' Included in Southern Railway System
'B' Included in Kansas City Southern Railway
'C' Class II & III railroad manhours are not available by job categories

TABLE R14. SUMMARY OF NON-FATAL INJURIES TO EMPLOYEES ON DUTY BY RAILROAD

Railroad	Total Cases	Cases Involving Lost And/Or Restricted Workdays					Other Cases
		Total Cases	Lost Cases	WD Cases	Restr Wd Cases	Workdays	
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.....	54	32	28	4	336	38	22
Amtrak.....	2,377	1,851	1,825	26	18,412	138	526
Atchison, Topeka And Santa Fe Rwy Co.....	2,019	1,315	1,137	178	14,180	3,240	704
Baltimore And Ohio Railroad Co.....	1,677	1,083	688	395	9,005	3,676	594
Bessemer And Lake Erie Railroad Co.....	87	43	41	2	573	58	44
Boston And Maine Corporation.....	261	165	159	6	2,864	17	96
Burlington Northern Incorporated.....	3,900	2,522	2,434	88	19,488	765	1,378
Central Of Georgia Railroad Company.....	151	74	69	5	1,015	40	77
Chesapeake And Ohio Railway Company.....	1,826	1,367	936	431	10,885	2,939	459
Chicago And Northwestern Transportation Co..	2,101	1,108	841	267	11,488	1,489	993
Chicago, Milw, St. Paul And Pacific RR Co..	1,184	999	957	42	10,426	259	185
Chicago, Rock Island And Pacific Railroad...	168	124	122	2	1,667	11	44
Cincinnati, New Orleans And Tx Pacific Co..	72	36	29	7	279	32	36
Clinchfield Railroad Company.....	53	45	45	---	295	---	8
Colorado And Southern Railway Co.....	116	69	68	1	800	1	47
Consolidated Rail Corporation.....	7,674	5,151	4,743	408	148,186	3,563	2,523
Delaware And Hudson Railway.....	154	152	152	---	2,088	---	2
Denver And Rio Grande Western RR Co.....	194	134	134	---	2,791	---	60
Detroit, Toledo And Ironton RR Co.....	231	107	105	2	2,207	27	124
Duluth, Missabe And Iron Range Rwy Co.....	141	87	80	7	906	35	54
Elgin, Joliet And Eastern Railway Co.....	170	87	86	1	1,705	10	83
Florida East Coast Railway Co.....	41	27	6	21	59	206	14
Forth Worth And Denver Railroad Co.....	179	133	124	9	1,231	84	46
Grand Truck Western Railroad Co.....	417	264	220	44	4,390	1,014	153
Illinois Central Gulf Railroad Co.....	2,552	1,596	696	900	12,714	14,053	956
Kansas City Southern Railway Co.....	460	410	410	---	4,943	---	50
Long Island Railroad Company.....	1,190	1,104	1,104	---	13,198	---	86
Louistana And Arkansas Rwy Company.....	167	146	146	---	1,644	---	21
Louisville And Nashville Railroad Co.....	1,496	1,119	1,088	31	11,933	277	377
Missouri Pacific Railroad Co.....	1,752	1,247	1,158	89	21,832	926	505
Missouri-Kansas-Texas Railroad Co.....	403	258	252	6	3,588	56	145
Norfolk And Western Railway Co.....	2,847	1,449	1,124	325	20,813	2,367	1,398
Pittsburg And Lake Erie Railroad Co.....	309	120	116	4	2,463	35	189
Seaboard Coast Line Railroad Co.....	1,790	1,372	1,217	155	15,410	1,297	418
Soo Line Railroad Company.....	630	516	485	31	5,065	628	114
Southern Pacific Transportation Co.....	3,742	2,188	1,845	343	29,838	4,967	1,554
Southern Railway Company.....	1,480	811	510	301	8,474	2,693	669
St. Louis Southwestern Railway Co.....	541	316	277	39	4,318	525	225
St. Louis-San Francisco Railway Co.....	825	447	435	12	5,471	63	378
Union Pacific Railroad Co.....	3,501	2,314	1,825	489	21,462	4,111	1,187
Western Maryland Railway Co.....	105	64	34	30	566	499	41
Western Pacific Railroad Co.....	311	232	232	---	3,894	5	79
TOTAL CLASS I RAILROADS.....	49,348	32,684	27,983	4,701	452,902	50,144	16,664
CLASS II RAILROADS							
Autotrain Corporation.....	224	39	39	---	181	---	185
Bangor And Aroostook Railroad Co.....	50	32	32	---	252	---	18
Canadian Pacific Lines In Maine.....	28	18	14	4	328	19	10
Central Vermont Railway Inc.....	14	7	7	---	108	---	7
Chicago And Illinois Midland Rwy Co.....	92	72	72	---	499	---	20
Chicago South Shore And South Bend RR.....	34	32	32	---	112	---	2
Detroit And Toledo Shore Line Railroad.....	33	33	30	3	179	40	---
Duluth, Winnipeg And Pacific Rwy Co.....	22	12	11	1	46	5	10
Georgia Railroad Lessee Organization.....	30	29	29	---	304	---	1
Georgia Southern And Florida Railway.....	60	37	34	3	414	5	23
Green Bay And Western Railroad.....	70	56	56	---	661	---	14
Illinois Terminal Railroad.....	154	139	139	---	2,303	---	15
Lake Superior And Ishpeming Railroad Co....	15	11	11	---	72	---	4
Maine Central Railroad Company.....	204	172	161	11	1,563	70	32
Michigan Interstate Railroad (Ann Arbor)....	21	20	20	---	219	---	1
Norfolk Southern Railway Company.....	31	18	14	4	177	28	13
Northwestern Pacific Railroad.....	22	5	5	---	76	---	17
Richmond, Frederickburg And Potomac RR Co..	168	93	93	---	1,206	---	75
Texas, Mexican Railway Company.....	146	66	65	1	516	50	80
Toledo, Peoria And Western Railroad Co.....	57	46	44	2	357	37	11
TOTAL CLASS II RAILROADS.....	1,475	937	908	29	9,573	254	538
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS.....	49,348	32,684	27,983	4,701	452,902	50,144	16,664
CLASS II RAILROADS.....	1,475	937	908	29	9,573	254	538
CLASS III RAILROADS.....	3,821	2,280	2,079	201	23,508	2,159	1,541
TOTAL ALL RAILROADS.....	54,644	35,901	30,970	4,931	485,983	52,557	18,743

7. CASUALTIES: EMPLOYEES, TRESPASSERS, NON-TRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

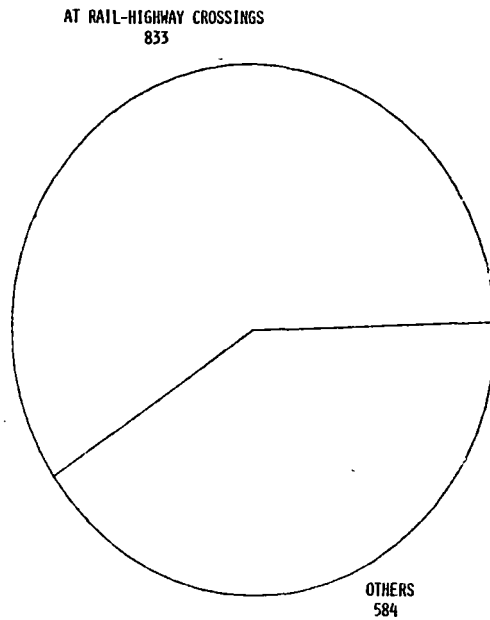


FIGURE 28. FATALITIES IN 1980: RAIL-HIGHWAY CROSSINGS AND OTHER

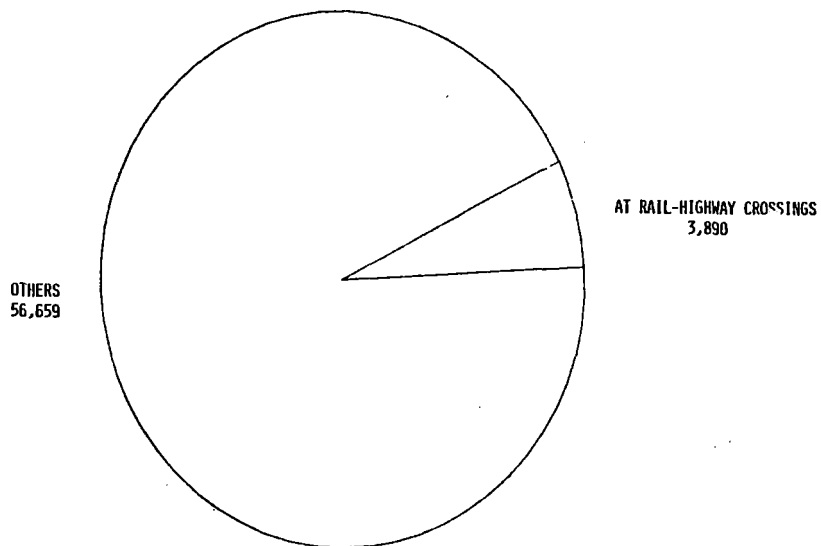


FIGURE 29. INJURIES IN 1980: RAIL-HIGHWAY CROSSINGS AND OTHER

TABLE S13. 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	Non-Tres- passers	Tres- passers
				Trainmen	Other	Total			
TRAIN ACCIDENTS									
Class I Railroads.....	280	18	26	22	3	25	---	1	---
Class II Railroads.....	9	2	2	2	---	2	---	---	---
Class III Railroads.....	15	1	1	1	---	1	---	---	---
Total All Railroads.....	304	21	29	25	3	28	---	1	---
TRAIN INCIDENTS									
Class I Railroads.....	8,629	474	481	24	16	40	1	3	7
Class II Railroads.....	362	6	6	---	---	---	---	---	6
Class III Railroads.....	547	9	9	2	1	3	---	---	2
Total All Railroads.....	9,538	489	496	26	17	43	1	3	9
NONTRAIN INCIDENTS									
Class I Railroads.....	43,669	53	53	3	21	24	2	---	11
Class II Railroads.....	1,266	2	2	---	1	1	---	---	---
Class III Railroads.....	3,358	4	4	---	1	1	---	---	3
Total All Railroads.....	48,293	59	59	3	23	26	2	---	14
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	3,195	650	784	---	---	---	1	---	679
Class II Railroads.....	68	12	14	---	---	---	---	---	12
Class III Railroads.....	150	26	35	---	---	---	---	---	32
Total All Railroads.....	3,413	688	833	---	---	---	1	---	723
GRAND TOTAL									
Class I Railroads.....	55,773	1,195	1,344	49	40	89	4	4	697
Class II Railroads.....	1,705	22	24	2	1	3	---	---	12
Class III Railroads.....	4,070	40	49	3	2	5	---	---	37
Total All Railroads.....	61,548	1,257	1,417	54	43	97	4	4	746

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

TABLE S14. INJURIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Injury A/I	Total Injured	...Employees On Duty...		Emp Not On Duty	Passen- gers	Non-Tres- passers	Tres- passers	
				Trainmen	Other	Total				
TRAIN ACCIDENTS										
Class I Railroads.....	280	257	609	377	113	490	1	105	10	3
Class II Railroads.....	9	7	17	15	2	17	---	---	---	---
Class III Railroads.....	15	14	21	13	5	18	---	---	3	---
Total All Railroads.....	304	278	647	405	120	525	1	105	13	3
TRAIN INCIDENTS										
Class I Railroads.....	8,629	7,993	8,128	6,395	1,104	7,499	13	147	65	404
Class II Railroads.....	362	355	357	158	87	245	---	102	2	8
Class III Railroads.....	547	535	541	444	81	525	---	2	6	8
Total All Railroads.....	9,538	8,883	9,026	6,997	1,272	8,269	13	251	73	420
NONTRAIN INCIDENTS										
Class I Railroads.....	43,669	42,277	42,424	8,486	32,741	41,227	624	187	338	48
Class II Railroads.....	1,266	1,245	1,247	227	981	1,208	10	24	4	1
Class III Railroads.....	3,358	3,307	3,315	813	2,457	3,270	13	2	28	2
Total All Railroads.....	48,293	46,829	46,986	9,526	36,179	45,705	647	213	370	51
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	3,195	2,545	3,628	105	27	132	2	21	3,247	226
Class II Railroads.....	68	56	83	1	4	5	---	---	69	9
Class III Railroads.....	150	124	179	6	2	8	---	3	149	19
Total All Railroads.....	3,413	2,725	3,890	112	33	145	2	24	3,465	254
GRAND TOTAL										
Class I Railroads.....	55,773	53,072	54,789	15,363	33,985	49,348	640	460	3,660	681
Class II Railroads.....	1,705	1,663	1,704	401	1,074	1,475	10	126	75	18
Class III Railroads.....	4,070	3,980	4,056	1,276	2,545	3,821	13	7	186	29
Total All Railroads.....	61,548	58,715	60,549	17,040	37,604	54,644	663	593	3,921	728

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

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TABLE S15. 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	Non-Tres- passers	Tres- passers
				Trainmen	Other	Total			
TRAIN ACCIDENTS									
Class I Railroads.....	280	5	18	17	1	18	---	---	---
Class II Railroads.....	9	---	---	---	---	---	---	---	---
Class III Railroads.....	15	---	---	---	---	---	---	---	---
Total All Railroads.....	304	5	18	17	1	18	---	---	---
TRAIN INCIDENTS									
Class I Railroads.....	8,629	162	203	177	26	203	---	---	---
Class II Railroads.....	362	1	1	1	---	1	---	---	---
Class III Railroads.....	547	3	3	3	---	3	---	---	---
Total All Railroads.....	9,538	166	207	181	26	207	---	---	---
NONTRAIN INCIDENTS									
Class I Railroads.....	43,669	1,339	1,401	183	1,208	1,391	8	---	2
Class II Railroads.....	1,266	19	20	---	20	20	---	---	---
Class III Railroads.....	3,358	47	51	15	36	51	---	---	---
Total All Railroads.....	48,293	1,405	1,472	198	1,264	1,462	8	---	2
RAIL-HIGHWAY CROSSING (Excluded from above categories)									
Class I Railroads.....	3,195	---	---	---	---	---	---	---	---
Class II Railroads.....	68	---	---	---	---	---	---	---	---
Class III Railroads.....	150	---	---	---	---	---	---	---	---
Total All Railroads.....	3,413	---	---	---	---	---	---	---	---
GRAND TOTAL									
Class I Railroads.....	55,773	1,506	1,622	377	1,235	1,612	8	---	2
Class II Railroads.....	1,705	20	21	1	20	21	---	---	---
Class III Railroads.....	4,070	50	54	18	36	54	---	---	---
Total All Railroads.....	61,548	1,576	1,697	396	1,291	1,687	8	---	2

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

TABLE S23. NATURE OF INJURIES BY TYPE OF ACCIDENT/INCIDENT

Class of Accident	.....Amputations.....						.....Fractures.....							Total
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Head or Face Bones	Torso	Other	
TRAIN ACCIDENTS														
Collisions.....	---	---	1	---	---	1	7	---	13	1	16	8	5	50
Derailments.....	---	---	---	1	---	1	4	1	3	---	4	10	8	30
Other Train Accidents.....	---	---	---	---	---	---	6	1	7	1	7	11	2	35
Total.....	---	---	1	1	---	2	17	2	23	2	27	29	15	115
TRAIN INCIDENTS														
Coupling or uncoupling.....	---	4	6	1	---	11	9	14	4	1	4	9	2	43
Operating locomotives.....	---	---	---	1	---	1	4	4	2	---	1	8	1	20
Operating rail motor car...	---	2	---	---	---	2	7	5	11	6	3	9	1	42
Operating hand brakes.....	---	---	3	1	---	4	6	4	3	---	1	12	1	27
Operating switches.....	---	---	---	---	---	---	---	2	---	---	1	---	---	3
Coming in contact w/fxd obj.....	---	---	---	---	---	---	1	1	2	1	2	5	2	14
Getting on/off loco or cars.....	3	---	40	8	1	52	39	14	75	15	9	23	4	179
Accidents at Highway Grades.....	---	---	13	2	---	15	81	4	115	1	70	101	42	414
Other struck or run over...	13	3	68	16	1	101	26	1	45	3	17	19	11	122
Flying or falling objects..	---	1	---	---	---	1	1	1	4	3	1	3	---	13
Assaults.....	---	---	---	---	---	---	2	1	---	---	7	---	---	10
Miscellaneous.....	2	11	11	2	1	27	54	79	53	21	17	65	15	304
Total.....	18	21	141	31	3	214	230	130	314	51	133	254	79	1,191
NONTRAIN INCIDENTS														
Coupling incidents.....	---	1	---	---	---	1	23	40	18	21	7	11	2	122
Operating switches.....	---	1	---	---	---	1	12	27	5	26	5	6	---	81
Getting on/off locos or cars.....	---	1	---	---	---	1	55	13	68	3	5	19	7	170
Servicing or maintenance of equip.....	2	37	---	1	1	41	157	420	168	168	70	57	15	1,055
Maintenance of way and structures.....	1	69	4	4	1	79	202	674	337	255	99	78	34	1,679
Involving freight, baggage, etc.....	---	---	---	---	---	---	1	3	2	4	---	3	2	15
Involving windows,doors, etc.....	---	8	---	1	---	9	15	60	12	6	4	3	3	103
Involving passenger car doors.....	---	---	---	---	---	---	---	2	---	---	---	---	---	2
Stumbling,falling not on car/loco.....	---	1	3	---	---	4	123	45	197	23	12	67	8	475
Flying/falling objjs, burns, etc.....	---	2	---	---	---	2	4	9	10	18	9	2	2	54
Assaults to persons.....	---	---	---	---	---	---	5	2	---	1	9	2	1	20
Miscellaneous.....	---	8	1	2	---	11	53	102	60	14	22	55	13	319
TOTAL.....	3	128	8	8	2	149	650	1,397	877	539	242	303	87	4,095
GRAND TOTAL.....	21	149	150	40	5	365	897	1,529	1,214	592	402	586	181	5,401

TABLE S23. (CONTINUED)

Class of Accident	.....Other Injuries.....								Total Injuries	Total Injury Fatalities	
	Bruise	Sprain or Strain	Cut or Laceration	Electric Shock or Burn	Other Burns	Dislocation	Cinder, etc in Eye	Other			
TRAIN ACCIDENTS											
Collisions.....	103	107	45	1	4	---	1	25	286	337	20
Derailments.....	108	95	28	---	1	1	2	14	249	280	8
Other Train Accidents.....	64	44	35	---	7	3	3	34	190	225	69
Total.....	275	246	108	1	12	4	6	73	725	842	97
TRAIN INCIDENTS											
Coupling or uncoupling.....	161	235	60	---	2	3	13	9	483	537	8
Operating locomotives.....	131	152	64	7	5	1	328	18	706	727	---
Operating rail motor car...	126	104	49	---	---	6	---	1	286	330	2
Operating hand brakes.....	80	115	23	---	---	1	1	4	224	255	2
Operating switches.....	12	20	7	---	---	---	8	3	50	53	---
Coming in contact w/fxd obj.....	77	27	29	---	---	1	2	7	143	157	3
Getting on/off loco or cars.....	500	1,178	182	---	1	21	2	31	1,915	2,146	19
Accidents at Highway Grades.....	1,072	288	967	2	4	12	4	577	2,926	3,355	704
Other struck or run over...	155	51	146	---	1	3	---	88	444	667	463
Flying or falling objects..	59	13	133	6	77	---	890	31	1,209	1,223	---
Assaults.....	46	7	101	---	---	---	37	18	209	219	4
Miscellaneous.....	1,055	998	406	---	21	14	14	87	2,595	2,926	37
Total.....	3,474	3,188	2,167	15	111	62	1,299	874	11,190	12,595	1,242
NONTRAIN INCIDENTS											
Coupling incidents.....	398	823	182	---	11	10	21	41	1,486	1,609	---
Operating switches.....	223	1,422	67	---	1	21	19	45	1,798	1,880	---
Getting on/off locos or cars.....	530	1,276	193	---	3	16	2	27	2,047	2,218	1
Servicing or maintenance of equip.....	2,514	4,584	2,498	136	767	58	1,377	414	12,348	13,444	4
Maintenance of way and structures.....	3,298	6,213	3,209	31	307	107	968	464	14,597	16,355	12
Involving freight, baggage, etc.....	59	173	39	---	1	2	5	4	283	298	---
Involving windows, doors, etc.....	201	201	208	1	---	2	7	15	635	747	1
Involving passenger car doors.....	3	1	4	---	---	---	---	---	8	10	---
Stumbling, falling not on car/loco.....	1,071	2,462	495	1	4	65	2	102	4,202	4,681	9
Flying/falling objs, burns, etc.....	128	29	194	34	85	1	804	59	1,334	1,390	10
Assaults to persons.....	120	43	67	---	---	1	7	30	268	288	1
Miscellaneous.....	771	1,702	636	9	35	28	140	541	3,862	4,192	40
TOTAL.....	9,316	18,929	7,792	212	1,214	311	3,352	1,742	42,868	47,112	78
GRAND TOTAL.....	13,065	22,363	10,067	228	1,337	377	4,657	2,689	54,783	60,549	1,417

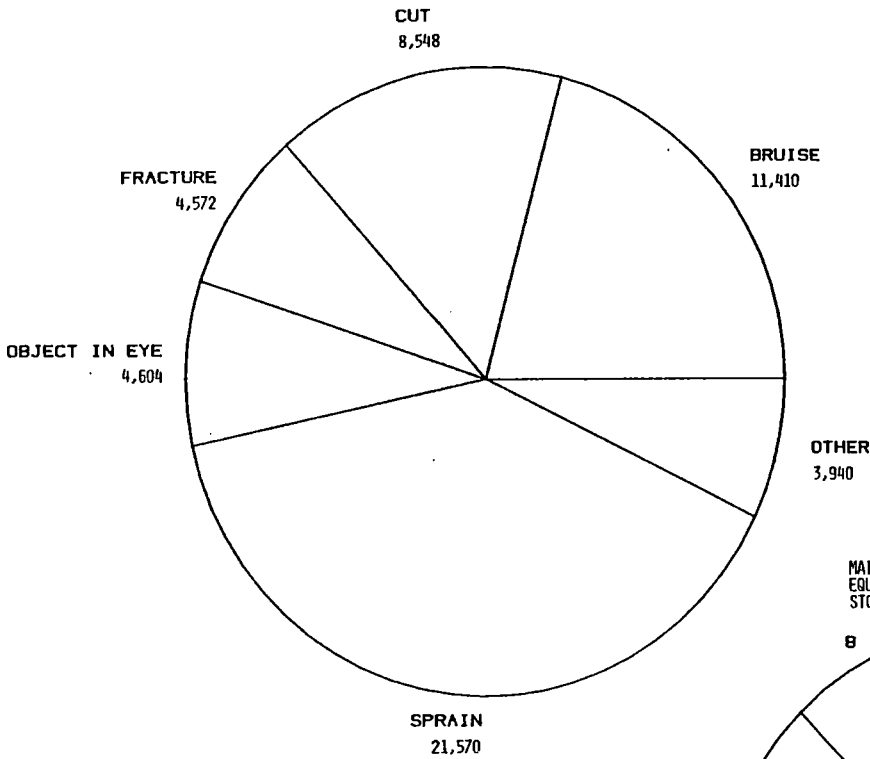
TABLE S24. NATURE OF INJURIES BY TYPE OF PERSON

Class of Person	Amputations.....						Fractures.....							
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Head or Face	Torso	Other	Total
EMPLOYEES ON DUTY														
YARD SERVICE:														
Engineers and Motormen.	---	---	2	---	---	2	10	16	8	1	5	12	4	56
Firemen and Helpers....	---	---	---	---	---	---	3	5	2	1	---	1	---	12
Conductors and Foremen.	1	3	2	1	---	7	19	18	32	15	3	22	5	114
Brakemen and Helpers...	---	9	13	5	---	27	87	80	82	37	19	47	8	360
FREIGHT SERVICE:														
Engineers and Motormen.	---	1	---	1	---	2	14	12	21	6	5	12	2	72
Firemen and Helpers....	---	---	1	---	---	1	4	4	4	1	3	1	---	17
Conductors.....	---	1	6	2	---	9	21	24	24	7	9	35	9	129
Brakemen and Flagmen...	---	4	10	3	---	17	67	78	82	28	21	57	13	346
PASSENGER SERVICE:														
Engineers and Motormen.	---	---	---	---	---	---	5	2	1	1	---	2	---	11
Firemen and Helpers....	---	---	---	---	---	---	---	2	5	---	1	---	---	8
Conductors.....	---	---	---	---	---	---	7	7	2	2	4	2	---	24
Baggagemen.....	---	---	---	---	---	---	---	1	---	---	---	---	---	1
Brakemen and Flagmen...	---	1	---	---	---	1	7	9	1	---	2	1	---	20
HOSTLERS.....														
HOSTLERS.....	---	---	---	---	---	---	3	6	4	2	1	---	1	17
OTHER EMPLOYEES.....														
OTHER EMPLOYEES.....	3	124	7	6	2	142	482	1,242	676	473	211	234	67	3,385
SUMMARY														
Total employees on duty..	4	143	41	18	2	208	729	1,506	944	574	284	426	109	4,572
Employees not on duty....	---	---	---	---	---	---	22	8	48	6	8	9	5	106
Passengers.....	---	1	1	1	---	3	16	5	21	4	10	6	8	70
Nontrespassers.....	---	1	6	4	---	11	102	9	148	6	81	129	47	522
Trespassers.....	17	4	102	17	3	143	28	1	53	2	19	16	12	131
GRAND TOTAL.....	21	149	150	40	5	365	897	1,529	1,214	592	402	586	181	5,401

TABLE S24. (CONTINUED)

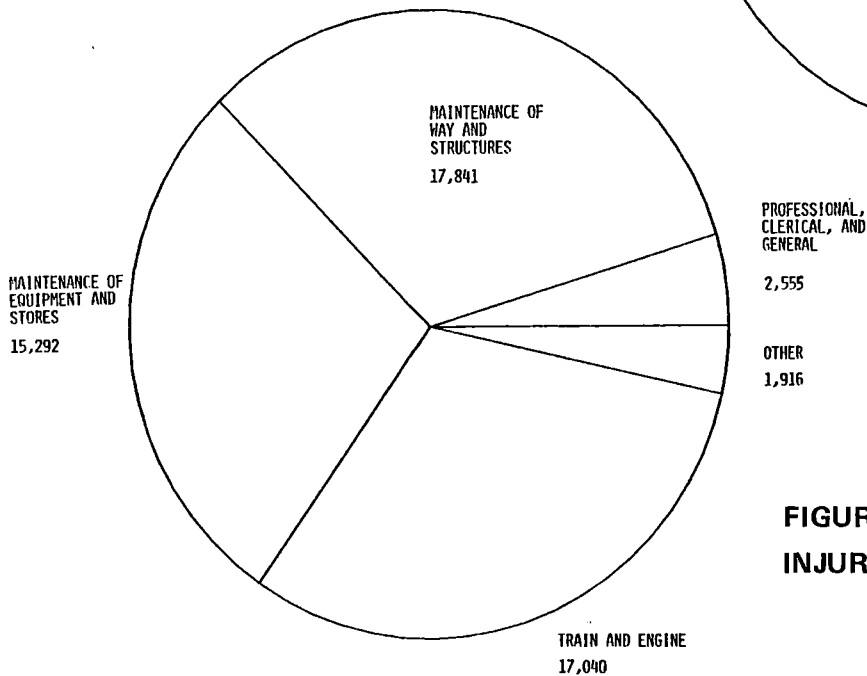
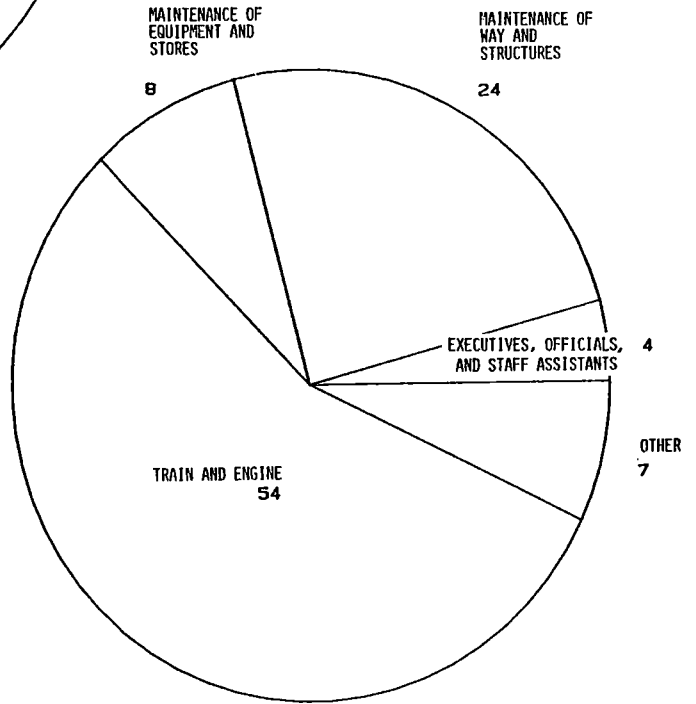
Class of Person	Other Injuries.....								Total Injuries	Total Fatalities	
	Bruise	Sprain or Strain	Cut or Laceration	Electric Shock or Burn	Other Burns	Dislocation	Cinder etc in eye	Other			
EMPLOYEES ON DUTY											
YARD SERVICE:											
Engineers and Motormen.	139	267	94	3	5	3	141	32	684	742	1
Firemen and Helpers....	21	65	18	---	1	---	22	7	134	146	---
Conductors and Foremen.	301	640	141	1	14	5	126	47	1,275	1,396	5
Brakemen and Helpers...	1,199	2,901	546	1	46	41	622	175	5,531	5,918	14
FREIGHT SERVICE:											
Engineers and Motormen.	208	349	132	7	12	3	215	45	971	1,045	5
Firemen and Helpers....	39	90	31	2	1	1	57	9	230	248	2
Conductors.....	448	691	231	1	10	21	145	64	1,611	1,749	7
Brakemen and Flagmen...	1,097	2,228	542	6	41	42	508	122	4,586	4,949	20
PASSENGER SERVICE:											
Engineers and Motormen.	28	48	27	2	1	1	29	4	140	151	---
Firemen and Helpers....	11	17	12	2	1	1	14	1	59	67	---
Conductors.....	57	76	23	1	---	1	28	6	192	216	---
Baggagemen.....	9	11	3	---	---	---	1	2	26	27	---
Brakemen and Flagmen...	49	85	19	---	3	3	16	4	179	200	---
HOSTLERS.....											
HOSTLERS.....	64	151	22	1	4	---	26	11	279	296	---
OTHER EMPLOYEES.....											
OTHER EMPLOYEES.....	7,740	13,951	6,707	174	1,161	223	2,654	1,357	33,967	37,494	43
SUMMARY											
Total employees on duty..	11,410	21,570	8,548	201	1,300	345	4,604	1,886	49,864	54,644	97
Employees not on duty....	125	268	95	1	10	10	29	19	557	663	4
Passengers.....	208	124	149	---	3	2	2	32	520	593	4
Nontrespassers.....	1,203	375	1,107	5	21	19	22	636	3,388	3,921	746
Trespassers.....	119	26	168	21	3	1	---	116	454	728	566
GRAND TOTAL.....	13,065	22,363	10,067	228	1,337	377	4,657	2,689	54,783	60,549	1,417

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 S27. EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

Type/Location Of Casualty	Total Cases	---Cases Involving Lost And/Or Restricted Workdays---					Other Cases
		Total Cases	Lost WD Cases	Restr Wd Cases	Lost Workdays	Restricted Workdays	
I N J U R I E S							
Bruise - Contusion--Arm or hand.	2,067	1,418	1,203	215	12,409	1,565	649
Fingers.....	1,512	672	466	206	3,815	1,522	840
Leg or foot.	3,916	2,996	2,605	391	26,412	3,196	920
Toes.....	353	238	198	40	1,421	248	115
Torso.....	2,248	1,694	1,527	167	23,013	1,694	554
Other parts.	1,314	930	872	58	12,089	477	384
Sprain - Strain-- Arm or hand.	2,310	1,692	1,350	342	19,885	3,198	618
Fingers.....	319	205	162	43	2,036	413	114
Leg or foot.	5,875	5,101	4,574	527	67,602	6,438	774
Toes.....	56	46	43	3	417	35	10
Torso.....	11,974	9,232	8,006	1,226	135,120	13,746	2,742
Other parts.	1,036	821	754	67	8,973	498	215
Cut or Laceration-- Arm or hand.	1,633	651	519	132	5,717	1,041	982
Fingers.....	2,586	958	683	275	7,651	2,596	1,628
Leg or foot.	1,367	715	632	83	7,411	496	652
Toes.....	53	37	30	7	420	98	16
Head or Face	2,644	784	709	75	7,132	387	1,860
Torso.....	180	93	89	4	1,211	41	87
Other parts.	85	46	43	3	738	31	39
Electrical burn or shock.....	201	132	120	12	1,804	92	69
Other burns.....	1,300	652	549	103	5,918	748	648
Dislocation.....	345	276	232	44	5,759	796	69
Fracture-- Arm or hand.	729	633	544	89	18,404	2,602	96
Fingers.....	1,506	921	623	298	10,935	4,834	585
Leg or foot.	944	882	807	75	33,749	1,865	62
Toes.....	574	424	347	77	6,967	1,127	150
Head or Face	284	166	163	3	4,174	106	118
Torso.....	426	359	334	25	12,260	635	67
Other parts.	109	77	68	9	2,259	83	32
Amputation-- Arm or hand.	4	4	4	---	392	---	---
Fingers.....	143	125	105	20	2,992	371	18
Leg or foot.	41	41	41	---	6,158	---	---
Toes.....	18	18	18	---	1,730	15	---
Other parts.	2	1	1	---	5	---	1
Cinder or other particle in eye.	4,604	1,770	1,538	232	6,702	733	2,834
Hernia.....	308	293	286	7	10,331	217	15
Concussion.....	153	133	126	7	2,940	108	20
Nervous shock.....	29	20	20	---	266	---	9
Internal injuries.....	40	38	38	---	2,316	---	2
Loss of eye.....	5	5	5	---	527	---	---
Not otherwise classified.....	1,351	602	536	66	5,923	505	749
Total nonfatal injuries.....	54,644	35,901	30,970	4,931	485,983	52,557	18,743
I L L N E S S E S							
Skin diseases or disorders.....	668	277	256	21	1,490	81	391
Dust diseases of the lungs.....	10	7	7	---	52	---	3
Respratory conditions.....	384	257	250	7	2,977	100	127
Poisoning.....	74	35	35	---	187	---	39
Disorders due to physical agents	327	165	139	26	823	54	162
Disorders due to repeated trauma	54	36	36	---	665	20	18
All other occupational illnesses	170	113	109	4	752	63	57
Total nonfatal illnesses.....	1,687	890	832	58	6,946	318	797

TABLE S25. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

Class of Person	Total		
	Killed	Injured	Illness
I.--EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS			
EXECUTIVE, GENERAL OFFICERS, AND ASSISTANTS.....	1	22	---
DIVISION OFFICERS, ASSISTANTS, AND STAFF ASSISTANT.	3	101	4
Subtotal.....	4	123	4
II.--PROFESSIONAL, CLERICAL, AND GENERAL			
PROFESSIONAL AND SUBPROFESSIONAL ASSISTANTS.....	1	78	8
SUPERVISORY OR CHIEF CLERKS(MAJOR DEPARTMENTS).....	---	38	1
CHIEF CLERKS(MINOR DEPARTMENTS)AND ASSISTANTS.....	---	30	1
CLERKS AND CLERICAL SPECIALISTS.....	---	89	---
CLERKS.....	---	920	22
MECHANICAL DEVICE OPERATORS (OFFICE).....	---	25	1
STENOGRAPHERS AND SECRETARIES.....	---	17	1
STENOGRAPHERS AND TYPISTS.....	---	16	---
STOREKEEPERS, SALES AGENTS, AND BUYERS.....	---	31	1
TICKET AGENTS AND ASSISTANT TICKET AGENTS.....	---	47	2
TRAVELING AUDITORS OR ACCOUNTANTS.....	---	2	---
TELEPHONE SWITCHBOARD OPERATORS AND OFFICE ASSIST..	---	11	1
MESSENGERS AND OFFICE BOYS.....	1	32	---
ELEVATOR OPERATORS AND OTHER OFFICE ATTENDANTS.....	---	11	---
LIEUTENANTS AND SERGEANTS OF POLICE.....	---	57	1
PATROLMEN AND WATCHMEN.....	---	357	7
TRAFFIC AND VARIOUS OTHER AGENTS, INSPECTORS, ETC..	---	22	---
CLAIM AGENTS OR INVESTIGATORS.....	---	11	---
FREIGHT CLAIM AGENTS OR INVESTIGATORS.....	---	7	---
CHIEF CLAIM AGENTS OR INVESTIGATORS.....	---	5	---
MISCELLANEOUS TRADE WORKERS(OTHER THAN PLUMBERS)...	---	121	2
MOTOR VEHICLE AND MOTOR CAR OPERATORS.....	1	485	11
TEAMSTERS AND STABLEMEN.....	---	1	---
JANITORS AND CLEANERS.....	---	142	2
Subto tal.....	3	2,555	61
III.--MAINTENANCE OF WAY AND STRUCTURE			
ROADMASTERS, GENERAL FOREMAN, AND ASSISTANTS.....	---	153	5
MAINTENANCE OF WAY AND SCALE INSPECTORS.....	1	65	5
BRIDGE AND BUILDING GANG FOREMEN(SKILLED LABOR)....	1	156	6
BRIDGE AND BUILDING CARPENTERS.....	5	896	48
BRIDGE AND BUILDING IRONWORKERS.....	1	102	1
BRIDGE AND BUILDING PAINTERS.....	---	76	5
MASONS, BRICKLAYERS, PLASTERERS, AND PLUMBERS.....	1	449	13
MAINTENANCE OF WAY/STRUCTURE HELPERS & ASSISTANTS..	1	520	16
PORTABLE STEAM EQUIPMENT OPERATORS.....	1	1,424	63
PORTABLE STEAM EQUIPMENT OPERATOR HELPERS.....	1	36	---
PUMPING EQUIPMENT OPERATORS.....	---	12	1
GANG FOREMEN(EXTRA GANG AND WORK-TRAIN LABORERS)...	---	231	4
GANG FOREMEN(BRIDGE AND BUILDING, SIGNAL ETC).....	---	36	2
GANG OR SECTION FOREMEN.....	1	1,048	45
EXTRA GANG MEN.....	1	3,286	81
SECTION MEN.....	5	7,346	347
MAINTENANCE OF WAY LABORERS(OTHER THAN TRACK/RDWAY).	---	224	6
GENERAL & ASS'T GEN FOREMEN/INSPECTORS (SIGNAL,ETC.	---	52	2
GANG FOREMEN(SIGNAL AND TELEGRAPH SKILLED TRADES).	---	73	3
SIGNALMEN AND SIGNAL MAINTAINERS.....	---	889	47
LINEMEN AND GROUND MEN.....	4	308	25
ASSISTANT SIGNALMEN AND ASSISTANT SIGNAL MAINT.....	1	350	30
SIGNALMEN AND SIGNAL MAINTAINER HELPERS.....	---	109	16
Subto tal.....	24	17,841	771
IV.--MAINTENANCE OF EQUIPMENT AND STORES			
GENERAL, ASSISTANT GENERAL, AND DEPARTMENT FOREMEN.	---	164	5
GENERAL AND ASSISTANT GENERAL FOREMEN(STORES).....	---	25	---
EQUIPMENT, SHOP, ELEC, MATERIAL, & SUPPLIES INSPTR.	1	134	7
GANG FOREMEN AND GANG LEADERS(SKILLED LABOR).....	---	187	10
BLACKSMITHS.....	---	170	8
BOILERMAKERS.....	---	321	17
CARMEN (A AND B).....	5	3,587	72
CARMEN (C AND D).....	1	2,848	54
ELECTRICAL WORKERS (A).....	---	1,199	50
ELECTRICAL WORKERS (B).....	---	52	3
ELECTRICAL WORKERS (C).....	---	13	---
MACHINISTS.....	---	2,681	62
MOLDERS.....	---	14	1
SHEET-METAL WORKERS.....	---	610	21
SKILLED TRADES HELPERS(M OF E AND STORES).....	---	527	12
HELPER APPRENTICES(M OF E AND STORES).....	---	98	4
REGULAR APPRENTICES(M OF E AND STORES).....	---	467	7
COACH CLEANERS.....	---	333	9
GANG FOREMEN(SHOPS, ENGINE HOUSES, & POWER PLANTS).	---	38	2
GANG FOREMEN(STORES AND ICE, RECLAMATION, ETC).....	---	17	---

TABLE S25. (CONTINUED)

Class of Person	Total		
	Killed	Injured	Illness
IV.-- (CONT.)			
CLASSIFIED LABORERS(SHOPS, ENGINE HOUSES, ETC).....	---	447	12
GENERAL LABORERS(SHOP, ENGINE HOUSES, ETC).....	1	965	31
GENERAL LABORERS(STORES AND ICE, RECLAMATION, ETC)..	---	364	13
STATIONARY ENGINEERS(STEAM).....	---	9	1
STATIONARY FIREMEN, OILERS, COAL PASSERS, AND ETC..	---	22	1
Subtotal.....	8	15,292	402
V.--TRANSPORTATION			
CHIEF TRAIN DISPATCHERS.....	---	4	---
TRAIN DISPATCHERS.....	---	11	---
TRAIN DIRECTORS.....	---	3	---
STATION AGENTS(SUPERVISORY, MAJOR STATIONS).....	---	8	---
STATION AGENTS(SMALLER STATIONS, NONTELEGRAPHERS)..	---	21	1
STATION AGENTS(TELEGRAPHERS AND TELEPHONERS).....	---	22	---
CHIEF TELEGRAPHERS AND TELEPHONERS OR WIRE CHIEFS..	---	3	---
CLERK-TELEGRAPHERS AND CLERK-TELEPHONERS.....	---	76	3
TELEGRAPHERS, TELEPHONERS, AND TOWERMEN.....	---	79	6
STATIONMASTERS AND ASSISTANTS.....	---	8	---
SUPERVISING BAGGAGE AGENTS.....	---	2	---
BAGGAGE AGENTS AND ASSISTANTS.....	---	8	---
BAGGAGE, PARCEL ROOM, AND STATION ATTENDANTS.....	---	77	1
GENERAL FOREMEN(FREIGHT STATIONS, WAREHOUSES, ETC)..	---	2	---
ASST. GENERAL FOREMAN(FRT STATIONS, WAREHOUSES)....	---	---	---
GANG FOREMEN(FREIGHT STATION, WAREHOUSE, ETC).....	---	14	---
CALLERS, LOADERS, SEALERS, SCALERS, ETC.....	---	26	---
TRUCKERS(STATIONS, WAREHOUSES, AND PLATFORMS).....	---	49	1
LABORERS(COAL AND ORE DOCKS AND GRAIN ELEVATORS)....	---	87	3
COMMON LABORERS(STATIONS, WAREHOUSES, PLATFORMS)...	---	207	---
STEWARDS, RESTAURANT & LODGING-HOUSE MANAGERS, ETC.	---	50	3
CHEFS AND COOKS(RESTAURANTS OR DINING CARS).....	---	102	12
WAITERS, CAMP COOKS, KITCHEN HELPERS, ETC.....	1	106	5
OFFICERS, WORKERS, ATT'ANTS ON BARGES, LAUNCHES....	1	34	---
TRANSPORTATION AND DINING-SERVICE INSPECTORS.....	---	4	---
PARLOR AND SLEEPING CARD CONDUCTORS.....	---	---	---
TRAIN ATTENDANTS.....	---	331	10
BRIDGE OPERATORS AND HELPERS.....	---	17	1
CROSSING AND BRIDGE FLAGMEN AND GATEMEN.....	---	8	---
FOREMEN(LAUNDRY)AND LAUNDRY WORKERS.....	---	---	---
Subtotal.....	2	1,359	46
VI.--(a)TRANSPORTATION			
YARDMASTERS.....	---	101	3
ASSISTANT YARDMASTERS.....	---	3	---
SWITCH TENDERS.....	2	34	---
OUTSIDE HOSTLERS.....	---	204	4
INSIDE HOSTLERS.....	---	29	---
OUTSIDE HOSTLERS HELPERS.....	---	63	---
Subtotal.....	2	434	7
VI.--(b)TRANSPORTATION(train and engine)			
ROAD PASSENGER CONDUCTORS.....	---	216	2
ASSIST ROAD PASSENGER CONDUCTORS & TICKET COLLECTO.	---	186	6
ROAD FREIGHT CONDUCTORS(THROUGH FREIGHT).....	4	972	22
ROAD FREIGHT CONDUCTORS(LOCAL AND WAY FREIGHT)....	3	777	18
ROAD PASSENGER BAGGAGEMEN.....	---	27	---
ROAD PASSENGER BRAKEMEN AND FLAGMEN.....	---	200	3
ROAD FREIGHT BRAKEMEN AND FLAGMEN(THROUGH FREIGHT)..	13	2,480	57
ROAD FREIGHT BRAKEMEN AND FLAGMEN(LOCAL & WAY FRGH.	7	2,469	44
YARD CONDUCTORS AND YARD FOREMEN.....	5	1,396	30
YARD BRAKEMEN AND YARD HELPERS.....	14	5,918	106
ROAD PASSENGER ENGINEERS AND MOTORMEN.....	---	151	18
ROAD FREIGHT ENGINEERS AND MOTORMEN(THROUGH FRGHT)..	5	606	21
ROAD FREIGHT ENGINEERS & MOTORMEN(LOCAL & WAY FRGH.	---	439	10
YARD ENGINEERS AND MOTORMEN.....	1	742	39
ROAD PASSENGER FIREMEN AND HELPERS.....	---	67	9
ROAD FREIGHT FIREMEN AND HELPERS(THROUGH FREIGHT)..	2	171	5
ROAD FREIGHT FIREMEN & HELPERS(LOCAL & WAY FRGHT)..	---	77	1
YARD FIREMEN AND HELPERS.....	---	146	5
Subtotal.....	54	17,040	396
TOTAL.....	97	54,644	1,687



10/10/2020

TABLE S26. EMPLOYEE ON DUTY CASUALTIES FOR CLASS I LINE HAUL RAILROADS BY JOB CATEGORY

..... Class I Railroads (Line-Haul)																
Kld	Total			Man Hours (000)	Casualties per mill man-hrs			Train Accidents			Train Incidents			Nontrain Incidents		
	Inj	Ill			Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill
I.--EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS																
EXECUTIVE, GENERAL OFFICERS, AND ASSISTANTS.....	1	14	---	12,279	.08	1.14	---	---	---	---	1	4	---	---	10	---
DIVISION OFFICERS, ASSISTANTS, AND STAFF ASSISTANT.	3	92	4	24,972	.12	3.68	.16	---	---	---	1	8	---	2	84	4
Subtotal.....	4	106	4	37,251	.11	2.85	.11	---	---	---	2	12	---	2	94	4
II.--PROFESSIONAL, CLERICAL, AND GENERAL																
PROFESSIONAL AND SUBPROFESSIONAL ASSISTANTS.....	1	74	8	21,023	.05	3.52	.38	---	---	---	---	1	---	1	73	8
SUPERVISORY OR CHIEF CLERKS(MAJOR DEPARTMENTS).....	---	32	1	4,416	---	7.25	.23	---	---	---	---	---	---	---	32	1
CHIEF CLERKS(MINOR DEPARTMENTS)AND ASSISTANTS.....	---	28	1	14,485	---	1.93	.07	---	---	---	---	1	---	---	27	1
CLERKS AND CLERICAL SPECIALISTS.....	---	86	---	13,983	---	6.15	---	---	---	---	---	---	---	---	86	---
CLERKS.....	---	847	21	78,498	---	10.79	.27	---	---	1	---	13	1	---	834	19
MECHANICAL DEVICE OPERATORS (OFFICE).....	---	24	1	7,307	---	3.28	.14	---	---	---	---	---	---	---	24	1
STENOGRAPHERS AND SECRETARIES.....	---	16	1	5,366	---	2.98	.19	---	---	---	---	---	---	---	16	1
STENOGRAPHERS AND TYPISTS.....	---	15	---	7,808	---	1.92	---	---	---	---	---	---	---	---	15	---
STOREKEEPERS, SALES AGENTS, AND BUYERS.....	---	25	1	2,943	---	8.49	.34	---	---	---	---	1	---	---	24	1
TICKET AGENTS AND ASSISTANT TICKET AGENTS.....	---	47	2	272	---	172.79	7.35	---	---	---	---	3	---	---	44	2
TRAVELING AUDITORS OR ACCOUNTANTS.....	---	2	---	1,125	---	1.78	---	---	---	---	---	1	---	---	1	---
TELEPHONE SWITCHBOARD OPERATORS AND OFFICE ASSIST..	---	8	1	1,166	---	6.86	.86	---	---	---	---	---	---	---	8	1
MESSENGERS AND OFFICE BOYS.....	1	28	---	911	1.10	30.74	---	---	---	---	---	---	---	1	28	---
ELEVATOR OPERATORS AND OTHER OFFICE ATTENDANTS.....	---	11	---	151	---	72.85	---	---	---	---	---	---	---	---	11	---
LIEUTENANTS AND SERGEANTS OF POLICE.....	---	55	---	2,355	---	23.35	---	---	---	---	---	---	---	---	55	---
PATROLMEN AND WATCHMEN.....	---	325	7	4,462	---	72.84	1.57	---	---	---	---	11	---	---	314	7
TRAFFIC AND VARIOUS OTHER AGENTS, INSPECTORS, ETC..	---	20	---	9,011	---	2.22	---	---	---	---	---	1	---	---	19	---
CLAIM AGENTS OR INVESTIGATORS.....	---	11	---	1,355	---	8.12	---	---	---	---	---	---	---	---	11	---
FREIGHT CLAIM AGENTS OR INVESTIGATORS.....	---	6	---	746	---	8.04	---	---	---	---	---	---	---	---	6	---
CHIEF CLAIM AGENTS OR INVESTIGATORS.....	---	4	---	326	---	12.27	---	---	---	---	---	---	---	---	4	---
MISCELLANEOUS TRADE WORKERS(OTHER THAN PLUMBERS)...	---	41	2	165	---	248.48	12.12	---	---	---	---	1	---	---	40	2
MOTOR VEHICLE AND MOTOR CAR OPERATORS.....	1	451	11	10,387	.10	43.42	1.06	---	---	---	1	10	---	---	441	11
TEAMSTERS AND STABLEMEN.....	---	1	---	327	---	3.06	---	---	---	---	---	---	---	---	1	---
JANITORS AND CLEANERS.....	---	126	2	3,179	---	39.64	.63	---	---	---	---	1	---	---	125	2
Subtotal.....	3	2,283	59	191,767	.02	11.91	.31	---	---	1	1	44	1	2	2,239	57
III.--MAINTENANCE OF WAY AND STRUCTURE																
ROADMASTERS, GENERAL FOREMAN, AND ASSISTANTS.....	---	136	5	6,860	---	19.83	.73	---	---	---	---	10	---	---	126	5
MAINTENANCE OF WAY AND SCALE INSPECTORS.....	1	65	5	2,672	.37	24.33	1.87	---	3	---	1	10	---	---	52	5
BRIDGE AND BUILDING GANG FOREMEN(SKILLED LABOR)....	1	150	6	3,938	.25	38.09	1.52	---	---	---	---	2	---	1	148	6
BRIDGE AND BUILDING CARPENTERS.....	4	833	44	8,079	.50	103.11	5.45	---	---	---	2	9	---	2	824	44
BRIDGE AND BUILDING IRONWORKERS.....	---	74	1	820	---	90.24	1.22	---	---	---	---	1	---	---	73	1
BRIDGE AND BUILDING PAINTERS.....	---	52	3	616	---	84.42	4.87	---	---	---	---	---	---	---	52	3
MASONS, BRICKLAYERS, PLASTERERS, AND PLUMBERS.....	1	439	13	6,158	.16	71.29	2.11	---	---	---	---	8	---	1	431	13
MAINTENANCE OF WAY/STRUCTURE HELPERS & ASSISTANTS..	1	457	16	4,961	.20	92.12	3.23	---	---	---	---	9	---	1	448	16
PORTABLE STEAM EQUIPMENT OPERATORS.....	1	1,396	61	26,276	.04	53.13	2.32	---	---	---	---	100	5	1	1,293	56
PORTABLE STEAM EQUIPMENT OPERATOR HELPERS.....	1	35	---	523	1.91	66.92	---	---	---	---	1	2	---	---	33	---
PUMPING EQUIPMENT OPERATORS.....	---	12	1	76	---	157.89	13.16	---	---	---	---	---	---	---	12	1
GANG FOREMEN(EXTRA GANG AND WORK-TRAIN LABORERS)...	---	211	4	7,598	---	27.77	.53	---	---	---	---	6	---	---	205	4
GANG FOREMEN(BRIDGE AND BUILDING, SIGNAL ETC).....	---	31	2	105	---	295.24	19.05	---	---	---	---	2	---	---	29	2
GANG OR SECTION FOREMEN.....	1	935	41	15,400	.06	60.71	2.66	---	---	---	1	43	---	---	891	41
EXTRA GANG MEN.....	1	3,086	80	22,869	.04	134.94	3.50	---	---	---	---	96	1	1	2,989	79
SECTION MEN.....	5	6,201	323	41,110	.12	150.84	7.86	1	1	---	3	221	---	1	5,979	323
MAINTENANCE OF WAY LABORERS(OTHER THAN TRACK/RDWAY).	---	183	5	422	---	433.65	11.85	---	---	---	---	6	---	---	176	5
GENERAL & ASS'T GEN FOREMEN/INSPECTORS (SIGNAL,ETC).	---	51	2	3,537	---	14.42	.57	---	---	---	---	2	---	---	49	2
GANG FOREMEN(SIGNAL AND TELEGRAPH SKILLED TRADES).	---	70	3	3,585	---	19.53	.84	---	---	---	---	---	---	---	69	3
SIGNALMEN AND SIGNAL MAINTAINERS.....	---	846	46	14,979	---	56.48	3.07	---	---	---	---	13	---	---	832	46
LINEMEN AND GROUND MEN.....	4	297	25	4,352	.92	68.24	5.74	---	---	---	1	4	---	3	293	25
ASSISTANT SIGNALMEN AND ASSISTANT SIGNAL MAINT.....	1	343	30	3,643	.27	94.15	8.23	---	---	---	---	6	---	1	337	30
SIGNALMEN AND SIGNAL MAINTAINER HELPERS.....	---	103	15	498	---	206.83	30.12	---	---	---	---	---	---	---	103	15
Subtotal.....	22	16,006	731	179,077	.12	89.38	4.08	1	12	---	9	550	6	12	15,444	725

TABLE S26.

Class of Person	Kid	Total Inj	Ill	Man Hours (000)
V.--TRANSPORTATION (CONT.)				
IV.--MAINTENANCE OF EQUIPMENT AND STORES				
GENERAL, ASSISTANT GENERAL, AND DEPARTMENT FOREMEN.	---	137	4	11,688
GENERAL AND ASSISTANT GENERAL FOREMEN(STORES).....	---	23	---	291
EQUIPMENT, SHOP, ELEC, MATERIAL, & SUPPLIES INSPTR.	1	126	7	917
GANG FOREMEN AND GANG LEADERS(SKILLED LABOR).....	---	177	10	12,297
BLACKSMITHS.....	---	168	8	1,872
BOILERMAKERS.....	---	309	17	3,061
CARMEN (A AND B).....	4	3,206	70	18,556
CARMEN (C AND D).....	1	2,679	52	53,740
ELECTRICAL WORKERS (A).....	---	1,134	48	21,353
ELECTRICAL WORKERS (B).....	---	51	3	1,646
ELECTRICAL WORKERS (C).....	---	13	---	329
MACHINISTS.....	---	2,514	60	33,211
MOLDERS.....	---	7	1	27
SHEET-METAL WORKERS.....	---	590	21	9,417
SKILLED TRADES HELPERS(M OF E AND STORES).....	---	422	11	4,609
HELPER APPRENTICES(M OF E AND STORES).....	---	72	4	511
REGULAR APPRENTICES(M OF E AND STORES).....	---	456	7	6,226
COACH CLEANERS.....	---	264	9	3,945
GANG FOREMEN(SHOPS, ENGINE HOUSES, & POWER PLANTS).	---	36	2	606
GANG FOREMEN(STORES AND ICE, RECLAMATION, ETC)....	---	17	---	742
CLASSIFIED LABORERS(SHOPS, ENGINE HOUSES, ETC)....	---	396	10	7,987
GENERAL LABORERS(SHOP, ENGINE HOUSES, ETC).....	1	899	30	7,662
GENERAL LABORERS(STORES AND ICE, RECLAMATION, ETC).	---	357	13	4,353
STATIONARY ENGINEERS(STEAM).....	---	8	1	581
STATIONARY FIRMEN, OILERS, COAL PASSERS, AND ETC..	---	19	1	335
Subtotal.....	7	14,080	389	205,962
V.--TRANSPORTATION				
CHIEF TRAIN DISPATCHERS.....	---	3	---	1,866
TRAIN DISPATCHERS.....	---	10	---	4,682
TRAIN DIRECTORS.....	---	1	---	431
STATION AGENTS(SUPERVISORY, MAJOR STATIONS).....	---	6	---	2,499
STATION AGENTS(SMALLER STATIONS, NONTELEGRAPHERS)..	---	21	1	2,900
STATION AGENTS(TELEGRAPHERS AND TELEPHONERS).....	---	19	---	5,076
CHIEF TELEGRAPHERS AND TELEPHONERS OR WIRE CHIEFS..	---	3	---	1,247
CLERK-TELEGRAPHERS AND CLERK-TELEPHONERS.....	---	70	3	5,915
TELEGRAPHERS, TELEPHONERS, AND TOWERMEN.....	---	73	5	10,026
STATIONMASTERS AND ASSISTANTS.....	---	8	---	165
SUPERVISING BAGGAGE AGENTS.....	---	2	---	20
BAGGAGE AGENTS AND ASSISTANTS.....	---	7	---	51
BAGGAGE, PARCEL ROOM, AND STATION ATTENDANTS.....	---	76	1	1,682
GENERAL FOREMEN(FREIGHT STATIONS, WAREHOUSES, ETC).	---	1	---	137
ASST. GENERAL FOREMAN(FRT STATIONS, WAREHOUSES)....	---	---	---	101
GANG FOREMEN(FREIGHT STATION, WAREHOUSE, ETC).....	---	11	---	332
CALLERS, LOADERS, SEALERS, SCALERS, ETC.....	---	24	---	464
TRUCKERS(STATIONS, WAREHOUSES, AND PLATFORMS).....	---	42	1	317
LABORERS(COAL AND ORE DOCKS AND GRAIN ELEVATORS)...	---	77	3	1,289
COMMON LABORERS(STATIONS, WAREHOUSES, PLATFORMS)...	---	103	---	596
STEWARDS, RESTAURANT & LODGING-HOUSE MANAGERS, ETC.	---	50	3	338
CHEFS AND COOKS(RESTAURANTS OR DINING CARS).....	---	102	12	1,022
WAITERS, CAMP COOKS, KITCHEN HELPERS, ETC.....	1	106	5	4,060
OFFICERS, WORKERS, ATT'ANTS ON BARGES, LAUNCHES....	1	23	---	594
TRANSPORTATION AND DINING-SERVICE INSPECTORS.....	---	4	---	364
PARLOR AND SLEEPING CARD CONDUCTORS.....	---	---	---	---
TRAIN ATTENDANTS.....	---	265	10	2,084

CONTINUED

..... Class I Railroads (Line-Haul)											
Casualties per mill man-hrs			Train Accidents			Train Incidents			Nontrain Incidents		
Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill
---	11.72	.34	---	1	---	---	5	---	---	131	4
---	79.04	---	---	---	---	---	1	---	---	22	---
.09	137.40	7.63	---	1	---	---	3	---	1	122	7
---	14.39	.81	---	2	---	---	4	---	---	171	10
---	89.74	4.27	---	---	---	---	---	---	---	168	8
---	100.95	5.55	---	---	---	---	2	---	---	307	17
.22	172.77	3.77	1	1	---	1	44	---	2	3,161	70
.02	49.85	.97	---	8	---	1	50	---	---	2,621	52
---	53.11	2.25	---	4	---	---	29	---	---	1,101	48
---	30.98	1.82	---	1	---	---	1	---	---	49	3
---	39.51	---	---	---	---	---	---	---	---	13	---
---	75.70	1.81	---	1	---	---	36	---	---	2,477	60
---	259.26	37.04	---	---	---	---	1	---	---	6	1
---	62.65	2.23	---	---	---	---	2	---	---	588	21
---	91.56	2.39	---	---	---	---	9	---	---	413	11
---	140.90	7.83	---	---	---	---	3	---	---	69	4
---	73.24	1.12	---	---	---	---	7	---	---	449	7
---	66.92	2.28	---	---	---	---	6	---	---	258	9
---	59.41	3.30	---	1	---	---	2	---	---	33	2
---	22.91	---	---	---	---	---	---	---	---	17	---
---	49.58	1.25	---	---	---	---	14	---	---	382	10
.13	117.33	3.92	---	3	---	---	19	---	1	877	30
---	82.01	2.99	---	---	---	---	5	---	---	352	13
---	13.77	1.72	---	---	---	---	---	---	---	8	1
---	56.72	2.99	---	---	---	---	---	---	---	19	1
.03	68.36	1.89	1	23	---	2	243	---	4	13,814	389
---	1.61	---	---	---	---	---	---	---	---	3	---
---	2.14	---	---	---	---	---	1	---	---	9	---
---	2.32	---	---	---	---	---	---	---	---	1	---
---	2.40	---	---	---	---	---	---	---	---	6	---
---	7.24	.34	---	---	---	---	---	---	---	21	1
---	3.74	---	---	---	---	---	1	---	---	18	---
---	2.41	---	---	---	---	---	---	---	---	3	---
---	11.83	.51	---	---	---	---	1	---	---	69	3
---	7.28	.50	---	1	---	---	1	---	---	71	5
---	48.48	---	---	---	---	---	---	---	---	8	---
---	100.00	---	---	---	---	---	---	---	---	2	---
---	137.25	---	---	---	---	---	2	---	---	5	---
---	45.18	.59	---	---	---	---	8	1	---	68	---
---	7.30	---	---	---	---	---	---	---	---	1	---
---	33.13	---	---	---	---	---	---	---	---	11	---
---	51.72	---	---	---	---	---	---	---	---	24	---
---	132.49	3.15	---	---	---	---	---	---	---	42	1
---	59.74	2.33	---	---	---	---	2	---	---	75	3
---	172.82	---	---	---	---	---	3	---	---	100	---
---	147.93	8.88	---	9	---	---	16	1	---	25	2
---	99.80	11.74	---	14	---	---	49	9	---	39	3
.25	26.11	1.23	1	11	---	---	21	4	---	74	1
.68	38.72	---	---	---	---	---	3	---	1	20	---
---	10.99	---	---	---	---	---	2	---	---	2	---
---	---	---	---	---	---	---	---	---	---	---	---
---	127.16	4.80	---	48	---	---	108	3	---	109	7

TABLE S26.

Class of Person	Kld	Total Inj	Ill	Man Hours (000)
V.--TRANSPORTATION (CONT.)				
BRIDGE OPERATORS AND HELPERS.....	---	10	1	1,273
CROSSING AND BRIDGE FLAGMEN AND GATEMEN.....	---	8	---	810
FOREMEN(LAUNDRY)AND LAUNDRY WORKERS.....	---	---	---	2
Subtotal.....	2	1,125	45	50,343
VI.--(a)TRANSPORTATION				
YARDMASTERS.....	---	87	3	9,185
ASSISTANT YARDMASTERS.....	---	2	---	327
SWITCH TENDERS.....	2	32	---	544
OUTSIDE HOSTLERS.....	---	183	4	3,545
INSIDE HOSTLERS.....	---	26	---	1,723
OUTSIDE HOSTLERS HELPERS.....	---	55	---	1,338
Subtotal.....	2	385	7	16,662
VI.--(b)TRANSPORTATION(train and engine)				
ROAD PASSENGER CONDUCTORS.....	---	213	2	3,275
ASSIST ROAD PASSENGER CONDUCTORS & TICKET COLLECTO.	---	185	6	2,508
ROAD FREIGHT CONDUCTORS(THROUGH FREIGHT).....	4	933	21	17,943
ROAD FREIGHT CONDUCTORS(LOCAL AND WAY FREIGHT).....	2	703	17	14,241
ROAD PASSENGER BAGGAGEMEN.....	---	24	---	395
ROAD PASSENGER BRAKEMEN AND FLAGEMEN.....	---	190	3	2,460
ROAD FREIGHT BRAKEMEN AND FLAGMEN(THROUGH FREIGHT)..	13	2,426	57	35,232
ROAD FREIGHT BRAKEMEN AND FLAGMEN(LOCAL & WAY FRGH.	5	2,281	44	27,278
YARD CONDUCTORS AND YARD FOREMEN.....	4	1,142	28	26,092
YARD BRAKEMEN AND YARD HELPERS.....	14	5,073	99	48,025
ROAD PASSENGER ENGINEERS AND MOTORMEN.....	---	145	18	3,359
ROAD FREIGHT ENGINEERS AND MOTORMEN(THROUGH FRGHT)..	5	586	21	19,570
ROAD FREIGHT ENGINEERS & MOTORMEN(LOCAL & WAY FRGH.	---	402	10	13,635
YARD ENGINEERS AND MOTORMEN.....	---	626	31	24,243
ROAD PASSENGER FIREMEN AND HELPERS.....	---	67	9	1,543
ROAD FREIGHT FIREMEN AND HELPERS(THROUGH FREIGHT)..	2	171	5	5,786
ROAD FREIGHT FIREMEN & HELPERS(LOCAL & WAY FRGHT)..	---	69	1	3,311
YARD FIREMEN AND HELPERS.....	---	127	5	4,858
Subtotal.....	49	15,363	377	253,754
TOTAL.....	89	49,348	1,612	934,816

(CONTINUED)

..... Class I Railroads (Line-Haul)

Casualties per mill man-hrs			Train Accidents			Train Incidents			Nontrain Incidents		
Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill
---	7.86	.79	---	---	---	---	---	---	---	10	1
---	9.88	---	---	---	---	---	1	---	---	7	---
---	---	---	---	---	---	---	---	---	---	---	---
.04	22.35	.89	1	83	---	---	219	18	1	823	27
---	9.47	.33	---	---	---	---	9	---	---	78	3
---	6.12	---	---	---	---	---	---	---	---	2	---
3.68	58.82	---	---	---	---	2	11	---	---	21	---
---	51.62	1.13	---	3	---	---	24	1	---	156	3
---	15.09	---	---	---	---	---	2	---	---	24	---
---	41.11	---	---	1	---	---	8	---	---	46	---
.12	23.11	.42	---	4	---	2	54	1	---	327	6
---	65.04	.61	---	15	---	---	88	---	---	110	2
---	73.76	2.39	---	7	---	---	80	1	---	98	5
.22	52.00	1.17	3	52	3	1	522	9	---	359	9
.14	49.36	1.19	1	33	---	1	325	10	---	345	7
---	60.76	---	---	2	---	---	10	---	---	12	---
---	77.24	1.22	---	9	---	---	77	1	---	104	2
.37	68.86	1.62	9	112	7	3	1,073	22	1	1,241	28
.18	83.62	1.61	---	36	---	4	972	26	1	1,273	18
.15	43.77	1.07	1	9	---	3	419	14	---	714	14
.29	105.63	2.06	1	33	3	12	1,979	34	1	3,061	62
---	43.17	5.36	---	10	1	---	52	10	---	83	7
.26	29.94	1.07	5	52	1	---	235	9	---	299	11
---	29.48	.73	---	19	---	---	180	7	---	203	3
---	25.82	1.28	---	24	2	---	241	21	---	361	8
---	43.42	5.83	---	6	---	---	36	7	---	25	2
.35	29.55	.86	2	16	---	---	70	2	---	85	3
---	20.84	.30	---	---	---	---	33	1	---	36	---
---	26.14	1.03	---	1	---	---	49	3	---	77	2
.19	60.54	1.49	22	436	17	24	6,441	177	3	8,486	183
.10	52.79	1.72	25	558	18	40	7,563	203	24	41,227	1,391

TABLE S20. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	---	---	1	---	---	---	18	19
Derailments.....	---	---	---	1	---	---	7	8
Miscellaneous.....	---	---	---	---	1	---	---	1
Total.....	---	---	1	1	1	---	25	28
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	1	5	6
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	2	2
Operating locomotives.....	---	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	2	---	---	---	---	2
Operating hand brakes.....	---	---	---	---	---	---	2	2
Operating switches.....	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	2	2
Getting on or off cars or locomotives.....	---	---	---	---	---	---	1	1
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	---	1	---	---	---	4	5
Struck by/ran into locos/cars(not at public x-ing.	1	1	3	1	---	1	5	12
Servicing or maintenance of equipment.....	1	---	---	1	---	---	---	2
Maintenance of way and structures.....	---	---	3	---	---	---	---	3
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---
Windows, doors, etc.....	---	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	1	---	---	3	4
Flying or falling objects, burns, etc., N.O.C.....	---	---	---	---	---	---	---	---
Operation of on-track work equipment.....	---	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	1	1
Other occurrences.....	---	---	---	---	---	---	1	1
Total.....	2	1	9	3	---	2	26	43
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	---	---
Operating locomotives.....	---	---	---	---	---	---	---	---
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---	---
Operating switches.....	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	---	---
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing.	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	1	2	---	---	---	3
Maintenance of way and structures.....	---	---	10	---	---	---	---	10
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---
Windows, doors, etc.....	---	---	---	1	---	---	---	1
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	1	---	1	---	---	2
Flying or falling objects, burns, etc., N.O.C.....	---	1	---	---	---	---	---	1
Operation of on-track work equipment.....	---	---	---	---	---	---	---	---
Assault.....	---	---	---	---	---	---	---	---
Other occurrences.....	2	1	2	1	---	---	3	9
Total.....	2	2	14	4	1	---	3	26
Grand total.....	4	3	24	8	2	2	54	97

KEY: 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 S21. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	1	---	6	15	32	4	207	265
Derailments.....	---	---	1	---	49	---	186	236
Miscellaneous.....	---	1	9	8	3	---	73	94
Total.....	1	1	16	23	84	4	466	595
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	1	1	6	2	4	439	453
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	1	---	---	82	83
Operating locomotives.....	3	1	1	5	---	12	705	727
Operating rail motorcars.....	---	1	49	3	1	---	7	61
Operating hand brakes.....	---	---	2	3	---	3	247	255
Operating switches.....	---	---	---	1	---	2	50	53
Contacting fixed objects while on locos or cars...	1	2	1	2	---	3	145	154
Getting on or off cars or locomotives.....	2	5	20	15	6	11	1,992	2,051
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	5	30	8	7	5	256	311
Struck by/ran into locos/cars(not at public x-ing.	1	5	13	4	1	3	88	115
Servicing or maintenance of equipment.....	1	3	5	159	5	1	3	177
Maintenance of way and structures.....	---	3	218	7	---	---	2	230
Freight, baggage, express or mail.....	---	3	1	2	16	---	14	36
Windows, doors, etc.....	---	---	5	10	33	1	178	227
Passenger car doors.....	---	1	---	---	2	---	4	7
Stumbling, slipping, falling, caught, N.O.C.....	---	6	15	16	90	3	494	624
Flying or falling objects, burns, etc., N.O.C.....	3	4	9	5	34	8	1,141	1,204
Operation of on-track work equipment.....	1	3	231	9	1	---	20	265
Assault.....	---	1	---	1	5	1	201	209
Other occurrences.....	2	14	14	17	71	4	980	1,102
Total.....	14	58	615	274	274	61	7,048	8,344
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	1	3	3	37	7	13	1,075	1,139
Coupling/uncoupling air/steam hose, safety chains..	---	2	7	76	2	7	374	468
Operating locomotives.....	---	3	2	15	---	14	411	445
Operating rail motorcars.....	---	---	146	4	1	---	6	157
Operating hand brakes.....	---	1	5	24	1	14	691	736
Operating switches.....	1	6	33	38	13	49	1,738	1,878
Contacting fixed objects while on locos or cars...	---	1	---	2	1	1	19	24
Getting on or off cars or locomotives.....	1	71	65	308	24	50	1,552	2,071
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing.	---	---	1	2	---	---	9	12
Servicing or maintenance of equipment.....	17	228	569	12,254	145	67	55	13,335
Maintenance of way and structures.....	24	430	14,858	816	56	4	33	16,221
Freight, baggage, express or mail.....	1	74	4	20	182	1	11	293
Windows, doors, etc.....	1	72	65	243	61	8	242	692
Passenger car doors.....	---	---	---	2	4	---	2	8
Stumbling, slipping, falling, caught, N.O.C.....	24	767	420	632	293	95	1,891	4,122
Flying or falling objects, burns, etc., N.O.C.....	6	159	132	150	60	23	769	1,299
Operation of on-track work equipment.....	---	3	146	20	---	---	---	169
Assault.....	4	99	35	20	17	1	90	266
Other occurrences.....	28	577	719	332	134	22	558	2,370
Total.....	108	2,496	17,210	14,995	1,001	369	9,526	45,705
Grand total.....	123	2,555	17,841	15,292	1,359	434	17,040	54,644

KEY: 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 S21A. LOST WORKDAYS RESULTING FROM NON-FATAL INJURIES TO EMPLOYEES ON DUTY

Type of Occurrence	Total Cases	Cases Involving Lost And/Or Restricted Workdays			Total Cases	Other Cases	
		Total Cases	Lost WD Cases	Restr Wd Cases			
TRAIN ACCIDENTS							
Collisions.....	265	236	233	3	7,302	42	29
Derailments.....	236	223	215	8	7,235	175	13
Miscellaneous.....	94	86	83	3	2,736	25	8
Total.....	595	545	531	14	17,273	242	50
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	453	393	370	23	7,456	322	60
Coupling/uncoupling air/steam hose, safety chains.	83	61	57	4	1,399	17	22
Operating locomotives.....	727	476	448	28	5,518	193	251
Operating rail motorcars.....	61	35	34	1	553	19	26
Operating hand brakes.....	255	223	214	9	4,632	141	32
Operating switches.....	53	39	38	1	1,103	4	14
Contacting fixed objects while on locos or cars..	154	135	128	7	2,417	77	19
Getting on or off cars or locomotives.....	2,051	1,822	1,722	100	30,756	1,941	229
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).....	311	255	245	10	5,237	145	56
Struck by/ran into locos/cars(not at public x-ing.....	115	96	93	3	3,479	34	19
Servicing or maintenance of equipment.....	177	125	102	23	2,232	272	52
Maintenance of way and structures.....	230	166	133	33	3,618	274	64
Freight, baggage, express or mail.....	36	29	27	2	373	7	7
Windows, doors, etc.....	227	178	171	7	2,625	113	49
Passenger car doors.....	7	6	6	---	131	---	1
Stumbling, slipping, falling, caught, N.O.C.....	624	505	480	25	11,031	317	119
Flying or falling objects, burns, etc., N.O.C....	1,204	640	593	47	3,669	216	564
Operation of on-track work equipment.....	265	181	158	23	2,581	232	84
Assault.....	209	168	164	4	2,260	15	41
Other occurrences.....	1,102	891	858	33	16,124	434	211
Total.....	8,344	6,424	6,041	383	107,194	4,773	1,920
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars.....	1,139	944	866	78	14,368	1,094	195
Coupling/uncoupling air/steam hose, safety chains.	468	351	320	31	3,766	397	117
Operating locomotives.....	445	314	298	16	5,198	140	131
Operating rail motorcars.....	157	112	93	19	1,097	108	45
Operating hand brakes.....	736	603	551	52	9,930	689	133
Operating switches.....	1,878	1,580	1,452	128	23,151	1,819	298
Contacting fixed objects while on locos or cars..	24	15	15	---	185	---	9
Getting on or off cars or locomotives.....	2,071	1,729	1,582	147	24,632	2,067	342
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).....	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing.....	12	9	9	---	327	---	3
Servicing or maintenance of equipment.....	13,335	7,524	5,895	1,629	82,931	15,808	5,811
Maintenance of way and structures.....	16,221	9,507	7,558	1,949	108,670	19,339	6,714
Freight, baggage, express or mail.....	293	231	221	10	2,452	198	62
Windows, doors, etc.....	692	455	400	55	5,046	806	237
Passenger car doors.....	8	6	6	---	66	---	2
Stumbling, slipping, falling, caught, N.O.C.....	4,122	3,270	3,036	234	49,013	3,108	852
Flying or falling objects, burns, etc., N.O.C....	1,299	608	555	53	4,970	277	691
Operation of on-track work equipment.....	169	99	82	17	1,851	124	70
Assault.....	266	201	196	5	2,933	40	65
Other occurrences.....	2,370	1,374	1,263	111	20,930	1,528	996
Total.....	45,705	28,932	24,398	4,534	361,516	47,542	16,773
Grand total.....	54,644	35,901	30,970	4,931	485,983	52,557	18,743

TABLE S22. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions.....	---	1	---	---	---	---	3	4
Derailments.....	---	---	---	---	---	---	6	6
Miscellaneous.....	---	---	---	---	---	---	8	8
Total.....	---	1	---	---	---	---	17	18
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	---	---
Operating locomotives.....	---	---	---	---	---	1	47	48
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	---	---
Operating switches.....	---	---	---	---	---	---	2	2
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	4	4
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	---	---	---	---	---	1	1
Struck by/ran into locos/cars(not at public x-ing.	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	---	---	---	---	---	---	---
Maintenance of way and structures.....	---	---	---	---	---	---	---	---
Freight, baggage, express or mail.....	---	---	---	---	---	---	---	---
Windows, doors, etc.....	---	---	---	---	---	---	---	---
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	---	---	---	---	---	---	1	1
Flying or falling objects, burns, etc., N.O.C.....	---	1	---	---	15	---	115	131
Operation of on-track work equipment.....	---	---	6	---	---	---	---	6
Assault.....	---	---	---	---	---	---	---	---
Other occurrences.....	---	---	---	---	3	---	10	13
Total.....	---	1	6	---	18	1	181	207
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars.....	---	---	---	---	---	---	2	2
Coupling/uncoupling air/steam hose, safety chains..	---	---	---	---	---	---	1	1
Operating locomotives.....	---	1	2	2	---	1	32	38
Operating rail motorcars.....	---	---	---	---	---	---	---	---
Operating hand brakes.....	---	---	---	---	---	---	2	2
Operating switches.....	---	---	---	---	---	---	8	8
Contacting fixed objects while on locos or cars...	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives.....	---	---	---	---	---	---	1	1
Collision/derailment/rr-hwy x-ing, etc(<= \$2,900).	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing.	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment.....	---	3	14	329	3	1	3	353
Maintenance of way and structures.....	2	11	647	31	3	---	2	696
Freight, baggage, express or mail.....	---	---	---	---	1	---	---	1
Windows, doors, etc.....	---	---	---	1	---	---	1	2
Passenger car doors.....	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C.....	1	1	---	2	---	---	4	8
Flying or falling objects, burns, etc., N.O.C.....	1	27	8	6	15	2	102	161
Operation of on-track work equipment.....	---	---	2	---	---	---	1	3
Assault.....	---	---	---	---	---	---	---	---
Other occurrences.....	---	16	92	31	6	2	39	186
Total.....	4	59	765	402	28	6	198	1,462
Grand total.....	4	61	771	402	46	7	396	1,687

KEY: 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 R15. SUMMARY OF NON-FATAL EMPLOYEE ON DUTY INJURIES DUE TO ASSAULT, 1980

Railroad	.....Struck By Thrown Or Otherwise.....				...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.....	---	1	---	---	---	---	1
Amtrak.....	1	1	1	---	7	43	53
Atchison, Topeka And Santa Fe Rwy Co.....	---	6	---	---	2	2	10
Baltimore And Ohio Railroad Co.....	13	3	---	2	---	5	23
Bessemer And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Boston And Maine Corporation.....	7	---	---	---	---	1	8
Burlington Northern Incorporated.....	1	2	---	3	1	3	10
Central Of Georgia Railroad Company.....	1	1	---	---	---	---	2
Chesapeake And Ohio Railway Company.....	3	2	---	1	---	1	7
Chicago And Northwestern Transportation Co..	3	6	1	1	4	6	21
Chicago, Milw, St. Paul And Pacific RR Co...	3	3	---	---	---	---	6
Chicago, Rock Island And Pacific Railroad...	---	---	---	---	---	---	---
Cincinnati, New Orleans And Tx Pacific Co...	---	---	---	---	---	---	---
Clinchfield Railroad Company.....	---	---	---	---	---	---	---
Colorado And Southern Railway Co.....	---	---	---	---	---	---	---
Consolidated Rail Corporation.....	51	13	3	8	17	40	132
Delaware And Hudson Railway.....	---	---	---	---	---	---	---
Denver And Rio Grande Western RR Co.....	---	---	---	---	---	---	---
Detroit, Toledo And Ironton RR Co.....	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co.....	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.....	---	---	---	---	---	1	1
Florida East Coast Railway Co.....	---	---	---	---	---	1	1
Forth Worth And Denver Railroad Co.....	---	---	---	---	---	---	---
Grand Truck Western Railroad Co.....	1	2	---	---	---	---	3
Illinois Central Gulf Railroad Co.....	1	3	---	---	1	4	9
Kansas City Southern Railway Co.....	---	1	---	---	1	1	3
Long Island Railroad Company.....	4	---	7	1	16	21	49
Louisiana And Arkansas Rwy Company.....	---	1	---	---	---	---	1
Louisville And Nashville Railroad Co.....	---	7	---	---	---	2	9
Missouri Pacific Railroad Co.....	8	3	---	---	---	9	20
Missouri-Kansas-Texas Railroad Co.....	---	1	---	---	---	2	3
Norfolk And Western Railway Co.....	2	1	---	2	---	6	11
Pittsburg And Lake Erie Railroad Co.....	---	---	---	---	---	---	---
Seaboard Coast Line Railroad Co.....	---	5	---	---	---	1	6
Sooline Railroad Company.....	---	1	---	2	---	---	3
Southern Pacific-Transportation Co.....	12	9	1	---	---	12	34
Southern Railway Company.....	2	---	---	---	1	1	4
St. Louis Southwestern Railway Co.....	2	---	---	---	---	---	2
St. Louis-San Francisco Railway Co.....	---	---	---	---	---	5	5
Union Pacific Railroad Co.....	---	1	---	3	---	4	8
Western Maryland Railway Co.....	---	---	---	---	---	---	---
Western Pacific Railroad Co.....	---	1	---	---	---	---	1
TOTAL CLASS I RAILROADS.....	115	74	13	23	50	171	446
CLASS II RAILROADS							
Autotrain Corporation.....	---	---	---	---	---	---	---
Bangor And Aroostook Railroad Co.....	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine.....	---	---	---	---	---	---	---
Central Vermont Railway Inc.....	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.....	---	1	---	---	---	---	1
Chicago South Shore And South Bend RR.....	---	---	1	---	---	---	1
Detroit And Toledo Shore Line Railroad.....	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.....	---	---	---	---	---	---	---
Georgia Railroad Lessee Organization.....	---	---	---	---	---	---	---
Georgia Southern And Florida Railway.....	---	---	---	---	---	---	---
Green Bay And Western Railroad.....	---	---	---	---	---	---	---
Illinois Terminal Railroad.....	---	---	---	1	---	---	1
Lake Superior And Ishpeming Railroad Co....	---	---	---	---	---	---	---
Maine Central Railroad Company.....	---	---	---	---	---	---	---
Michigan Interstate Railroad (Ann Arbor)....	---	---	---	---	---	---	---
Norfolk Southern Railway Company.....	---	---	---	---	---	---	---
Northwestern Pacific Railroad.....	---	---	---	---	---	---	---
Richmond, Frederickburg And Potomac RR Co...	---	---	---	---	---	---	---
Texas, Mexican Railway Company.....	---	---	---	1	---	---	1
Toledo, Peoria And Western Railroad Co.....	---	---	---	---	---	---	---
TOTAL CLASS II RAILROADS.....	---	1	1	2	---	---	4
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS.....	115	74	13	23	50	171	446
CLASS II RAILROADS.....	---	1	1	2	---	---	4
CLASS III RAILROADS.....	6	---	---	6	---	13	25
TOTAL ALL RAILROADS.....	121	75	14	31	50	184	475

NOTE: In addition to the non-fatal cases summarized above, there was one fatality that resulted when a Louisville and Nashville Railroad Company flagman, while riding in a caboose, was shot by an assailant.

CASUALTIES IN TRAIN ACCIDENTS

TABLE S34. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

Cause	Total Killed	...Employees On Duty... Trainmen	Other	Emp Not On Duty Total	Passen- gers	Non-Tres- passers	Tres- passers
MISC CAUSES NOT OTHERWISE LISTED							
700 Collision with hwy user at grade xing..	68	---	---	---	---	61	7
704 Load shifted.....	1	1	---	1	---	---	---
707 Improperly loaded car.....	1	---	---	---	1	---	---
710 Equipment on or fouling track.....	1	1	---	1	---	---	---
799 Other miscellaneous causes.....	9	7	2	9	---	---	---
SUBTOTAL.....	80	9	2	11	1	61	7
GRAND TOTAL.....	80	9	2	11	1	61	7

TABLE S35. NON-FATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

Cause	Total Injured	...Employees On Duty... Trainmen	Other	Emp Not On Duty Total	Passen- gers	Non-Tres- passers	Tres- passers
MISC CAUSES NOT OTHERWISE LISTED							
700 Collision with hwy user at grade xing..	194	61	9	70	21	93	10
701 Emergency brk appl to avoid accident...	1	1	---	1	---	---	---
702 Vandalism.....	11	11	---	11	---	---	---
704 Load shifted.....	5	4	---	4	---	1	---
705 Load fell from car.....	2	2	---	2	---	---	---
707 Improperly loaded car.....	9	3	---	3	6	---	---
709 Object on or fouling track.....	4	3	1	4	---	---	---
710 Equipment on or fouling track.....	10	8	---	8	2	---	---
713 Interaction of lateral/vertical forces..	6	6	---	6	---	---	---
799 Other miscellaneous causes.....	31	28	1	29	1	1	---
SUBTOTAL.....	273	127	11	138	29	95	10
GRAND TOTAL.....	273	127	11	138	29	95	10

TABLE S28. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
BRAKES, USE OF								
504 Failure to apply sufficient hand brake.	1	1	---	1	---	---	---	---
506 Fail. to secure eng/car (Non R.R. emp).	1	1	---	1	---	---	---	---
SUBTOTAL.....	2	2	---	2	---	---	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS								
520 Fixed signal, failure to comply.....	6	6	---	6	---	---	---	---
SUBTOTAL.....	6	6	---	6	---	---	---	---
OTHER RULES AND INSTRUCTIONS								
536 Mtr car/on-trk eqp rules, fail to cmply.	1	---	1	1	---	---	---	---
539 Shoving movement, fail to control.....	2	2	---	2	---	---	---	---
SUBTOTAL.....	3	2	1	3	---	---	---	---
SWITCHES, USE OF								
561 Switch improperly lined.....	2	2	---	2	---	---	---	---
SUBTOTAL.....	2	2	---	2	---	---	---	---
GRAND TOTAL.....	13	12	1	13	---	---	---	---

**TABLE S29. NON-FATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY HUMAN FACTORS**

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
BRAKES, USE OF						
500 Automatic brake, improper use.....	7	7	---	7	---	---
501 Dynamic brake, improper use.....	1	1	---	1	---	---
502 Failure to secure engine (R.R. emp.)...	5	4	1	5	---	---
503 Failure to secure hnd brk (R.R. emp)...	4	2	2	4	---	---
504 Failure to apply sufficient hand brake.	10	10	---	10	---	---
506 Fail. to secure eng/car (Non R.R. emp).	1	1	---	1	---	---
507 Independent (eng.) brake, improper use.	1	1	---	1	---	---
509 Other causes involving use of brakes...	12	9	3	12	---	---
SUBTOTAL.....	41	35	6	41	---	---
EMPLOYEE PHYSICAL CONDITION						
513 Employee falling asleep.....	2	2	---	2	---	---
SUBTOTAL.....	2	2	---	2	---	---
FLAGGING, FIXED, HAND AND RADIO SIGNALS						
520 Fixed signal, failure to comply.....	109	38	27	65	44	---
521 Flagging, improper or failure to flag..	6	6	---	6	---	---
525 Hand signal, failure to give/receive...	1	1	---	1	---	---
526 Radio communication, failure to comply.	1	1	---	1	---	---
529 Flagging, fixed, hand & radio (other)..	1	1	---	1	---	---
SUBTOTAL.....	118	47	27	74	44	---
OTHER RULES AND INSTRUCTIONS						
530 Car(s) shoved out & left out of clear..	1	---	1	1	---	---
531 Cars left foul.....	3	3	---	3	---	---
532 Derail, failure to apply or remove....	1	1	---	1	---	---
533 Failure to stop train in clear.....	18	10	1	11	---	7
535 Instruction to trn/yard crew improper..	4	4	---	4	---	---
536 Mtr car/on-trk eqp rules,fail to emply.	9	2	7	9	---	---
537 Equip move without authority (RR emp)..	4	4	---	4	---	---
538 Shoving move, missing man at lead.....	15	11	4	15	---	---
539 Shoving movement, fail to control.....	14	13	1	14	---	---
541 Special op. instr., failure to comply..	6	5	1	6	---	---
542 Trn ord/timetable auth, fail to comply.	12	11	1	12	---	---
SUBTOTAL.....	87	64	16	80	---	7
SPEED						
550 Coupling speed excessive.....	9	4	3	7	---	2
553 Switch movement, excessive speed.....	2	2	---	2	---	---
554 Trn inside yrd limit, excess speed....	16	13	3	16	---	---
555 Trn out yrd limit,clear blk,excess spd.	4	4	---	4	---	---
559 Other Causes involving excessive speed.	15	8	7	15	---	---
SUBTOTAL.....	46	31	13	44	---	2
SWITCHES, USE OF						
561 Switch improperly lined.....	21	19	1	20	---	1
SUBTOTAL.....	21	19	1	20	---	1
MISCELLANEOUS						
570 Buffing or slack action excessive.....	5	5	---	5	---	---
571 Failure to couple.....	2	2	---	2	---	---
575 Retarder, improper manual operation....	2	2	---	2	---	---
599 Other train operation/human factors....	29	5	11	16	13	---
SUBTOTAL.....	38	14	11	25	13	---
GRAND TOTAL.....	353	212	74	286	57	10

**TABLE S31. NON-FATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY MECHANICAL/ELECTRICAL FAILURES**

Cause	Total Injured	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
BRAKES						
405 Brk valve malf. (undesired emergency)..	2	2	---	---	---	---
407 Rigging down or dragging.....	3	3	---	---	---	---
408 Hand brake/gear broken or defective....	2	---	1	---	1	---
409 Hand brk linkage/connections failure...	6	4	---	2	---	---
410L Other brake failure - locomotive.....	2	1	1	---	---	---
SUBTOTAL.....	15	10	2	2	1	---
TRAILER OR CONTAINER ON FLAT CAR						
419 Oth trailer/container on flat car fail.	5	4	---	---	1	---
SUBTOTAL.....	5	4	---	---	1	---
BODY						
421 Center sill broken or bent.....	1	1	---	---	---	---
423 Center plate broken or defective.....	2	2	---	---	---	---
424 Center plate disengaged from truck.....	3	3	---	---	---	---
425 Center pin broken or missing.....	2	2	---	---	---	---
429 Other causes due to body (not loco)....	2	2	---	---	---	---
SUBTOTAL.....	10	10	---	---	---	---
COUPLER AND DRAFT SYSTEM						
432 Coupler drawhead broken or defective...	1	1	---	---	---	---
SUBTOTAL.....	1	1	---	---	---	---
TRUCK COMPONENTS						
440 Side bearing clearance improper.....	1	1	---	---	---	---
442 Side bearing(s) missing.....	1	1	---	---	---	---
445 Truck (stiff/improper lateral).....	6	6	---	---	---	---
449 Other truck component causes.....	1	1	---	---	---	---
SUBTOTAL.....	9	9	---	---	---	---
AXLES AND JOURNAL BEARINGS						
451 Journal (plain) failure - overheating..	3	3	---	---	---	---
453 Journal fractured, new cold break.....	2	2	---	---	---	---
SUBTOTAL.....	5	5	---	---	---	---
WHEELS						
461 Broken rim.....	3	3	---	---	---	---
462 Broken plate.....	3	3	---	---	---	---
463 Broken hub.....	1	1	---	---	---	---
464 Worn flange.....	4	2	1	3	---	1
467 Loose wheel.....	4	3	---	3	---	1
SUBTOTAL.....	15	12	1	13	---	2
LOCOMOTIVES						
471L Traction motor failure - locomotive....	1	1	---	---	---	---
474L Electrically caused fire - locomotive..	5	5	---	---	---	---
479L Other causes involving locomotives....	3	3	---	---	---	---
SUBTOTAL.....	9	9	---	---	---	---
GRAND TOTAL.....	69	60	3	63	2	2

TABLE S32. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY DEFECTS IN TRACK, ROADBED, AND STRUCTURES

Cause	Total Killed	...Employees On Duty...		Emp Not On Duty	Passengers	Non Trespassers	Trespassers
		Trainmen	Other				
ROADBED DEFECTS							
102 Washout/rain/slide/ice,etc. dmg to trk.	2	2	---	2	---	---	---
SUBTOTAL.....	2	2	---	2	---	---	---
TRACK GEOMETRY DEFECTS							
110 Wide gage (defect/missing crossties)...	1	1	---	1	---	---	---
113 Wide gage due to worn rail.....	1	1	---	1	---	---	---
SUBTOTAL.....	2	2	---	2	---	---	---
GRAND TOTAL.....	4	4	---	4	---	---	---

**TABLE S33. NON-FATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS
CAUSED BY DEFECTS IN TRACK, ROADBED AND STRUCTURES**

Cause	Total	...Employees On Duty...		Emp Not	Passen-	Non Tres-	Tres-
	Injured	Trainmen	Other	On Duty	gers	passers	passers
ROADBED DEFECTS							
101 Roadbed settled or soft.....	5	5	---	5	---	---	---
102 Washout/rain/slide/ice,etc. dmg to trk.	1	1	---	1	---	---	---
109 Other roadbed defects.....	2	2	---	2	---	---	---
SUBTOTAL.....	8	8	---	8	---	---	---
TRACK GEOMETRY DEFECTS							
110 Wide gage (defect/missing crossties)...	33	6	15	21	---	11	---
111 Wide gage (def/missing rail fasteners).	3	---	3	3	---	---	---
114 Track alignment irregular.....	1	1	---	1	---	---	---
115 Track alignment irregular (buckled)....	7	7	---	7	---	---	---
116 Track profile improper.....	3	3	---	3	---	---	---
118 Superelevation runoff improper.....	1	1	---	1	---	---	---
119 Cross level irregular at joints.....	5	5	---	5	---	---	---
120 Cross level irregular not at joints....	1	1	---	1	---	---	---
129 Other track geometry defects.....	1	1	---	1	---	---	---
SUBTOTAL.....	55	25	18	43	---	11	---
RAIL AND JOINT BAR DEFECTS							
130 Bolt hole crack or break.....	10	10	---	10	---	---	---
131 Broken base of rail.....	8	8	---	8	---	---	---
136 Head/web sep.(outside joint bar limit).	19	4	7	11	---	8	---
137 Head/web sep.(within joint bar limits).	1	1	---	1	---	---	---
141 Transverse/compound fissure.....	32	1	14	15	---	17	---
142 Vertical split head.....	3	3	---	3	---	---	---
143 Worn rail.....	4	4	---	4	---	---	---
144 Mismatched rail-head contour.....	1	1	---	1	---	---	---
147 Joint bar broken, noninsulated.....	4	4	---	4	---	---	---
149 Other rail and joint bar defects.....	7	7	---	7	---	---	---
SUBTOTAL.....	89	43	21	64	---	25	---
FROGS, SWITCHES AND TRACK APPLIANCES							
161 Switch damaged/out of adjustment.....	1	1	---	1	---	---	---
162 Switch stand failure (hand oper.).....	2	1	1	2	---	---	---
164 Stock rail worn/broken/disconnect.....	2	2	---	2	---	---	---
166 Switch rod worn/bent/broken/etc.....	1	1	---	1	---	---	---
173 Retarder worn/broken/malfunction.....	2	2	---	2	---	---	---
179 Other frog/switches/track appl. causes.	3	---	1	1	---	2	---
SUBTOTAL.....	11	7	2	9	---	2	---
SIGNAL AND COMMUNICATION FAILURES							
200 Fix sig. improperly displayed (defect).	1	1	---	1	---	---	---
209 Signal & communication failure N.O.C...	1	---	1	1	---	---	---
SUBTOTAL.....	2	1	1	2	---	---	---
GRAND TOTAL.....	165	84	42	126	---	38	---

CASUALTIES IN TRAIN INCIDENTS

TABLE S36. FATALITIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Killed	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non-Tres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
001T Adjusting coupler, equipment moving unexpectedly	1	1	---	---	---	---
005T Use of uncoupling lever - equipment moving	1	1	---	---	---	---
007T Striking parts of body against equipment - equipment moving	1	1	---	---	---	---
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	1	1	---	---	---	---
009T Other acc/inc while couplg/uncoupling cars or locos - equip moving	2	1	1	---	---	---
SUBTOTAL.....	6	5	1	---	---	---
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	2	2	---	---	---	---
SUBTOTAL.....	2	2	---	---	---	---
OPERATING RAIL MOTORCARS						
159T Other accidents/incidents while operating rail motorcars - eqp mov	2	---	2	---	---	---
SUBTOTAL.....	2	---	2	---	---	---
OPERATING HAND BRAKES						
207T Losing hold, slipping, or falling - equipment moving	1	1	---	---	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	1	1	---	---	---	---
SUBTOTAL.....	2	2	---	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS						
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	1	1	---	---	---	---
409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov	2	1	---	---	---	1
SUBTOTAL.....	3	2	---	---	---	1
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp mov	5	---	---	---	---	5
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	4	---	---	---	---	4
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	2	---	---	---	1	1
510T Striking body or falling due to sudden movement of equipment	1	1	---	---	---	---
513T Jumping from equipment - equipment moving	1	---	---	---	1	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	5	---	---	---	---	5
SUBTOTAL.....	19	1	---	1	1	16
COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= \$2,900)						
601T Casualty resulting fm a collision which did not satisfy \$ threshold	5	3	1	4	---	1
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	1	1	---	1	---	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	6	---	---	---	---	6
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	704	---	---	---	1	604
SUBTOTAL.....	716	4	1	5	1	605

TABLE S36. (CONTINUED)

Occurrence	Total Killed	...Employees On Trainmen	Duty... Other	Duty... Total	Emp Not On Duty	Passengers	Non Trespassers	Trespassers
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701T Standing, walking or running on or along track - equipment moving	122	1	1	2	1	---	2	117
702T Crossing track at private rail-highway crossing - equipment moving	42	---	---	---	---	---	40	2
703T Crossing track not at a crossing - equipment moving	41	---	2	2	---	---	1	38
704T While on public thoroughfare - equipment moving	1	---	---	---	---	---	---	1
705T On bridges or trestles - equipment moving	20	---	---	---	---	---	---	20
706T Sitting or lying on track or near track, not in clear - eqp moving	174	---	---	---	---	---	1	173
707T While working on or along track - equipment moving	7	2	4	6	---	---	1	---
708T Passing over, through, or under cars - equipment moving	12	---	---	---	---	---	---	12
709T Struck by or ran into locos/cars (not at public X-ing),misc-eqp mov	44	2	---	2	---	---	1	41
SUBTOTAL.....	463	5	7	12	1	---	46	404
SERVICING OR MAINTENANCE OF EQUIPMENT								
803T Striking or being struck by eqp, structures, or material-eqp mov	2	---	2	2	---	---	---	---
SUBTOTAL.....	2	---	2	2	---	---	---	---
MAINTENANCE OF WAY AND STRUCTURES								
853T Striking or being struck by eqp, structures, or material-eqp mov	3	---	3	3	---	---	---	---
SUBTOTAL.....	3	---	3	3	---	---	---	---
FREIGHT, BAGGAGE, EXPRESS OR MAIL								
902T Struck or caught by shifted lading-eqp moving	1	---	---	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	---	---	1
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	1	1	---	1	---	---	---	---
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	4	1	1	2	---	---	---	2
938T While on locomotive or car-equipment moving	11	1	---	1	---	1	---	9
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	1	---	---	---	---	---	1	---
SUBTOTAL.....	17	3	1	4	---	1	1	11
ASSAULT								
961T Struck by thrown or otherwise propelled object,while no cab-eqp mov	1	1	---	1	---	---	---	---
964T Other assaults to persons on trains-equipment moving	3	---	---	---	---	1	---	2
SUBTOTAL.....	4	1	---	1	---	1	---	2
OTHER OCCURRENCES								
989T Other accidents/incidents-equipment moving	2	1	---	1	---	---	---	1
SUBTOTAL.....	2	1	---	1	---	---	---	1
GRAND TOTAL.....	1,242	26	17	43	2	3	653	541

NOTE: Contractor employees are included with nontrespassers

TABLE S37. 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	Non Tres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
001T Adjusting coupler, equipment moving unexpectedly	22	19	3	22	---	---
002T Adjusting coupler - equipment moving	22	22	---	22	---	---
004T Adjusting coupler, part of coupler fell striking person - eqp moving	4	4	---	4	---	---
005T Use of uncoupling lever - equipment moving	112	112	---	112	---	---
006T Use of uncoupling lever - equipment moving unexpectedly	9	8	1	9	---	---
007T Striking parts of body against equipment - equipment moving	72	70	2	72	---	---
008T Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	110	104	6	110	---	---
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	103	100	2	102	---	1
SUBTOTAL.....	454	439	14	453	---	1
COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.						
052T Uncoupl air hose, struck by hose due to sudden release of air-eqp mov	14	14	---	14	---	---
053T Coupling air hose,stk by hose due to sudden release of air - eqp mov	7	7	---	7	---	---
054T Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	17	17	---	17	---	---
057T Opening or closing angle cocks - equipment moving	22	21	1	22	---	---
059T Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	23	23	---	23	---	---
SUBTOTAL.....	83	82	1	83	---	---
OPERATING LOCOMOTIVES						
101T Burn or electrical shock - equipment moving	9	9	---	9	---	---
102T Striking parts of body against equipment, moving about loco-eqp mov	37	36	1	37	---	---
103T Struck by tools or other objects falling - equipment moving	9	9	---	9	---	---
104T Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	24	21	3	24	---	---
105T Checking, oiling, servicing locomotive, etc. - equipment moving	11	10	1	11	---	---
106T Unexpected movement of locomotive, other than slack action	93	91	2	93	---	---
107T Slack action in locomotive	43	43	---	43	---	---
108T Striking parts of body against equipment due to sudden stop of loco	54	50	4	54	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	4	4	---	4	---	---
110T Defective locomotive seat - equipment moving	22	22	---	22	---	---
111T Adjusting locomotive seat - equipment moving	10	9	1	10	---	---
112T Foreign object in eye - equipment moving	325	317	8	325	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	86	84	2	86	---	---
SUBTOTAL.....	727	705	22	727	---	---
OPERATING RAIL MOTORCARS						
151T Striking parts of body against equipment - equipment moving	18	3	15	18	---	---
152T Struck by tools or other objects falling - equipment moving	3	---	3	3	---	---
153T Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	4	2	2	4	---	---
154T Unexpected movement of rail motorcar	9	1	8	9	---	---
159T Other accidents/incidents while operating rail motorcars - eqp mov	27	1	26	27	---	---
SUBTOTAL.....	61	7	54	61	---	---

TABLE S37. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Treatment	Other	Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
OPERATING HAND BRAKES								
201T Defective equipment - equipment moving	27	27	---	27	---	---	---	---
203T Striking body due to movement of equipment	53	52	1	53	---	---	---	---
205T Caught between parts of equipment or lading - equipment moving	7	7	---	7	---	---	---	---
206T Brake chains or bolts, breaking or giving way - equipment moving	3	3	---	3	---	---	---	---
207T Losing hold, slipping, or falling - equipment moving	51	50	1	51	---	---	---	---
208T Caught hand or fingers in spinning brake wheel - equipment moving	8	7	1	8	---	---	---	---
209T Other accidents/incidents while operating hand brakes - eqp moving	106	101	5	106	---	---	---	---
SUBTOTAL.....	255	247	8	255	---	---	---	---
OPERATING SWITCHES								
304T Struck by moving on-track equipment	8	7	1	8	---	---	---	---
306T Lining switches, no defects; eqp moving	3	3	---	3	---	---	---	---
309T Other accidents/incidents while operating switches - equipment mov	42	40	2	42	---	---	---	---
SUBTOTAL.....	53	50	3	53	---	---	---	---
CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
401T Persons on top locos/cars contacting fixed objects - equipment mov	7	6	1	7	---	---	---	---
402T Persons on side/end of locos/cars contacting fixed objects - eqp mov	111	104	6	110	---	---	---	1
409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov	39	35	2	37	---	1	---	1
SUBTOTAL.....	157	145	9	154	---	1	---	2
GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T Slip/fell due to lost/missed hold of grabiron, handhold, etc. - eqp mov	140	128	5	133	---	---	---	7
502T Slip/fell due to losing/missing footing on step, stirrup, etc. - eqp mov	286	265	13	278	---	---	---	8
503T Stepping or tripping on parts of track in place - equipment moving	84	83	1	84	---	---	---	---
504T Stepping or tripping on foreign material or irreg surface - eqp mov	671	660	8	668	1	---	---	2
505T Slipping on ice or snow on ground - equipment moving	53	49	4	53	---	---	---	---
506T Slipping on ice/snow on cars or locomotives - equipment moving	24	23	1	24	---	---	---	---
507T Falling, slipping, tripping, not elsewhere classified - eqp moving	144	119	4	123	---	2	---	19
508T Slipping/falling while boarding/alighting fm passenger eqp (moving)	22	7	2	9	---	8	3	2
510T Striking body or falling due to sudden movement of equipment	66	56	8	64	---	---	---	2
511T Strike/struck by eqp/structures(not bridge/trestle), or mat - eqp mov	113	109	1	110	---	---	1	2
513T Jumping from equipment - equipment moving	139	108	5	113	---	8	5	13
514T Defective equipment - equipment moving	40	40	---	40	---	---	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	364	345	7	352	---	1	---	11
SUBTOTAL.....	2,146	1,992	59	2,051	1	19	9	66

TABLE S37. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Duty... Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers	
COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(≤ \$2,900) (CONT.)								
601T Casualty resulting fm a collision which did not satisfy \$ threshold	146	104	23	127	1	14	3	1
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	110	98	12	110	---	---	---	---
603T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	24	11	3	14	---	---	2	8
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	3,355	43	17	60	---	3	3,054	238
SUBTOTAL.....	3,635	256	55	311	1	17	3,059	247
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701T Standing, walking or running on or along track - equipment moving	149	34	8	42	1	---	7	99
702T Crossing track at private rail-highway crossing - equipment moving	214	8	7	15	2	---	193	4
703T Crossing track not at a crossing - equipment moving	38	6	3	9	1	---	8	20
704T While on public thoroughfare - equipment moving	5	1	1	2	---	---	2	1
705T On bridges or trestles - equipment moving	11	---	---	---	---	---	---	11
706T Sitting or lying on track or near track, not in clear - eqp moving	105	---	---	---	---	---	2	103
707T While working on or along track - equipment moving	43	34	4	38	---	---	5	---
708T Passing over, through, or under cars - equipment moving	47	1	---	1	---	---	1	45
709T Struck by or ran into locos/cars (not at public X-ing),misc-eqp mov	55	4	4	8	---	---	8	39
SUBTOTAL.....	667	88	27	115	4	---	226	322
SERVICING OR MAINTENANCE OF EQUIPMENT								
802T Crossing over, under, or between locos or cars - equipment moving	2	---	2	2	---	---	---	---
803T Striking or being struck by eqp, structures, or material-eqp mov	79	1	77	78	1	---	---	---
804T Use of hand tools, eqp moving	1	---	1	1	---	---	---	---
813T Loading and unloading materials - equipment moving	1	---	1	1	---	---	---	---
814T Handling material by hand - moving ontrack equipment	1	---	1	1	---	---	---	---
815T Moving equipment for repairs	59	1	58	59	---	---	---	---
819T Struck by flying or falling object - equipment moving	1	---	1	1	---	---	---	---
821T Fire or explosion of fusees or torpedoes - equipment moving	1	1	---	1	---	---	---	---
824T Stumbling, slipping, falling, caught, N.O.C. - equipment moving	1	---	1	1	---	---	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	32	---	32	32	---	---	---	---
SUBTOTAL.....	178	3	174	177	1	---	---	---
MAINTENANCE OF WAY AND STRUCTURES								
852T Crossing over, under, or between locos or cars-eqp moving	3	1	2	3	---	---	---	---
853T Striking or being struck by eqp, structures, or material-eqp mov	159	---	159	159	---	---	---	---
864T Handling material by hand - equipment moving	1	---	1	1	---	---	---	---
874T Stumbling, slipping, falling, caught, N.O.C. - equipment moving	4	1	3	4	---	---	---	---
875T Use of maintenance of way equipment (N.O.C.) - equipment moving	2	---	2	2	---	---	---	---
878T Load/unload ties, sw, timbers, ties plates and fast, eqp mov	1	---	1	1	---	---	---	---
889T Other acc/inc while maintaining way and structures-eqp moving	64	---	60	60	2	---	2	---
SUBTOTAL.....	234	2	228	230	2	---	2	---

TABLE S37. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen Other	Duty... Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
FREIGHT, BAGGAGE, EXPRESS OR MAIL							
901T Handling freight, baggage, express or mail-eqp moving	12	3	9	12	---	---	---
902T Struck or caught by shifted lading-eqp moving	10	6	4	10	---	---	---
903T Tripping over, or struck by falling baggage in passenger car-eqp mov	4	3	1	4	---	---	---
904T Other acc/inc involving freight, baggage, express, or mail - eqp mov	10	2	8	10	---	---	---
SUBTOTAL.....	36	14	22	36	---	---	---
WINDOWS, DOORS, ETC							
908T Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov	4	2	1	3	---	---	1
910T Closing or opening plug type car doors, defective equipment-eqp mov	1	---	1	1	---	---	---
911T Closing or opening plug type car doors, no defects-equipment mov	5	1	1	2	---	3	---
912T Closing or opening coach trap doors-equipment moving	16	10	6	16	---	---	---
913T Interior doors-equipment moving	73	45	15	60	---	12	1
914T Opening or closing locomotive doors-equipment moving	51	49	2	51	---	---	---
915T Opening or closing locomotive windows-equipment moving	11	10	1	11	---	---	---
916T Opening or closing caboose doors-equipment moving	15	15	---	15	---	---	---
917T Opening or closing caboose windows-equipment moving	4	4	---	4	---	---	---
918T Opening and closing other windows-equipment moving	3	1	---	1	---	2	---
919T Other accidents/incidents involving windows or doors-eqp mov	79	41	22	63	---	16	---
SUBTOTAL.....	262	178	49	227	---	33	1
PASSENGER CAR DOORS							
920T Caught by side doors while entering coach-equipment moving	4	1	1	2	---	2	---
923T Dragged by train while caught in side doors, exiting coach	1	---	---	---	---	1	---
924T Struck by side doors while entering coach-equipment moving	4	2	---	2	---	2	---
925T Struck by side doors while exiting coach-equipment moving	1	---	---	---	---	1	---
926T Striking side door while entering coach-equipment moving	3	1	2	3	---	---	---
SUBTOTAL.....	13	4	3	7	---	6	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED							
930T Stumbling/slipping, etc. on snow or ice - equipment moving	21	18	3	21	---	---	---
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	174	158	14	172	---	2	---
932T Stumbling/slipping, etc. on parts of track in place-equipment moving	20	15	2	17	1	---	2
933T Slipping, caught, etc. on stairs, ramps, platforms - eqp mov	3	3	---	3	---	---	---
934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov	25	14	5	19	---	3	3
935T From bridges of trestles-equipment moving	3	1	---	1	---	---	1
936T From structures other than bridges or trestles-equipment moving	3	1	2	3	---	---	---
937T Into depressions - equipment moving	22	20	2	22	---	---	---
938T While on locomotive or car-equipment moving	422	211	76	287	4	122	2
939T Other, stumbling, slipping, falling, caught, etc. - equipment moving	102	53	26	79	---	19	1
SUBTOTAL.....	795	494	130	624	5	146	4

TABLE S37. (CONTINUED)

Occurrence	Total Injured	...Employees On Trainmen	Duty... Other	Duty... Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T Foreign object in eye-equipment moving	983	961	22	983	---	---	---	---
941T Struck by flying of falling object (except assaults)-eqp mov	99	73	14	87	---	9	2	1
942T Electrical flash, shock, or burn-equipment moving	9	6	---	6	---	1	2	---
943T Fire or explosion of fuses or torpedoes-equipment moving	6	5	1	6	---	---	---	---
944T Other fire or explosion-equipment moving	12	11	1	12	---	---	---	---
945T Burned by hot or corrosive substances-equipment moving	74	51	23	74	---	---	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	16	15	---	15	---	---	1	---
949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	24	19	2	21	---	2	1	---
SUBTOTAL.....	1,223	1,141	63	1,204	---	12	6	1
OPERATION OF ON-TRACK WORK EQUIPMENT								
950T Collision with train or car	10	3	7	10	---	---	---	---
951T Collision with other on-track work equipment	44	1	42	43	---	---	---	1
952T Jumping from equipment in anticipation of a collision	25	5	19	24	---	---	---	1
953T Derailment that does not satisfy monetary threshold	101	9	92	101	---	---	---	---
954T Getting on/off on-track work equipment - equipment moving	9	---	8	8	---	---	---	1
959T Other A/I involving on-track work equipment - equipment moving	80	2	77	79	---	---	1	---
SUBTOTAL.....	269	20	245	265	---	---	1	3
ASSAULT								
960T Struck by thrown or otherwise propelled object,while on loco-eqp mov	112	111	1	112	---	---	---	---
961T Struck by thrown or otherwise propelled object,while no cab-eqp mov	72	69	1	70	---	2	---	---
962T Struck by thrown or otherwise propelled object,while on car-eqp mov	17	8	2	10	---	7	---	---
964T Other assaults to persons on trains-equipment moving	18	13	4	17	---	1	---	---
SUBTOTAL.....	219	201	8	209	---	10	---	---
OTHER OCCURRENCES								
970T Performing rerailling or other clearing operations-equipment moving	3	1	2	3	---	---	---	---
971T Loco or car coming against car placed for loading or unloading	12	7	1	8	---	1	3	---
972T Sudden movement of car, not otherwise classified	174	100	60	160	1	9	3	1
974T Slack action in caboose	549	543	6	549	---	---	---	---
975T Slack action, other	150	140	8	148	---	---	2	---
976T Emergency or severe application of air brakes due to def eqp	21	20	1	21	---	---	---	---
977T Emergency or severe application of air brakes not due to def eqp	97	94	3	97	---	---	---	---
978T Motor vehicle A/I (other than rail highway grade crossing) - eqp std	3	---	3	3	---	---	---	---
982T Insect bites, moving	2	2	---	2	---	---	---	---
989T Other accidents/incidents-equipment moving	117	73	38	111	---	---	3	3
SUBTOTAL.....	1,128	980	122	1,102	1	10	11	4
GRAND TOTAL.....	12,595	7,048	1,296	8,344	15	254	3,320	662

NOTE: Contractor employees are included with nontrespassers

TABLE S38. ILLNESS IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
009T Other acc/inc while coupling/uncoupling cars or locos - equip moving	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
OPERATING LOCOMOTIVES						
101T Burn or electrical shock - equipment moving	2	2	---	2	---	---
109T Inhalation of or contact with fumes or gases - equipment moving	38	37	1	38	---	---
112T Foreign object in eye - equipment moving	1	1	---	1	---	---
119T Other accidents/incidents while operating locomotives - eqp moving	7	7	---	7	---	---
SUBTOTAL.....	48	47	1	48	---	---
OPERATING SWITCHES						
309T Other accidents/incidents while operating switches - equipment mov	2	2	---	2	---	---
SUBTOTAL.....	2	2	---	2	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES						
501T Slip/fell due to lost/misssed hold of grabiron,handhold,etc.-eqp mov	1	1	---	1	---	---
502T Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp mov	1	1	---	1	---	---
519T Other acc/inc while getting on or off cars or locos - equipment mov	2	2	---	2	---	---
SUBTOTAL.....	4	4	---	4	---	---
COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= \$2,900)						
602T Casualty resulting fm a derailment which did not satisfy \$ threshold	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED						
931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.						
940T Foreign object in eye-equipment moving	5	5	---	5	---	---
943T Fire or explosion of fusees or torpedoes-equipment moving	5	5	---	5	---	---
944T Other fire or explosion-equipment moving	10	1	9	10	---	---
945T Burned by hot or corrosive substances-equipment moving	6	6	---	6	---	---
946T Inhalation of or contact with fumes or gases-equipment moving	100	93	7	100	---	---
949T Other A/I resulting from flying/falling obje, burns, etc. - eqp mov	5	5	---	5	---	---
SUBTOTAL.....	131	115	16	131	---	---

TABLE S38. (CONTINUED)

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
OPERATION OF ON-TRACK WORK EQUIPMENT						
959T Other A/I involving on-track work equipment - equipment moving	6	---	6	6	---	---
SUBTOTAL.....	6	---	6	6	---	---
OTHER OCCURRENCES						
974T Slack action in caboose	2	2	---	2	---	---
989T Other accidents/incidents-equipment moving	11	8	3	11	---	---
SUBTOTAL.....	13	10	3	13	---	---
GRAND TOTAL.....	207	181	26	207	---	---

NOTE: Contractor employees are included with nontrespassers

CASUALTIES IN NON-TRAIN INCIDENTS

TABLE S39A. FATALITIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Non Tres-passers	Tres-passers
GETTING ON OR OFF CARS OR LOCOMOTIVES								
507 Falling, slipping, tripping, not elsewhere classified - eqp std	1	---	---	---	---	---	---	1
SUBTOTAL.....	1	---	---	---	---	---	---	1
COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= \$2,900)								
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	19	---	---	---	---	---	18	1
SUBTOTAL.....	19	---	---	---	---	---	18	1
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701 Standing, walking or running on or along track - equipment standing	2	---	---	---	---	---	---	2
709 Struck by or ran into locos/cars (not at public X-ing),misc-eqp std	1	---	---	---	---	---	---	1
SUBTOTAL.....	3	---	---	---	---	---	---	3
SERVICING OR MAINTENANCE OF EQUIPMENT								
804 Use of hand tools	1	---	1	1	---	---	---	---
819 Struck by flying or falling object	1	---	1	1	---	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	2	---	1	1	---	---	1	---
SUBTOTAL.....	4	---	3	3	---	---	1	---
MAINTENANCE OF WAY AND STRUCTURES								
861 Use of lift trucks and other portable material handling eqp	1	---	1	1	---	---	---	---
869 Struck by flying of falling object	1	---	1	1	---	---	---	---
870 Electrical flash, shock, or burn	3	---	3	3	---	---	---	---
872 Other fire or explosion	1	---	---	---	1	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	3	---	3	3	---	---	---	---
875 Use of maintenance of way equipment not elsewhere classified	1	---	---	---	---	---	1	---
889 Other acc/inc while maintaining way and structures	2	---	2	2	---	---	---	---
SUBTOTAL.....	12	---	10	10	1	---	1	---
WINDOWS, DOORS, ETC								
910 Closing or opening plug type car doors, defective equipment-eqp std	1	---	1	1	---	---	---	---
SUBTOTAL.....	1	---	1	1	---	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
935 From bridges or trestles	4	---	1	1	---	---	1	2
936 From structures other than bridges or trestles	2	---	---	---	---	---	1	1
938 While on locomotive or car-equipment standing	2	---	---	---	---	---	2	---
939 Other, stumbling, slipping, falling, caught, etc.	1	---	1	1	---	---	---	---
SUBTOTAL.....	9	---	2	2	---	---	4	3
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
941 Struck by flying of falling object (except assaults)	1	---	---	---	---	---	1	---
942 Electrical flash, shock, or burn	6	---	---	---	---	---	1	5
944 Other fire or explosion	2	---	---	---	---	---	2	---
946 Inhalation of or contact with fumes or gases	1	---	1	1	---	---	---	---
SUBTOTAL.....	10	---	1	1	---	---	4	5

TABLE S39A. (CONTINUED)

Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Emp Not On Duty Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
ASSAULT								
969 Other assaults to persons not on trains	1	---	---	---	---	---	1	---
SUBTOTAL.....	1	---	---	---	---	---	1	---
OTHER OCCURRENCES								
970 Performing rerailling or other clearing operations	1	---	1	1	---	---	---	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	9	1	4	5	1	---	1	2
989 Other accidents/incidents	8	2	1	3	---	---	2	3
SUBTOTAL.....	18	3	6	9	1	---	3	5
GRAND TOTAL.....	78	3	23	26	2	---	32	18

NOTE: Contractor employees are included with nontrespassers

TABLE S39B. INJURIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Non-Tres- passers	Tres- passer
A. COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
002 Adjusting coupler - equipment standing.....	487	464	23	487	---	---	---	---
004 Adjusting coupler, part of coupler fell striking person-eqp standing.....	92	90	2	92	---	---	---	---
005 Use of uncoupling lever - equipment standing.....	164	154	10	164	---	---	---	---
007 Striking parts of body against equipment - equipment standing.....	76	69	7	76	---	---	---	---
008 Stumbled,slipped,fell,stepped on foreign obj/irreg surface-eqp std.....	152	142	10	152	---	---	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std.....	170	156	12	168	1	---	1	---
SUBTOTAL.....	1,141	1,075	64	1,139	1	---	1	---
B. COUPLING OR UNCOUPLING AIR OR STEAM HOSE								
052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std.....	89	75	14	89	---	---	---	---
053 Coupling air hose,stk by hose due to sudden release of air - eqp std.....	42	34	8	42	---	---	---	---
054 Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp standing.....	83	69	14	83	---	---	---	---
055 Defective equipment - equipment standing.....	10	8	2	10	---	---	---	---
056 Burned by hot water or steam from hose - equipment standing.....	5	1	4	5	---	---	---	---
057 Opening or closing angle cocks - equipment standing....	77	65	12	77	---	---	---	---
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std.....	162	122	40	162	---	---	---	---
SUBTOTAL.....	468	374	94	468	---	---	---	---
C. OPERATING LOCOMOTIVES								
101 Burn or electrical shock - equipment standing.....	18	14	4	18	---	---	---	---
102 Striking parts of body against equipment, moving about loco-eqp std.....	48	44	4	48	---	---	---	---
103 Struck by tools or other objects falling - equipment standing.....	16	13	3	16	---	---	---	---
104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std.....	96	89	7	96	---	---	---	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing.....	44	36	8	44	---	---	---	---
109 Inhalation of or contact with fumes or gases - equipment standing.....	15	15	---	15	---	---	---	---
110 Defective locomotive seat - equipment standing.....	22	21	1	22	---	---	---	---
111 Adjusting locomotive seat - equipment standing.....	21	21	---	21	---	---	---	---
112 Foreign object in eye - equipment standing.....	88	85	3	88	---	---	---	---
119 Other accidents/incidents while operating locomotives - eqp standing.....	77	73	4	77	---	---	---	---
SUBTOTAL.....	445	411	34	445	---	---	---	---
D. OPERATING RAIL MOTORCARS								
151 Striking parts of body against equipment - equipment standing.....	5	1	4	5	---	---	---	---
152 Struck by tools or other objects falling - equipment standing.....	3	1	2	3	---	---	---	---
153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std.....	12	4	8	12	---	---	---	---
155 Placing or removing rail motorcar on or off rail.....	125	---	125	125	---	---	---	---
159 Other accidents/incidents while operating rail motorcars - eqp std.....	12	---	12	12	---	---	---	---
SUBTOTAL.....	157	6	151	157	---	---	---	---
E. OPERATING HAND BRAKES								
201 Defective equipment - equipment standing.....	59	55	3	58	1	---	---	---
202 Pawl slipping or accidentally knocked out of ratchet - eqp standing.....	8	8	---	8	---	---	---	---
203 Striking body not due to movement of equipment.....	41	38	3	41	---	---	---	---
205 Caught between parts of equipment or lading - equipment standing.....	10	8	2	10	---	---	---	---
206 Brake chains or bolts, breaking or giving way - equipment standing.....	24	20	4	24	---	---	---	---
207 Losing hold, slipping, or falling - equipment standing.....	120	112	8	120	---	---	---	---
208 Caught hand or fingers in spinning brake wheel - equipment standing.....	45	43	2	45	---	---	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing.....	430	407	23	430	---	---	---	---
SUBTOTAL.....	737	691	45	736	1	---	---	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passer
F. OPERATING SWITCHES								
301 Slipped, tripped or fell due to ice or snow.....	55	49	6	55	---	---	---	---
302 Slipped, tripped or fell not due to ice or snow.....	129	124	5	129	---	---	---	---
303 Parts of body struck or caught by mechanism of switch..	185	172	13	185	---	---	---	---
305 Lining switches, defective equipment.....	220	206	14	220	---	---	---	---
306 Lining switches, no defects.....	904	835	67	902	1	---	1	---
309 Other accidents/incidents while operating switches - equipment std.....	387	352	35	387	---	---	---	---
SUBTOTAL.....	1,880	1,738	140	1,878	1	---	1	---
G. PERSONS ON LOCOS OR CARS COMING IN CONTACT WITH FIXED OBJS								
401 Persons on top locos/cars contacting fixed objects - equipment std.....	2	1	1	2	---	---	---	---
402 Persons on side/end of locos/cars contacting fixed objects - eqp std.....	10	8	2	10	---	---	---	---
409 Persons on loco/car coming in contact with fixed obj(other)-eqp std.....	12	10	2	12	---	---	---	---
SUBTOTAL.....	24	19	5	24	---	---	---	---
H. GETTING ON OR OFF CARS OR LOCOMOTIVES								
501 Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp std.....	136	93	40	133	3	---	---	---
502 Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp std.....	468	295	144	439	15	11	3	---
503 Stepping or tripping on parts of track in place - equipment standing.....	66	57	8	65	---	1	---	---
504 Stepping or tripping on foreign material or irreg surface - eqp std.....	654	545	103	648	3	2	1	---
505 Slipping on ice or snow on ground - equipment standing.	62	44	16	60	1	1	---	---
506 Slipping on ice/snow on cars or locomotives - equipment standing.....	53	43	7	50	2	---	1	---
507 Falling, slipping, tripping, not elsewhere classified - eqp std.....	185	110	58	168	2	12	2	1
508 Slipping/falling while boarding/alighting fm passenger eqp(standing).....	119	20	19	39	---	79	1	---
511 Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std.....	78	59	19	78	---	---	---	---
512 Striking or being struck by bridges or trestles - equipment standing.....	1	1	---	1	---	---	---	---
513 Jumping from equipment - equipment standing.....	30	13	15	28	---	---	1	1
514 Defective equipment - equipment standing.....	31	26	5	31	---	---	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std.....	335	246	85	331	---	3	---	1
SUBTOTAL.....	2,218	1,552	519	2,071	26	109	9	---
I. RAIL EQUIPMENT AND RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT								
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std.....	125	---	---	---	---	---	123	2
SUBTOTAL.....	125	---	---	---	---	---	123	2
J. STRUCK BY/RAN INTO LOCOS OR CARS NOT AT HWY GRADE CROSSING								
701 Standing, walking or running on or along track - equipment standing.....	5	4	---	4	---	---	---	1
702 Crossing track at private rail-highway crossing - equipment standing.....	1	---	---	---	---	---	1	---
703 Crossing track not at a crossing - equipment standing..	4	---	2	2	---	---	1	1
708 Passing over, through, or under cars - equipment standing.....	5	3	1	4	---	---	---	1
709 Struck by or ran into locos/cars (not at public X-ing),misc-eqp std.....	4	2	---	2	---	---	---	2
SUBTOTAL.....	19	9	3	12	---	---	2	5

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passer
K. SERVICING OR MAINTENANCE OF EQUIPMENT								
802 Crossing over, under, or between locos or cars - equipment standing.....	119	3	115	118	1	---	---	---
803 Striking or being struck by eqp, structures, or material-eqp std.....	904	6	892	898	6	---	---	---
804 Use of hand tools.....	1,654	5	1,646	1,651	---	---	3	---
805 Use of portable power tools.....	269	---	269	269	---	---	---	---
806 Use of welding equipment.....	320	---	319	319	---	---	1	---
807 Use of oxygen-acytelene, natural gas cutting equipment..	265	---	264	264	---	---	1	---
808 Use of grinding equipment.....	131	---	130	130	---	---	1	---
809 Use of scaffolds, ladders, etc.....	164	---	164	164	---	---	---	---
810 Use of cranes, hoists, derricks, piledrivers, etc.....	217	---	217	217	---	---	---	---
811 Use of lift trucks and other portable material handling eqp.....	246	---	246	246	---	---	---	---
812 Use of shop machinery not elsewhere classified.....	206	---	206	206	---	---	---	---
813 Loading and unloading materials.....	373	---	373	373	---	---	---	---
814 Handling material by hand.....	2,123	9	2,110	2,119	1	---	3	---
816 Inhalation of or contact with fumes or gases.....	11	---	10	10	---	---	1	---
817 Foreign object in eye, using eye protection.....	617	1	611	612	4	---	1	---
818 Foreign object in eye, not using eye protection.....	595	4	581	585	8	---	2	---
819 Struck by flying or falling object.....	731	3	726	729	1	---	1	---
820 Electrical flash, shock, or burn.....	128	2	125	127	---	---	1	---
821 Fire or explosion of fuses or torpedoes.....	6	---	6	6	---	---	---	---
822 Other fire or explosion.....	65	2	63	65	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances.....	290	1	289	290	---	---	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified.....	2,108	10	2,032	2,042	63	---	3	---
825 Other acc/inc while servicing or maintaining eqp-eqp std.....	1,902	9	1,886	1,895	3	---	4	---
SUBTOTAL.....	13,444	55	13,280	13,335	87	---	22	---
L. MAINTENANCE OF WAY AND STRUCTURES								
852 Crossing over, under, or between locos or cars-eqp std.	8	---	8	8	---	---	---	---
853 Striking or being struck by eqp, structures, or material-eqp std.....	723	2	719	721	1	---	1	---
854 Use of hand tools.....	2,141	---	2,126	2,126	2	---	13	---
855 Use of portable power tools.....	437	---	434	434	---	---	3	---
856 Use of welding equipment.....	83	---	79	79	---	---	4	---
857 Use of oxygen-acytelene, natural gas cutting equipment.	80	---	77	77	---	---	3	---
858 Use of grinding equipment.....	114	---	114	114	---	---	---	---
859 Use of scaffolds, ladders, etc.....	88	---	88	88	---	---	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.....	206	---	203	203	---	---	3	---
861 Use of lift trucks and other portable material handling eqp.....	93	---	93	93	---	---	---	---
862 Use of shop machinery not elsewhere classified.....	58	2	56	58	---	---	---	---
863 Loading and unloading materials.....	1,103	2	1,098	1,100	2	---	1	---
864 Handling material by hand.....	2,007	9	1,988	1,997	2	---	8	---
866 Inhalation of or contact with fumes or gases.....	5	---	5	5	---	---	---	---
867 Foreign object in eye, using eye protection.....	265	---	262	262	---	---	3	---
868 Foreign object in eye, not using eye protection.....	520	---	511	511	2	---	7	---
869 Struck by flying or falling object.....	1,061	3	1,051	1,054	3	---	4	---
870 Electrical flash, shock, or burn.....	37	---	37	37	---	---	---	---
871 Fire or explosion of fuses or torpedoes.....	4	---	4	4	---	---	---	---
872 Other fire or explosion.....	49	---	47	47	2	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances.....	112	1	108	109	1	---	2	---
874 Stumbling, slipping, falling, caught, not elsewhere classified.....	2,036	4	1,991	1,995	37	---	4	---
875 Use of maintenance of way equipment not elsewhere classified.....	282	1	280	281	---	---	1	---
876 Inset/remov ties,switch timbers,tie plates,etc.by use of hand tools.....	2,175	2	2,165	2,167	1	---	7	---
877 Inset/remov ties,switch tim,tie plates,etc.by use of por power tools.....	293	---	292	292	1	---	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings.....	898	3	891	894	2	---	2	---
879 Handling rail by use of power tools.....	171	---	171	171	---	---	---	---
880 Handling rail by use of hand tools.....	580	1	579	580	---	---	---	---
889 Other acc/inc while maintaining way and structures.....	726	3	711	714	8	---	4	---
SUBTOTAL.....	16,355	33	16,188	16,221	64	---	70	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Emp Not On Duty Total	Passen- gers	Non Tres- passers	Tres- passer
M. MISCELLANEOUS							
1. FREIGHT, BAGGAGE, EXPRESS, OR MAIL							
901 Handling freight, baggage, express or mail.....	247	9	238	247	---	---	---
902 Struck or caught by shifted lading.....	14	1	12	13	---	---	1
903 Tripping over, or struck by falling baggage in passenger car-eqp std.....	2	---	2	2	---	---	---
904 Other accident/incident involving freight, baggage, express, or mail.....	35	1	30	31	---	4	---
SUBTOTAL.....	298	11	282	293	---	4	1
2. WINDOWS, DOORS, ETC.							
908 Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std.....	48	9	36	45	---	---	3
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std.....	87	9	78	87	---	---	---
910 Closing or opening plug type car doors, defective equipment-eqp std.....	20	2	14	16	---	---	4
911 Closing or opening plug type car doors, no defects-equipment std.....	60	6	53	59	---	---	1
912 Closing or opening coach trap doors-equipment standing.....	59	36	18	54	---	5	---
913 Interior doors-equipment standing.....	56	14	35	49	1	4	2
914 Opening or closing locomotive doors-equipment standing.....	70	52	18	70	---	---	---
915 Opening or closing locomotive windows-equipment standing.....	34	32	2	34	---	---	---
916 Opening or closing caboose doors-equipment standing....	16	11	5	16	---	---	---
917 Opening or closing caboose windows-equipment standing..	2	1	1	2	---	---	---
918 Opening and closing other windows.....	17	9	7	16	1	---	---
919 Other accidents/incidents involving windows or doors...	278	61	183	244	16	9	9
SUBTOTAL.....	747	242	450	692	18	18	19
3. PASSENGER CAR DOORS							
920 Caught by side doors while entering coach-equipment standing.....	3	1	2	3	---	---	---
921 Caught by side doors while exiting coach-equipment standing.....	2	---	1	1	---	1	---
924 Struck by side doors while entering coach-equipment standing.....	3	1	2	3	---	---	---
925 Struck by side doors while exiting coach-equipment standing.....	2	---	1	1	---	1	---
SUBTOTAL.....	10	2	6	8	---	2	---
4. STUMBLING, SLIPPING, FALLING, CAUGHT, NOC							
930 Stumbling/slipping, etc. on snow or ice.....	539	212	251	463	69	---	7
931 Stumbling/slipping, etc. on foreign material or irregular surface.....	1,758	938	704	1,642	96	3	17
932 Stumbling/slipping, etc. on parts of track in place....	309	155	129	284	13	1	7
933 Stumbling/slipping, etc. on stairways, ramps or platforms.....	673	92	369	461	66	39	105
934 Slip/fall, etc. between loco/car and other cars and struct-eqp std.....	89	49	28	77	4	6	---
935 From bridges or trestles.....	39	11	24	35	---	---	2
936 From structures other than bridges or trestles.....	97	7	85	92	2	---	2
937 Into depressions.....	276	145	113	258	12	1	5
938 While on locomotive or car-equipment standing.....	279	115	139	254	3	10	11
939 Other, stumbling, slipping, falling, caught, etc.....	622	167	389	556	33	15	18
SUBTOTAL.....	4,681	1,891	2,231	4,122	298	75	174
5. FLYING OR FALLING OBJECTS, BURNS AND SIMILAR CAUSES, NOC							
940 Foreign object in eye.....	864	602	242	844	15	---	5
941 Struck by flying of falling object (except assaults)...	287	84	181	265	5	1	16
942 Electrical flash, shock, or burn.....	43	6	16	22	---	---	21
943 Fire or explosion of fuses or torpedoes.....	10	9	1	10	---	---	---
944 Other fire or explosion.....	46	9	18	27	9	---	10
945 Burned by hot or corrosive substances.....	48	14	31	45	1	---	2
946 Inhalation of or contact with fumes or gases.....	22	17	4	21	---	---	1
949 Other acc/inc resulting from flying/falling objcs, burns, etc.....	70	28	37	65	2	---	3
SUBTOTAL.....	1,390	769	530	1,299	32	1	34

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passer
6. OPERATION OF ON-TRACK WORK EQUIPMENT								
954 Getting on/off on-track work equipment - equipment standing.....	62	---	62	62	---	---	---	---
959 Other A/I involving on-track work equipment - equipment standing.....	107	---	107	107	---	---	---	---
SUBTOTAL.....	169	---	169	169	---	---	---	---
7. ASSAULT								
960 Struck by thrown or otherwise propelled object,while on loco-eqp std.....	9	8	1	9	---	---	---	---
961 Struck by thrown or otherwise propelled object,while on cab-eqp std.....	5	4	1	5	---	---	---	---
962 Struck by thrown or otherwise propelled object,while on car-eqp std.....	4	4	---	4	---	---	---	---
963 Struck by thrown or otherwise propelled object, not on on-track eqp.....	32	10	21	31	1	---	---	---
964 Other assaults to persons on trains - equipment standing.....	35	25	8	33	---	1	---	1
969 Other assaults to persons not on trains.....	203	39	145	184	16	---	2	1
SUBTOTAL.....	288	90	176	266	17	1	2	2
8. OTHER CAUSES								
970 Performing rerailling or other clearing operations.....	131	33	98	131	---	---	---	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing).....	858	119	683	802	43	---	10	3
979 Servicing and maintenance of highway vehicles.....	37	1	35	36	1	---	---	---
980 Horseplay.....	41	3	30	33	8	---	---	---
981 Animal bites, including snake bites.....	28	10	18	28	---	---	---	---
982 Insect bites.....	395	120	269	389	6	---	---	---
989 Other accidents/incidents.....	1,026	272	679	951	44	3	27	1
SUBTOTAL.....	2,516	558	1,812	2,370	102	3	37	4
SUBTOTAL.....	10,099	3,563	5,656	9,219	467	104	266	43
GRAND TOTAL.....	47,112	9,526	36,179	45,705	647	213	494	53

TABLE S39C. ILLNESSES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS						
002 Adjusting coupler - equipment standing	1	1	---	1	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	1	1	---	1	---	---
SUBTOTAL.....	2	2	---	2	---	---
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 LOCOMOTIVES						
101 Burn or electrical shock - equipment standing	2	2	---	2	---	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing	1	1	---	1	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	23	22	1	23	---	---
110 Defective locomotive seat - equipment standing	8	5	3	8	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	4	2	2	4	---	---
SUBTOTAL.....	38	32	6	38	---	---
OPERATING HAND BRAKES						
209 Other accidents/incidents while operating hand brakes - eqp standing	2	2	---	2	---	---
SUBTOTAL.....	2	2	---	2	---	---
OPERATING SWITCHES						
302 Slipped, tripped or fell not due to ice or snow	1	1	---	1	---	---
303 Parts of body struck or caught by mechanism of switch	1	1	---	1	---	---
305 Lining switches, defective equipment	1	1	---	1	---	---
306 Lining switches, no defects	1	1	---	1	---	---
309 Other accidents/incidents while operating switches - equipment std	4	4	---	4	---	---
SUBTOTAL.....	8	8	---	8	---	---
GETTING ON OR OFF CARS OR LOCOMOTIVES						
504 Stepping or tripping on foreign material or irreg surface - eqp std	1	1	---	1	---	---
SUBTOTAL.....	1	1	---	1	---	---

TABLE S39C. (CONTINUED)

Occurrence	Total Illness	...Employees On Duty... Trainmen Other	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
SERVICING OR MAINTENANCE OF EQUIPMENT						
804 Use of hand tools	9	---	9	9	---	---
805 Use of portable power tools	2	---	2	2	---	---
806 Use of welding equipment	36	---	36	36	---	---
807 Use of oxygen-acetylene, natural gas cutting equipment	4	---	4	4	---	---
808 Use of grinding equipment	1	---	1	1	---	---
810 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---
811 Use of lift trucks and other portable material handling eqp	1	---	1	1	---	---
814 Handling material by hand	18	---	18	18	---	---
816 Inhalation of or contact with fumes or gases	57	1	56	57	---	---
818 Foreign object in eye, not using eye protection	3	---	3	3	---	---
819 Struck by flying or falling object	1	---	1	1	---	---
820 Electrical flash, shock, or burn	57	---	57	57	---	---
821 Fire or explosion of fuses or torpedoes	1	---	1	1	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	77	1	76	77	---	---
824 Stumbling, slipping, falling, caught, not elsewhere classified	2	1	1	2	---	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	84	---	83	83	1	---
SUBTOTAL.....	354	3	350	353	1	---
MAINTENANCE OF WAY AND STRUCTURES						
854 Use of hand tools	29	---	29	29	---	---
855 Use of portable power tools	11	---	11	11	---	---
856 Use of welding equipment	9	---	9	9	---	---
857 Use of oxygen-acetylene, natural gas cutting equipment	3	---	3	3	---	---
860 Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---
863 Loading and unloading materials	11	---	11	11	---	---
864 Handling material by hand	35	---	35	35	---	---
866 Inhalation of or contact with fumes or gases	76	---	74	74	2	---
868 Foreign object in eye, not using eye protection	2	---	2	2	---	---
870 Electrical flash, shock, or burn	24	---	24	24	---	---
872 Other fire or explosion	4	---	4	4	---	---
873 Burned or irritated by hot, corrosive or toxic substances	79	1	78	79	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	1	---	---
875 Use of maintenance of way equipment not elsewhere classified	2	---	2	2	---	---
876 Inset/remov ties,switch timbers,tie plates,etc.by use of hand tools	69	---	69	69	---	---
877 Inset/remov ties,switch tim,tie plates,etc.by use of por power tools	13	---	13	13	---	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	37	---	37	37	---	---
879 Handling rail by use of power tools	1	---	1	1	---	---
880 Handling rail by use of hand tools	6	---	6	6	---	---
889 Other acc/inc while maintaining way and structures	285	1	284	285	---	---
SUBTOTAL.....	698	2	694	696	2	---
FREIGHT, BAGGAGE, EXPRESS OR MAIL						
901 Handling freight, baggage, express or mail	1	---	1	1	---	---
SUBTOTAL.....	1	---	1	1	---	---

TABLE S39C. (CONTINUED)

Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Duty... Total	Emp Not On Duty	Passen- gers	Non Tres- passers	Tres- passers
WINDOWS, DOORS, ETC.								
913 Interior doors-equipment standing	1	1	---	1	---	---	---	---
919 Other accidents/incidents involving windows or doors	1	---	1	1	---	---	---	---
SUBTOTAL.....	2	1	1	2	---	---	---	---
STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
931 Stumbling/slipping, etc. on foreign material or irregular surface	1	---	1	1	---	---	---	---
933 Stumbling/slipping, etc. on stairways, ramps or platforms	1	---	1	1	---	---	---	---
939 Other, stumbling, slipping, falling, caught, etc.	6	4	2	6	---	---	---	---
SUBTOTAL.....	8	4	4	8	---	---	---	---
FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940 Foreign object in eye	2	2	---	2	---	---	---	---
942 Electrical flash, shock, or burn	2	1	1	2	---	---	---	---
943 Fire or explosion of fusees or torpedoes	2	2	---	2	---	---	---	---
944 Other fire or explosion	4	1	3	4	---	---	---	---
945 Burned by hot or corrosive substances	10	8	1	9	1	---	---	---
946 Inhalation of or contact with fumes or gases	119	78	38	116	1	---	2	---
949 Other acc/inc resulting from flying/falling objs, burns, etc.	26	10	16	26	---	---	---	---
SUBTOTAL.....	165	102	59	161	2	---	2	---
OPERATION OF ON-TRACK WORK EQUIPMENT								
959 Other A/I involving on-track work equipment - equipment standing	3	1	2	3	---	---	---	---
SUBTOTAL.....	3	1	2	3	---	---	---	---
OTHER OCCURRENCES								
970 Performing rerailling or other clearing operations	8	2	6	8	---	---	---	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing)	8	---	7	7	1	---	---	---
979 Servicing and maintenance of highway vehicles	2	---	1	1	1	---	---	---
980 Horseplay	2	1	1	2	---	---	---	---
981 Animal bites, including snake bites	1	1	---	1	---	---	---	---
982 Insect bites	51	11	39	50	1	---	---	---
989 Other accidents/incidents	117	24	93	117	---	---	---	---
SUBTOTAL.....	189	39	147	186	3	---	---	---
GRAND TOTAL.....	1,472	198	1,264	1,462	8	---	2	---

NOTE: Contractor employees are included with nontrespassers

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents which were in effect at the end of 1980 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;

Equipment (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 \$2,900 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 workdays; 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 which exceed the reporting threshold.

Train Incident - an event involving the movement of railroad on-track equipment which results in a death, a reportable injury, or a reportable illness, but 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. Also includes on-track maintenance equipment.

casualty - fatality, non-fatal injury, or occupational illness which results from railroad operations.

class I railroad - a railroad with an annual gross operating revenue in excess of \$50 million.

class II railroad - a railroad with an annual gross operating revenue of between \$10 and \$50 million.

class III railroads - all switching and terminal companies, and all railroads with annual operating revenues of less than \$10 million.

consist - on-track railroad equipment such as a train, locomotive, group of rail cars, or a single rail car not coupled to another car or locomotive.

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

derailment - one or more units of rolling stock equipment leave 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 or other compensation.

employee not on duty - a railroad employee who is on railroad property for a purpose connected with their 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 which 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, and includes 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, which extends through railroad yards or between stations and over which trains operate by timetable 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.

non-fatal casualty - injuries and occupational illnesses incurred during railroad operations and maintenance procedures.

non-tresspasser - 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 which is caused by environmental factors associated with a worker's employment, but not resulting from an injury.

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

operating practices - 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 which is under the jurisdiction and maintenance of a public authority.

rail-highway crossing - the location where one or more railroad tracks intersect a public or private thoroughfare, a side walk, or a pathway.

railroad - any surface transportation system which 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 rail car 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 - includes engineers and motormen, firemen and helpers, conductors, brakemen, and flagmen engaged in passenger, freight, yard or work service, and train baggagemen, but not hostlers.

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

trespasser - any person whose presence on railroad property, used in railroad operations, is prohibited or unlawful.

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APPENDIX B1
REPORTING FORMS

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION
RAILROAD INJURY AND ILLNESS SUMMARY

*Form Approved
OMB No. 04-R4009*

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

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

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

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

7. MILES RUN DURING MONTH			
A. LOCOMOTIVE TRAIN MILES	B. MOTOR TRAIN MILES	C. YARD SWITCHING MILES	D. TOTAL

8. A. EMPLOYEE MANHOURS WORKED		B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED
TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	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 (8-76) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

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

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

1. NAME OF REPORTING RAILROAD		Amtrak <input type="checkbox"/>	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
		Autotrain <input type="checkbox"/>		
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		6. TIME OF ACCIDENT/INCIDENT
		month	day	year
				am <input type="checkbox"/> pm <input type="checkbox"/>

7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) CODE

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) CODE	18. WEATHER (single entry) CODE
	1. Dawn 3. Dusk 2. Day 4. Dark	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 MPH

21. TRAIN NUMBER

22. TIME TABLE DIRECTION CODE

1. North 2. South 3. East 4. West

EQUIPMENT

23. TRAILING TONS (gross tonnage, excluding power units)	24. TYPE OF EQUIPMENT CONSIST (single entry) CODE	25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE
	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)	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 CODE
		1. Main 3. Siding 2. Yard 4. Industry
30. PRINCIPLE CAR/UNIT	30a. Initial and Number	30b. Position in Train
(1) First Involved (derailed, struck, striking, etc.)		
(2) Causing (mechanical failures)		
31. LOCOMOTIVE UNITS (no. of)	a. Head End b. Mid Train c. Rear End b. Manual c. Remote d. Manual e. Remote	32. CARS (no. of)
(1) Total in Train		(1) Total in Equipment Consist
(2) Total Derailed		(2) Total Derailed
		Loaded Empty a. Freight b. Pass. c. Freight d. Pass. e. Caboose

PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)

33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) \$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) \$
--	---

ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE CODE	36. CONTRIBUTING CAUSE CODE	37. If no code available, explain cause.
------------------------	-----------------------------	--

CASUALTIES

38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY	40. NUMBER OF FATALITIES
-------------------------------	-------------------------------------	--------------------------

CREW (no. of)				HOURS ON DUTY			
41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN	45. ENGINEER		46. CONDUCTOR	
				Hrs:	Mins:	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 <div style="text-align: right; margin-right: 20px;">Amtrak <input type="checkbox"/> Autotrain <input type="checkbox"/></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 <i>(single entry)</i>	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 <i>(two letter code)</i> CODE
10. CITY <i>(if in a city)</i>	11. HIGHWAY NAME OR NUMBER <i>(if private crossing, so state)</i>	

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED			RAILROAD EQUIPMENT INVOLVED		
12. TYPE	3. Truck-Trailer	6. Motorcycle	18. EQUIPMENT	3. Train <i>(standing)</i>	6. Light loco(s) <i>(moving)</i>
1. Auto	4. Bus	7. Pedestrian	1. Train <i>(units pulling)</i>	4. Car(s) <i>(moving)</i>	7. Light loco(s) <i>(standing)</i>
2. Truck	5. School Bus	8. Other <i>(specify)</i>	2. Train <i>(units pushing)</i>	5. Car(s) <i>(standing)</i>	8. Other <i>(specify)</i>
13. SPEED <i>(estimated mph at impact)</i>			17. POSITION OF CAR/UNIT IN TRAIN		
14. DIRECTION <i>(geographical)</i>			19. CIRCUMSTANCE		
1. North 3. East			1. Train struck highway user		
2. South 4. West			2. Train struck by highway user		
15. POSITION			19. CIRCUMSTANCE		
1. Stalled on crossing			1. Train struck highway user		
2. Stopped on crossing			2. Train struck by highway user		
3. Moving over crossing			CODE		
19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither CODE					

ENVIRONMENT

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

TRAIN AND TRACK

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

CROSSING WARNING

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

MOTORIST ACTION

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

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

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

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

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

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

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

(Round to the nearest whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR
Enter the total number of hours actually worked by all employees. DO NOT include any non-work time even

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

(Round to the nearest whole number)

IV. REPORTABLE INJURIES AND ILLNESSES

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

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

V. MONTHLY DATA OF REPORTABLE INJURIES AND ILLNESSES

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

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

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CORPORATE NAME AND MAILING ADDRESS OF REPORTING RAILROAD →

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

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

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

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

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

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

VII. COMMENTS: _____

Report prepared by: _____ Area Code and Phone: _____

Title: _____ Date: _____

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**ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE**

1. REPORTING RAILROAD			ALPHABETIC CODE		2. REPORT YEAR		
3. 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.

KEY WORK INDEX

PROPERTY OF FRA
RESEARCH & DEVELOPMENT
LIBRARY

<u>Subject</u>	<u>Page</u>
fatalities	
to employees	23,54,83,90,
to others	23,54,74
at rail-highway crossings	23,74,102
by state	46
by railroad	54
injuries	
to employees	24,56,84,91,92
by type of injury	78,80
to others	
at rail-highway crossings	
by state	
by railroad	
illnesses	
to employees	
to others	110,121

Accident/Incident Bulletin, No. 149 Calendar Year
1980, US DOT, FRA Office of Safety, 1981-12-
Safety

SMBAD 00 VF36SA

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FEDERAL RAILROAD ADMINISTRATION
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