



**U.S. Department of
Transportation**

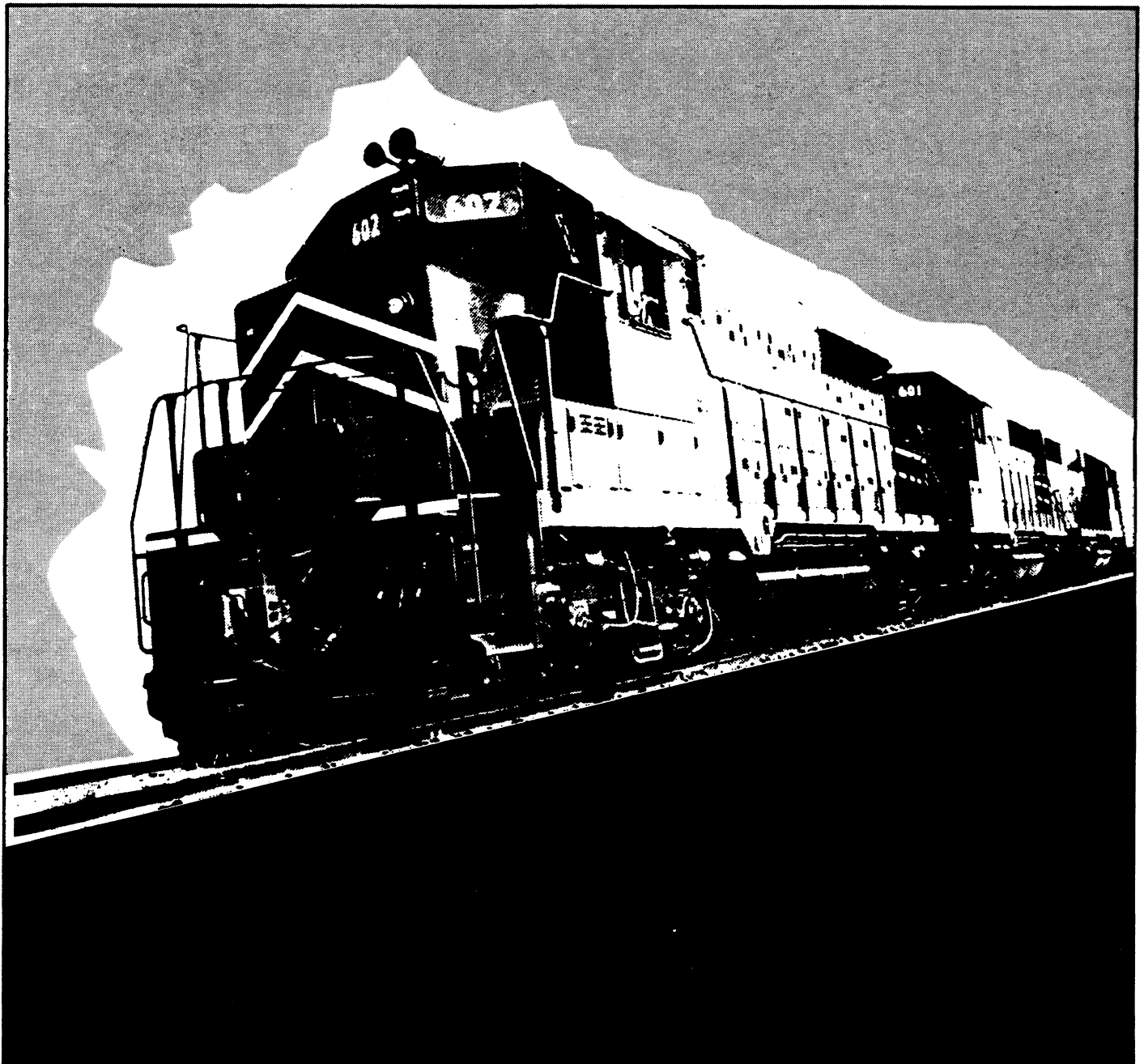
**Federal Railroad
Administration
Office of Safety**

Accident/Incident Bulletin

No. 160

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NOTICE

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

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INTRODUCTION

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

Bulletin 160 summarizes reportable accidents/incidents that occurred in the United States during 1991.

The reporting threshold that determines which accidents must be reported is adjusted to reflect the effect of inflation on damage costs. Between 1957 and 1974, any train accident exceeding \$750 in damages to railroad on-track equipment, signals, track or track structures, and roadbed had to be reported. Since the reporting threshold remained the same during this period, the rise in damage costs due to inflation contributed to an increasing number of reported accidents. In 1975, the FRA implemented new rules for reporting railroad accidents. The reporting threshold was raised to \$1,750; and the threshold was adjusted every 2 years to reflect inflationary changes. The reporting threshold in 1990 was \$5,700.

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

To better assess the impact of increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. Therefore, the 1991 Accident/Incident Bulletin gives data for train accidents and train incidents by billions of revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

Most accidents that occur at highway-rail crossings between the highway user and on-track equipment do not qualify as reportable train accidents. In 1991, 156 highway-rail crossing accidents qualified as reportable train accidents. These accidents are also tabulated in the Highway-Rail Accident/Incident and Inventory Bulletin. This year another category was created in the section "Historical Trends, Last 6 Years" to isolate train accidents that are the result of highway-rail crossing collisions. The totals for accidents and incidents have not changed with this new category.

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

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

EMPLOYEE INJURIES

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

- 1) Any event or activity that causes an employee physical harm while in the work-environment is considered to be work-related. This means that an injury may occur in a derailment or it may be associated with routine activity, such as, the throwing of switches.
- 2) All employees, regardless of occupation or location of work assignment are covered by the rules. This includes every employee; from members of train crews and maintenance workers, to employees who work in office environments.
- 3) The physical harm sustained by an employee does not need to be major in nature, but there are certain consequences that must occur in order for an injury to be reportable. These are:
 - i) treatment beyond first aid was required (21% in 1991);
 - ii) the injury caused the employee to be absent from work for at least one day (70% in 1991);
 - iii) the injury caused the employee to be restricted in the performance of his work (9% in 1991).

An example of the types of injuries reported can be found in this year's bulletin. In 1991, 51% of all injuries were sprains and strains, 16% were bruises and contusions, and 11% were cuts and lacerations. These injuries accounted for 78% of the total. Approximately 27% of these injuries were minor in nature and only required simple medical treatment, after which the employee was able to return to work the same day.

All eye injuries are potentially serious since they involve an extremely sensitive part of the body. Dust or other foreign particle in the eye accounted for 5% of the total employee injuries. In 50% of these eye injuries, the employee was treated and returned to work without any restriction. Serious injuries such as amputations and fractures accounted for .3% and 6.4%, respectively, of all injuries reported in 1991.

There is a common perception that most employee injuries occur in connection with the movement of on-track equipment. Approximately 84%, however, involve other circumstances. There were 15,906 employees hurt in 1991 in incidents where moving on-track equipment was not a factor. The majority of these injuries occurred while the employee was performing maintenance work. Employees in maintenance of way and maintenance of equipment occupational categories sustained 60% of the injuries that did not involve moving on-track equipment.

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

EMPLOYEE INJURIES BY TYPE INJURY

| Injury | Total Cases | Absent From Work..... -----Number of Days Off ----- | | | | | Restricted Duty Other | |
|--|----------------|---|-------|-------|-------|-------|--------------------------|-------|
| | | Cases | 1-5 | 6-10 | 11-15 | >= 16 | Duty | Other |
| INJURIES ASSOCIATED WITH TRAIN MOVEMENTS | | | | | | | | |
| Bruise/contusion, unspecified | 671 | 540 | 158 | 57 | 52 | 273 | 44 | 87 |
| Sprain/strain, unspecified | 1,416 | 1,210 | 238 | 139 | 102 | 731 | 79 | 127 |
| Cut/abrasion, unspecified | 255 | 157 | 46 | 29 | 15 | 67 | 12 | 86 |
| Puncture wound, unspecified | 16 | 10 | 4 | 3 | 2 | 1 | 0 | 6 |
| Electric shock/burn, unspecified | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Other burn, unspecified | 21 | 14 | 2 | 1 | 4 | 7 | 0 | 7 |
| Dislocation, unspecified | 17 | 16 | 1 | 1 | 0 | 14 | 1 | 0 |
| Fracture, unspecified | 193 | 167 | 13 | 13 | 6 | 135 | 11 | 15 |
| Dental related | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 5 |
| Amputation, unspecified | 18 | 18 | 0 | 0 | 0 | 18 | 0 | 0 |
| Object in eye | 225 | 130 | 107 | 13 | 6 | 4 | 8 | 87 |
| Hernia | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 |
| Concussion | 13 | 13 | 0 | 0 | 0 | 13 | 0 | 0 |
| Nervous shock | 13 | 11 | 6 | 0 | 1 | 4 | 2 | 0 |
| Internal injury | 6 | 6 | 2 | 1 | 0 | 3 | 0 | 0 |
| Skin reaction, unspecified | 10 | 6 | 5 | 0 | 0 | 1 | 2 | 2 |
| Unspecified injury | 173 | 129 | 55 | 25 | 7 | 42 | 12 | 32 |
| Subtotal | 3,057 | 2,432 | 637 | 283 | 195 | 1,317 | 171 | 454 |
| INJURIES RESULTING FROM OTHER EVENTS | | | | | | | | |
| Bruise/contusion, unspecified | 2,433 | 1,711 | 566 | 222 | 130 | 793 | 259 | 463 |
| Sprain/strain, unspecified | 8,299 | 6,566 | 1,542 | 791 | 463 | 3,770 | 781 | 952 |
| Cut/abrasion, unspecified | 1,764 | 627 | 260 | 96 | 49 | 222 | 170 | 967 |
| Puncture wound, unspecified | 277 | 118 | 54 | 19 | 13 | 32 | 19 | 140 |
| Electric shock/burn, unspecified | 94 | 75 | 32 | 7 | 7 | 29 | 3 | 16 |
| Other burn, unspecified | 198 | 102 | 57 | 14 | 7 | 24 | 15 | 81 |
| Dislocation, unspecified | 81 | 57 | 7 | 4 | 5 | 41 | 16 | 8 |
| Fracture, unspecified | 1,030 | 717 | 83 | 52 | 49 | 533 | 161 | 152 |
| Dental related | 73 | 13 | 8 | 2 | 2 | 1 | 0 | 60 |
| Amputation, unspecified | 25 | 22 | 4 | 3 | 1 | 14 | 1 | 2 |
| Object in eye | 730 | 276 | 232 | 26 | 7 | 11 | 62 | 392 |
| Hernia | 117 | 108 | 3 | 7 | 8 | 90 | 3 | 6 |
| Concussion | 27 | 23 | 4 | 3 | 2 | 14 | 0 | 4 |
| Nervous shock | 9 | 6 | 2 | 1 | 0 | 3 | 1 | 2 |
| Internal injury | 27 | 23 | 8 | 2 | 1 | 12 | 1 | 3 |
| Skin reaction, unspecified | 87 | 28 | 18 | 5 | 4 | 1 | 3 | 56 |
| Unspecified injury | 635 | 403 | 161 | 36 | 22 | 184 | 41 | 191 |
| Subtotal | 15,906 | 10,875 | 3,041 | 1,290 | 770 | 5,774 | 1,536 | 3,495 |
| FINAL TOTALS | 18,963 | 13,307 | 3,678 | 1,573 | 965 | 7,091 | 1,707 | 3,949 |

Note: The majority of cases appearing in the "Other" category are injuries that only required medical treatment.

EMPLOYEE INJURIES BY JOB

| Job* | Total Cases |Absent From Work..... | | | | | Restricted Duty | Other |
|--|----------------|----------------------------|-------------------------------|-------|-------|-------|--------------------|-------|
| | | Cases | -----Number of Days Off ----- | | | | | |
| | | | 1-5 | 6-10 | 11-15 | >= 16 | | |
| INJURIES ASSOCIATED WITH TRAIN MOVEMENTS | | | | | | | | |
| 1 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 |
| 2 | 15 | 9 | 3 | 1 | 1 | 4 | 0 | 6 |
| 3 | 238 | 162 | 44 | 13 | 8 | 97 | 23 | 53 |
| 4 | 124 | 80 | 19 | 10 | 7 | 44 | 20 | 24 |
| 5 | 113 | 84 | 12 | 12 | 5 | 55 | 2 | 27 |
| 6 | 2,565 | 2,095 | 559 | 247 | 174 | 1,115 | 126 | 344 |
| Sub | 3,057 | 2,432 | 637 | 283 | 195 | 1,317 | 171 | 454 |
| INJURIES RESULTING FROM OTHER EVENTS | | | | | | | | |
| 1 | 40 | 19 | 9 | 3 | 1 | 6 | 2 | 19 |
| 2 | 906 | 609 | 218 | 77 | 57 | 257 | 67 | 230 |
| 3 | 5,196 | 3,090 | 895 | 365 | 234 | 1,596 | 631 | 1,475 |
| 4 | 4,428 | 2,787 | 829 | 323 | 176 | 1,459 | 545 | 1,096 |
| 5 | 408 | 289 | 66 | 31 | 16 | 176 | 20 | 99 |
| 6 | 4,928 | 4,081 | 1,024 | 491 | 286 | 2,280 | 271 | 576 |
| Sub | 15,906 | 10,875 | 3,041 | 1,290 | 770 | 5,774 | 1,536 | 3,495 |
| Total | 18,963 | 13,307 | 3,678 | 1,573 | 965 | 7,091 | 1,707 | 3,949 |

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

1. HISTORICAL TRENDS, LAST 6 YEARS

OPERATIONS

TABLE 1. RAILROAD OPERATIONAL PROFILE

| YEAR | EMPLOYEE HOURS | MOTOR TRAIN MILES | YARD SWITCHING MILES | LOCOMOTIVE TRAIN MILES | TOTAL TRAIN MILES |
|------|-------------------|-------------------------|----------------------------|------------------------------|-------------------------|
| 1986 | 644,351 | 34,015 | 108,258 | 424,825 | 567,099 |
| 1987 | 618,992 | 34,077 | 101,955 | 445,282 | 581,314 |
| 1988 | 608,086 | 34,877 | 105,325 | 469,132 | 609,334 |
| 1989 | 578,410 | 32,542 | 104,330 | 483,727 | 620,599 |
| 1990 | 553,603 | 33,227 | 98,151 | 477,459 | 608,837 |
| 1991 | 530,661 | 28,112 | 88,519 | 460,204 | 576,835 |

Note: All figures are shown in thousands

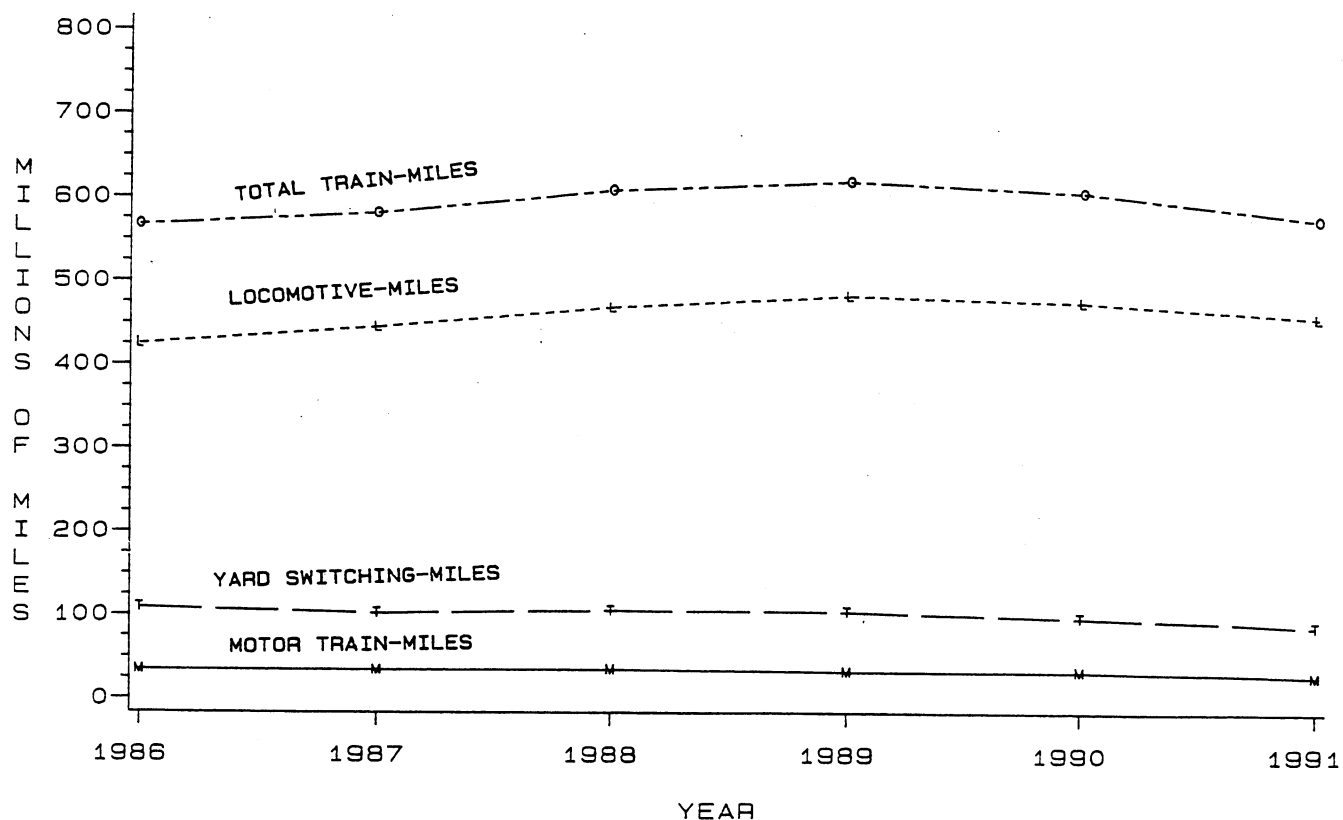
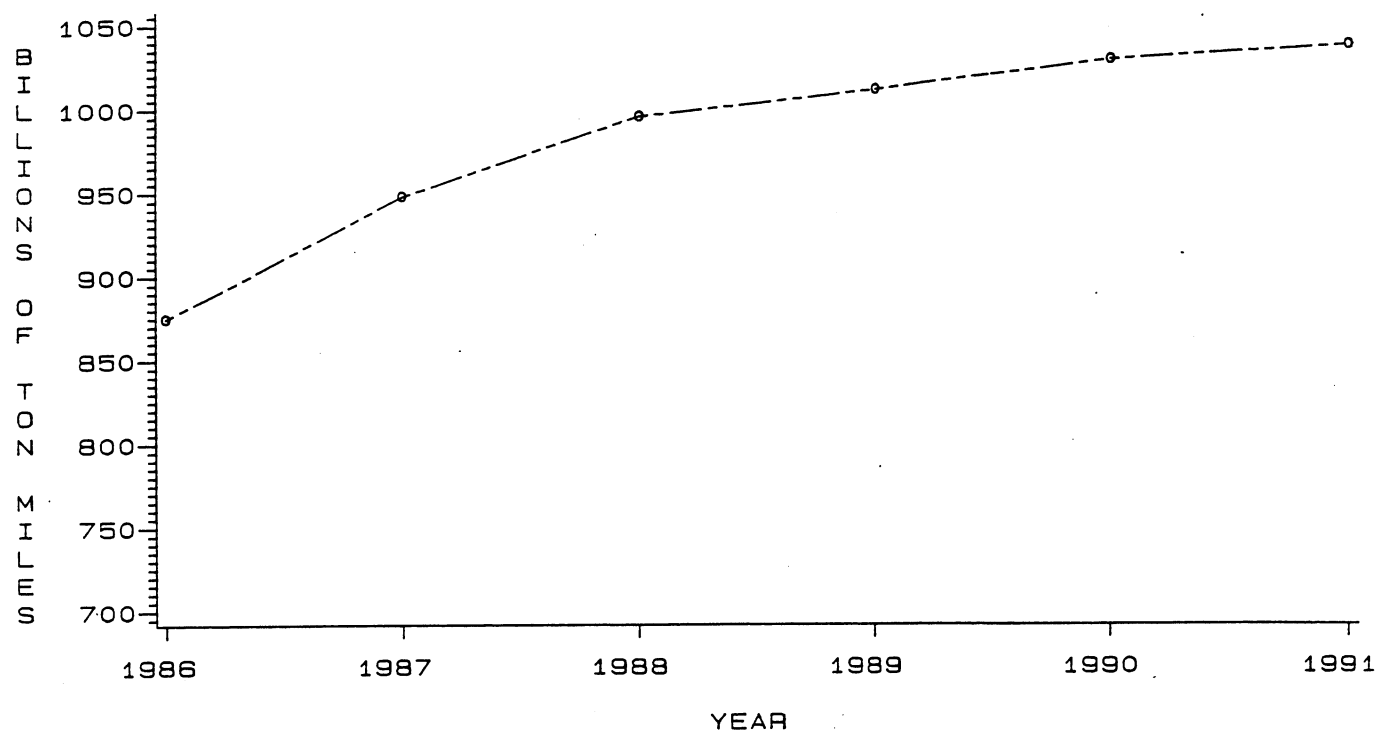


FIGURE 1. RAILROAD TRAIN-MILES

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

| | |
|------|---------|
| 1986 | 874.6 |
| 1987 | 948.0 |
| 1988 | 996.2 |
| 1989 | 1,012.3 |
| 1990 | 1,042.6 |
| 1991 | 1,039.8 |

1991 figures are preliminary



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES

TRAIN ACCIDENTS

TABLE 3. TRAIN ACCIDENT CAUSES

| YEAR | HUMAN FACTORS | MECHANICAL & ELECTRICAL FAILURES | TRACK DEFECTS | RAIL-HIGHWAY CROSSING IMPACTS | OTHER | TOTAL TRAIN ACCIDENTS |
|------|------------------|--|------------------|-------------------------------------|-------|-----------------------------|
| 1986 | 816 | 433 | 1,016 | 141 | 355 | 2,761 |
| 1987 | 856 | 430 | 938 | 135 | 288 | 2,647 |
| 1988 | 1,031 | 512 | 952 | 197 | 359 | 3,051 |
| 1989 | 982 | 501 | 1,019 | 182 | 396 | 3,080 |
| 1990 | 1,095 | 425 | 988 | 166 | 371 | 3,045 |
| 1991 | 887 | 415 | 968 | 156 | 388 | 2,814 |

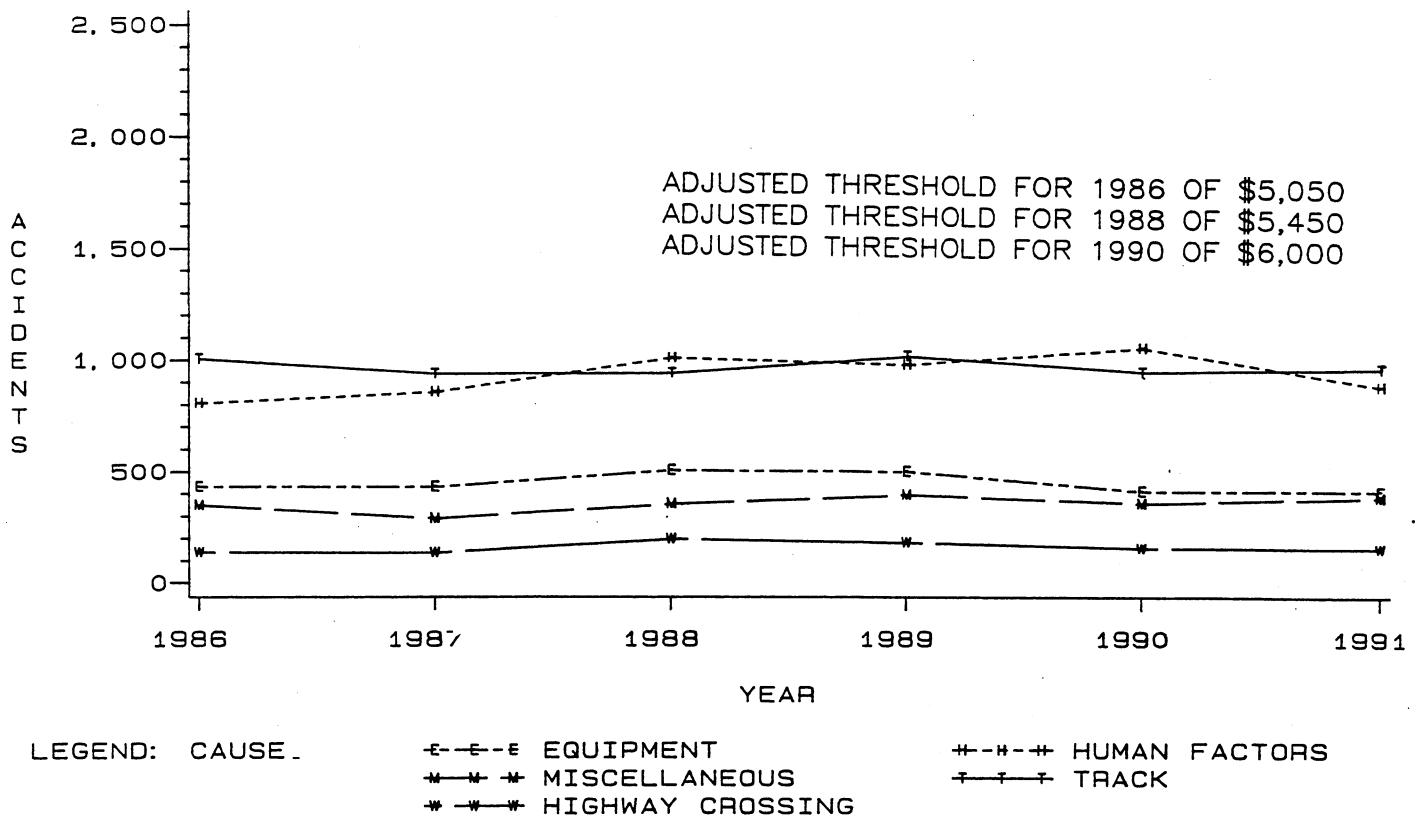


FIGURE 3A. ACCIDENT CAUSES - ADJUSTED

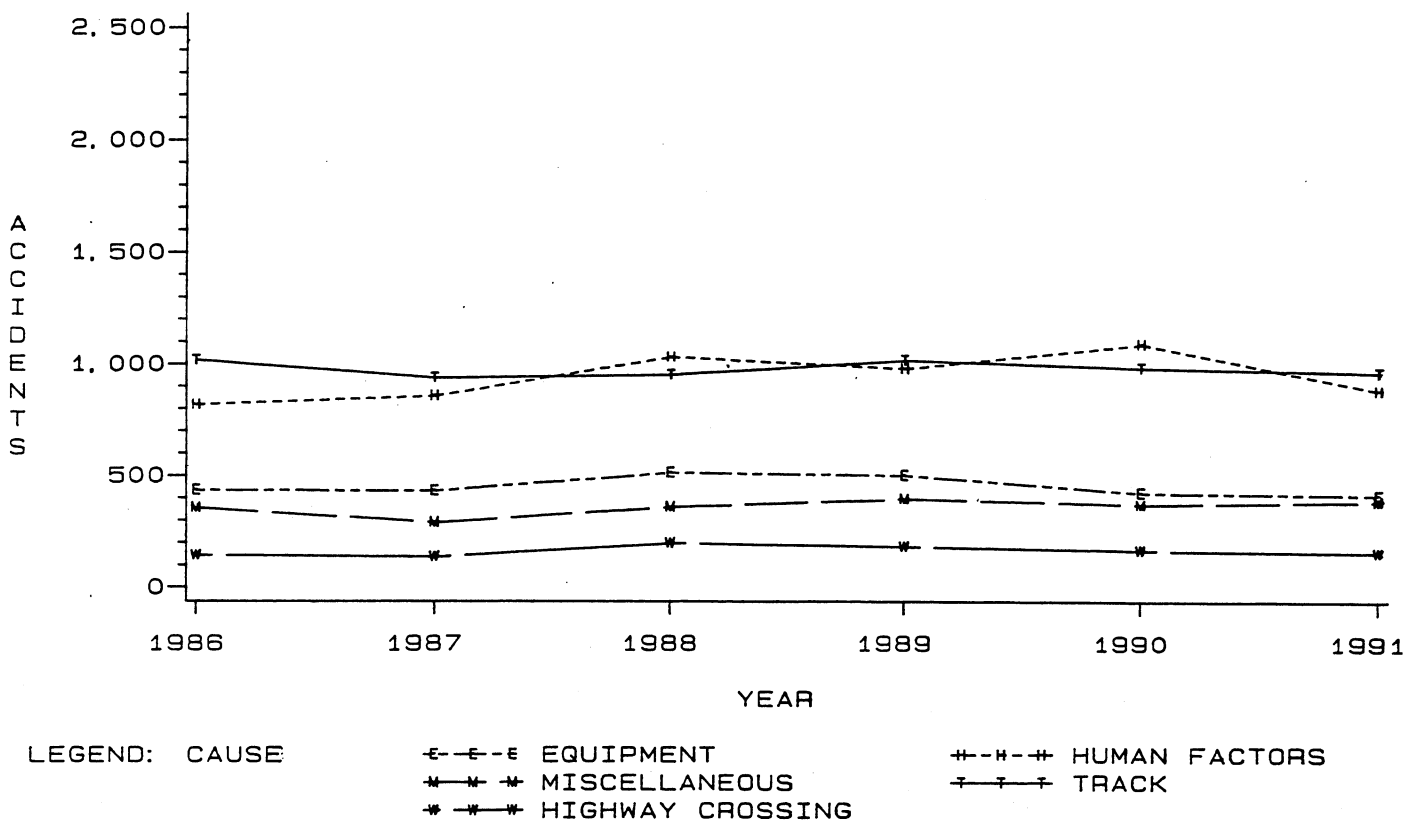
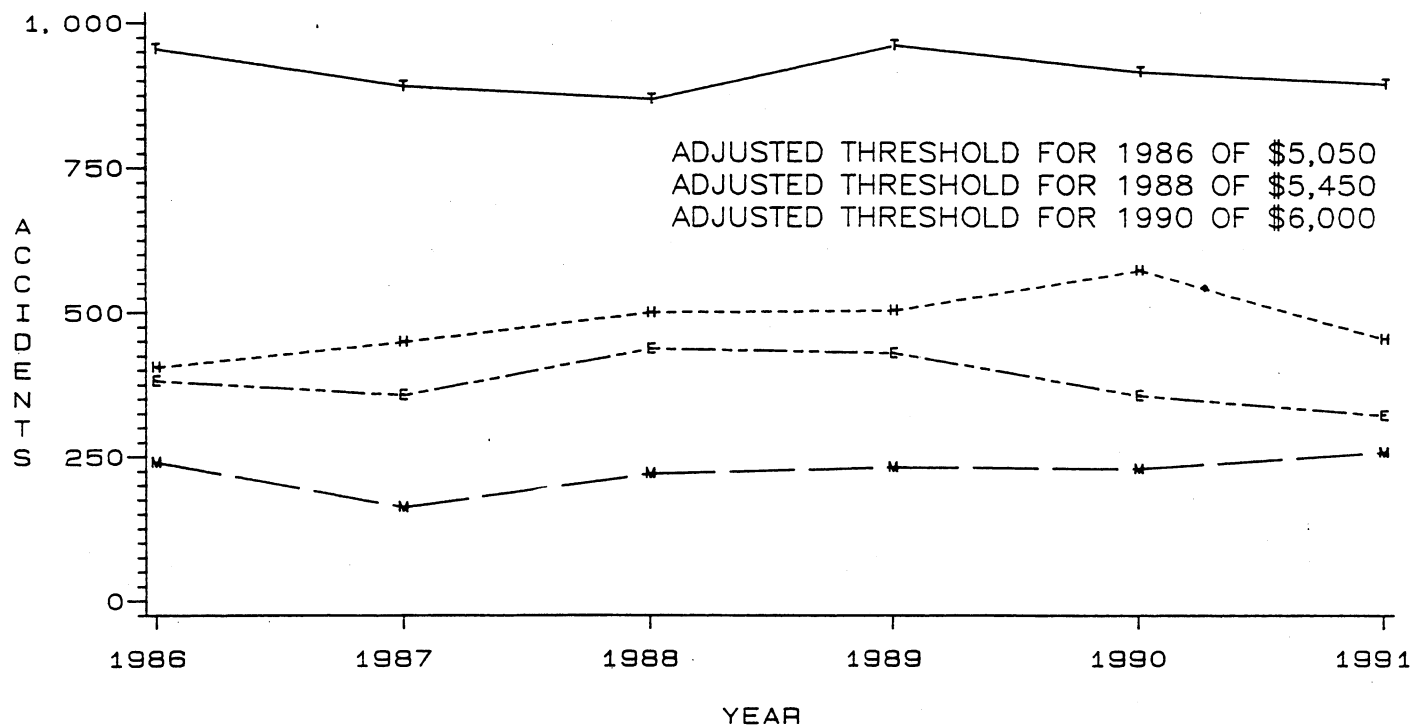
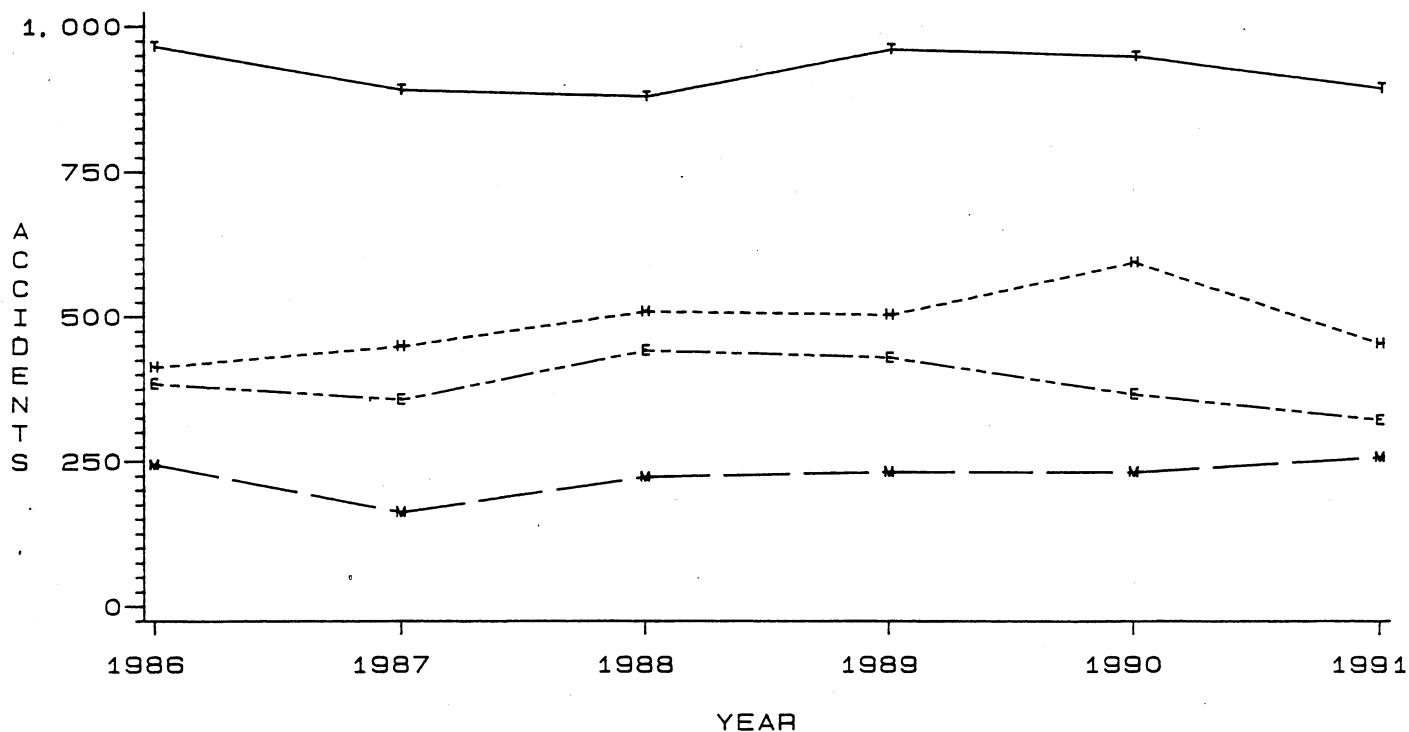


FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED



LEGEND: CAUSE - - - - - EQUIPMENT + - - - + HUMAN FACTORS
 * - - - * MISCELLANEOUS - - - - - TRACK

FIGURE 4A. DERAILMENT CAUSES - ADJUSTED



LEGEND: CAUSE - - - - - EQUIPMENT + - - - + HUMAN FACTORS
 * - - - * MISCELLANEOUS - - - - - TRACK

FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED

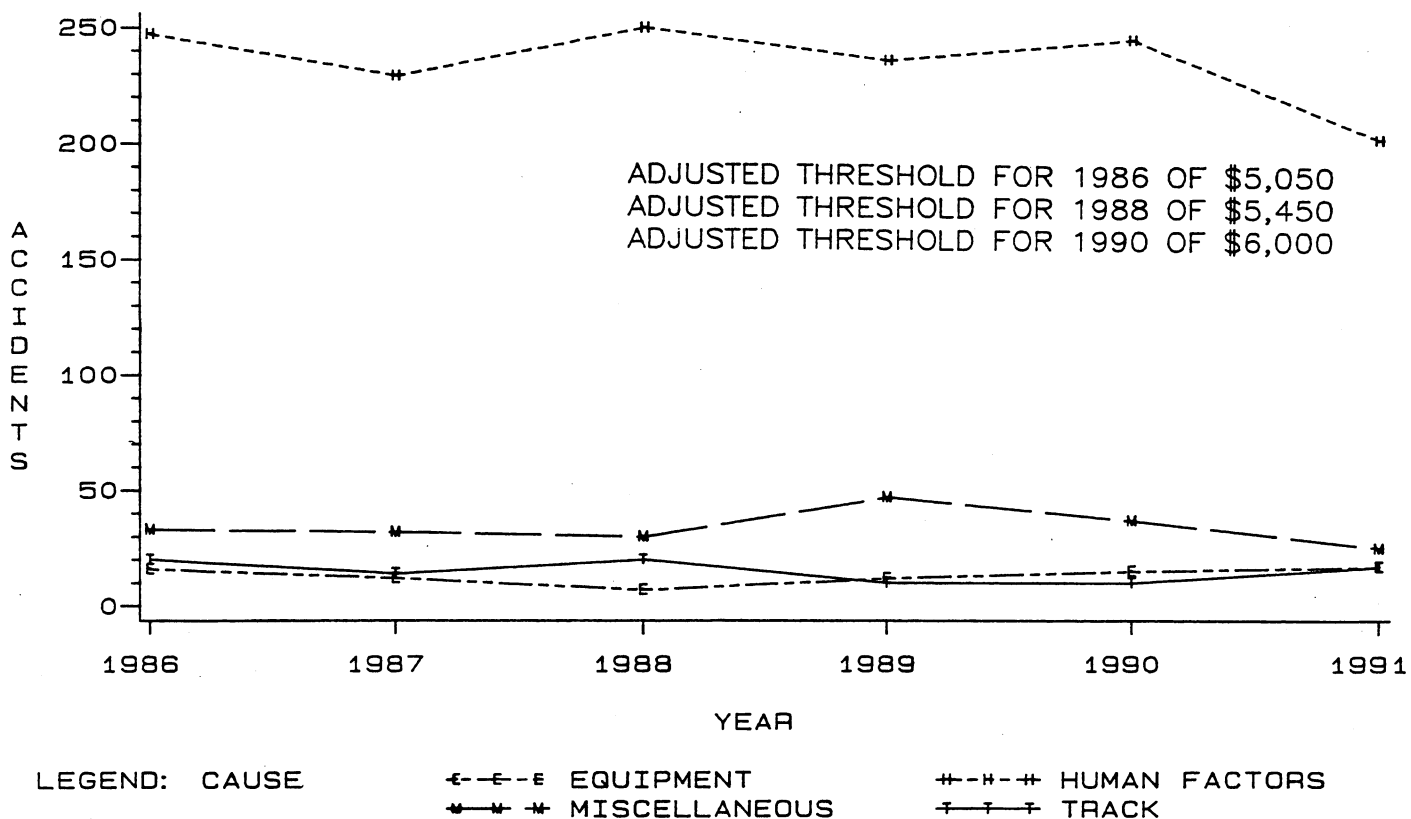


FIGURE 5A. COLLISION CAUSES - ADJUSTED

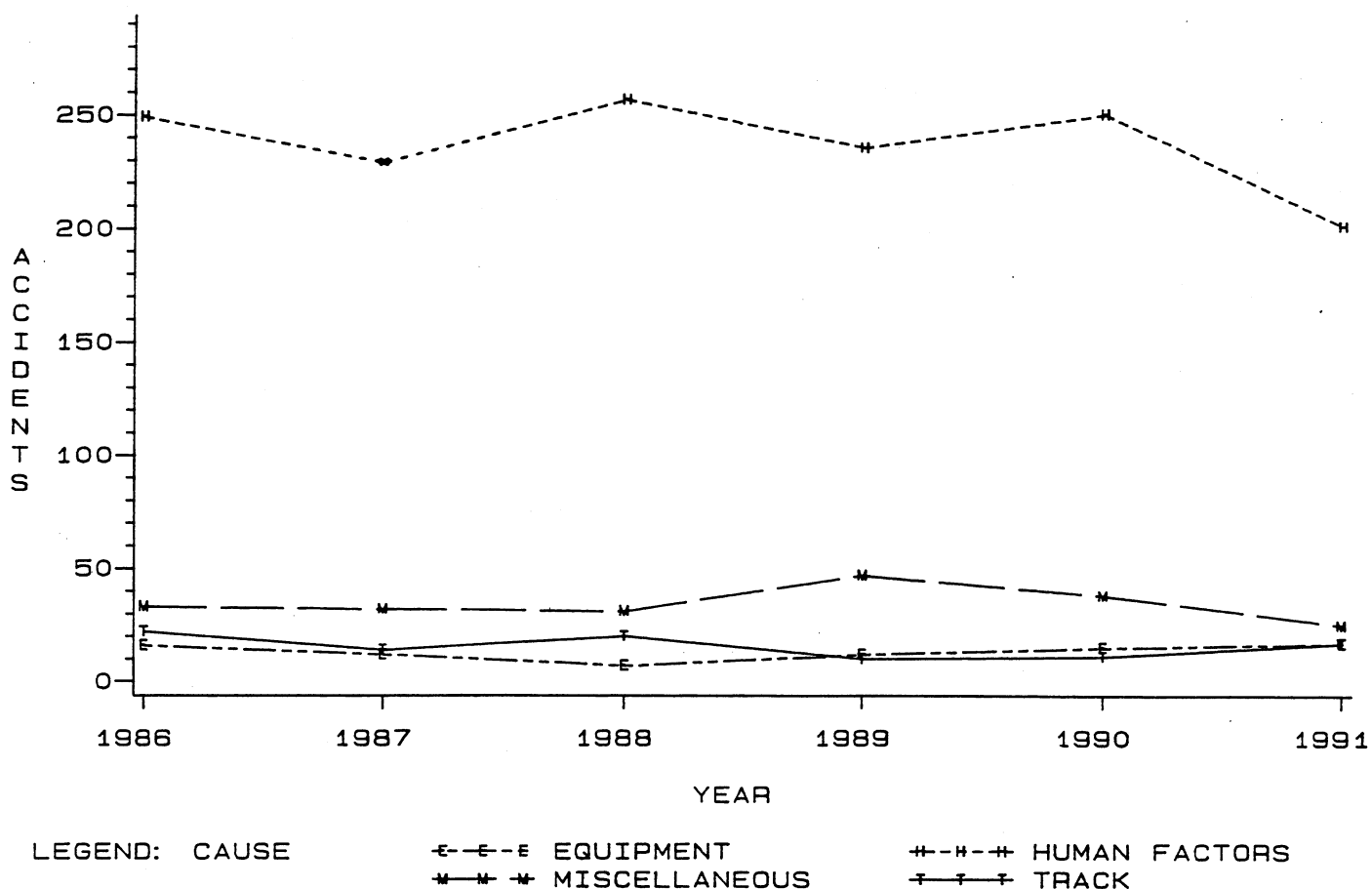


FIGURE 5B. COLLISION CAUSES - UNADJUSTED

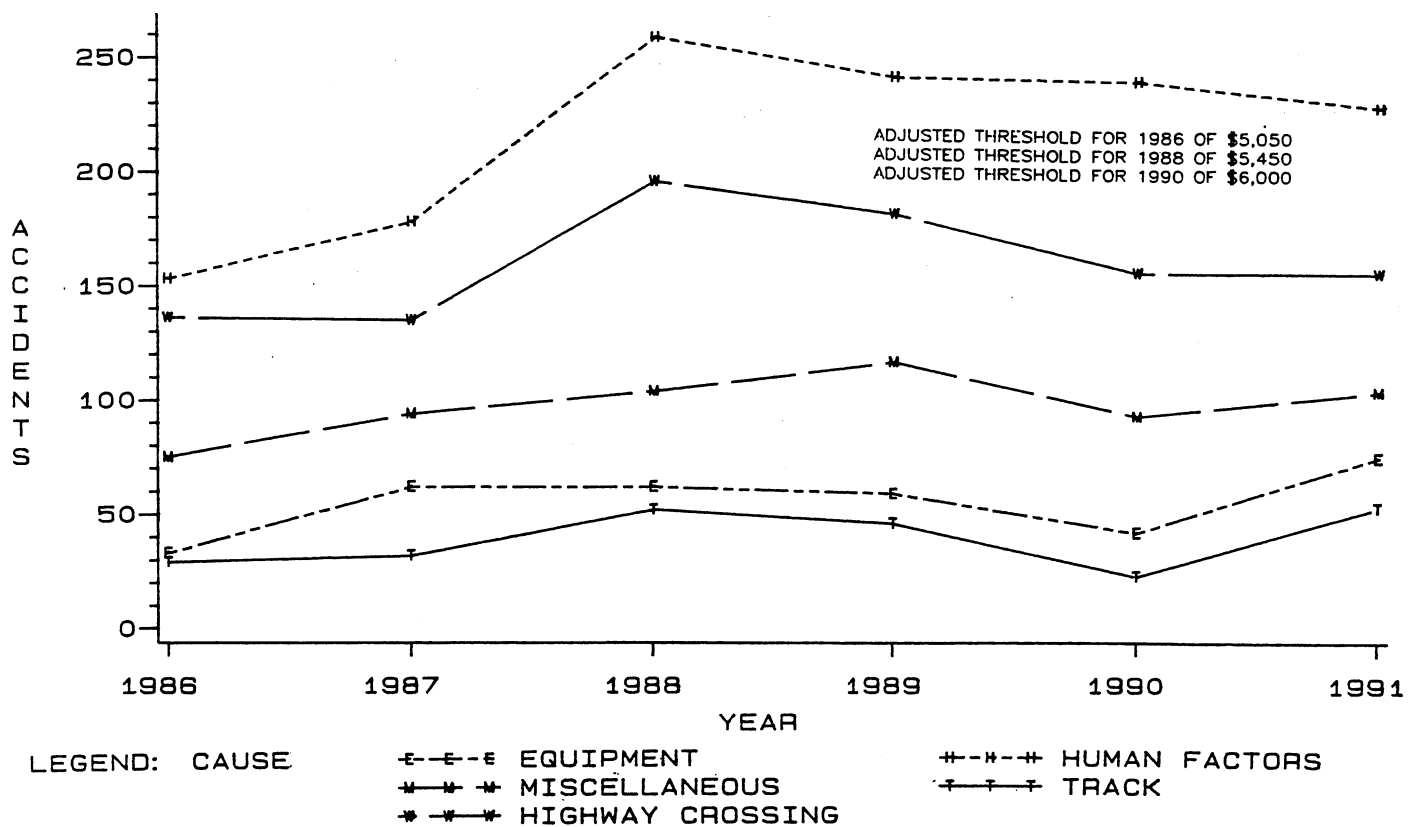


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - ADJUSTED



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

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

| YEAR | TOTAL ACCIDENTS | TOTAL \$ DAMAGE | AVERAGE \$ DAMAGE | DAMAGE/MILL. TRAIN MILES | ACCIDENTS/ MILLION TRAIN MILES |
|------|--------------------|--------------------|----------------------|-----------------------------|--------------------------------------|
| 1986 | 2,761 | 167,549,306 | 60,684 | 295,450 | 4.87 |
| 1987 | 2,647 | 177,185,352 | 66,938 | 304,802 | 4.55 |
| 1988 | 3,051 | 191,110,633 | 62,639 | 313,638 | 5.01 |
| 1989 | 3,080 | 212,047,308 | 68,847 | 341,682 | 4.96 |
| 1990 | 3,045 | 211,790,873 | 69,554 | 347,861 | 5.00 |
| 1991 | 2,814 | 222,936,995 | 79,224 | 386,483 | 4.88 |

TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

| YEAR | TOTAL ACCIDENTS | TOTAL \$ DAMAGE | AVERAGE \$ DAMAGE | DAMAGE/MILL. TRAIN MILES | ACCIDENTS/ MILLION TRAIN MILES |
|-----------------------------|--------------------|--------------------|----------------------|-----------------------------|--------------------------------------|
| COLLISIONS | | | | | |
| 1986 | 320 | 14,945,554 | 46,705 | 26,354 | 0.56 |
| 1987 | 287 | 29,001,769 | 101,051 | 49,890 | 0.49 |
| 1988 | 315 | 23,245,428 | 73,795 | 38,149 | 0.52 |
| 1989 | 305 | 22,794,904 | 74,737 | 36,730 | 0.49 |
| 1990 | 315 | 27,809,604 | 88,284 | 45,677 | 0.52 |
| 1991 | 261 | 37,921,672 | 145,294 | 65,741 | 0.45 |
| DERAILMENTS | | | | | |
| 1986 | 2,006 | 135,903,081 | 67,748 | 239,646 | 3.54 |
| 1987 | 1,859 | 125,683,151 | 67,608 | 216,205 | 3.20 |
| 1988 | 2,054 | 139,410,287 | 67,873 | 228,791 | 3.37 |
| 1989 | 2,129 | 152,735,826 | 71,741 | 246,110 | 3.43 |
| 1990 | 2,146 | 159,314,565 | 74,238 | 261,670 | 3.52 |
| 1991 | 1,936 | 153,089,957 | 79,075 | 265,396 | 3.36 |
| HIGHWAY-RAIL IMPACTS | | | | | |
| 1986 | 141 | 7,220,262 | 51,208 | 12,732 | 0.25 |
| 1987 | 135 | 9,787,985 | 72,504 | 16,838 | 0.23 |
| 1988 | 197 | 11,541,231 | 58,585 | 18,941 | 0.32 |
| 1989 | 182 | 21,853,749 | 120,076 | 35,214 | 0.29 |
| 1990 | 166 | 13,078,256 | 78,785 | 21,481 | 0.27 |
| 1991 | 156 | 13,275,120 | 85,097 | 23,014 | 0.27 |
| OTHER | | | | | |
| 1986 | 294 | 9,480,409 | 32,246 | 16,717 | 0.52 |
| 1987 | 366 | 12,712,447 | 34,733 | 21,868 | 0.63 |
| 1988 | 485 | 16,913,687 | 34,874 | 27,758 | 0.80 |
| 1989 | 464 | 14,662,829 | 31,601 | 23,627 | 0.75 |
| 1990 | 418 | 11,588,448 | 27,724 | 19,034 | 0.69 |
| 1991 | 461 | 18,650,246 | 40,456 | 32,332 | 0.80 |

TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

| <u>YEAR</u> | <u>TOTAL ACCIDENTS</u> | <u>TOTAL \$ DAMAGE</u> | <u>AVERAGE \$ DAMAGE</u> | <u>DAMAGE/MILL. TRAIN MILES</u> | <u>ACCIDENTS/ MILLION TRAIN MILES</u> |
|-----------------------------|----------------------------|----------------------------|------------------------------|-------------------------------------|---|
| HUMAN FACTORS | | | | | |
| 1986 | 816 | 36,994,772 | 45,337 | 65,235 | 1.44 |
| 1987 | 856 | 53,381,979 | 62,362 | 91,830 | 1.47 |
| 1988 | 1,031 | 52,946,735 | 51,355 | 86,893 | 1.69 |
| 1989 | 982 | 63,358,368 | 64,520 | 102,092 | 1.58 |
| 1990 | 1,095 | 60,126,052 | 54,910 | 98,756 | 1.80 |
| 1991 | 887 | 70,813,850 | 79,835 | 122,763 | 1.54 |
| EQUIPMENT FAILURES | | | | | |
| 1986 | 433 | 42,162,233 | 97,372 | 74,347 | 0.76 |
| 1987 | 430 | 38,129,194 | 88,673 | 65,591 | 0.74 |
| 1988 | 512 | 46,491,145 | 90,803 | 76,298 | 0.84 |
| 1989 | 501 | 43,355,891 | 86,539 | 69,861 | 0.81 |
| 1990 | 425 | 43,625,552 | 102,648 | 71,654 | 0.70 |
| 1991 | 415 | 48,136,068 | 115,991 | 83,449 | 0.72 |
| TRACK DEFECTS | | | | | |
| 1986 | 1,016 | 48,459,373 | 47,696 | 85,451 | 1.79 |
| 1987 | 938 | 60,162,651 | 64,139 | 103,494 | 1.61 |
| 1988 | 952 | 58,291,881 | 61,231 | 95,665 | 1.56 |
| 1989 | 1,019 | 57,624,951 | 56,550 | 92,854 | 1.64 |
| 1990 | 988 | 58,058,297 | 58,763 | 95,359 | 1.62 |
| 1991 | 968 | 59,956,163 | 61,938 | 103,940 | 1.68 |
| HIGHWAY-RAIL IMPACTS | | | | | |
| 1986 | 141 | 7,220,262 | 51,208 | 12,732 | 0.25 |
| 1987 | 135 | 9,787,985 | 72,504 | 16,838 | 0.23 |
| 1988 | 197 | 11,541,231 | 58,585 | 18,941 | 0.32 |
| 1989 | 182 | 21,853,749 | 120,076 | 35,214 | 0.29 |
| 1990 | 166 | 13,078,256 | 78,785 | 21,481 | 0.27 |
| 1991 | 156 | 13,275,120 | 85,097 | 23,014 | 0.27 |
| OTHER ACCIDENTS | | | | | |
| 1986 | 355 | 32,712,666 | 92,148 | 57,684 | 0.63 |
| 1987 | 288 | 15,723,543 | 54,596 | 27,048 | 0.50 |
| 1988 | 359 | 21,839,641 | 60,835 | 35,842 | 0.59 |
| 1989 | 396 | 25,854,349 | 65,289 | 41,660 | 0.64 |
| 1990 | 371 | 36,902,716 | 99,468 | 60,612 | 0.61 |
| 1991 | 388 | 30,755,794 | 79,268 | 53,318 | 0.67 |

TRAIN ACCIDENTS, TRAIN INCIDENTS AND NON-TRAIN INCIDENTS

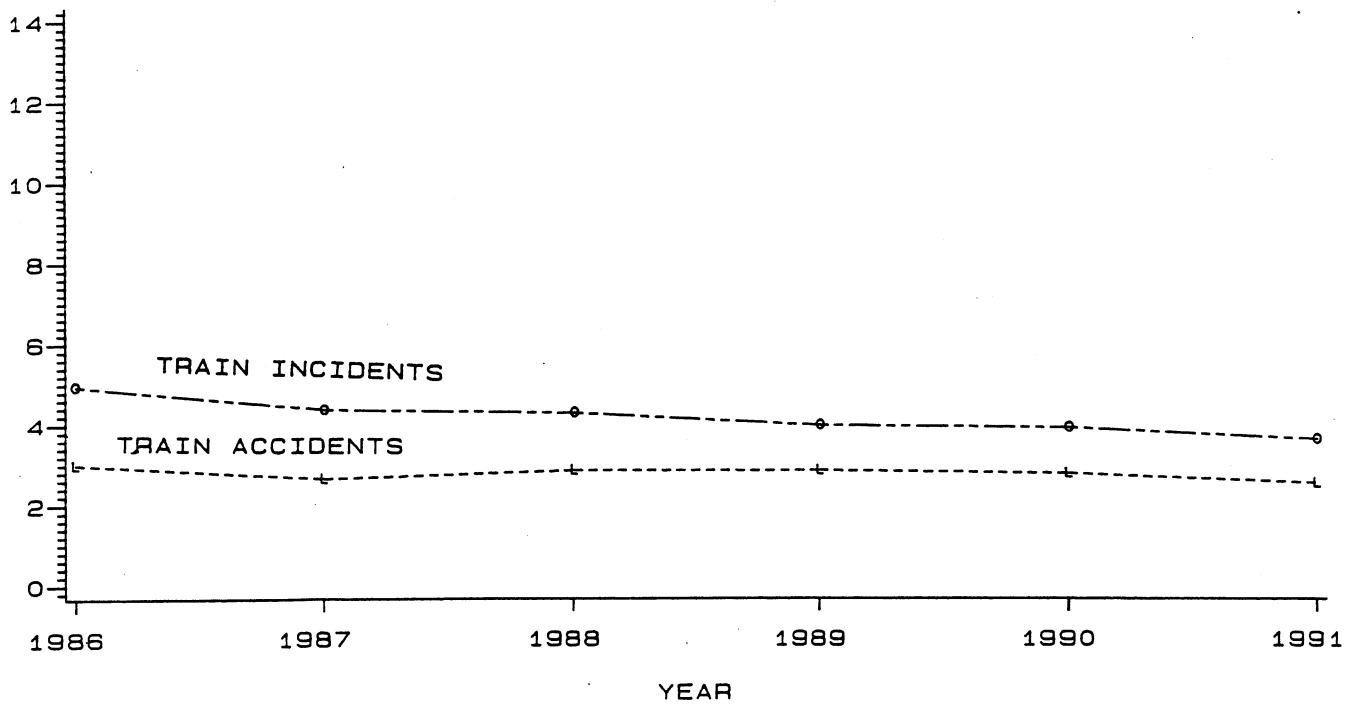


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

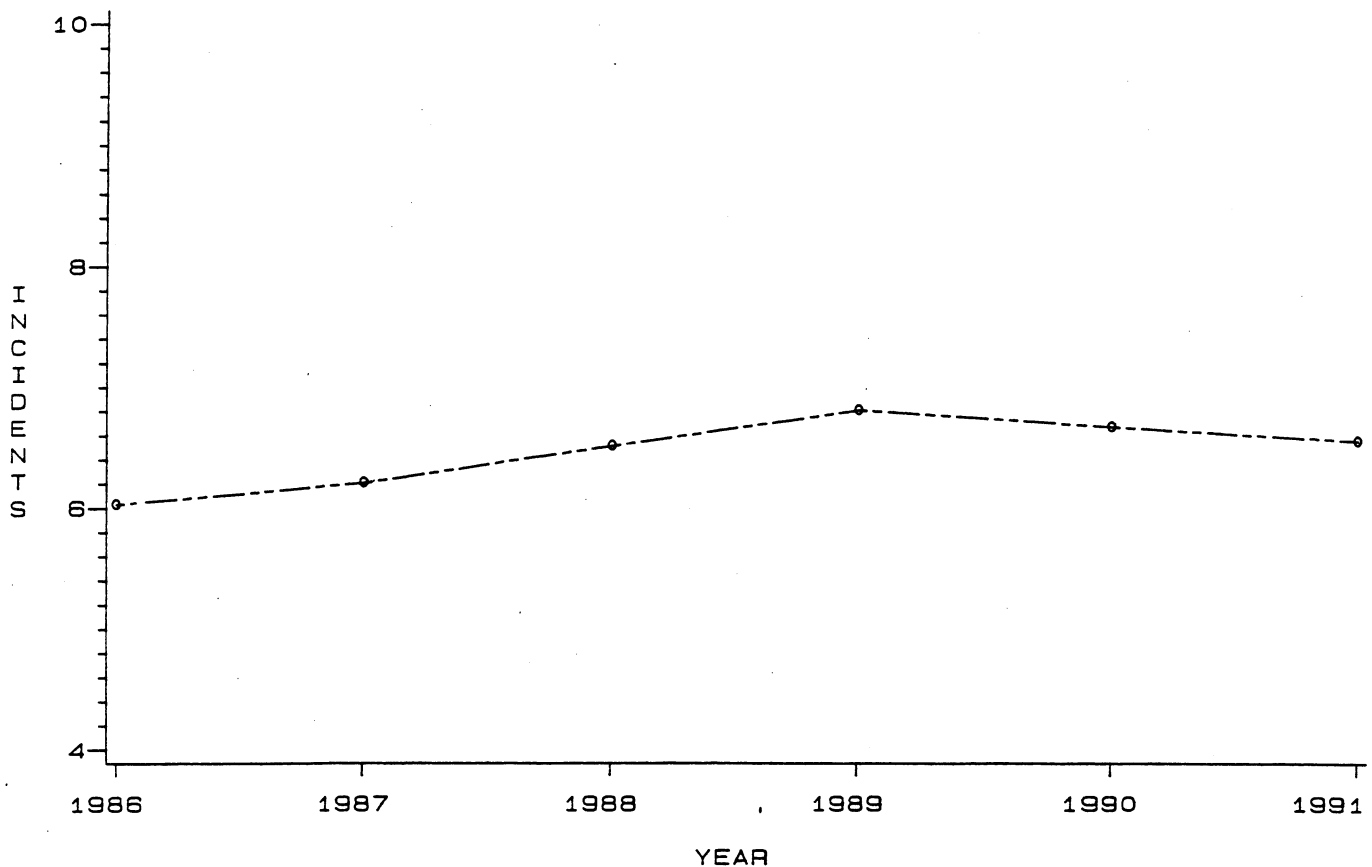


FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE 7. TOTAL ACCIDENTS/INCIDENTS

| YEAR | TRAIN ACCIDENTS | TRAIN INCIDENTS | NONTRAIN INCIDENTS | RAIL-HIGHWAY CROSSING IMPACTS | TOTAL |
|------|--------------------|--------------------|-----------------------|-------------------------------------|--------|
| 1986 | 2,620 | 4,324 | 19,414 | 2,265 | 28,623 |
| 1987 | 2,512 | 4,136 | 19,220 | 2,247 | 28,115 |
| 1988 | 2,854 | 4,272 | 19,814 | 2,454 | 29,394 |
| 1989 | 2,898 | 4,037 | 19,700 | 2,634 | 29,269 |
| 1990 | 2,879 | 4,063 | 18,520 | 2,245 | 27,707 |
| 1991 | 2,658 | 3,805 | 17,449 | 1,999 | 25,911 |

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

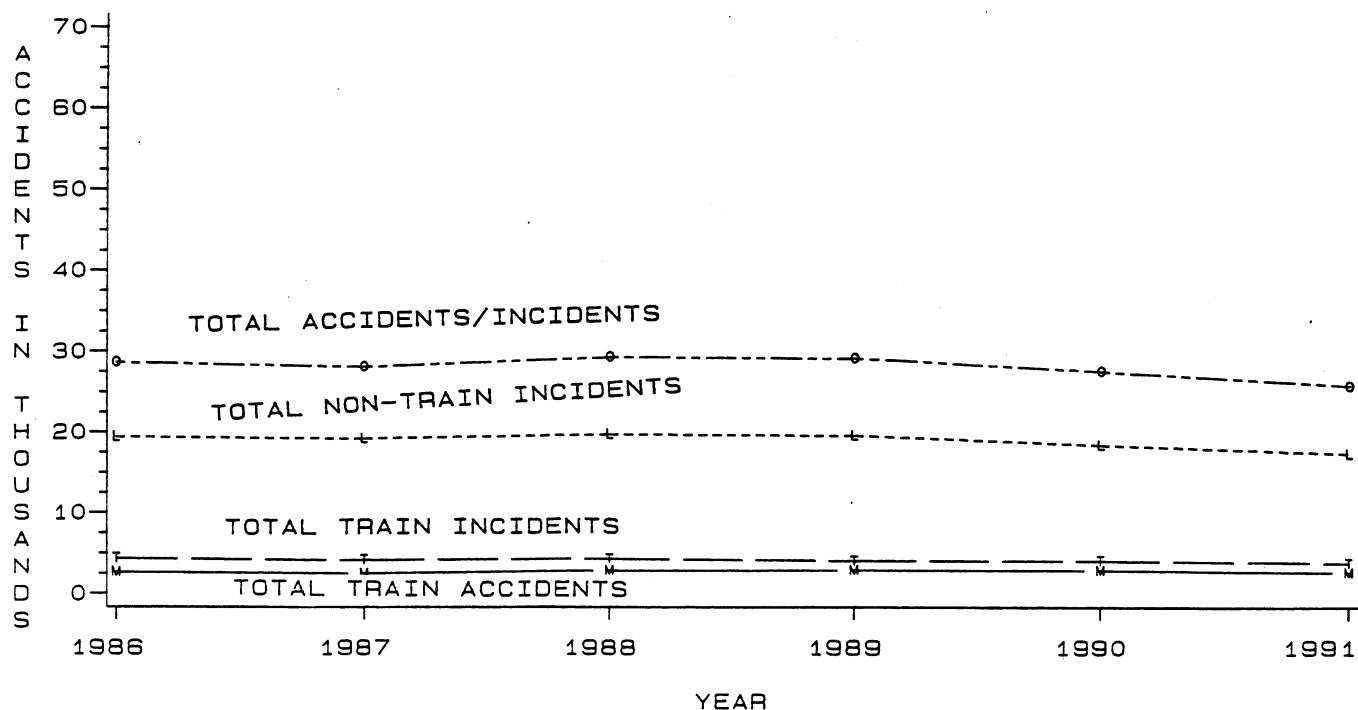


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS

CASUALTIES

TABLE 8. CASUALTIES IN ACCIDENTS/INCIDENTS

| YEAR AND TYPE ACC/INC | DEATHS | INJURIES | TOTAL CASUALTIES | TOTAL ACCIDENTS/ INCIDENTS | CASUALTIES PER MILLION TRAIN MILES |
|--|--------|----------|---------------------|----------------------------------|--|
| TRAIN ACCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS) | | | | | |
| 1986 | 13 | 948 | 961 | 2,620 | 1.69 |
| 1987 | 36 | 453 | 489 | 2,512 | 0.84 |
| 1988 | 18 | 471 | 489 | 2,854 | 0.80 |
| 1989 | 16 | 311 | 327 | 2,898 | 0.53 |
| 1990 | 10 | 451 | 461 | 2,879 | 0.76 |
| 1991 | 19 | 326 | 345 | 2,658 | 0.60 |
| TRAIN INCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS) | | | | | |
| 1986 | 406 | 4,022 | 4,428 | 4,324 | 7.81 |
| 1987 | 466 | 3,806 | 4,272 | 4,136 | 7.35 |
| 1988 | 445 | 3,936 | 4,381 | 4,272 | 7.19 |
| 1989 | 465 | 3,689 | 4,154 | 4,037 | 6.69 |
| 1990 | 547 | 3,673 | 4,220 | 4,063 | 6.93 |
| 1991 | 539 | 3,383 | 3,922 | 3,805 | 6.80 |
| NONTRAIN INCIDENTS (EXCLUDING HIGHWAY-RAIL IMPACTS) | | | | | |
| 1986 | 56 | 19,495 | 19,551 | 19,414 | 34.48 |
| 1987 | 39 | 19,345 | 19,384 | 19,220 | 33.35 |
| 1988 | 47 | 20,058 | 20,105 | 19,814 | 33.00 |
| 1989 | 42 | 19,847 | 19,889 | 19,700 | 32.05 |
| 1990 | 42 | 18,612 | 18,654 | 18,520 | 30.64 |
| 1991 | 28 | 17,665 | 17,693 | 17,449 | 30.67 |
| HIGHWAY-RAIL ACCIDENTS/INCIDENTS (EXCLUDED FROM ABOVE) | | | | | |
| 1986 | 616 | 2,458 | 3,074 | 2,265 | 5.42 |
| 1987 | 624 | 2,429 | 3,053 | 2,247 | 5.25 |
| 1988 | 689 | 2,589 | 3,278 | 2,454 | 5.38 |
| 1989 | 801 | 2,868 | 3,669 | 2,634 | 5.91 |
| 1990 | 698 | 2,407 | 3,105 | 2,245 | 5.10 |
| 1991 | 608 | 2,094 | 2,702 | 1,999 | 4.68 |
| TOTAL ACCIDENTS/INCIDENTS | | | | | |
| 1986 | 1,091 | 26,923 | 28,014 | 28,623 | 49.40 |
| 1987 | 1,165 | 26,033 | 27,198 | 28,115 | 46.79 |
| 1988 | 1,199 | 27,054 | 28,253 | 29,394 | 46.37 |
| 1989 | 1,324 | 26,715 | 28,039 | 29,269 | 45.18 |
| 1990 | 1,297 | 25,143 | 26,440 | 27,707 | 43.43 |
| 1991 | 1,194 | 23,468 | 24,662 | 25,911 | 42.75 |

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

TABLE 9. CASUALTIES BY TYPE OF PERSON

| YEAR | EMPLOYEES ON DUTY | | EMPLOYEES NOT ON DUTY | | PASSENGERS ON TRAIN | | NON TRESPASSERS | | TRESPASSERS | | CONTRACTOR EMPLOYEES | |
|------|----------------------|--------|--------------------------|-----|------------------------|-----|--------------------|-------|-------------|-----|-------------------------|-----|
| | KLD | INJ | KLD | INJ | KLD | INJ | KLD | INJ | KLD | INJ | KLD | INJ |
| 1986 | 57 | 22,387 | 2 | 384 | 4 | 686 | 505 | 2,639 | 519 | 706 | 4 | 121 |
| 1987 | 55 | 21,982 | 1 | 396 | 16 | 475 | 506 | 2,354 | 584 | 673 | 3 | 153 |
| 1988 | 43 | 22,573 | 1 | 427 | 2 | 337 | 554 | 2,575 | 598 | 920 | 1 | 222 |
| 1989 | 49 | 22,183 | 1 | 407 | 8 | 399 | 621 | 2,579 | 641 | 898 | 4 | 249 |
| 1990 | 40 | 20,970 | 0 | 326 | 3 | 473 | 551 | 2,339 | 700 | 793 | 3 | 242 |
| 1991 | 35 | 19,626 | 1 | 362 | 8 | 382 | 484 | 2,110 | 663 | 769 | 3 | 219 |

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

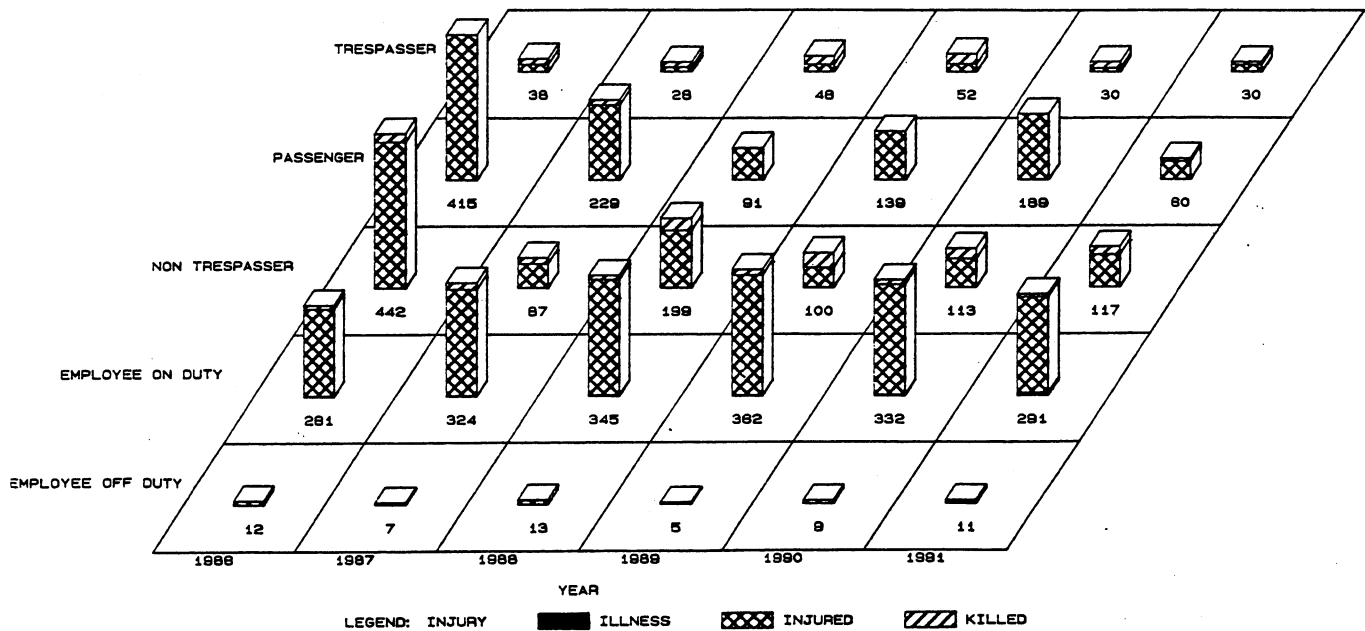


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS

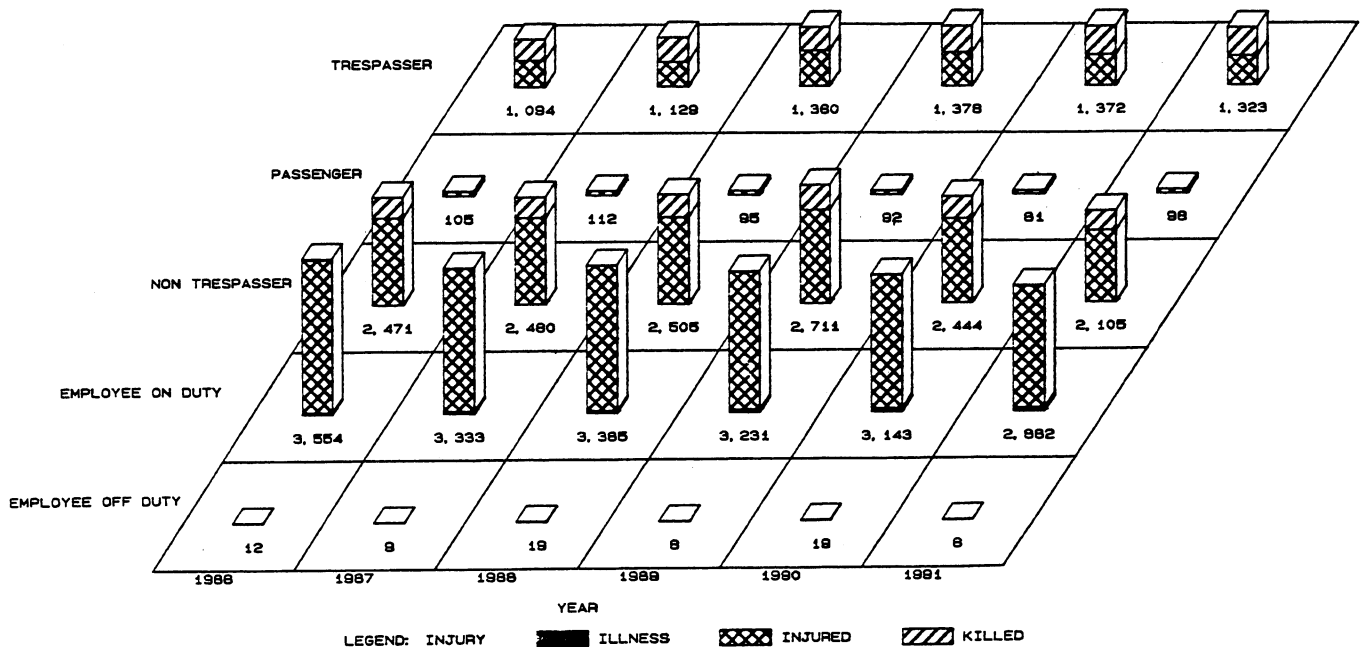


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS

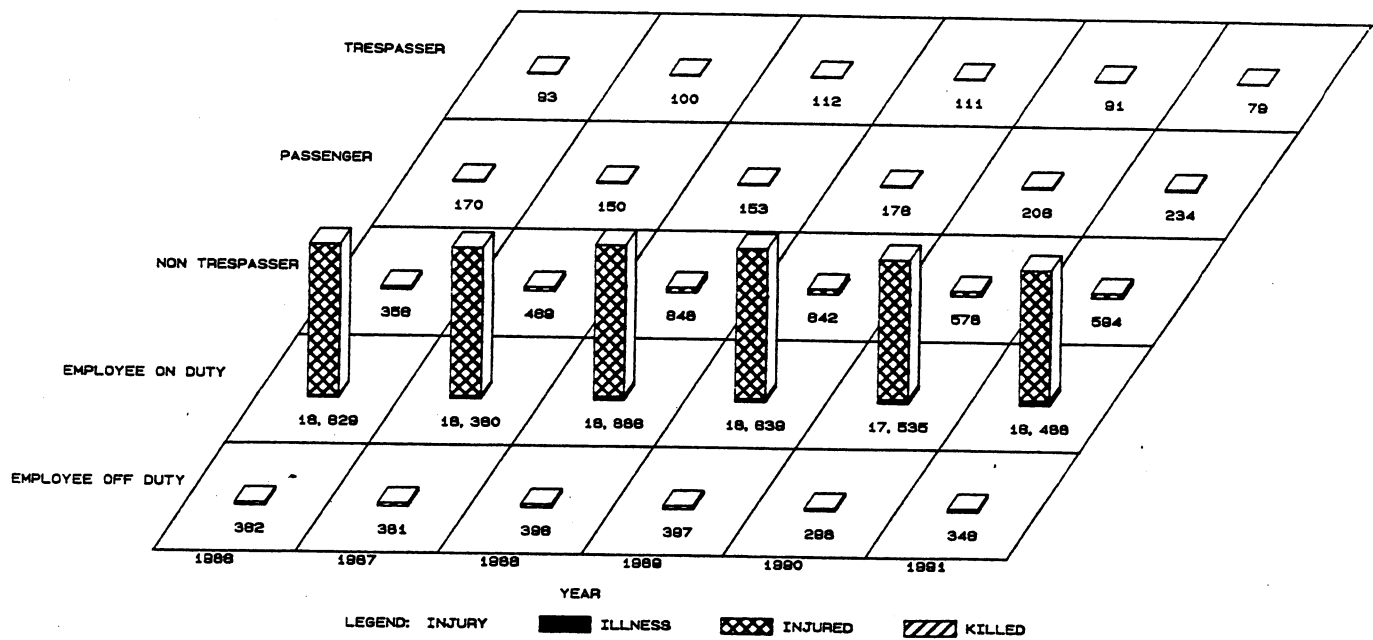


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS

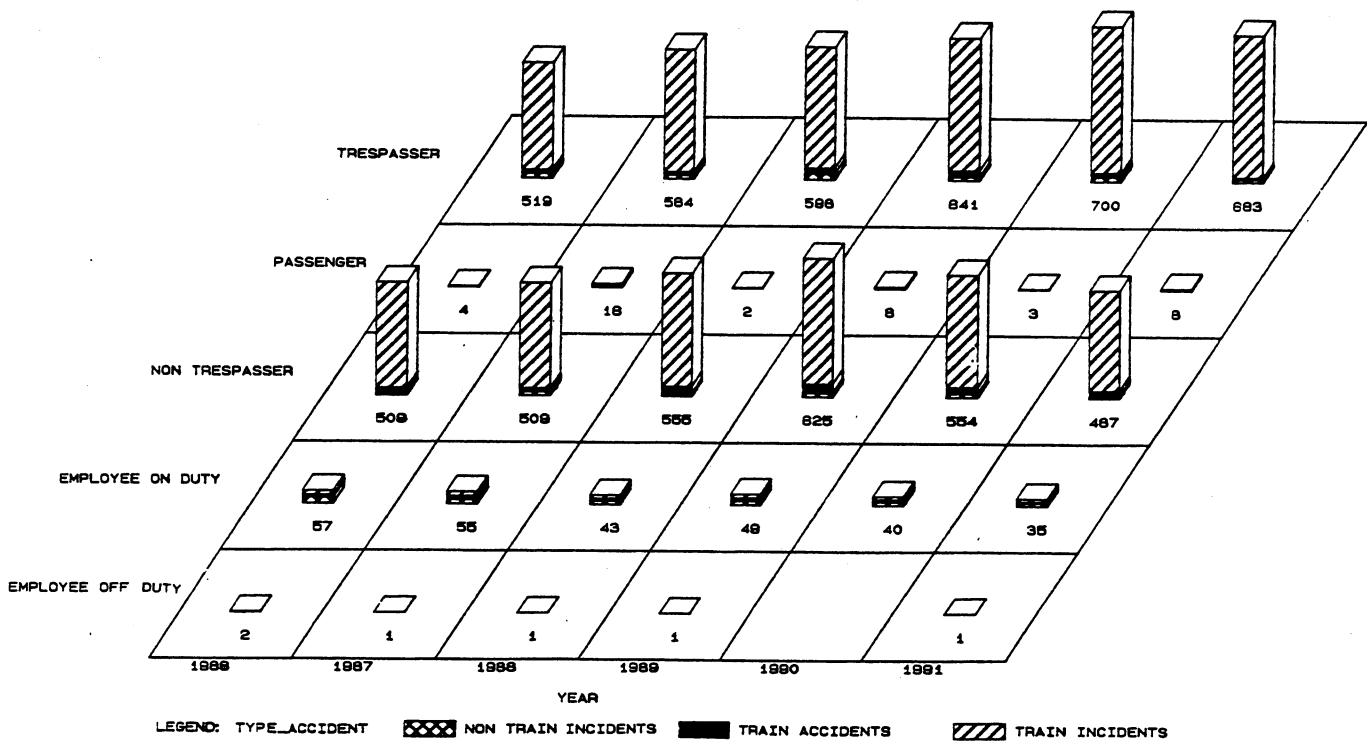


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS

2. OVERVIEW OF 1991 DATA

SPEED FACTOR IN ACCIDENTS

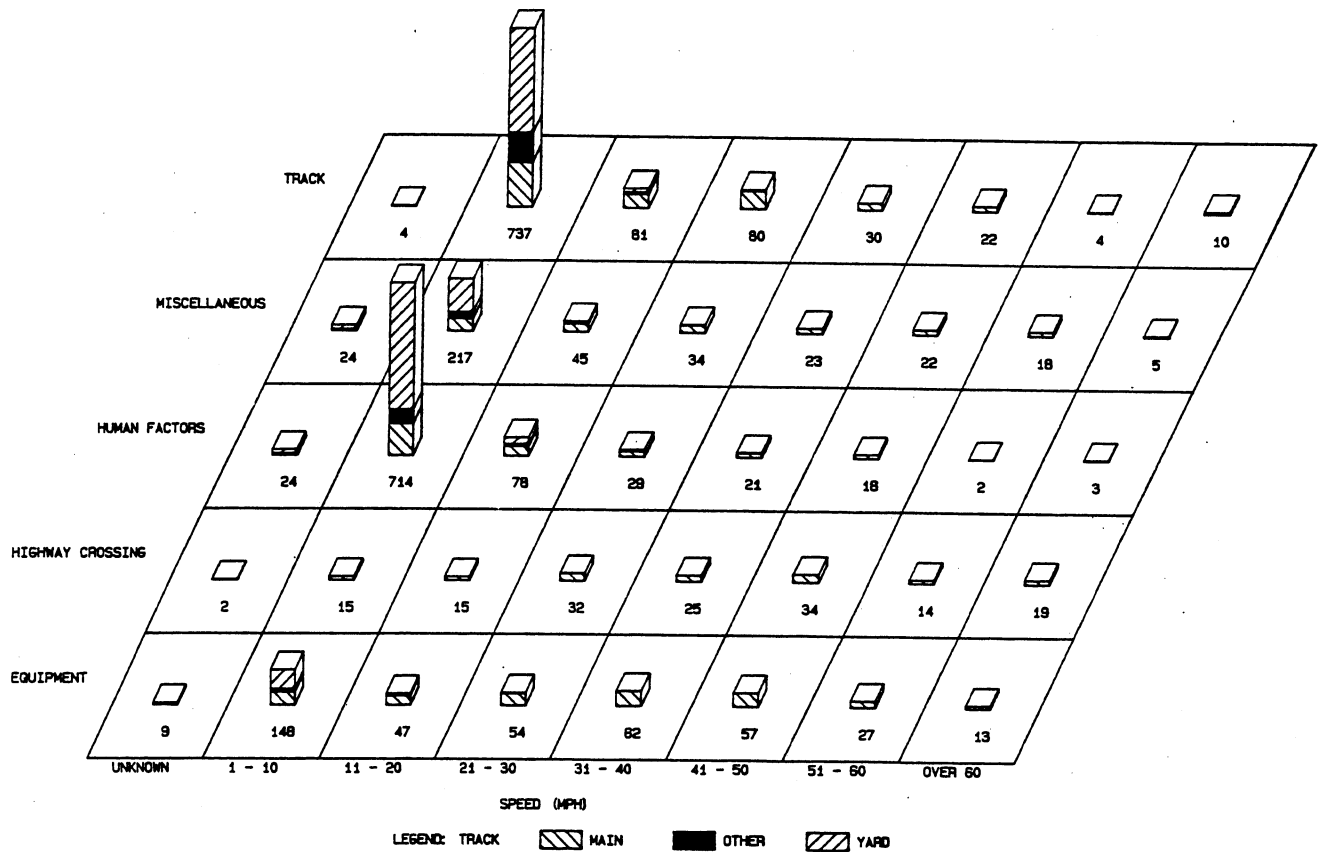


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

TABLE 10. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

| CONSIST SPEED | TOTAL ACCIDENTS | TOTAL DAMAGE | EQUIPMENT DAMAGE | TRACK DAMAGE | COLLISIONS | DERAILMENTS | OTHER ACCIDENTS | TRACK CAUSED | EQUIPMENT FAILURE | HUMAN FACTORS | OTHER CAUSES |
|--|-----------------|--------------------|--------------------|-------------------|------------|--------------|-----------------|--------------|-------------------|---------------|--------------|
| ACCIDENTS ON MAIN LINE TRACK | | | | | | | | | | | |
| UNKNOWN | 15 | 575,445 | 531,330 | 44,115 | 0 | 7 | 8 | 1 | 5 | 4 | 5 |
| 1-10 | 437 | 16,858,044 | 11,202,389 | 5,655,655 | 32 | 339 | 66 | 185 | 54 | 133 | 65 |
| 11-20 | 183 | 13,159,147 | 8,426,759 | 4,732,388 | 16 | 130 | 37 | 57 | 38 | 40 | 48 |
| 21-30 | 209 | 31,139,382 | 22,951,488 | 8,187,894 | 10 | 142 | 57 | 73 | 50 | 23 | 63 |
| 31-40 | 158 | 41,849,324 | 31,774,435 | 10,074,889 | 9 | 106 | 43 | 30 | 62 | 19 | 47 |
| 41-50 | 150 | 47,430,656 | 38,141,405 | 9,289,251 | 10 | 90 | 50 | 22 | 57 | 16 | 55 |
| 51-60 | 65 | 8,288,781 | 6,729,030 | 1,559,751 | 4 | 26 | 35 | 4 | 27 | 2 | 32 |
| 61-70 | 19 | 7,818,656 | 7,395,492 | 423,164 | 2 | 4 | 13 | 2 | 7 | 2 | 8 |
| 71-80 | 16 | 8,684,034 | 8,134,813 | 549,221 | 0 | 3 | 13 | 0 | 1 | 1 | 14 |
| 81-90 | 8 | 237,253 | 225,547 | 11,706 | 2 | 0 | 6 | 4 | 3 | 0 | 1 |
| >=91 | 7 | 593,338 | 539,208 | 54,130 | 2 | 0 | 5 | 4 | 2 | 0 | 1 |
| TOTAL | 1,267 | 176,634,060 | 136,051,896 | 40,582,164 | 87 | 847 | 333 | 382 | 306 | 240 | 339 |
| ACCIDENTS ON YARD TRACK | | | | | | | | | | | |
| UNKNOWN | 38 | 690,542 | 637,992 | 52,550 | 4 | 14 | 20 | 2 | 4 | 16 | 16 |
| 1-10 | 1,170 | 29,082,832 | 22,099,386 | 6,983,446 | 145 | 803 | 222 | 429 | 80 | 522 | 139 |
| 11-20 | 58 | 2,644,541 | 1,833,335 | 811,206 | 8 | 33 | 17 | 15 | 5 | 29 | 9 |
| 21-30 | 8 | 1,462,876 | 591,594 | 871,282 | 3 | 1 | 4 | 2 | 1 | 4 | 1 |
| 31-40 | 2 | 245,500 | 238,500 | 7,000 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 41-50 | 1 | 88,874 | 65,000 | 23,874 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| TOTAL | 1,277 | 34,215,165 | 25,465,807 | 8,749,358 | 161 | 853 | 263 | 448 | 90 | 572 | 167 |
| ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE | | | | | | | | | | | |
| UNKNOWN | 10 | 293,668 | 242,458 | 51,210 | 1 | 6 | 3 | 1 | 0 | 4 | 5 |
| 1-10 | 222 | 5,071,975 | 3,254,293 | 1,817,682 | 11 | 196 | 15 | 123 | 12 | 59 | 28 |
| 11-20 | 25 | 3,304,150 | 1,416,138 | 1,888,012 | 0 | 25 | 0 | 9 | 4 | 9 | 3 |
| 21-30 | 12 | 1,408,585 | 1,141,145 | 267,440 | 0 | 9 | 3 | 5 | 3 | 2 | 2 |
| 31-40 | 1 | 2,009,392 | 1,979,700 | 29,692 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| TOTAL | 270 | 12,087,770 | 8,033,734 | 4,054,036 | 13 | 236 | 21 | 138 | 19 | 75 | 38 |
| FINAL | 2,814 | 222,936,995 | 169,551,437 | 53,385,558 | 261 | 1,936 | 617 | 968 | 415 | 887 | 544 |

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

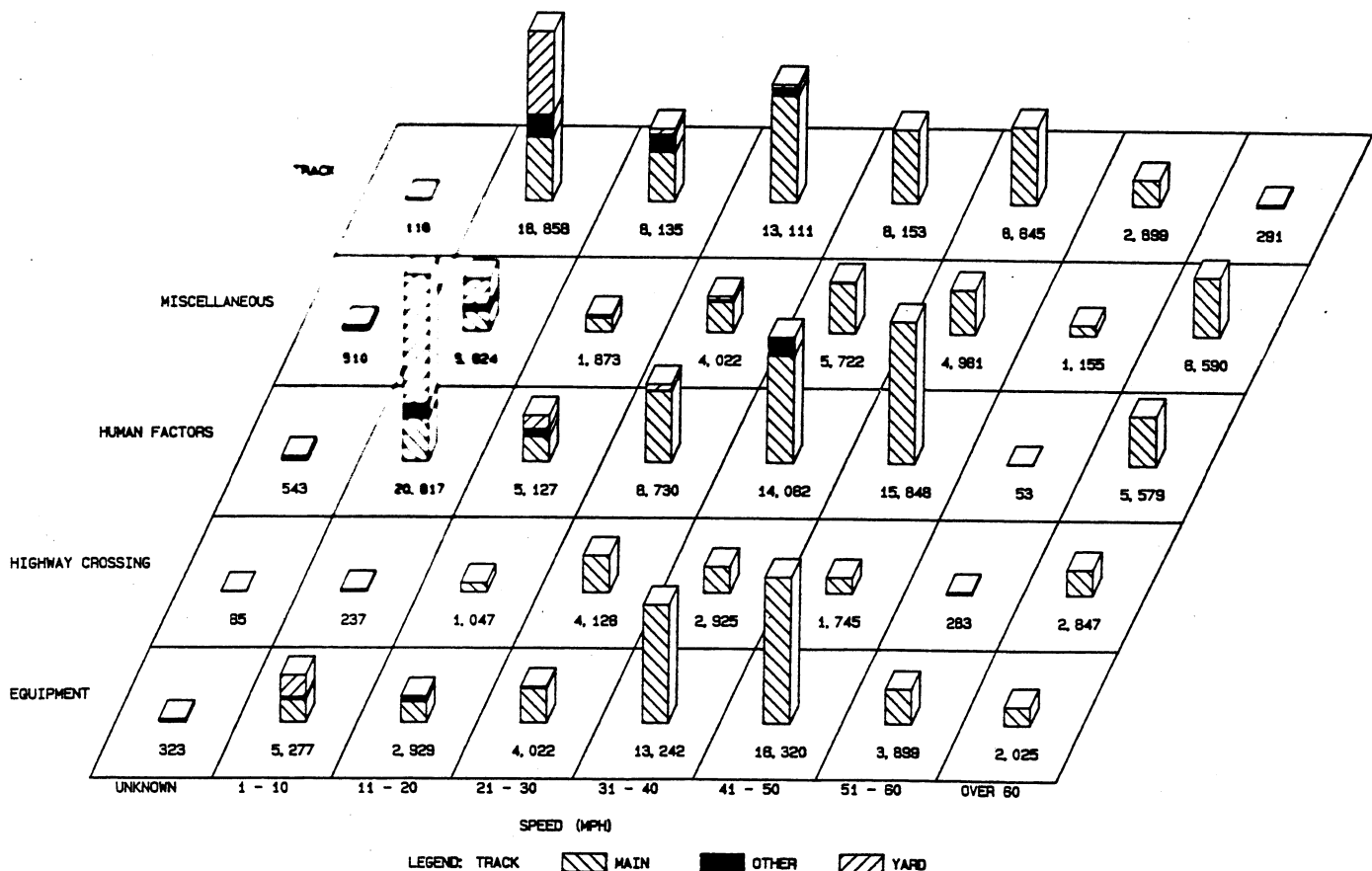


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE (\$ 000's)

ACCIDENTS AND TRACK TYPE

TABLE 11. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

| TRACK CLASS | TOTAL ACCIDENTS | TOTAL DAMAGE | EQUIPMENT DAMAGE | TRACK DAMAGE | COLLISIONS | DERAILMENTS | OTHER ACCIDENTS CAUSED | TRACK CAUSED | EQUIPMENT FAILURE | HUMAN FACTORS | OTHER CAUSES |
|-------------|-----------------|--------------|------------------|--------------|------------|-------------|------------------------|--------------|-------------------|---------------|--------------|
| ? | 235 | 6,564,459 | 4,944,117 | 1,620,342 | 28 | 166 | 41 | 100 | 11 | 83 | 41 |
| 1 | 1,291 | 39,196,284 | 28,870,153 | 10,326,131 | 130 | 936 | 225 | 517 | 94 | 510 | 170 |
| 2 | 443 | 25,158,594 | 18,059,419 | 7,099,175 | 32 | 324 | 87 | 178 | 58 | 122 | 85 |
| 3 | 342 | 46,810,944 | 36,073,682 | 10,737,262 | 28 | 234 | 80 | 84 | 98 | 71 | 89 |
| 4 | 384 | 89,044,945 | 69,084,737 | 19,960,208 | 29 | 213 | 142 | 67 | 102 | 81 | 134 |
| 5 | 90 | 10,267,699 | 7,813,115 | 2,454,584 | 5 | 63 | 22 | 14 | 34 | 18 | 24 |
| 6 | 29 | 5,894,070 | 4,706,214 | 1,187,856 | 9 | 0 | 20 | 8 | 18 | 2 | 1 |
| FINAL TO | 2,814 | 222,936,995 | 169,551,437 | 53,385,558 | 261 | 1,936 | 617 | 968 | 415 | 887 | 544 |

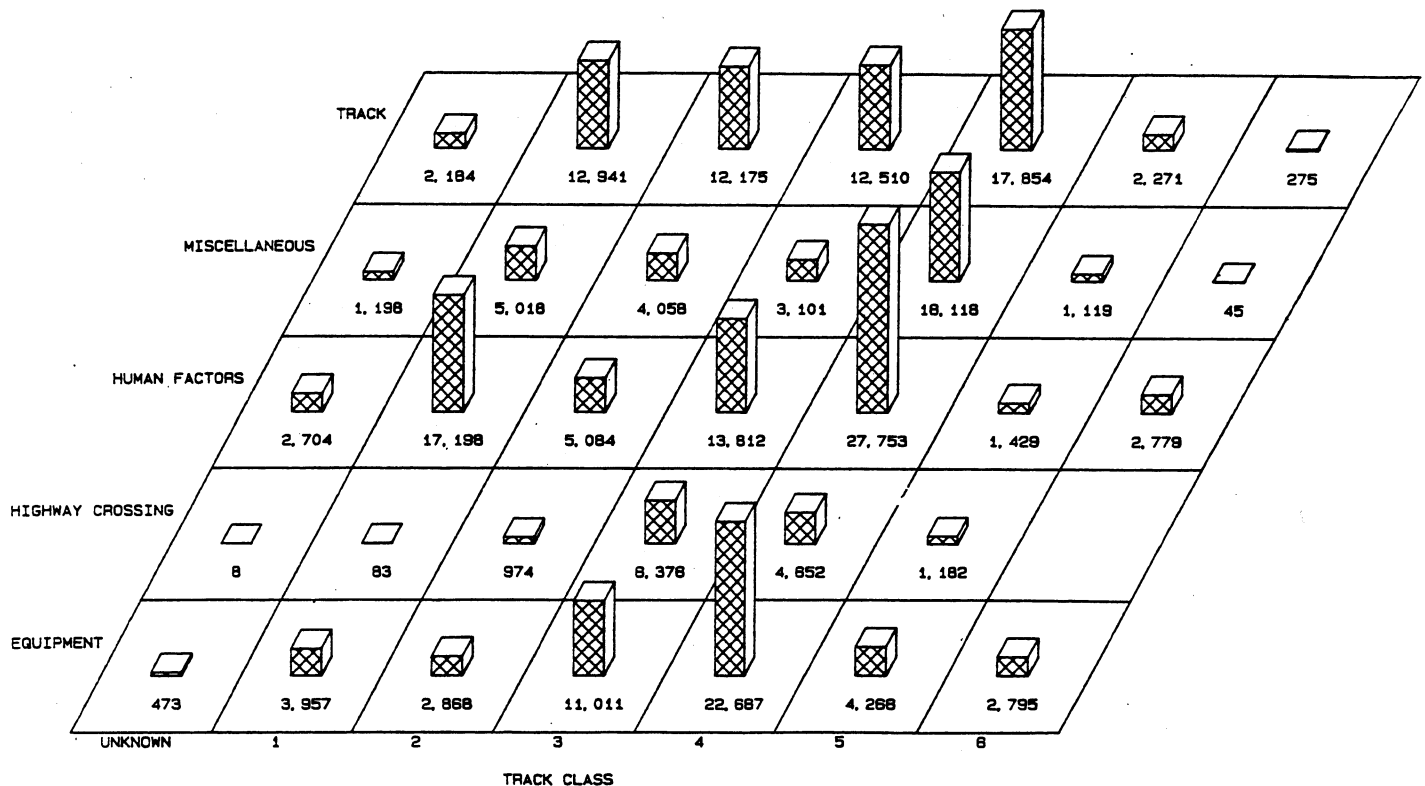


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE (\$ 000's)

CAUSE BY TYPE OF ACCIDENT

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

| Type of Accident | ...Track Caused... | | Equipment Caused | | ...Human Factors... | | ...Other Causes... | |Total Damage..... | |
|----------------------|--------------------|-------------------|-------------------|-------------------|---------------------|-------------------|--------------------|-------------------|------------------------|--------------------|
| | Trk Dmg | Eqp Dmg | Trk Dmg | Eqp Dmg | Trk Dmg | Eqp Dmg | Trk Dmg | Eqp Dmg | Trk Dmg | Eqp Dmg |
| Derailement | 17,221,832 | 40,531,599 | 14,632,950 | 28,467,221 | 6,510,453 | 21,330,332 | 7,084,131 | 17,311,439 | 45,449,366 | 107,640,591 |
| Head on collision | 500 | 109,676 | --- | 30,400 | 248,752 | 19,424,272 | 302,100 | 110,300 | 551,352 | 19,674,648 |
| Rear end collision | --- | --- | 500 | 18,188 | 151,430 | 3,187,522 | --- | --- | 151,930 | 3,205,710 |
| Side collision | 1,000 | 207,131 | 19,400 | 31,500 | 1,505,724 | 6,343,786 | 6,850 | 148,350 | 1,532,974 | 6,730,767 |
| Raking collision | 54,716 | 227,443 | 19,360 | 61,093 | 179,805 | 4,097,029 | 634,691 | 459,208 | 888,572 | 4,844,773 |
| Broken trn collision | --- | --- | 23,450 | 93,009 | 4,902 | 219,585 | --- | --- | 28,352 | 312,594 |
| Way-rail crossing | --- | --- | --- | --- | --- | --- | 1,715,748 | 11,559,372 | 1,715,748 | 11,559,372 |
| RR grade crossing | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Obstruction | --- | 8,500 | 500 | 15,360 | 270,441 | 1,614,770 | 235,413 | 757,275 | 506,354 | 2,395,905 |
| Explosion-detonatin | --- | --- | --- | 21,530 | --- | --- | --- | --- | --- | 21,530 |
| Fire/violent ruptre | 500 | 7,740 | 7,573 | 3,682,081 | --- | --- | 43,415 | 617,600 | 51,488 | 4,307,421 |
| Other | 696,009 | 889,517 | 164,754 | 847,199 | 961,866 | 4,763,181 | 686,793 | 2,358,229 | 2,509,422 | 8,858,126 |
| TOTAL..... | 17,974,557 | 41,981,606 | 14,868,487 | 33,267,581 | 9,833,373 | 60,980,477 | 10,709,141 | 33,321,773 | 53,385,558 | 169,551,437 |

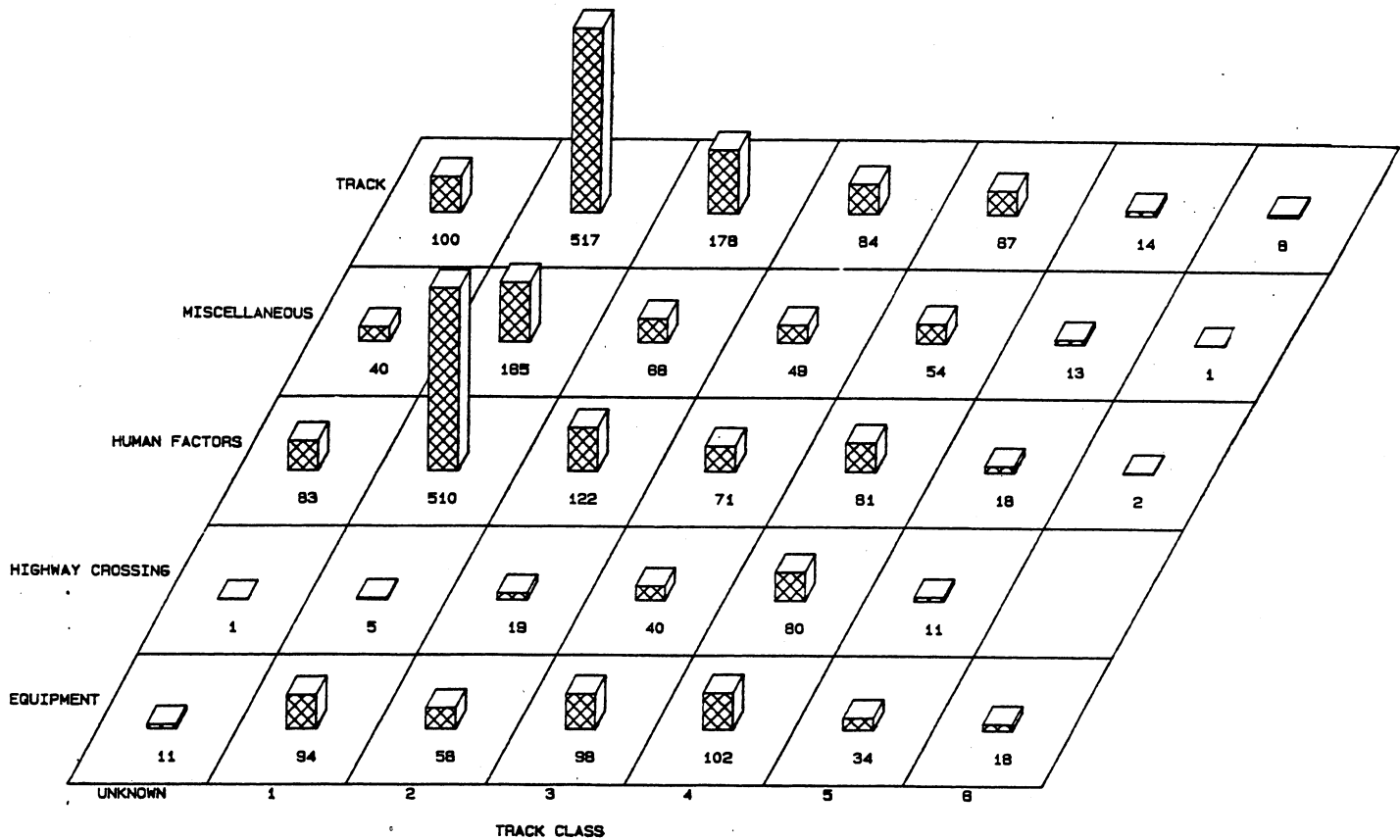


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

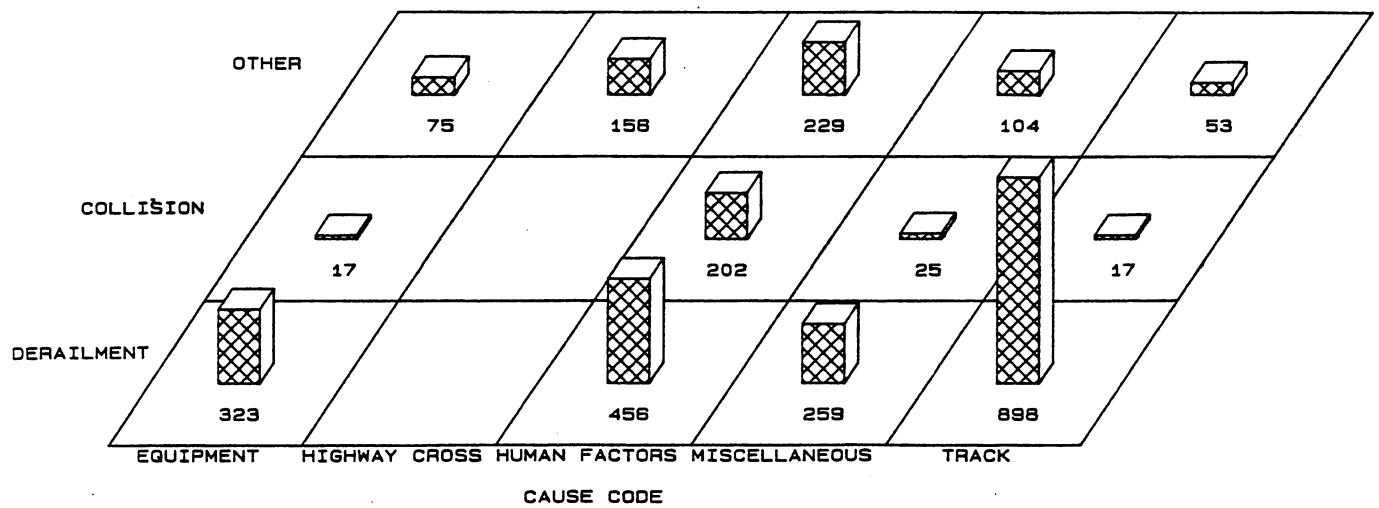
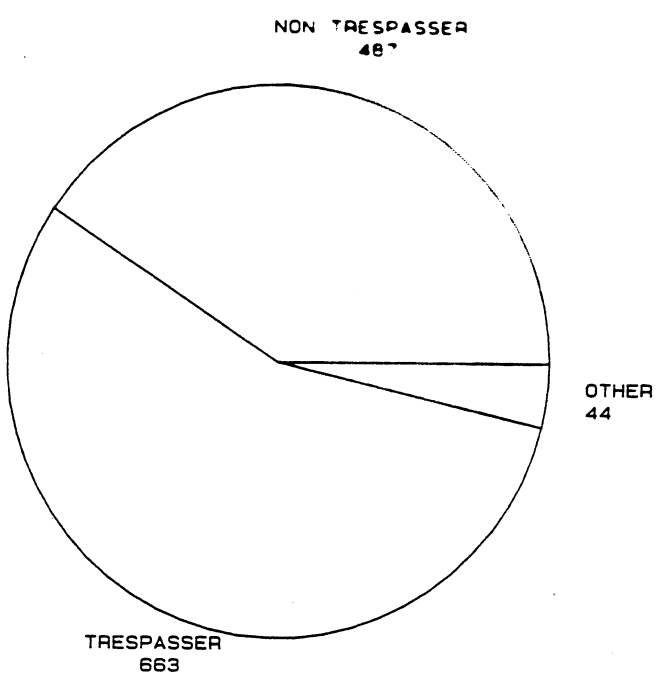
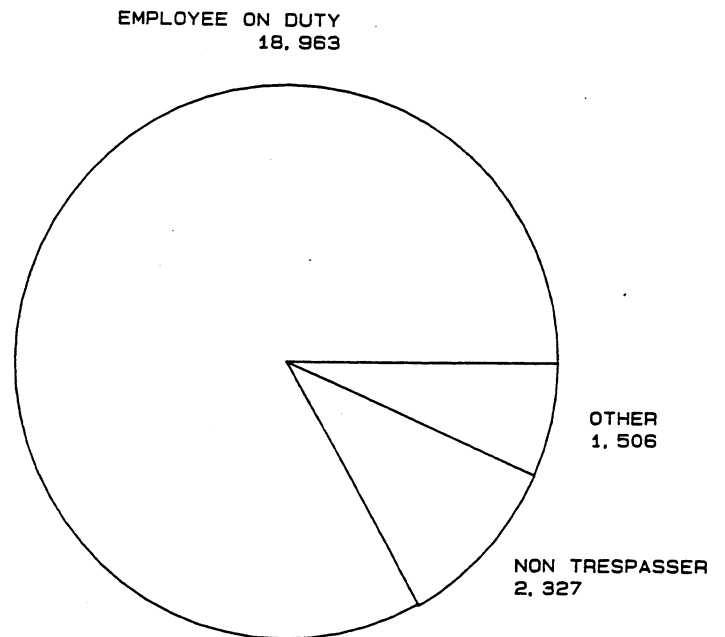


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON



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



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

TABLE 13. CASUALTIES BY TYPE OF PERSON

| | Employees On Duty | Employees Not On Duty | Passengers On Trains | Non- trespassers | Trespassers | Contractor Employees | Total |
|--|----------------------|--------------------------|-------------------------|---------------------|-------------|-------------------------|--------|
| TRAIN ACCIDENTS | | | | | | | |
| Fatalities..... | 9 | --- | 8 | --- | 2 | --- | 19 |
| Injuries..... | 220 | 7 | 32 | 50 | 5 | 1 | 315 |
| Occupational illnesses... | 7 | 4 | --- | --- | --- | --- | 11 |
| Total casualties..... | 236 | 11 | 40 | 50 | 7 | 1 | 345 |
| TRAIN INCIDENTS | | | | | | | |
| Fatalities..... | 13 | 1 | --- | 13 | 509 | 3 | 539 |
| Injuries..... | 2,695 | 5 | 94 | 26 | 464 | 18 | 3,302 |
| Occupational illnesses... | 81 | --- | --- | --- | --- | --- | 81 |
| Total casualties..... | 2,789 | 6 | 94 | 39 | 973 | 21 | 3,922 |
| NONTRAIN INCIDENTS | | | | | | | |
| Fatalities..... | 12 | --- | --- | 3 | 13 | --- | 28 |
| Injuries..... | 15,906 | 343 | 234 | 347 | 65 | 195 | 17,090 |
| Occupational illnesses... | 570 | 3 | --- | --- | --- | 2 | 575 |
| Total casualties..... | 16,488 | 346 | 234 | 350 | 78 | 197 | 17,693 |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | |
| Fatalities..... | 1 | --- | --- | 468 | 139 | --- | 608 |
| Injuries..... | 142 | --- | 22 | 1,687 | 235 | 3 | 2,089 |
| Occupational illnesses... | 5 | --- | --- | --- | --- | --- | 5 |
| Total casualties..... | 148 | --- | 22 | 2,155 | 374 | 3 | 2,702 |
| GRAND TOTAL | | | | | | | |
| Fatalities..... | 35 | 1 | 8 | 484 | 663 | 3 | 1,194 |
| Injuries..... | 18,963 | 355 | 382 | 2,110 | 769 | 217 | 22,796 |
| Occupational illnesses... | 663 | 7 | --- | --- | --- | 2 | 672 |
| Total casualties..... | 19,661 | 363 | 390 | 2,594 | 1,432 | 222 | 24,662 |

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

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

TABLE 14. TOTAL FATALITIES BY TYPE OF PERSON

| Type Of Accident/Incident | Total Killed | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|--------------|---|-----------------|-----------------|---------------------|------------------|
| TRAIN ACCIDENTS | | | | | | |
| Collisions | 5 | 5 | --- | --- | --- | --- |
| Derailments | 10 | --- | --- | --- | --- | --- |
| Rail-highway x-ing | 30 | --- | --- | 8 | --- | 2 |
| Miscellaneous | 4 | 4 | --- | --- | 23 | 7 |
| Total..... | 49 | 9 | --- | 8 | 23 | 9 |
| TRAIN INCIDENTS | | | | | | |
| Coupling and uncoupling locomotives or cars..... | 1 | 1 | --- | --- | --- | --- |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | --- | --- | --- |
| Operating or on locomotives..... | --- | --- | --- | --- | --- | --- |
| Operating rail motorcars..... | --- | --- | --- | --- | --- | --- |
| Operating hand brakes..... | --- | --- | --- | --- | --- | --- |
| Operating switches or derails..... | 1 | 1 | --- | --- | --- | --- |
| Contacting fixed objects while on locos or cars.. | 2 | 1 | --- | --- | --- | --- |
| Getting on or off cars or locomotives..... | 5 | --- | --- | --- | --- | 1 |
| Collisions, derailments, etc. (<= \$6,300)..... | 15 | 2 | --- | --- | --- | 5 |
| Rail-highway crossing accidents/incidents..... | 571 | 1 | --- | --- | --- | 13 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 488 | 3 | 2 | 5 | 438 | 132 |
| Servicing or maintenance of equipment..... | --- | --- | --- | --- | 15 | 467 |
| Maintenance of way and structures..... | 1 | --- | --- | --- | --- | --- |
| Freight, baggage, express or mail..... | 3 | --- | --- | --- | 1 | --- |
| Windows, doors, etc., on on-track equipment..... | --- | --- | --- | --- | --- | 3 |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C..... | 7 | 2 | --- | --- | --- | 5 |
| Flying or falling objects, burns, etc., N.O.C.... | 2 | --- | --- | --- | --- | 2 |
| Operation of on-track work equipment..... | 1 | --- | --- | --- | --- | 1 |
| Assault..... | --- | --- | --- | --- | --- | --- |
| Other occurrences..... | 13 | 1 | --- | --- | --- | 12 |
| Total..... | 1,110 | 12 | 2 | 14 | 452 | 641 |
| NONTRAIN INCIDENTS | | | | | | |
| Coupling and uncoupling locomotives or cars..... | --- | --- | --- | --- | --- | --- |
| Coupling/uncoupling air/steam hose, safety chains. | 1 | 1 | --- | --- | --- | --- |
| Operating or on locomotives..... | --- | --- | --- | --- | --- | --- |
| Operating rail motorcars..... | --- | --- | --- | --- | --- | --- |
| Operating hand brakes..... | --- | --- | --- | --- | --- | --- |
| Operating switches or derails..... | --- | --- | --- | --- | --- | --- |
| Contacting fixed objects while on locos or cars.. | --- | --- | --- | --- | --- | --- |
| Getting on or off cars or locomotives..... | --- | --- | --- | --- | --- | --- |
| Collisions, derailments, etc. (<= \$6,300)..... | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incidents..... | 7 | --- | --- | --- | 7 | --- |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 4 | --- | --- | --- | 1 | 3 |
| Servicing or maintenance of equipment..... | 1 | --- | 1 | --- | --- | --- |
| Maintenance of way and structures..... | --- | --- | --- | --- | --- | --- |
| Freight, baggage, express or mail..... | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equipment..... | --- | --- | --- | --- | --- | --- |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C..... | 3 | 1 | --- | --- | --- | 2 |
| Flying or falling objects, burns, etc., N.O.C.... | 4 | --- | --- | --- | 1 | 3 |
| Operation of on-track work equipment..... | --- | --- | --- | --- | --- | --- |
| Assault..... | 3 | --- | 2 | --- | --- | 1 |
| Other occurrences..... | 12 | --- | 7 | --- | --- | 4 |
| Total..... | 35 | 2 | 10 | 12 | 10 | 13 |
| Grand total..... | 1,194 | 23 | 12 | 35 | 487 | 663 |

TABLE 15. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

| Type Of Accident/Incident | Total Injured | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passengers | Nontrespassers | Trespassers |
|---|---------------|--|-----------------|------------|----------------|-------------|
| TRAIN ACCIDENTS | | | | | | |
| Collisions | 103 | 91 | 12 | 103 | --- | --- |
| Derailments | 174 | 64 | 14 | 78 | 11 | 32 |
| Rail-highway x-ing | 134 | 49 | 6 | 55 | --- | 20 |
| Miscellaneous | 49 | 38 | 8 | 46 | --- | 1 |
| Total | 460 | 242 | 40 | 282 | 11 | 52 |
| TRAIN INCIDENTS | | | | | | |
| Coupling and uncoupling locomotives or cars | 192 | 185 | 7 | 192 | --- | --- |
| Coupling/uncoupling air/steam hose, safety chains | 30 | 26 | 4 | 30 | --- | --- |
| Operating on or on locomotives | 726 | 714 | 12 | 726 | --- | --- |
| Operating rail motorcars | 13 | 8 | 5 | 13 | --- | --- |
| Operating hand brakes | 98 | 95 | 2 | 97 | --- | 1 |
| Operating switches or derails | 16 | 15 | 1 | 16 | --- | --- |
| Contacting fixed objects while on locos or cars | 71 | 65 | 5 | 70 | --- | 1 |
| Getting on or off cars or locomotives | 606 | 530 | 28 | 558 | 21 | 27 |
| Collisions, derailments, etc. (<= \$6,300) | 124 | 85 | 12 | 97 | 4 | 19 |
| Rail-highway crossing accidents/incidents | 1,919 | 84 | 8 | 92 | 2 | 1,607 |
| Struck by/ran into loco/car(not at hwy-rr x-ing) | 429 | 34 | 12 | 46 | --- | 16 |
| Servicing or maintenance of equipment | 55 | 3 | 52 | 55 | --- | 367 |
| Maintenance of way and structures | 95 | --- | 91 | 91 | --- | 4 |
| Freight, baggage, express or mail | 10 | 3 | 6 | 9 | 1 | --- |
| Windows, doors, etc., on on-track equipment | 119 | 76 | 34 | 110 | 9 | --- |
| Passenger car doors | 6 | 1 | 1 | 2 | 4 | --- |
| Stumbling, slipping, falling, caught, N.O.C. | 216 | 119 | 36 | 155 | 3 | 30 |
| Flying or falling objects, burns, etc., N.O.C. | 167 | 129 | 21 | 150 | 11 | 3 |
| Operation of on-track work equipment | 82 | 5 | 74 | 79 | --- | 3 |
| Assault | 68 | 61 | 5 | 66 | 2 | --- |
| Other occurrences | 260 | 174 | 40 | 214 | 17 | 17 |
| Total | 5,302 | 2,412 | 456 | 2,868 | 5 | 96 |
| NONTRAIN INCIDENTS | | | | | | |
| Coupling and uncoupling locomotives or cars | 420 | 400 | 17 | 417 | 3 | --- |
| Coupling/uncoupling air/steam hose, safety chains | 239 | 208 | 31 | 239 | --- | --- |
| Operating on or on locomotives | 533 | 466 | 67 | 533 | --- | --- |
| Operating rail motorcars | 26 | 11 | 15 | 26 | --- | --- |
| Operating hand brakes | 383 | 355 | 28 | 383 | --- | --- |
| Operating switches or derails | 993 | 907 | 85 | 992 | 1 | --- |
| Contacting fixed objects while on locos or cars | 25 | 16 | 6 | 22 | 1 | 1 |
| Getting on or off cars or locomotives | 966 | 710 | 142 | 852 | 5 | 105 |
| Collisions, derailments, etc. (<= \$6,300) | --- | --- | --- | --- | --- | 2 |
| Rail-highway crossing accidents/incidents | 41 | --- | --- | --- | --- | 40 |
| Struck by/ran into loco/car(not at hwy-rr x-ing) | 17 | 1 | 3 | 4 | --- | 1 |
| Servicing or maintenance of equipment | 4,005 | 116 | 3,756 | 3,872 | 91 | 42 |
| Maintenance of way and structures | 4,898 | 18 | 4,817 | 4,835 | 25 | 38 |
| Freight, baggage, express or mail | 64 | 14 | 44 | 58 | 1 | 3 |
| Windows, doors, etc., on on-track equipment | 306 | 171 | 116 | 287 | 1 | 7 |
| Passenger car doors | 15 | 3 | 3 | 6 | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C. | 1,980 | 869 | 692 | 1,561 | 109 | 201 |
| Flying or falling objects, burns, etc., N.O.C. | 373 | 209 | 115 | 324 | 6 | 35 |
| Operation of on-track work equipment | 58 | --- | 56 | 56 | --- | 2 |
| Assault | 167 | 42 | 90 | 132 | 8 | 19 |
| Other occurrences | 2,197 | 518 | 1,359 | 1,877 | 95 | 194 |
| Total | 17,706 | 5,034 | 11,442 | 16,476 | 346 | 234 |
| Grand total | 23,468 | 7,688 | 11,938 | 19,626 | 362 | 382 |
| | | | | | | 2,329 |
| | | | | | | 769 |

TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

| Type Of Accident/Incident |Accidents/Incidents..... | | |
|--|-------------------------------|-------|----------|
| | Total | Fatal | Nonfatal |
| TRAIN ACCIDENTS * | | | |
| Collisions..... | 261 | 3 | 41 |
| Derailments..... | 1,936 | 3 | 42 |
| Rail-highway crossing..... | 156 | 28 | 62 |
| Miscellaneous..... | 461 | 3 | 23 |
| Total..... | 2,814 | 37 | 168 |
| TRAIN INCIDENTS | | | |
| Coupling and uncoupling locomotives or cars..... | 192 | 1 | 191 |
| Coupling/uncoupling air/steam hose, safety chains. | 30 | --- | 30 |
| Operating or on locomotives..... | 700 | --- | 700 |
| Operating rail motorcars..... | 13 | --- | 13 |
| Operating hand brakes..... | 97 | --- | 97 |
| Operating switches or derails..... | 17 | 1 | 16 |
| Contacting fixed objects while on locos or cars.. | 73 | 2 | 71 |
| Getting on or off cars or locomotives..... | 609 | 5 | 604 |
| Collisions, derailments, etc. (below \$ threshold) | 117 | 15 | 102 |
| Rail-highway crossing accidents/incidents..... | 1,805 | 465 | 1,340 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 891 | 482 | 409 |
| Servicing or maintenance of equipment..... | 55 | --- | 55 |
| Maintenance of way and structures..... | 96 | 1 | 95 |
| Freight, baggage, express or mail..... | 12 | 3 | 9 |
| Windows, doors, etc., on on-track equipment..... | 118 | --- | 118 |
| Passenger car doors..... | 6 | --- | 6 |
| Stumbling, slipping, falling, caught, N.O.C..... | 223 | 7 | 216 |
| Flying or falling objects, burns, etc., N.O.C.... | 154 | 2 | 152 |
| Operation of on-track work equipment..... | 76 | 1 | 75 |
| Assault..... | 62 | --- | 62 |
| Other occurrences..... | 264 | 13 | 251 |
| Total..... | 5,610 | 998 | 4,612 |
| NONTRAIN INCIDENTS | | | |
| Coupling and uncoupling locomotives or cars..... | 419 | --- | 419 |
| Coupling/uncoupling air/steam hose, safety chains. | 240 | 1 | 239 |
| Operating or on locomotives..... | 527 | --- | 527 |
| Operating rail motorcars..... | 26 | --- | 26 |
| Operating hand brakes..... | 383 | --- | 383 |
| Operating switches or derails..... | 992 | --- | 992 |
| Contacting fixed objects while on locos or cars.. | 25 | --- | 25 |
| Getting on or off cars or locomotives..... | 966 | --- | 966 |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- |
| Rail-highway crossing accidents/incidents..... | 38 | 6 | 32 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 17 | 4 | 13 |
| Servicing or maintenance of equipment..... | 3,897 | 1 | 3,896 |
| Maintenance of way and structures..... | 4,891 | --- | 4,891 |
| Freight, baggage, express or mail..... | 64 | --- | 64 |
| Windows, doors, etc., on on-track equipment..... | 305 | --- | 305 |
| Passenger car doors..... | 15 | --- | 15 |
| Stumbling, slipping, falling, caught, N.O.C..... | 1,981 | 3 | 1,978 |
| Flying or falling objects, burns, etc., N.O.C.... | 358 | 4 | 354 |
| Operation of on-track work equipment..... | 58 | --- | 58 |
| Assault..... | 167 | 2 | 165 |
| Other occurrences..... | 2,118 | 12 | 2,106 |
| Total..... | 17,487 | 33 | 17,454 |
| Grand total..... | 25,911 | 1,068 | 22,234 |

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

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

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

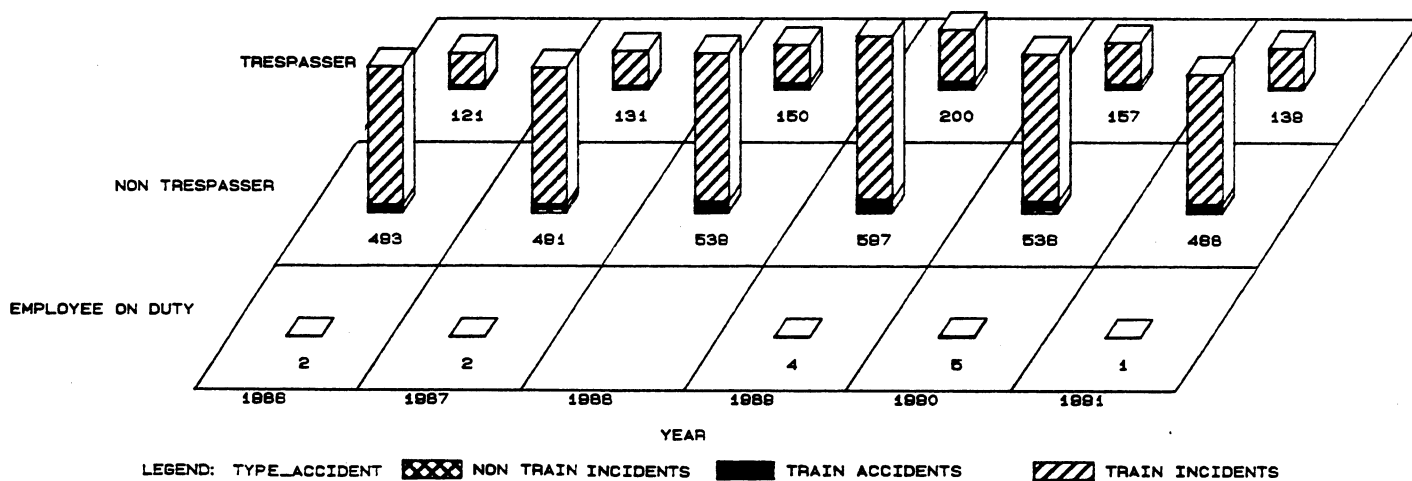


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON

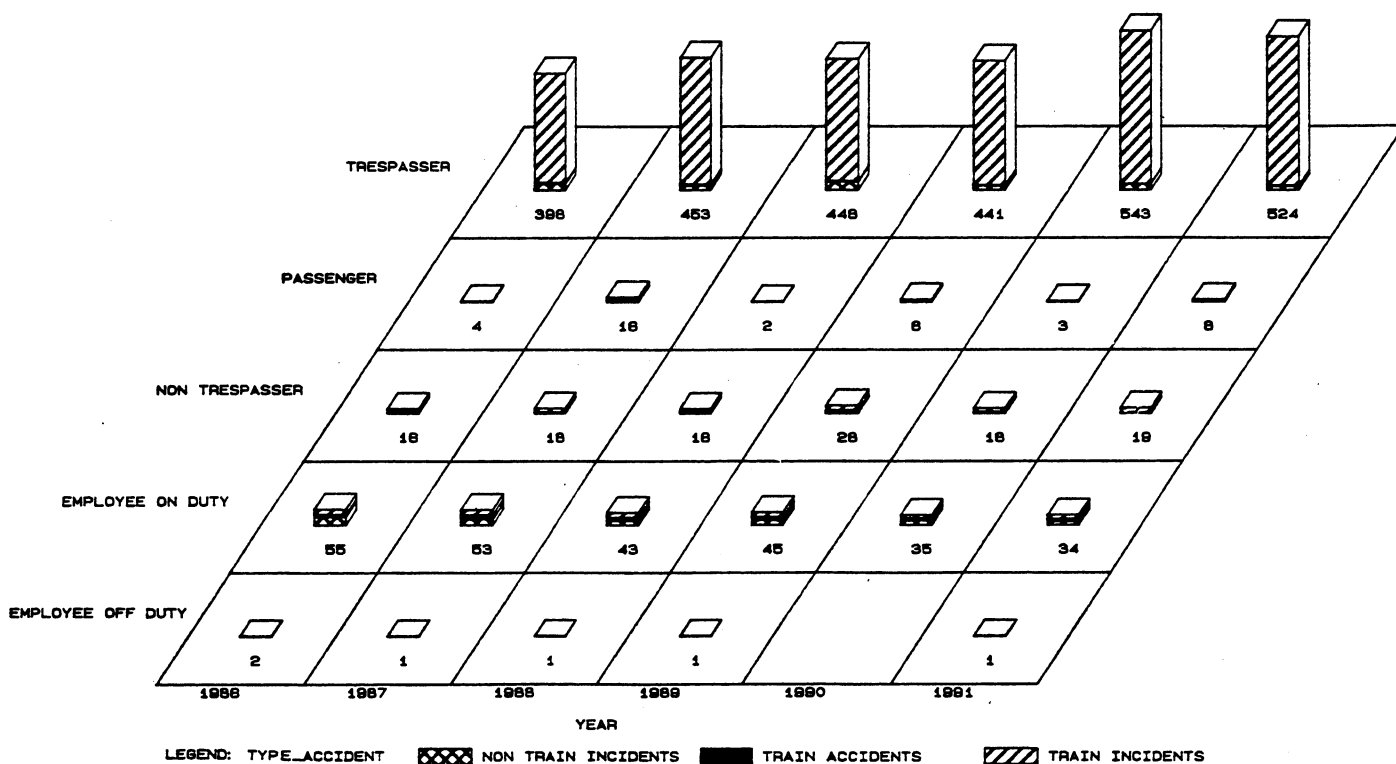


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS

TABLE 17. TRAIN ACCIDENTS BY MONTH

| Month | Accs | | Total Damage | Damage Per MTM | Train Miles..... | | | |
|-----------|-------|---------|-----------------|-------------------|------------------|------------|----------------|-------------|
| | Accs | Per MTM | | | Locomotive | Motor | Yard Switching | Total |
| January | 231 | 4.87 | 20,920,989 | \$440,905.99 | 37,762,039 | 2,181,080 | 7,507,336 | 47,450,455 |
| February | 190 | 4.23 | 15,129,672 | \$336,963.74 | 35,824,997 | 2,154,453 | 6,920,066 | 44,899,516 |
| March | 246 | 5.07 | 19,967,794 | \$411,181.46 | 38,798,721 | 2,392,486 | 7,370,647 | 48,561,854 |
| April | 229 | 5.00 | 19,192,782 | \$419,276.08 | 36,235,423 | 2,402,127 | 7,138,605 | 45,776,155 |
| May | 234 | 4.86 | 12,676,955 | \$263,253.14 | 38,151,147 | 2,519,047 | 7,484,877 | 48,155,071 |
| June | 267 | 5.61 | 20,037,273 | \$421,013.03 | 37,850,919 | 2,421,188 | 7,320,725 | 47,592,832 |
| July | 266 | 5.51 | 24,757,086 | \$512,537.23 | 38,309,787 | 2,553,699 | 7,439,088 | 48,302,574 |
| August | 267 | 5.33 | 26,415,411 | \$527,074.87 | 39,959,782 | 2,510,978 | 7,646,700 | 50,117,460 |
| September | 194 | 3.98 | 18,009,413 | \$369,469.33 | 39,027,443 | 2,374,434 | 7,342,076 | 48,743,953 |
| October | 234 | 4.52 | 12,343,883 | \$238,220.72 | 41,593,455 | 2,286,171 | 7,937,367 | 51,816,993 |
| November | 222 | 4.59 | 15,644,618 | \$323,730.87 | 38,878,564 | 2,107,802 | 7,339,433 | 48,325,799 |
| December | 234 | 4.97 | 17,841,119 | \$378,856.69 | 37,811,331 | 2,208,467 | 7,072,430 | 47,092,228 |
| Total... | 2,814 | 4.88 | 222,936,995 | \$386,483.13 | 460,203,608 | 28,111,932 | 88,519,350 | 576,834,890 |

NOTE: "MTM" = Million train miles

TABLE 18. TRAIN ACCIDENTS BY TYPE AND MONTH

| Type of Accident | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Derailment | 162 | 124 | 169 | 148 | 173 | 184 | 179 | 199 | 135 | 158 | 151 | 154 | 1,936 |
| Head on collision | 3 | --- | 3 | 5 | 4 | --- | 2 | 3 | 2 | 1 | 3 | 3 | 29 |
| Rear end collision | 1 | 1 | 1 | 6 | --- | 5 | --- | 1 | --- | 1 | 2 | 3 | 21 |
| Side collision | 12 | 17 | 10 | 12 | 12 | 7 | 12 | 10 | 11 | 13 | 12 | 18 | 146 |
| Raking collision | 6 | 3 | 6 | 3 | 3 | 6 | 4 | 7 | 5 | 4 | 5 | 5 | 57 |
| Broken train collision | 1 | 1 | 2 | --- | --- | 1 | --- | --- | --- | --- | 2 | 1 | 8 |
| Hwy-rail crossing | 10 | 16 | 16 | 12 | 7 | 17 | 15 | 14 | 17 | 15 | 4 | 13 | 156 |
| RR grade crossing | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Obstruction | 1 | --- | 7 | 3 | 3 | 9 | 8 | 3 | 2 | 9 | 7 | 6 | 58 |
| Explosion-detonation | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 | --- | --- | 1 |
| Fire or violent rupture | 2 | 1 | 4 | 5 | 2 | 1 | 3 | --- | 2 | 2 | 3 | 5 | 30 |
| Other | 33 | 27 | 28 | 35 | 30 | 37 | 43 | 30 | 20 | 30 | 33 | 26 | 372 |
| Total | 231 | 190 | 246 | 229 | 234 | 267 | 266 | 267 | 194 | 234 | 222 | 234 | 2,814 |

3. ACCIDENTS: DETAILS OF 1991 OCCURRENCES

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

| Cause Of Accident | Accidents | Damage | Collisions | Derailments | Other | Rail Hwy Crossing |
|---|-----------|-------------|------------|-------------|-------|-------------------|
| TRACK, ROADBED AND STRUCTURES | | | | | | |
| Roadbed defects | 43 | 4,491,105 | --- | 41 | 2 | --- |
| Track geometry defects | 390 | 23,866,673 | 1 | 380 | 9 | --- |
| Rail and joint bar defects | 238 | 22,190,769 | --- | 234 | 4 | --- |
| Frogs, switches and track appliances | 255 | 7,713,718 | 3 | 231 | 21 | --- |
| Other way and structure | 26 | 1,166,779 | 7 | 4 | 15 | --- |
| Signal and communication failures | 16 | 527,119 | 6 | 8 | 2 | --- |
| Subtotal..... | 968 | 59,956,163 | 17 | 898 | 53 | --- |
| MECHANICAL AND ELECTRICAL FAILURES | | | | | | |
| *LOCOMOTIVE FAILURE* | | | | | | |
| Brakes | 4 | 65,970 | --- | 2 | 2 | --- |
| Body | --- | --- | --- | --- | --- | --- |
| Coupler and draft system | 1 | 21,200 | 1 | --- | --- | --- |
| Truck components | --- | --- | --- | --- | --- | --- |
| Axles and journal bearings | 4 | 2,044,300 | --- | 4 | --- | --- |
| Wheels | 7 | 109,906 | --- | 6 | 1 | --- |
| Locomotives | 24 | 3,944,401 | 3 | 4 | 17 | --- |
| Doors | --- | --- | --- | --- | --- | --- |
| General mechanical and electrical failures | 13 | 118,702 | --- | --- | 13 | --- |
| Subtotal (Locomotives)... | 53 | 6,304,479 | 4 | 16 | 33 | --- |
| *CAR FAILURE* | | | | | | |
| Brakes | 44 | 3,279,960 | 2 | 36 | 6 | --- |
| Trailer or container on flat car | 2 | 23,500 | 1 | --- | 1 | --- |
| Body | 28 | 1,313,603 | 1 | 22 | 5 | --- |
| Coupler and draft system | 63 | 4,560,100 | 4 | 46 | 13 | --- |
| Truck components | 72 | 8,906,895 | 1 | 71 | --- | --- |
| Axles and journal bearings | 59 | 11,476,875 | --- | 59 | --- | --- |
| Wheels | 68 | 11,408,794 | 2 | 63 | 3 | --- |
| Doors | 6 | 266,556 | 1 | 5 | --- | --- |
| General mechanical and electrical failures | 20 | 595,306 | 1 | 5 | 14 | --- |
| Subtotal (cars)..... | 362 | 41,831,589 | 13 | 307 | 42 | --- |
| TOTAL EQUIPMENT FAILURES.... | 415 | 48,136,068 | 17 | 323 | 75 | --- |
| TRAIN OPERATION - HUMAN FACTORS | | | | | | |
| Brakes, use of | 176 | 15,186,657 | 55 | 68 | 53 | --- |
| Employee physical condition | 1 | 3,549,387 | 1 | --- | --- | --- |
| Flagging, fixed, hand and radio signals | 39 | 4,636,585 | 16 | 11 | 12 | --- |
| Other rules and instructions | 249 | 23,650,306 | 87 | 67 | 95 | --- |
| Speed | 66 | 6,302,221 | 18 | 30 | 18 | --- |
| Switches, use of | 140 | 7,870,630 | 18 | 98 | 24 | --- |
| Miscellaneous | 216 | 9,618,064 | 7 | 182 | 27 | --- |
| Subtotal..... | 887 | 70,813,850 | 202 | 456 | 229 | --- |
| MISCELLANEOUS FACTORS | | | | | | |
| Collision with highway user at crossing site | 156 | 13,275,120 | --- | --- | --- | 156 |
| Emergency brake application to avoid accident | 6 | 292,050 | --- | 5 | 1 | --- |
| Vandalism | 67 | 6,082,639 | 1 | 48 | 18 | --- |
| Interference with rr operation, not vandals | 14 | 4,476,964 | 3 | 10 | 1 | --- |
| Load shifted | 17 | 872,557 | 2 | 11 | 4 | --- |
| Load fell from car | 3 | 229,101 | --- | 3 | --- | --- |
| Overloaded car | 5 | 72,455 | --- | 5 | --- | --- |
| Improperly loaded car | 20 | 1,753,234 | 2 | 16 | 2 | --- |
| Oversized load, misrouted | 3 | 70,000 | --- | --- | 3 | --- |
| Object on or fouling track | 27 | 1,369,156 | 2 | 12 | 13 | --- |
| Equipment on or fouling track | 6 | 291,510 | 4 | --- | 2 | --- |
| Trail/container tiedown eqp impr applied | --- | --- | --- | --- | --- | --- |
| Overload/improper loaded container etc. | 2 | 359,000 | --- | --- | 2 | --- |
| Interaction of lateral/vertical forces | 88 | 4,712,688 | --- | 87 | 1 | --- |
| Failure to control car spd with hand brk | 3 | 203,263 | --- | 3 | --- | --- |
| Snow, ice, or mud on track | 9 | 841,590 | --- | 9 | --- | --- |
| Other acts of God | 14 | 2,595,244 | 1 | 3 | 10 | --- |
| Fire, not due to vandalism | 4 | 476,915 | --- | --- | 4 | --- |
| Hump retarder failed to slow car | 27 | 523,832 | 4 | 3 | 20 | --- |
| Switch fouled by lading chains, etc. | 4 | 59,424 | --- | 2 | 2 | --- |
| Other causes | 69 | 5,474,172 | 6 | 42 | 21 | --- |
| Subtotal..... | 544 | 44,030,914 | 25 | 259 | 104 | 156 |
| GRAND TOTAL..... | 2,814 | 222,936,995 | 261 | 1,936 | 461 | 156 |

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

| Cause Of Accident | -----Total----- | | Collisions | Derailments | Other | Rail Hwy Crossing |
|--|-----------------|------------|------------|-------------|-------|----------------------|
| | Accidents | Damage | | | | |
| BRAKES, USE OF | | | | | | |
| 500 Automatic brake, improper use | 9 | 562,101 | --- | 9 | --- | --- |
| 501 Dynamic brake, improper use | 13 | 6,090,852 | --- | 13 | --- | --- |
| 502 Failure to secure engine (R.R. emp.) | 12 | 1,320,153 | 6 | 1 | 5 | --- |
| 503 Failure to secure hnd brk (R.R. emp) | 38 | 1,675,202 | 17 | 8 | 13 | --- |
| 504 Failure to apply sufficient hand brake | 47 | 1,676,475 | 17 | 11 | 19 | --- |
| 505 Failure to apply hnd brk on car (emp.) | 18 | 341,774 | 8 | 6 | 4 | --- |
| 506 Fail. to secure eng/car (Non R.R. emp) | 7 | 316,151 | 1 | 3 | 3 | --- |
| 507 Independent (eng.) brake, improper use | 17 | 1,313,052 | --- | 14 | 3 | --- |
| 508 Fail. to control spd,hnd brk (R.R.emp) | 4 | 88,620 | 2 | --- | 2 | --- |
| 509 Other causes involving use of brakes | 11 | 1,802,277 | 4 | 3 | 4 | --- |
| SUBTOTAL..... | 176 | 15,186,657 | 55 | 68 | 53 | --- |
| EMPLOYEE PHYSICAL CONDITION | | | | | | |
| 513 Employee falling asleep | 1 | 3,549,387 | 1 | --- | --- | --- |
| SUBTOTAL..... | 1 | 3,549,387 | 1 | --- | --- | --- |
| FLAGGING, FIXED, HAND AND RADIO SIGNALS | | | | | | |
| 52A Block signal, failure to comply | 8 | 2,943,244 | 5 | 2 | 1 | --- |
| 52B Interlocking signal, failure to comply | 2 | 379,612 | 1 | 1 | --- | --- |
| 520 Fixed signal, failure to comply | 8 | 789,727 | 4 | 3 | 1 | --- |
| 521 Flagging, improper or failure to flag | 1 | 21,500 | 1 | --- | --- | --- |
| 524 Hand signal improper | 1 | 30,000 | --- | --- | 1 | --- |
| 525 Hand signal, failure to give/receive | 2 | 28,350 | --- | --- | 2 | --- |
| 526 Radio communication, failure to comply | 6 | 138,572 | 2 | 2 | 2 | --- |
| 527 Radio communication, improper | 1 | 14,560 | --- | --- | 1 | --- |
| 528 Radio comm., failure to give/receive | 9 | 236,020 | 3 | 3 | 3 | --- |
| 529 Flagging, fixed, hand & radio (other) | 1 | 55,000 | --- | --- | 1 | --- |
| SUBTOTAL..... | 39 | 4,636,585 | 16 | 11 | 12 | --- |
| OTHER RULES AND INSTRUCTIONS | | | | | | |
| 530 Car(s) shoved out & left out of clear | 3 | 30,890 | --- | --- | 3 | --- |
| 531 Cars left foul | 22 | 518,130 | 4 | 3 | 15 | --- |
| 532 Derail, failure to apply or remove | 14 | 311,551 | --- | 14 | --- | --- |
| 533 Failure to stop train in clear | 23 | 3,517,070 | 15 | 3 | 5 | --- |
| 535 Instruction to trn/yard crew improper | 13 | 330,083 | 7 | 2 | 4 | --- |
| 536 Mtr car/on-trk eqp rules,fail to cmPLY | 22 | 1,470,243 | 6 | 3 | 13 | --- |
| 537 Equip move without authority (RR emp) | 8 | 159,395 | 5 | --- | 3 | --- |
| 538 Shoving move, missing man at lead | 69 | 2,352,108 | 24 | 25 | 20 | --- |
| 539 Shoving movement, fail to control | 28 | 856,774 | 8 | 9 | 11 | --- |
| 540 Skate, failure to remove or place | 2 | 23,299 | --- | --- | 2 | --- |
| 541 Special op. instr., failure to comply | 16 | 308,211 | 4 | 2 | 10 | --- |
| 542 Trn ord/timetable auth, fail to comply | 1 | 2,562,829 | 1 | --- | --- | --- |
| 543 Trn ord(radio)err in prep/trans/deliv | 1 | 7,752,969 | 1 | --- | --- | --- |
| 549 Rules and instructions, other | 27 | 3,456,754 | 12 | 6 | 9 | --- |
| SUBTOTAL..... | 249 | 23,650,306 | 87 | 67 | 95 | --- |

TABLE 20. (CONTINUED)

| Cause Of Accident | -----Total----- | | Collisions | Derailments | Other | Rail Hwy Crossing |
|--|-----------------|------------|------------|-------------|-------|----------------------|
| | Accidents | Damage | | | | |
| SPEED | | | | | | |
| 550 Coupling speed excessive | 20 | 1,684,835 | 5 | 7 | 8 | --- |
| 553 Switch movement, excessive speed | 10 | 237,627 | 2 | 4 | 4 | --- |
| 554 Trn inside yrd limit, excess speed | 14 | 731,585 | 6 | 6 | 2 | --- |
| 555 Trn out yrd limit,clear blk,excess spd | 6 | 1,662,000 | --- | 6 | --- | --- |
| 559 Other Causes involving excessive speed | 16 | 1,986,174 | 5 | 7 | 4 | --- |
| SUBTOTAL..... | 66 | 6,302,221 | 18 | 30 | 18 | --- |
| SWITCHES, USE OF | | | | | | |
| 560 Spring switch not clear before reverse | 2 | 20,300 | --- | 2 | --- | --- |
| 561 Switch improperly lined | 85 | 6,472,285 | 17 | 47 | 21 | --- |
| 562 Switch not latched or locked | 6 | 103,255 | --- | 6 | --- | --- |
| 563 Switch previously run through | 33 | 826,865 | --- | 31 | 2 | --- |
| 569 Use of switches, other | 14 | 447,925 | 1 | 12 | 1 | --- |
| SUBTOTAL..... | 140 | 7,870,630 | 18 | 98 | 24 | --- |
| MISCELLANEOUS | | | | | | |
| 570 Buffing or slack action excessive | 109 | 6,823,881 | 1 | 107 | 1 | --- |
| 571 Failure to couple | 7 | 182,105 | 1 | 3 | 3 | --- |
| 572 Lateral drawbar force on curve excess | 30 | 977,474 | --- | 30 | --- | --- |
| 574 Passed couplers | 33 | 519,072 | --- | 24 | 9 | --- |
| 575 Retarder, improper manual operation | 10 | 175,696 | --- | 4 | 6 | --- |
| 576 Retarder yard skate improperly applied | 3 | 31,054 | 1 | --- | 2 | --- |
| 599 Other train operation/human factors | 24 | 908,782 | 4 | 14 | 6 | --- |
| SUBTOTAL..... | 216 | 9,618,064 | 7 | 182 | 27 | --- |
| GRAND TOTAL..... | 887 | 70,813,850 | 202 | 456 | 229 | --- |

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

| Cause Of Accident | Accidents | Damage | Collisions | Derailments | Other | Rail Hwy Crossing |
|---|-----------|-----------|------------|-------------|-------|-------------------|
| BRAKES | | | | | | |
| 400 Air hose uncoupled or burst | 6 | 687,326 | --- | 6 | --- | --- |
| 402 Broken brake pipe or connections | 2 | 384,421 | --- | 2 | --- | --- |
| 404 Other brake component failure, etc. | 3 | 28,533 | 1 | --- | 2 | --- |
| 404L Other brake component failure - loco | 1 | 10,250 | --- | 1 | --- | --- |
| 405 Brk valve malf. (undesired emergency) | 8 | 402,710 | --- | 7 | 1 | --- |
| 405L Brk valve malf - loco (emergency appl) | 1 | 14,820 | --- | 1 | --- | --- |
| 406 Brake valve malfunction/stuck brake/etc | 1 | 12,650 | --- | 1 | --- | --- |
| 407 Rigging down or dragging | 15 | 1,461,939 | --- | 15 | --- | --- |
| 408 Hand brake/gear broken or defective | 2 | 28,850 | --- | 1 | 1 | --- |
| 408L Hand brk/gear broken/defective - loco | 2 | 40,900 | --- | --- | 2 | --- |
| 409 Hand brk linkage/connections failure | 3 | 46,353 | 1 | 1 | 1 | --- |
| 410 Other brake failure(not on locomotive) | 4 | 227,178 | --- | 3 | 1 | --- |
| SUBTOTAL..... | 48 | 3,345,930 | 2 | 38 | 8 | --- |
| TRAILER OR CONTAINER ON FLAT CAR | | | | | | |
| 411 Broken or defective tiedown equipment | 2 | 23,500 | 1 | --- | 1 | --- |
| SUBTOTAL..... | 2 | 23,500 | 1 | --- | 1 | --- |
| BODY | | | | | | |
| 421 Center sill broken or bent | 5 | 83,430 | --- | 4 | 1 | --- |
| 422 Draft sill broken or bent | 3 | 151,286 | --- | 3 | --- | --- |
| 423 Center plate broken or defective | 8 | 433,400 | 1 | 7 | --- | --- |
| 424 Center plate disengaged from truck | 3 | 78,527 | --- | 3 | --- | --- |
| 427 Side sill broken | 2 | 26,100 | --- | --- | 2 | --- |
| 429 Other causes due to body (not loco) | 7 | 540,860 | --- | 5 | 2 | --- |
| SUBTOTAL..... | 28 | 1,313,603 | 1 | 22 | 5 | --- |
| COUPLER AND DRAFT SYSTEM | | | | | | |
| 430 Knuckle broken or defective | 11 | 421,509 | 1 | 5 | 5 | --- |
| 431 Coupler mismatch, high/low | 10 | 198,573 | --- | 7 | 3 | --- |
| 432 Coupler drawhead broken or defective | 12 | 281,273 | 1 | 9 | 2 | --- |
| 433 Coupler retainer pin/cross key missing | 14 | 2,535,415 | --- | 11 | 3 | --- |
| 434 Draft gear/mechanism broken/defective | 6 | 538,307 | 1 | 5 | --- | --- |
| 436 Coupler shank broken or defective | 2 | 409,909 | --- | 2 | --- | --- |
| 439 Other coupler and draft system causes | 8 | 175,114 | 1 | 7 | --- | --- |
| 439L Other coupler/draft system causes-loco | 1 | 21,200 | 1 | --- | --- | --- |
| SUBTOTAL..... | 64 | 4,581,300 | 5 | 46 | 13 | --- |
| TRUCK COMPONENTS | | | | | | |
| 440 Side bearing clearance improper | 20 | 2,477,678 | --- | 20 | --- | --- |
| 441 Side bearing(s) broken | 1 | 82,649 | --- | 1 | --- | --- |
| 442 Side bearing(s) missing | 1 | 51,501 | --- | 1 | --- | --- |
| 443 Truck bolster broken | 1 | 13,900 | --- | 1 | --- | --- |
| 445 Truck (stiff/improper lateral) | 36 | 3,753,447 | --- | 36 | --- | --- |
| 446 Defective snubbing | 2 | 697,476 | --- | 2 | --- | --- |
| 447 Broken/missing/defective springs | 1 | 20,712 | --- | 1 | --- | --- |
| 449 Other truck component causes | 10 | 1,809,532 | 1 | 9 | --- | --- |
| SUBTOTAL..... | 72 | 8,906,895 | 1 | 71 | --- | --- |

TABLE 21. (CONTINUED)

| Cause Of Accident | Accidents | Damage | Collisions | Derailments | Other | Rail Hwy Crossing |
|---|-----------|------------|------------|-------------|-------|-------------------|
| AXLES AND JOURNAL BEARINGS | | | | | | |
| 450 Broken or bent between wheel seats | 3 | 2,416,123 | --- | 3 | --- | --- |
| 450L Broken/bent between wheel seats-loco | 4 | 2,044,300 | --- | 4 | --- | --- |
| 451 Journal (plain) failure - overheating | 13 | 1,275,795 | --- | 13 | --- | --- |
| 452 Journal (R. R.) failure - overheat | 38 | 7,075,933 | --- | 38 | --- | --- |
| 453 Journal fractured, new cold break | 1 | 43,000 | --- | 1 | --- | --- |
| 459 Axles and journal bearings (other) | 4 | 666,024 | --- | 4 | --- | --- |
| SUBTOTAL..... | 63 | 13,521,175 | --- | 63 | --- | --- |
| WHEELS | | | | | | |
| 460 Broken flange | 5 | 1,421,689 | --- | 5 | --- | --- |
| 461 Broken rim | 9 | 3,400,590 | --- | 9 | --- | --- |
| 462 Broken plate | 14 | 2,649,960 | --- | 14 | --- | --- |
| 463 Broken hub | 2 | 1,010,646 | --- | 2 | --- | --- |
| 464 Horn flange | 18 | 650,984 | --- | 16 | 2 | --- |
| 464L Horn flange - locomotive | 5 | 54,256 | --- | 5 | --- | --- |
| 466 Damaged flange or tread, flat | 2 | 1,113,816 | --- | 2 | --- | --- |
| 466L Damaged flange or tread, flat - loco | 1 | 14,050 | --- | --- | 1 | --- |
| 467 Loose wheel | 4 | 402,229 | --- | 4 | --- | --- |
| 468 Thermal crack, flange or tread | 2 | 419,131 | --- | 2 | --- | --- |
| 469 Other causes involving wheels-not loco | 12 | 339,749 | 2 | 9 | 1 | --- |
| 469L Other causes involving wheel - loco | 1 | 41,600 | --- | 1 | --- | --- |
| SUBTOTAL..... | 75 | 11,518,700 | 2 | 69 | 4 | --- |
| LOCOMOTIVES | | | | | | |
| 471L Traction motor failure - locomotive | 1 | 9,300 | --- | 1 | --- | --- |
| 472L Crank case/air box explosion - loco | 1 | 12,800 | --- | --- | 1 | --- |
| 473L Oil fire - locomotive | 5 | 594,838 | --- | --- | 5 | --- |
| 474L Electrically caused fire - locomotive | 9 | 2,999,086 | --- | --- | 9 | --- |
| 475L Current collector system - loco | 2 | 35,535 | 2 | --- | --- | --- |
| 479L Other causes involving locomotives | 6 | 292,842 | 1 | 3 | 2 | --- |
| SUBTOTAL..... | 24 | 3,944,401 | 3 | 4 | 17 | --- |
| DOORS | | | | | | |
| 481 Box car plug door, attachment defective | 1 | 12,650 | 1 | --- | --- | --- |
| 485 Bottom outlet car door open | 1 | 13,456 | --- | 1 | --- | --- |
| 486 Bottom outlet car door attach defect. | 2 | 201,900 | --- | 2 | --- | --- |
| 489 Other causes involving doors | 2 | 38,550 | --- | 2 | --- | --- |
| SUBTOTAL..... | 6 | 266,556 | 1 | 5 | --- | --- |
| GENERAL MECHANICAL AND ELECTRICAL FAILURES | | | | | | |
| 499 General mech/elect failures-not loco | 20 | 595,306 | 1 | 5 | 14 | --- |
| 499L General mech/elect failures - loco | 13 | 118,702 | --- | --- | 13 | --- |
| SUBTOTAL..... | 33 | 714,008 | 1 | 5 | 27 | --- |
| GRAND TOTAL..... | 415 | 48,136,068 | 17 | 323 | 75 | --- |

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

| Cause Of Accident | -----Total----- | | Collisions | Derailments | Other | Rail Hwy Crossing |
|---|-----------------|------------|------------|-------------|-------|-------------------|
| | Accidents | Damage | | | | |
| ROADBED DEFECTS | | | | | | |
| 101 Roadbed settled or soft | 30 | 2,218,426 | --- | 30 | --- | --- |
| 102 Washout/rain/slide/ice, etc. dmg to trk | 9 | 2,198,474 | --- | 9 | --- | --- |
| 109 Other roadbed defects | 4 | 74,205 | --- | 2 | 2 | --- |
| SUBTOTAL..... | 43 | 4,491,105 | --- | 41 | 2 | --- |
| TRACK GEOMETRY DEFECTS | | | | | | |
| 110 Wide gage (defect/missing crossties) | 192 | 5,430,399 | --- | 187 | 5 | --- |
| 111 Wide gage (def/missing rail fasteners) | 20 | 1,167,120 | --- | 19 | 1 | --- |
| 112 Wide gage (involving gage rods) | 5 | 92,693 | --- | 5 | --- | --- |
| 113 Wide gage due to worn rail | 9 | 302,737 | --- | 9 | --- | --- |
| 114 Track alignment irregular | 8 | 1,162,986 | 1 | 7 | --- | --- |
| 115 Track alignment irregular (buckled) | 38 | 6,715,759 | --- | 38 | --- | --- |
| 116 Track profile improper | 6 | 1,063,755 | --- | 5 | 1 | --- |
| 117 Superelevation incorrect | 10 | 1,015,240 | --- | 10 | --- | --- |
| 118 Superelevation runoff improper | 1 | 10,845 | --- | 1 | --- | --- |
| 119 Cross level irregular at joints | 38 | 2,330,287 | --- | 37 | 1 | --- |
| 120 Cross level irregular not at joints | 42 | 2,611,331 | --- | 42 | --- | --- |
| 129 Other track geometry defects | 21 | 1,963,521 | --- | 20 | 1 | --- |
| SUBTOTAL..... | 390 | 23,866,673 | 1 | 380 | 9 | --- |
| RAIL AND JOINT BAR DEFECTS | | | | | | |
| 130 Bolt hole crack or break | 7 | 2,201,950 | --- | 7 | --- | --- |
| 131 Broken base of rail | 35 | 1,294,737 | --- | 34 | 1 | --- |
| 132 Broken weld, field | 5 | 1,665,739 | --- | 5 | --- | --- |
| 134 Detail fracture fm shelling/head check | 22 | 4,452,028 | --- | 21 | 1 | --- |
| 135 Engine burn fracture | 1 | 84,700 | --- | 1 | --- | --- |
| 136 Head/web sep.(outside joint bar limit) | 27 | 1,926,479 | --- | 27 | --- | --- |
| 137 Head/web sep.(within joint bar limits) | 5 | 93,081 | --- | 5 | --- | --- |
| 138 Horizontal split head | 5 | 752,293 | --- | 5 | --- | --- |
| 139 Piped rail | 2 | 25,466 | --- | 2 | --- | --- |
| 141 Transverse/compound fissure | 48 | 3,483,038 | --- | 48 | --- | --- |
| 142 Vertical split head | 34 | 2,362,604 | --- | 33 | 1 | --- |
| 143 Worn rail | 9 | 223,885 | --- | 8 | 1 | --- |
| 144 Mismatched rail-head contour | 4 | 51,024 | --- | 4 | --- | --- |
| 147 Joint bar broken, noninsulated | 10 | 1,349,589 | --- | 10 | --- | --- |
| 148 Joint bolts, broken or missing | 2 | 39,415 | --- | 2 | --- | --- |
| 149 Other rail and joint bar defects | 22 | 2,184,741 | --- | 22 | --- | --- |
| SUBTOTAL..... | 238 | 22,190,769 | --- | 234 | 4 | --- |

TABLE 22. (CONTINUED)

| Cause Of Accident | -----Total----- | | | | | |
|--|-----------------|------------|------------|-------------|-------|-------------------|
| | Accidents | Damage | Collisions | Derailments | Other | Rail Way Crossing |
| FROGS, SWITCHES AND TRACK APPLIANCES | | | | | | |
| 160 Guard rail loose/broken/etc. | 3 | 80,335 | --- | 3 | --- | --- |
| 161 Switch damaged/out of adjustment | 50 | 894,505 | --- | 47 | 3 | --- |
| 162 Switch stand failure (hand oper.) | 11 | 222,591 | --- | 11 | --- | --- |
| 163 Switch connecting/oper. rod fail. | 9 | 265,310 | --- | 8 | 1 | --- |
| 164 Stock rail worn/broken/disconnect | 7 | 249,148 | --- | 7 | --- | --- |
| 165 Switch point worn or broken | 122 | 3,193,240 | --- | 116 | 6 | --- |
| 166 Switch rod worn/bent/broken/etc. | 4 | 929,010 | --- | 4 | --- | --- |
| 167 Frog, rigid, worn or broken | 4 | 32,750 | --- | 4 | --- | --- |
| 169 Frog, self guarded, worn/broken | 1 | 486,000 | --- | 1 | --- | --- |
| 171 Derail, defective | 1 | 169,900 | --- | 1 | --- | --- |
| 173 Retarder worn/broken/malfunction | 10 | 131,200 | 1 | 1 | 8 | --- |
| 174 Spring/power switch mech. malfunction | 11 | 452,421 | 1 | 9 | 1 | --- |
| 175 Retarder yard skate defective | 3 | 33,400 | 1 | --- | 2 | --- |
| 176 Switch out of adjust.(insuf rail anch) | 4 | 192,700 | --- | 4 | --- | --- |
| 179 Other frog/switches/track appl. causes | 15 | 381,208 | --- | 15 | --- | --- |
| SUBTOTAL..... | 255 | 7,713,718 | 3 | 231 | 21 | --- |
| OTHER WAY AND STRUCTURES | | | | | | |
| 180 Bridge misalignment or failure | 1 | 9,000 | --- | 1 | --- | --- |
| 181 Flangeway clogged | 1 | 50,500 | --- | 1 | --- | --- |
| 189 Other way and structure causes | 24 | 1,107,279 | 7 | 2 | 15 | --- |
| SUBTOTAL..... | 26 | 1,166,779 | 7 | 4 | 15 | --- |
| SIGNAL AND COMMUNICATION FAILURES | | | | | | |
| 200 Fix sig. improperly displayed (defect) | 2 | 166,600 | --- | 2 | --- | --- |
| 201 Radio communication equipment failure | 3 | 61,675 | 2 | 1 | --- | --- |
| 202 Other communication equipment failure | 1 | 21,000 | 1 | --- | --- | --- |
| 203 Block signal displayed false proceed | 1 | 89,000 | 1 | --- | --- | --- |
| 208 Automatic train control device inopera | 1 | 11,010 | --- | 1 | --- | --- |
| 209 Signal & communication failure N.O.C. | 8 | 177,834 | 2 | 4 | 2 | --- |
| SUBTOTAL..... | 16 | 527,119 | 6 | 8 | 2 | --- |
| GRAND TOTAL..... | 968 | 59,956,163 | 17 | 898 | 53 | --- |

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

| Cause Of Accident | -----Total----- | | Collisions | Derailments | Other | Rail Hwy Crossing |
|--|-----------------|------------|------------|-------------|-------|----------------------|
| | Accidents | Damage | | | | |
| MISC CAUSES NOT OTHERWISE LISTED | | | | | | |
| 700 Collision with hwy user at grade xing | 156 | 13,275,120 | --- | --- | --- | 156 |
| 701 Emergency brk appl to avoid accident | 6 | 292,050 | --- | 5 | 1 | --- |
| 702 Vandalism | 67 | 6,082,639 | 1 | 48 | 18 | --- |
| 703 Interference with RR oper.-not vandals | 14 | 4,476,964 | 3 | 10 | 1 | --- |
| 704 Load shifted | 17 | 872,557 | 2 | 11 | 4 | --- |
| 705 Load fell from car | 3 | 229,101 | --- | 3 | --- | --- |
| 706 Overloaded car | 5 | 72,455 | --- | 5 | --- | --- |
| 707 Improperly loaded car | 20 | 1,753,234 | 2 | 16 | 2 | --- |
| 708 Oversized load, misrouted | 3 | 70,000 | --- | --- | 3 | --- |
| 709 Object on or fouling track | 27 | 1,369,156 | 2 | 12 | 13 | --- |
| 710 Equipment on or fouling track | 6 | 291,510 | 4 | --- | 2 | --- |
| 712 Overload/improper loaded container etc | 2 | 359,000 | --- | --- | 2 | --- |
| 713 Interaction of lateral/vertical forces | 88 | 4,712,688 | --- | 87 | 1 | --- |
| 714 Failure to control spd with hand brake | 3 | 203,263 | --- | 3 | --- | --- |
| 715 Snow, ice, or mud on track | 9 | 841,590 | --- | 9 | --- | --- |
| 716 Other acts of God | 14 | 2,595,244 | 1 | 3 | 10 | --- |
| 717 Fire, other than vandalism, involving | 4 | 476,915 | --- | --- | 4 | --- |
| 718 Hump retarder failed to sufficiently s | 27 | 523,832 | 4 | 3 | 20 | --- |
| 719 Objects such as lading chains or strap | 4 | 59,424 | --- | 2 | 2 | --- |
| 799 Other miscellaneous causes | 69 | 5,474,172 | 6 | 42 | 21 | --- |
| SUBTOTAL | 544 | 44,030,914 | 25 | 259 | 104 | 156 |
| GRAND TOTAL | 544 | 44,030,914 | 25 | 259 | 104 | 156 |

TABLE 24. DAMAGES TO RAIL EQUIPMENT IN TRAIN ACCIDENTS BY CONSIST TYPE

| Type of consist |Collisions.... | | ...Derailments.... | |Other..... | | ..Rail-Hwy X-ing.. | |Total..... | |
|--------------------|--------------------|-------------------|--------------------|--------------------|-----------------|-------------------|--------------------|-------------------|-----------------|--------------------|
| | Number | Damage | Number | Damage | Number | Damage | Number | Damage | Number | Damage |
| Freight train.... | 155 | 27,181,487 | 1,362 | 93,922,448 | 102 | 4,011,200 | 106 | 8,286,173 | 1,725 | 133,401,308 |
| Passenger train... | 23 | 727,386 | 24 | 4,236,888 | 72 | 5,099,175 | 29 | 3,043,313 | 148 | 13,108,762 |
| Mixed train..... | --- | --- | 3 | 468,400 | 1 | 130,000 | --- | --- | 4 | 598,400 |
| Work train..... | 3 | 67,300 | 5 | 80,080 | 1 | 8,500 | 1 | 7,000 | 10 | 162,880 |
| Single car..... | 32 | 408,464 | 23 | 514,613 | 53 | 1,210,648 | 4 | 158,200 | 112 | 2,291,925 |
| Cut of cars..... | 73 | 968,417 | 78 | 1,369,522 | 96 | 1,307,382 | --- | --- | 247 | 3,645,321 |
| Yard/switching... | 145 | 2,141,026 | 468 | 6,684,842 | 187 | 2,908,030 | 2 | 13,586 | 802 | 11,747,484 |
| Light loco(s).... | 44 | 3,274,412 | 21 | 363,798 | 28 | 908,047 | 3 | 49,100 | 96 | 4,595,357 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total..... | 475 | 34,768,492 | 1,984 | 107,640,591 | 540 | 15,582,982 | 145 | 11,559,372 | 3,144 | 169,551,437 |

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

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

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

TABLE 25. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

| Type Of Accident | Consists Carrying | In Consist | Containing Hazmat | Cars Damaged W/Hazmat | Releasing Hazmat | People Evacuated | Damage To Equipment |
|-------------------------|-------------------|------------|-------------------|-----------------------|------------------|------------------|---------------------|
| Derailment | 396 | 27,111 | 3,221 | 634 | 71 | 6,017 | 35,394,334 |
| Head on collision | 5 | 397 | 123 | 10 | 5 | 12 | 4,118,112 |
| Rear end collision | 2 | 222 | 40 | 1 | --- | --- | 35,120 |
| Side collision | 47 | 2,282 | 316 | 40 | 4 | --- | 1,811,317 |
| Raking collision | 10 | 314 | 29 | 8 | --- | --- | 3,629,937 |
| Broken train collision | 2 | 297 | 61 | --- | --- | --- | 123,000 |
| Hwy-rail crossing | 19 | 1,424 | 102 | 6 | 1 | 230 | 1,669,776 |
| RR grade crossing | --- | --- | --- | --- | --- | --- | --- |
| Obstruction | 7 | 443 | 27 | --- | --- | --- | 413,510 |
| Explosion-detonation | --- | --- | --- | --- | --- | --- | --- |
| Fire or violent rupture | 2 | 187 | 12 | --- | --- | --- | 19,200 |
| Other | 55 | 2,351 | 234 | 52 | 3 | 200 | 2,117,987 |
| Total | 545 | 35,028 | 4,165 | 751 | 84 | 6,459 | 49,332,293 |

TABLE 26. TRAIN ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

| Year | Total Number Of Accidents | Accidents In Which A Hazmat Car Was Damaged Or Derailed | Accidents In Which There Was A Release of Hazardous Materials | Accidents Which Resulted In Evacuation |
|------|---------------------------|---|---|--|
| 1986 | 364 | 185 | 51 | 32 |
| 1987 | 352 | 186 | 50 | 28 |
| 1988 | 475 | 237 | 44 | 32 |
| 1989 | 517 | 251 | 55 | 28 |
| 1990 | 466 | 236 | 35 | 20 |
| 1991 | 525 | 293 | 47 | 28 |

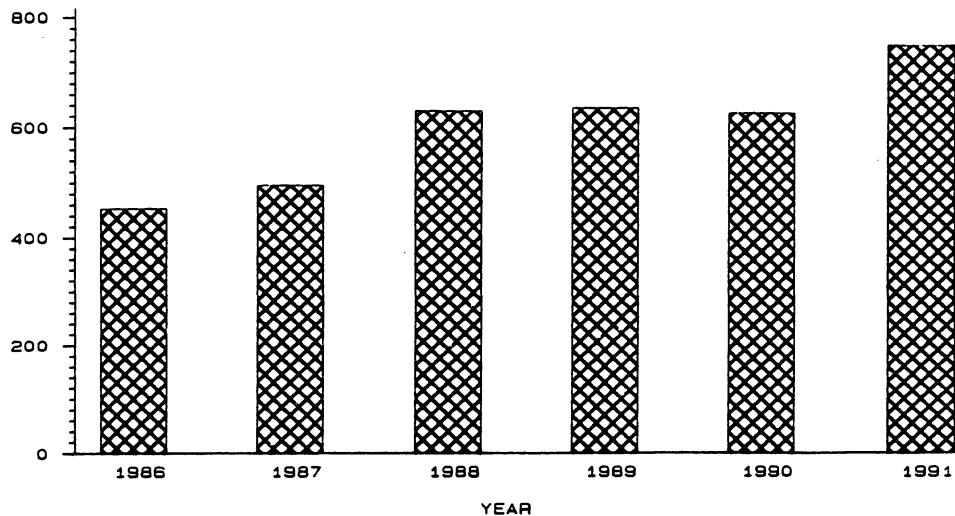


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED

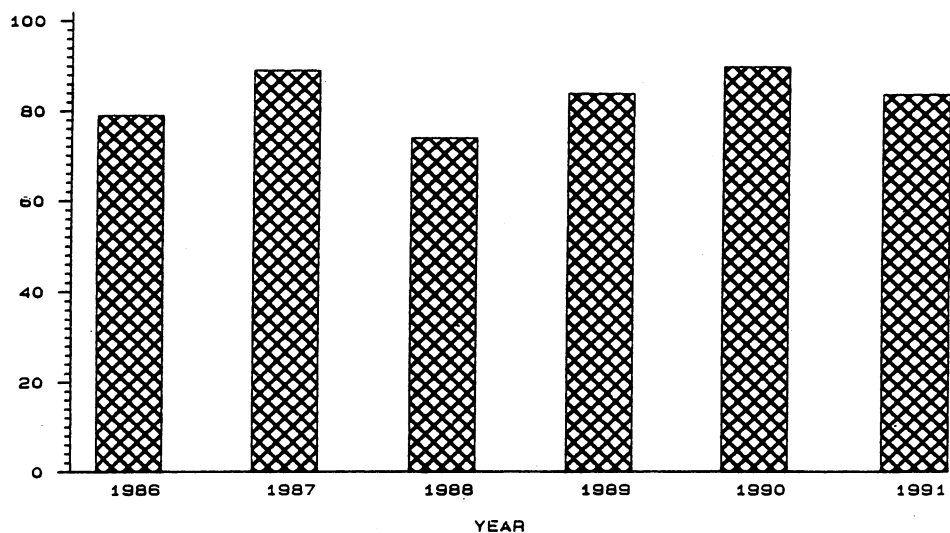


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIALS BY YEAR

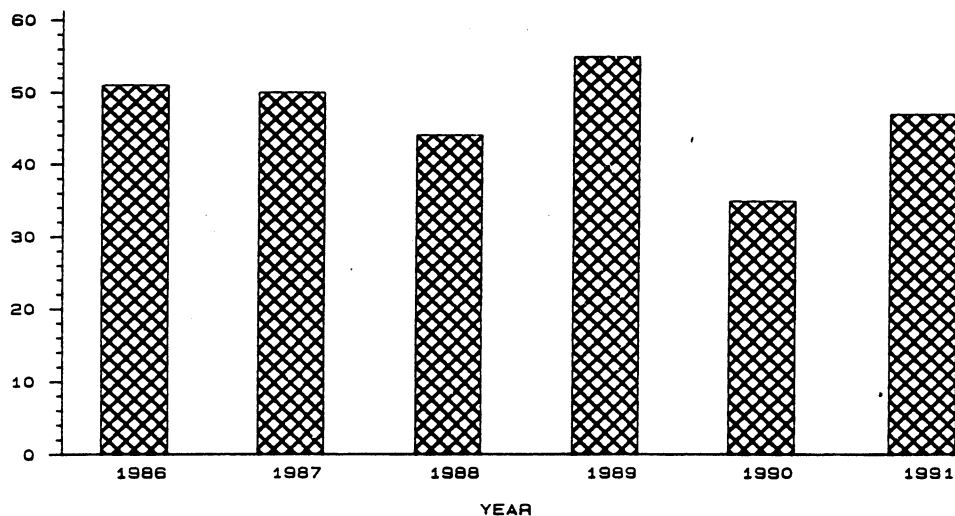


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS

TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

| Cause | Consists Carrying | Cars | | | | | People Evacuated | Damage To Equipment |
|---|----------------------|---------------|----------------------|---------------------|---------------------|-------|---------------------|------------------------|
| | | In Consist | Containing Hazmat | Damaged W/Hazmat | Releasing Hazmat | | | |
| TRACK, ROADBED AND STRUCTURES | | | | | | | | |
| Roadbed defects | 7 | 237 | 25 | 10 | 1 | --- | 1,586,588 | |
| Track geometry defects | 73 | 4,818 | 683 | 131 | 5 | 995 | 3,933,366 | |
| Rail and joint bar defects | 46 | 2,970 | 408 | 127 | 16 | 50 | 4,613,764 | |
| Frogs, switches and track appliances | 51 | 3,281 | 383 | 67 | 2 | 50 | 1,561,945 | |
| Other way and structure | 1 | 74 | 1 | 1 | --- | --- | 5,800 | |
| Signal and communication failures | 6 | 314 | 56 | 3 | --- | --- | 210,900 | |
| Subtotal..... | 184 | 11,694 | 1,556 | 339 | 24 | 1,095 | 11,912,363 | |
| MECHANICAL AND ELECTRICAL FAILURES | | | | | | | | |
| Brakes | 10 | 793 | 53 | 7 | 5 | 815 | 1,238,586 | |
| Trailer or container on flat car | 1 | 30 | 1 | --- | --- | --- | 14,500 | |
| Body | 5 | 344 | 12 | 2 | --- | --- | 422,276 | |
| Coupler and draft system | 20 | 1,804 | 146 | 10 | 1 | --- | 1,170,071 | |
| Truck components | 22 | 1,509 | 280 | 39 | 5 | 600 | 1,520,281 | |
| Axles and journal bearings | 20 | 1,508 | 203 | 50 | 19 | 525 | 4,307,221 | |
| Wheels | 15 | 1,214 | 136 | 16 | 4 | 212 | 3,213,277 | |
| Locomotives | 2 | 193 | 10 | --- | --- | --- | 90,800 | |
| Doors | 1 | 77 | 1 | 1 | --- | --- | 177,650 | |
| General mechanical and electrical failures | --- | --- | --- | --- | --- | --- | --- | |
| Subtotal..... | 96 | 7,472 | 842 | 125 | 34 | 2,152 | 12,154,662 | |
| TRAIN OPERATION - HUMAN FACTORS | | | | | | | | |
| Brakes, use of | 46 | 2,211 | 202 | 61 | 9 | 16 | 4,838,523 | |
| Employee physical condition | 2 | 135 | 4 | --- | --- | --- | 3,379,387 | |
| Flagging, fixed, hand and radio signals | 3 | 221 | 100 | 5 | 2 | 12 | 453,162 | |
| Other rules and instructions | 50 | 2,207 | 334 | 52 | 4 | 200 | 4,048,766 | |
| Speed | 12 | 813 | 66 | 13 | --- | --- | 326,353 | |
| Switches, use of | 18 | 1,145 | 125 | 13 | --- | 30 | 213,390 | |
| Miscellaneous | 41 | 2,966 | 364 | 43 | 4 | --- | 1,185,911 | |
| Subtotal..... | 172 | 9,698 | 1,195 | 187 | 19 | 258 | 14,445,492 | |
| MISCELLANEOUS FACTORS | | | | | | | | |
| Collision with highway user at crossing site | 19 | 1,424 | 102 | 6 | 1 | 230 | 1,669,776 | |
| Emergency brake application to avoid accident | 2 | 299 | 20 | 2 | --- | --- | 108,500 | |
| Vandalism | 15 | 888 | 75 | 11 | --- | 4 | 3,807,441 | |
| Interference with rr operation, not vandals | 2 | 137 | 11 | 3 | --- | 2,300 | 639,686 | |
| Load shifted | 5 | 402 | 13 | 3 | --- | 100 | 416,138 | |
| Load fell from car | 1 | 55 | 21 | 5 | 1 | --- | 176,700 | |
| Overloaded car | 1 | 30 | 1 | 1 | --- | --- | 11,680 | |
| Improperly loaded car | 3 | 130 | 40 | 1 | --- | --- | 137,700 | |
| Oversized load, misrouted | --- | --- | --- | --- | --- | --- | --- | |
| Object on or fouling track | 6 | 415 | 25 | 1 | 1 | --- | 635,500 | |
| Equipment on or fouling track | --- | --- | --- | --- | --- | --- | --- | |
| Trail/container tiedown eqp impr applied | --- | --- | --- | --- | --- | --- | --- | |
| Overload/improper loaded container etc. | --- | --- | --- | --- | --- | --- | --- | |
| Interaction of lateral/vertical forces | 20 | 1,325 | 204 | 40 | 3 | --- | 1,408,450 | |
| Failure to control car spd with hand brk | --- | --- | --- | --- | --- | --- | --- | |
| Snow, ice, or mud on track | 1 | 9 | 1 | --- | --- | --- | 8,122 | |
| Other acts of God | 2 | 128 | 5 | 1 | --- | --- | 1,022,920 | |
| Fire, not due to vandalism | --- | --- | --- | --- | --- | --- | --- | |
| Hump retarder failed to slow car | 7 | 116 | 7 | 6 | --- | --- | 135,100 | |
| Switch fouled by lading chains, etc. | --- | --- | --- | --- | --- | --- | --- | |
| Other causes | 9 | 806 | 47 | 20 | 1 | 320 | 642,063 | |
| Subtotal..... | 93 | 6,164 | 572 | 100 | 7 | 2,954 | 10,819,776 | |
| GRAND TOTAL..... | 545 | 35,028 | 4,165 | 751 | 84 | 6,459 | 49,332,293 | |

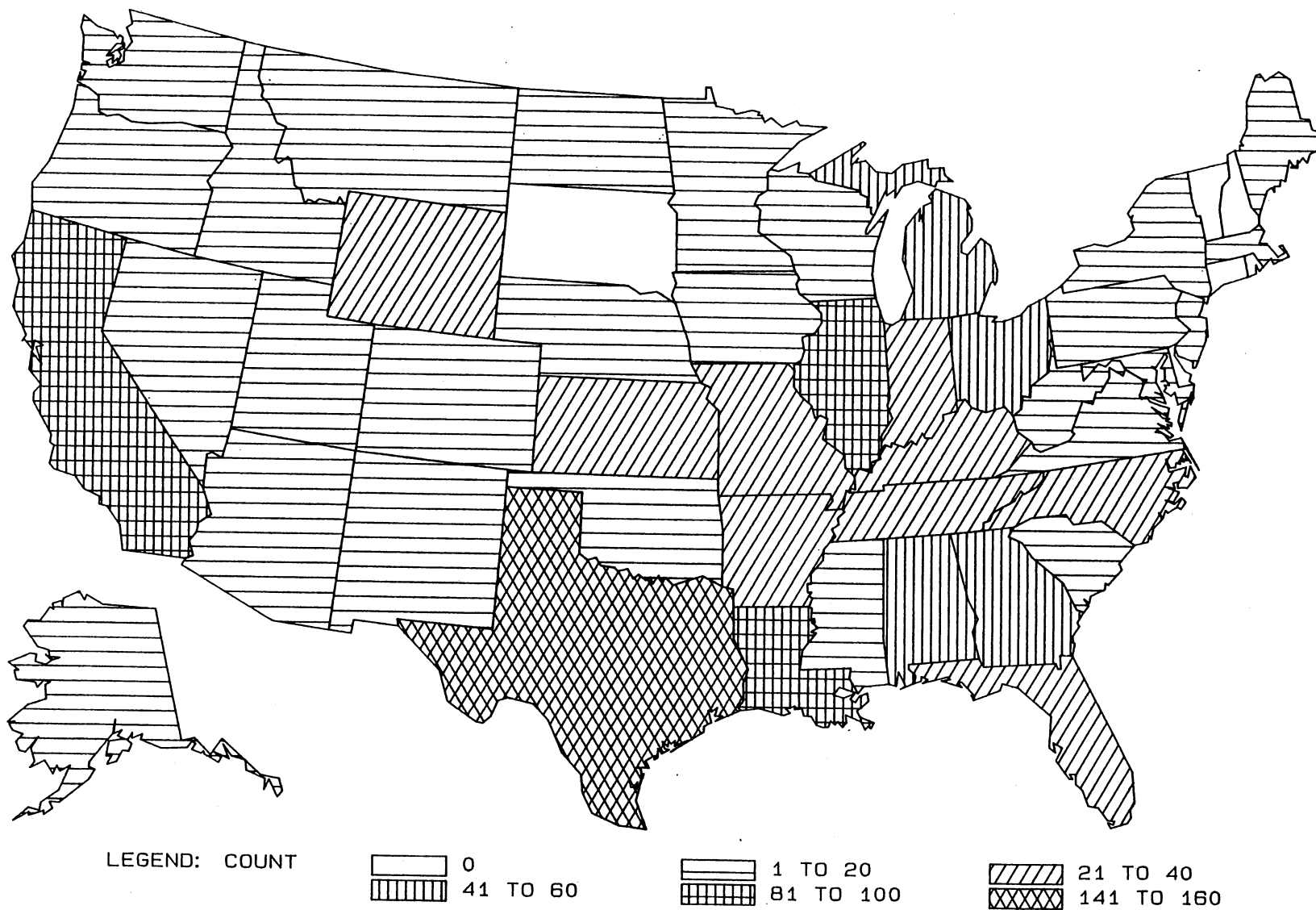
TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

| State | Consists Carrying | In Consist | Containing Hazmat | Cars Damaged W/Hazmat | Releasing Hazmat | People Evacuated | Damage To Equipment |
|-------------------|----------------------|---------------|----------------------|-----------------------------|---------------------|---------------------|------------------------|
| Alabama..... | 6 | 298 | 34 | 3 | 1 | 20 | 131,362 |
| Alaska..... | --- | --- | --- | --- | --- | --- | --- |
| Arizona..... | 9 | 503 | 37 | 6 | --- | 500 | 146,280 |
| Arkansas..... | 17 | 1,261 | 111 | 24 | --- | --- | 1,269,628 |
| California..... | 27 | 1,473 | 106 | 37 | 3 | 300 | 3,191,138 |
| Colorado..... | 3 | 216 | 28 | --- | --- | --- | 1,020,940 |
| Connecticut..... | --- | --- | --- | --- | --- | --- | --- |
| Delaware..... | --- | --- | --- | --- | --- | --- | --- |
| Dist of Columbia. | --- | --- | --- | --- | --- | --- | --- |
| Florida..... | 7 | 574 | 76 | 8 | 3 | 50 | 1,101,962 |
| Georgia..... | 5 | 305 | 17 | 4 | --- | --- | 50,855 |
| Idaho..... | 7 | 411 | 39 | 16 | 2 | --- | 753,260 |
| Illinois..... | 36 | 2,196 | 279 | 50 | 3 | 50 | 1,537,145 |
| Indiana..... | 18 | 1,196 | 186 | 24 | 6 | 882 | 1,798,016 |
| Iowa..... | 11 | 894 | 59 | 6 | --- | 100 | 1,234,770 |
| Kansas..... | 10 | 372 | 20 | 13 | --- | --- | 245,260 |
| Kentucky..... | 10 | 841 | 124 | 23 | 2 | 2,650 | 1,337,270 |
| Louisiana..... | 38 | 2,179 | 605 | 68 | 1 | --- | 1,000,410 |
| Maine..... | 5 | 167 | 36 | 8 | --- | --- | 203,000 |
| Maryland..... | 5 | 367 | 33 | 11 | --- | --- | 61,295 |
| Massachusetts.... | 1 | 75 | 1 | --- | --- | --- | 69,131 |
| Michigan..... | 5 | 206 | 12 | 6 | --- | --- | 240,122 |
| Minnesota..... | 15 | 1,177 | 149 | 16 | --- | 400 | 1,191,069 |
| Mississippi..... | 9 | 828 | 41 | 8 | --- | --- | 469,770 |
| Missouri..... | 21 | 1,496 | 115 | 28 | 12 | 665 | 3,402,090 |
| Montana..... | 15 | 1,019 | 60 | 10 | 1 | --- | 2,011,575 |
| Nebraska..... | 8 | 774 | 93 | 7 | 2 | --- | 515,800 |
| Nevada..... | 3 | 167 | 32 | 12 | --- | --- | 121,000 |
| New Hampshire.... | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | 2 | 43 | 41 | 8 | --- | --- | 30,000 |
| New Mexico..... | 12 | 821 | 66 | 12 | --- | --- | 344,230 |
| New York..... | 12 | 660 | 102 | 20 | --- | --- | 208,572 |
| North Carolina... | 14 | 966 | 121 | 17 | --- | --- | 1,326,240 |
| North Dakota..... | 6 | 417 | 63 | 3 | --- | --- | 856,720 |
| Ohio..... | 15 | 1,293 | 186 | 30 | 1 | 230 | 946,632 |
| Oklahoma..... | 12 | 684 | 63 | 29 | 3 | 137 | 1,078,612 |
| Oregon..... | 19 | 1,058 | 50 | 16 | 3 | --- | 5,336,550 |
| Pennsylvania..... | 15 | 807 | 170 | 37 | 6 | 100 | 387,044 |
| Rhode Island..... | --- | --- | --- | --- | --- | --- | --- |
| South Carolina... | 2 | 74 | 4 | 1 | --- | --- | 932,871 |
| South Dakota..... | 1 | 66 | 1 | 1 | 1 | --- | 47,500 |
| Tennessee..... | 26 | 1,896 | 188 | 19 | 2 | 25 | 873,063 |
| Texas..... | 67 | 4,124 | 547 | 119 | 28 | 46 | 7,194,427 |
| Utah..... | 5 | 180 | 24 | 4 | --- | --- | 74,744 |
| Vermont..... | --- | --- | --- | --- | --- | --- | --- |
| Virginia..... | 6 | 446 | 27 | 3 | 2 | --- | 192,750 |
| Washington..... | 14 | 709 | 104 | 16 | 1 | 304 | 4,166,418 |
| West Virginia.... | 3 | 191 | 25 | 9 | --- | --- | 75,800 |
| Wisconsin..... | 10 | 681 | 32 | 6 | --- | --- | 189,322 |
| Wyoming..... | 13 | 917 | 58 | 13 | 1 | --- | 1,967,650 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 545 | 35,028 | 4,165 | 751 | 84 | 6,459 | 49,332,293 |

TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

| Railroad | TOTAL | <<<.....C A R S.....>>> | | | | | People Evacuated | Damage to Equipment |
|--|--------------------|-------------------------|----------------------|---------------------|---------------------|-------|---------------------|------------------------|
| | HAZMAT CONSISTS | In Consists | Containing Hazmat | Damaged w/Hazmat | Releasing Hazmat | | | |
| CLASS I RAILROADS | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Atchison, Topeka and Santa Fe Railway | 39 | 2,259 | 187 | 54 | 13 | 0 | 2,426,625 | |
| Burlington Northern Railroad Company | 62 | 3,795 | 435 | 86 | 22 | 444 | 11,508,740 | |
| Chicago and North Western Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Consolidated Rail Corporation | 32 | 2,347 | 309 | 71 | 6 | 30 | 1,160,949 | |
| CSX Transportation | 51 | 3,964 | 461 | 75 | 9 | 3,590 | 5,225,272 | |
| Delaware and Hudson Railway Company | 4 | 153 | 31 | 5 | 0 | 0 | 140,642 | |
| Denver and Rio Grande Western RR | 2 | 101 | 5 | 1 | 0 | 0 | 1,018,920 | |
| Florida East Coast Railway Company | 1 | 76 | 3 | 0 | 0 | 50 | 32,500 | |
| Grand Trunk Western Railroad Company | 2 | 108 | 7 | 4 | 0 | 0 | 68,500 | |
| Illinois Central Railroad Company | 37 | 2,989 | 444 | 69 | 3 | 50 | 2,265,712 | |
| Kansas City Southern Railway Company | 2 | 55 | 9 | 9 | 0 | 0 | 199,700 | |
| Louisiana & Arkansas Railway Company | 2 | 179 | 13 | 5 | 0 | 0 | 66,080 | |
| Norfolk Southern Corporation | 18 | 1,231 | 205 | 17 | 3 | 162 | 867,957 | |
| Soo Line Railroad Company | 33 | 2,560 | 261 | 25 | 0 | 500 | 2,516,321 | |
| Southern Pacific Transportation Co. | 51 | 2,630 | 190 | 86 | 10 | 830 | 8,692,889 | |
| St. Louis Southwestern Railway Co. | 5 | 353 | 36 | 8 | 1 | 16 | 212,050 | |
| Springfield Terminal Railway Company | 6 | 242 | 37 | 8 | 0 | 0 | 272,131 | |
| Union Pacific Railroad Company | 102 | 6,905 | 1,002 | 140 | 9 | 662 | 7,298,045 | |
| Total Class I Railroads..... | 449 | 29,947 | 3,635 | 663 | 76 | 6,334 | 43,973,033 | |
| GROUP II RAILROADS ** | | | | | | | | |
| Alton & Southern Railroad | 2 | 124 | 17 | 1 | 0 | 0 | 32,350 | |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Belt Railway Company Of Chicago | 2 | 40 | 2 | 1 | 0 | 0 | 70,100 | |
| Birmingham Southern Railroad Company | 1 | 37 | 6 | 1 | 0 | 0 | 58,062 | |
| Chicago, Central & Pacific RR Co. | 2 | 145 | 4 | 2 | 0 | 0 | 30,479 | |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 1 | 66 | 1 | 1 | 1 | 0 | 47,500 | |
| Duluth, Missabe and Iron Range Ry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 2 | 88 | 15 | 2 | 0 | 0 | 6,500 | |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gateway Western Railway | 4 | 204 | 22 | 7 | 1 | 0 | 245,680 | |
| Houston Belt & Terminal Railway Co. | 4 | 150 | 37 | 4 | 0 | 0 | 46,300 | |
| Indiana Harbor Belt Railroad Company | 4 | 323 | 14 | 3 | 0 | 0 | 87,023 | |
| Long Island Rail Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Monongahela Railway Company | 1 | 112 | 3 | 0 | 0 | 0 | 14,500 | |
| Metro North Commuter Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana Rail Link | 11 | 768 | 33 | 2 | 0 | 0 | 1,580,875 | |
| Midsouth Rail Corporation | 6 | 691 | 30 | 1 | 0 | 0 | 123,834 | |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey Transit Rail Operations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paducah & Louisville Railway Company | 1 | 40 | 23 | 3 | 0 | 0 | 31,050 | |
| Port Authority Trans Hudson | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Port Terminal Railroad Association | 7 | 310 | 31 | 3 | 1 | 0 | 104,224 | |
| Richmond, Fredericksburg and Potomac | 1 | 77 | 2 | 2 | 2 | 0 | 85,400 | |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern Pacific, Chicago-St. Louis | 1 | 42 | 3 | 2 | 1 | 0 | 19,000 | |
| Texas Mexican Railway Company | 3 | 200 | 4 | 0 | 0 | 0 | 332,150 | |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Railroad Company (Pittsburgh) | 1 | 28 | 27 | 1 | 0 | 0 | 500 | |
| Wisconsin Central Ltd. (also Railway) | 9 | 430 | 18 | 1 | 0 | 0 | 131,550 | |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GROUP II RAILROADS..... | 63 | 3,875 | 292 | 37 | 6 | 0 | 3,047,077 | |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | |
| Class I Railroads | 449 | 29,947 | 3,635 | 663 | 76 | 6,334 | 43,973,033 | |
| Group II Railroads ** | 63 | 3,875 | 292 | 37 | 6 | 0 | 3,047,077 | |
| All Other Railroads | 33 | 1,206 | 238 | 51 | 2 | 125 | 2,312,183 | |
| Total All Railroads | 545 | 35,028 | 4,165 | 751 | 84 | 6,459 | 49,332,293 | |

** GROUP II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

**Note:**

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

**FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES,
MATERIALS TRANSPORTATION BUREAU**

5. ACCIDENTS AND CASUALTIES BY STATE

TABLE 30. TRAIN ACCIDENTS BY STATE AND TYPE


| State |Collisions.... | | ...Derailments.... | |Other..... | | ..Rail-Hwy X-ing.. | |Total..... | |
|-----------------------|--------------------|-------------------|--------------------|--------------------|-----------------|-------------------|--------------------|-------------------|-----------------|--------------------|
| | Number | Damage | Number | Damage | Number | Damage | Number | Damage | Number | Damage |
| Alabama..... | 5 | 95,776 | 23 | 727,600 | 4 | 84,225 | 6 | 142,431 | 38 | 1,050,032 |
| Alaska..... | --- | --- | 3 | 186,188 | --- | --- | --- | --- | 3 | 186,188 |
| Arizona..... | --- | --- | 26 | 880,028 | 4 | 234,221 | --- | --- | 30 | 1,114,249 |
| Arkansas..... | 5 | 76,860 | 58 | 4,933,764 | 9 | 138,009 | 10 | 2,207,950 | 82 | 7,356,583 |
| California..... | 10 | 825,702 | 119 | 8,293,088 | 24 | 648,335 | 10 | 237,406 | 163 | 10,004,531 |
| Colorado..... | 1 | 581,375 | 11 | 576,698 | 5 | 1,390,302 | 3 | 42,690 | 20 | 2,591,065 |
| Connecticut..... | 3 | 137,947 | 7 | 267,730 | 8 | 578,180 | 1 | 9,091 | 19 | 992,948 |
| Delaware..... | 1 | 61,046 | --- | --- | --- | --- | --- | --- | 1 | 61,046 |
| Dist of Columbia..... | --- | --- | 3 | 137,879 | 2 | 39,354 | --- | --- | 5 | 177,233 |
| Florida..... | 3 | 859,750 | 38 | 4,519,201 | 7 | 196,920 | 5 | 119,325 | 53 | 5,695,196 |
| Georgia..... | 9 | 1,031,853 | 27 | 1,268,190 | 8 | 186,091 | 4 | 299,612 | 48 | 2,785,746 |
| Idaho..... | 1 | 24,500 | 29 | 3,521,457 | 5 | 61,050 | 1 | 15,000 | 36 | 3,622,007 |
| Illinois..... | 31 | 1,403,410 | 152 | 6,955,947 | 47 | 1,986,351 | 9 | 1,779,004 | 239 | 12,104,712 |
| Indiana..... | 7 | 1,129,212 | 45 | 2,625,524 | 6 | 80,443 | 8 | 944,113 | 66 | 4,779,292 |
| Iowa..... | 7 | 167,856 | 46 | 4,446,326 | 13 | 238,366 | 6 | 697,915 | 72 | 5,550,463 |
| Kansas..... | 6 | 2,136,142 | 59 | 6,136,831 | 13 | 250,785 | 3 | 34,242 | 81 | 8,558,000 |
| Kentucky..... | 3 | 136,000 | 19 | 3,498,920 | 2 | 19,850 | 4 | 752,894 | 28 | 4,407,664 |
| Louisiana..... | 8 | 219,037 | 56 | 2,056,749 | 7 | 226,460 | 3 | 36,162 | 74 | 2,538,408 |
| Maine..... | 3 | 120,300 | 14 | 532,304 | --- | --- | 3 | 96,897 | 20 | 749,501 |
| Maryland..... | 9 | 2,953,740 | 15 | 199,415 | 7 | 2,471,444 | 2 | 39,500 | 33 | 5,664,099 |
| Massachusetts..... | --- | --- | 11 | 433,837 | 2 | 49,000 | --- | --- | 13 | 482,837 |
| Michigan..... | 1 | 235,600 | 43 | 1,077,606 | 4 | 102,100 | 2 | 89,564 | 50 | 1,504,870 |
| Minnesota..... | 15 | 880,571 | 99 | 7,218,083 | 9 | 150,988 | 5 | 610,334 | 128 | 8,859,976 |
| Mississippi..... | 2 | 20,330 | 21 | 939,070 | 1 | 350,000 | 3 | 203,500 | 27 | 1,512,900 |
| Missouri..... | 6 | 682,396 | 71 | 7,633,826 | 16 | 408,616 | 6 | 223,200 | 99 | 8,948,038 |
| Montana..... | 5 | 7,983,930 | 40 | 5,706,171 | 8 | 289,387 | 2 | 723,249 | 55 | 14,702,737 |
| Nebraska..... | 5 | 160,293 | 35 | 6,319,506 | 34 | 991,329 | 5 | 96,085 | 79 | 7,567,213 |
| Nevada..... | --- | --- | 11 | 524,130 | 2 | 32,250 | --- | --- | 13 | 556,380 |
| New Hampshire..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | 4 | 83,150 | 16 | 596,529 | 34 | 1,125,556 | 1 | 10,019 | 55 | 1,815,254 |
| New Mexico..... | 3 | 292,725 | 22 | 981,429 | 3 | 75,000 | 1 | 50,000 | 29 | 1,399,154 |
| New York..... | 14 | 538,556 | 51 | 1,875,465 | 28 | 1,723,290 | 6 | 193,345 | 99 | 4,330,656 |
| North Carolina..... | 4 | 101,345 | 17 | 1,522,398 | 7 | 179,550 | 6 | 1,412,050 | 34 | 3,215,343 |
| North Dakota..... | 5 | 142,742 | 18 | 2,786,783 | 2 | 135,250 | --- | --- | 25 | 3,064,775 |
| Ohio..... | 4 | 526,500 | 59 | 3,746,709 | 5 | 63,476 | 9 | 1,096,747 | 77 | 5,433,432 |
| Oklahoma..... | 2 | 40,500 | 41 | 4,968,770 | 7 | 261,548 | 3 | 277,960 | 53 | 5,548,778 |
| Oregon..... | 2 | 3,559,587 | 48 | 8,065,346 | 13 | 268,155 | 1 | 22,600 | 64 | 11,915,688 |
| Pennsylvania..... | 8 | 434,209 | 74 | 4,819,498 | 7 | 144,050 | 4 | 75,886 | 93 | 5,473,643 |
| Rhode Island..... | --- | --- | --- | --- | 1 | 14,700 | --- | --- | 1 | 14,700 |
| South Carolina..... | 3 | 2,550,000 | 9 | 2,864,106 | --- | --- | 2 | 62,766 | 14 | 5,476,872 |
| South Dakota..... | --- | --- | 32 | 1,626,475 | 1 | 9,000 | --- | --- | 33 | 1,635,475 |
| Tennessee..... | 3 | 156,300 | 41 | 1,609,680 | 15 | 625,687 | 1 | 8,475 | 60 | 2,400,142 |
| Texas..... | 26 | 3,156,214 | 205 | 16,870,482 | 48 | 1,307,505 | 12 | 531,756 | 291 | 21,865,957 |
| Utah..... | 5 | 271,780 | 24 | 1,145,726 | 5 | 81,625 | --- | --- | 34 | 1,499,131 |
| Vermont..... | --- | --- | 2 | 97,614 | --- | --- | --- | --- | 2 | 97,614 |
| Virginia..... | 5 | 252,187 | 46 | 1,303,648 | 3 | 28,894 | 1 | 32,000 | 55 | 1,616,729 |
| Washington..... | 8 | 257,450 | 46 | 9,353,628 | 24 | 524,290 | 1 | 17,747 | 79 | 10,153,115 |
| West Virginia..... | 4 | 74,000 | 22 | 1,131,441 | 2 | 32,300 | 2 | 29,541 | 30 | 1,267,282 |
| Wisconsin..... | 11 | 202,465 | 55 | 3,425,666 | 5 | 82,116 | 5 | 54,064 | 76 | 3,764,311 |
| Wyoming..... | 4 | 3,358,336 | 27 | 2,702,496 | 4 | 764,198 | --- | --- | 35 | 6,825,030 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 261 | 37,921,672 | 1,936 | 153,089,957 | 461 | 18,650,246 | 156 | 13,275,120 | 2,814 | 222,936,995 |

TABLE 31. TRAIN ACCIDENTS BY STATE AND CAUSE

| State | Track | | Equipment | | Human Factors | | Miscellaneous | | Total | |
|--------------------|------------|-------------------|------------|-------------------|---------------|-------------------|---------------|-------------------|--------------|--------------------|
| | Number | Damage | Number | Damage | Number | Damage | Number | Damage | Number | Damage |
| Alabama..... | 11 | 381,619 | 6 | 143,526 | 11 | 239,025 | 10 | 285,862 | 38 | 1,050,032 |
| Alaska..... | 2 | 41,000 | 1 | 145,188 | --- | --- | --- | --- | 3 | 186,188 |
| Arizona..... | 11 | 235,783 | 9 | 280,665 | 6 | 353,301 | 4 | 244,500 | 30 | 1,114,249 |
| Arkansas..... | 28 | 1,003,364 | 12 | 1,230,935 | 19 | 1,569,563 | 23 | 3,552,721 | 82 | 7,356,583 |
| California..... | 50 | 3,145,382 | 20 | 2,801,061 | 54 | 2,733,048 | 39 | 1,325,040 | 163 | 10,004,531 |
| Colorado..... | 7 | 490,438 | 2 | 30,000 | 6 | 902,897 | 5 | 1,167,730 | 20 | 2,591,065 |
| Connecticut..... | 9 | 583,310 | 2 | 34,944 | 7 | 365,603 | 1 | 9,091 | 19 | 992,948 |
| Delaware..... | 1 | 61,046 | --- | --- | --- | --- | --- | --- | 1 | 61,046 |
| Dist of Columbia.. | 2 | 67,977 | 1 | 14,300 | 1 | 81,602 | 1 | 13,354 | 5 | 177,233 |
| Florida..... | 19 | 864,998 | 7 | 929,546 | 17 | 2,534,767 | 10 | 1,365,885 | 53 | 5,695,196 |
| Georgia..... | 13 | 800,472 | 10 | 166,843 | 15 | 1,365,737 | 10 | 452,694 | 48 | 2,785,746 |
| Idaho..... | 10 | 2,083,105 | 5 | 366,509 | 13 | 559,521 | 8 | 612,872 | 36 | 3,622,007 |
| Illinois..... | 85 | 3,459,938 | 22 | 2,692,647 | 87 | 2,757,517 | 45 | 3,194,610 | 239 | 12,104,712 |
| Indiana..... | 18 | 1,887,478 | 6 | 109,600 | 22 | 1,462,261 | 20 | 1,319,953 | 66 | 4,779,292 |
| Iowa..... | 22 | 1,661,719 | 10 | 1,573,797 | 28 | 1,077,862 | 12 | 1,237,085 | 72 | 5,550,463 |
| Kansas..... | 20 | 2,774,827 | 18 | 2,176,891 | 32 | 2,923,554 | 11 | 682,728 | 81 | 8,558,000 |
| Kentucky..... | 9 | 676,000 | 6 | 550,100 | 5 | 177,550 | 8 | 3,004,014 | 28 | 4,407,664 |
| Louisiana..... | 33 | 1,184,074 | 5 | 289,149 | 27 | 870,821 | 9 | 194,364 | 74 | 2,538,408 |
| Maine..... | 4 | 187,800 | 3 | 170,509 | 5 | 156,471 | 8 | 234,721 | 20 | 749,501 |
| Maryland..... | 10 | 162,814 | 10 | 2,485,908 | 6 | 2,841,928 | 7 | 173,449 | 33 | 5,664,099 |
| Massachusetts..... | 4 | 263,324 | 2 | 11,164 | 4 | 102,303 | 3 | 106,046 | 13 | 482,837 |
| Michigan..... | 13 | 234,857 | 10 | 616,800 | 13 | 129,849 | 14 | 523,364 | 50 | 1,504,870 |
| Minnesota..... | 65 | 5,606,630 | 9 | 489,697 | 32 | 1,189,291 | 22 | 1,574,358 | 128 | 8,859,976 |
| Mississippi..... | 13 | 525,380 | 3 | 91,830 | 4 | 262,830 | 7 | 632,860 | 27 | 1,512,900 |
| Missouri..... | 26 | 2,013,229 | 15 | 3,952,644 | 30 | 1,677,924 | 28 | 1,304,241 | 99 | 8,948,038 |
| Montana..... | 15 | 2,598,681 | 14 | 2,412,170 | 17 | 8,330,767 | 9 | 1,361,119 | 55 | 14,702,737 |
| Nebraska..... | 23 | 3,092,574 | 16 | 2,920,542 | 26 | 1,290,486 | 14 | 263,611 | 79 | 7,567,213 |
| Nevada..... | 3 | 123,440 | 2 | 270,949 | 5 | 90,348 | 3 | 71,643 | 13 | 556,380 |
| New Hampshire..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | 15 | 424,522 | 27 | 503,141 | 6 | 382,986 | 7 | 504,605 | 55 | 1,815,254 |
| New Mexico..... | 13 | 754,571 | 5 | 169,133 | 6 | 359,175 | 5 | 116,275 | 29 | 1,399,154 |
| New York..... | 29 | 631,272 | 16 | 1,746,871 | 34 | 1,212,545 | 20 | 739,968 | 99 | 4,330,656 |
| North Carolina.... | 9 | 461,386 | 5 | 787,210 | 10 | 450,797 | 10 | 1,515,950 | 34 | 3,215,343 |
| North Dakota..... | 10 | 1,111,331 | 5 | 972,294 | 7 | 280,432 | 3 | 700,718 | 25 | 3,064,775 |
| Ohio..... | 30 | 1,204,469 | 7 | 1,930,677 | 19 | 510,891 | 21 | 1,787,395 | 77 | 5,433,432 |
| Oklahoma..... | 23 | 1,201,677 | 8 | 1,642,863 | 13 | 1,140,204 | 9 | 1,564,034 | 53 | 5,548,778 |
| Oregon..... | 16 | 968,151 | 9 | 3,677,479 | 25 | 6,713,705 | 14 | 556,353 | 64 | 11,915,688 |
| Pennsylvania..... | 33 | 1,226,533 | 16 | 1,318,368 | 27 | 2,437,678 | 17 | 491,064 | 93 | 5,473,643 |
| Rhode Island..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| South Carolina.... | 4 | 58,550 | 1 | 10,600 | 4 | 2,747,621 | 1 | 14,700 | 1 | 14,700 |
| South Dakota..... | 27 | 1,527,577 | 2 | 49,150 | 4 | 58,748 | 5 | 2,660,101 | 14 | 5,476,872 |
| Tennessee..... | 25 | 1,185,488 | 8 | 232,021 | 19 | 790,250 | 8 | 192,463 | 33 | 1,635,475 |
| Texas..... | 111 | 6,988,370 | 31 | 3,394,712 | 113 | 10,275,662 | 36 | 1,207,213 | 291 | 21,865,957 |
| Utah..... | 7 | 168,813 | 5 | 659,795 | 19 | 606,298 | 3 | 65,025 | 34 | 1,499,131 |
| Vermont..... | 2 | 97,614 | --- | --- | --- | --- | --- | --- | 2 | 97,614 |
| Virginia..... | 18 | 562,532 | 9 | 454,542 | 19 | 474,668 | 9 | 124,987 | 55 | 1,616,729 |
| Washington..... | 20 | 1,978,293 | 13 | 3,064,164 | 31 | 867,080 | 15 | 4,243,578 | 79 | 10,153,115 |
| West Virginia..... | 11 | 559,135 | 6 | 238,782 | 7 | 248,124 | 6 | 221,241 | 30 | 1,267,282 |
| Wisconsin..... | 29 | 1,420,642 | 10 | 162,324 | 19 | 378,614 | 18 | 1,802,731 | 76 | 3,764,311 |
| Wyoming..... | 10 | 1,214,834 | 6 | 164,028 | 13 | 4,831,546 | 6 | 614,598 | 35 | 6,825,030 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 968 | 59,954,163 | 415 | 48,136,068 | 887 | 70,813,850 | 544 | 44,030,914 | 2,814 | 222,936,995 |

100 - 149

200 - 249



150 - 199

250 - 299

FIGURE 25. TRAIN ACCIDENTS BY STATE

TABLE 32. TRAIN ACCIDENTS BY STATE AND MONTH

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Alabama..... | 3 | 3 | 4 | 3 | 1 | 5 | 2 | 2 | 4 | 5 | 4 | 2 | 38 |
| Alaska..... | --- | --- | --- | 2 | --- | --- | --- | --- | --- | --- | --- | 1 | 3 |
| Arizona..... | 1 | 2 | 4 | 2 | 1 | 3 | 2 | 5 | 1 | 1 | 5 | 3 | 30 |
| Arkansas..... | 6 | 4 | 9 | 17 | 7 | 7 | 2 | 6 | 9 | 5 | 7 | 3 | 82 |
| California..... | 7 | 9 | 23 | 10 | 18 | 19 | 14 | 16 | 16 | 17 | 9 | 5 | 163 |
| Colorado..... | 3 | 2 | 1 | --- | 1 | 1 | 1 | --- | 5 | 2 | 1 | 3 | 20 |
| Connecticut..... | 3 | --- | 1 | 1 | 2 | 2 | 3 | 2 | --- | 2 | 2 | 1 | 19 |
| Delaware..... | --- | --- | --- | --- | --- | --- | --- | 1 | --- | --- | --- | --- | 1 |
| Dist of Columbia. | 1 | --- | --- | 1 | --- | 1 | --- | --- | 1 | --- | --- | 1 | 5 |
| Florida..... | 7 | 3 | 1 | 3 | 5 | 3 | 3 | 4 | 1 | 10 | 2 | 11 | 53 |
| Georgia..... | 7 | 3 | 2 | 4 | 3 | 3 | 4 | 2 | 3 | 2 | 4 | 11 | 48 |
| Idaho..... | 2 | 1 | 6 | 2 | 2 | 5 | 3 | 3 | 3 | 1 | 6 | 2 | 36 |
| Illinois..... | 14 | 20 | 28 | 21 | 23 | 16 | 17 | 20 | 14 | 15 | 23 | 28 | 239 |
| Indiana..... | 7 | 3 | 3 | 5 | 1 | 7 | 5 | 8 | 6 | 12 | 6 | 3 | 66 |
| Iowa..... | 3 | 3 | 6 | 7 | 8 | 8 | 12 | 3 | 4 | 9 | 6 | 3 | 72 |
| Kansas..... | 8 | 6 | 6 | 4 | 6 | 9 | 7 | 8 | 10 | 3 | 7 | 7 | 81 |
| Kentucky..... | 1 | 3 | 6 | 3 | --- | 4 | --- | 2 | 3 | 2 | 3 | 1 | 28 |
| Louisiana..... | 1 | 4 | 8 | 4 | 9 | 14 | 3 | 10 | 8 | 5 | 5 | 3 | 74 |
| Maine..... | 2 | 1 | 1 | --- | 2 | 4 | 1 | 1 | 2 | 3 | 2 | 1 | 20 |
| Maryland..... | 5 | 1 | --- | 2 | 3 | 3 | 7 | 2 | 3 | 3 | 4 | --- | 33 |
| Massachusetts..... | --- | --- | 1 | --- | 1 | 5 | 2 | 1 | --- | 2 | 1 | --- | 13 |
| Michigan..... | 1 | 3 | 6 | 7 | 7 | 3 | 2 | 8 | 1 | 5 | 4 | 3 | 50 |
| Minnesota..... | 9 | 3 | 9 | 8 | 11 | 2 | 14 | 19 | 13 | 13 | 14 | 13 | 128 |
| Mississippi..... | 3 | 5 | 1 | --- | 1 | 4 | 4 | 2 | 1 | 1 | 1 | 4 | 27 |
| Missouri..... | 12 | 13 | 12 | 8 | 3 | 10 | 7 | 7 | 7 | 5 | 5 | 10 | 99 |
| Montana..... | 6 | 6 | 5 | 6 | 6 | 5 | 4 | 4 | 1 | 4 | 5 | 3 | 55 |
| Nebraska..... | 4 | 5 | 10 | 5 | 11 | 9 | 9 | 5 | 4 | 11 | 2 | 4 | 79 |
| Nevada..... | 1 | --- | 1 | --- | 2 | --- | --- | --- | 3 | 2 | 3 | 1 | 13 |
| New Hampshire..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | 5 | 6 | --- | 5 | 7 | 4 | 10 | --- | 5 | 7 | 4 | 2 | 55 |
| New Mexico..... | 3 | --- | --- | 5 | 3 | 3 | 2 | 5 | 3 | 3 | 1 | 1 | 29 |
| New York..... | 7 | 7 | 10 | 5 | 8 | 14 | 6 | 18 | 4 | 3 | 7 | 10 | 99 |
| North Carolina... | 3 | 3 | 3 | 2 | 3 | 5 | 1 | 3 | 5 | 2 | 2 | 2 | 34 |
| North Dakota..... | 3 | 3 | 2 | 2 | 2 | --- | 3 | --- | --- | 2 | 2 | 6 | 25 |
| Ohio..... | 6 | 8 | 4 | 9 | 5 | 5 | 8 | 8 | 3 | 7 | 7 | 7 | 77 |
| Oklahoma..... | 7 | 3 | 4 | 6 | 3 | 6 | 6 | 6 | 3 | 5 | 2 | 2 | 53 |
| Oregon..... | 10 | 2 | 4 | 7 | 6 | 4 | 3 | 5 | 8 | 4 | 7 | 4 | 64 |
| Pennsylvania..... | 8 | 4 | 9 | 4 | 5 | 8 | 18 | 12 | 2 | 8 | 6 | 9 | 93 |
| Rhode Island..... | --- | --- | --- | --- | --- | --- | 1 | --- | --- | --- | --- | --- | 1 |
| South Carolina... | 2 | --- | --- | 1 | 1 | 3 | 2 | 1 | --- | --- | 2 | 2 | 14 |
| South Dakota..... | 1 | --- | 1 | 2 | 1 | 6 | 8 | 4 | 1 | 3 | 4 | 2 | 33 |
| Tennessee..... | 6 | 4 | 6 | 2 | 3 | 8 | 4 | 10 | 7 | 5 | 4 | 1 | 60 |
| Texas..... | 24 | 23 | 27 | 26 | 23 | 27 | 33 | 24 | 17 | 22 | 20 | 25 | 291 |
| Utah..... | 5 | 1 | 2 | --- | 4 | 2 | 5 | 6 | 3 | 3 | 1 | 2 | 34 |
| Vermont..... | --- | --- | --- | --- | --- | --- | --- | 1 | --- | 1 | --- | --- | 2 |
| Virginia..... | 1 | 4 | 4 | 6 | 5 | 6 | 8 | 5 | 2 | 7 | 4 | 3 | 55 |
| Washington..... | 7 | 6 | 7 | 9 | 6 | 6 | 7 | 4 | 3 | 7 | 6 | 11 | 79 |
| West Virginia.... | 5 | 2 | 4 | 3 | 2 | 1 | 1 | 3 | 1 | 3 | 1 | 4 | 30 |
| Wisconsin..... | 6 | 6 | 4 | 7 | 11 | 5 | 6 | 10 | 2 | 2 | 6 | 11 | 76 |
| Wyoming..... | 5 | 5 | 1 | 3 | 2 | 2 | 6 | 1 | 2 | --- | 5 | 3 | 35 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 231 | 190 | 246 | 229 | 234 | 267 | 266 | 267 | 194 | 234 | 222 | 234 | 2,814 |

TABLE 33. CASUALTIES BY STATE AND CLASS OF ACCIDENT/INCIDENT

| State |Train Accidents..... | | |Train Incidents..... | | | ...Nontrain Incidents... | | |Total..... | | |
|-----------------------|---------------------------|---------|---------|---------------------------|---------|---------|--------------------------|---------|---------|-----------------|---------|---------|
| | Killed | Injured | Illness | Killed | Injured | Illness | Killed | Injured | Illness | Killed | Injured | Illness |
| Alabama..... | 3 | 2 | --- | 30 | 103 | --- | --- | 182 | 1 | 33 | 287 | 1 |
| Alaska..... | --- | --- | --- | 3 | 11 | --- | --- | 68 | 1 | 3 | 79 | 1 |
| Arizona..... | --- | 1 | --- | 13 | 51 | 1 | --- | 114 | --- | 13 | 166 | 1 |
| Arkansas..... | 2 | 12 | --- | 26 | 101 | --- | --- | 326 | 9 | 28 | 439 | 9 |
| California..... | 1 | 68 | 9 | 107 | 379 | 5 | 1 | 880 | 39 | 109 | 1,327 | 53 |
| Colorado..... | 3 | 6 | --- | 7 | 84 | --- | 2 | 291 | 3 | 12 | 381 | 3 |
| Connecticut..... | --- | 1 | 1 | 4 | 19 | 4 | --- | 154 | 3 | 4 | 174 | 8 |
| Delaware..... | --- | --- | --- | 2 | 10 | --- | --- | 77 | 1 | 2 | 87 | 1 |
| Dist of Columbia..... | --- | --- | --- | 3 | 11 | --- | --- | 90 | --- | 3 | 101 | --- |
| Florida..... | 1 | 20 | --- | 46 | 114 | 1 | 2 | 182 | 2 | 49 | 316 | 3 |
| Georgia..... | --- | 10 | --- | 53 | 122 | 1 | 3 | 260 | --- | 56 | 392 | 1 |
| Idaho..... | --- | 1 | --- | 10 | 70 | 4 | --- | 157 | 8 | 10 | 228 | 12 |
| Illinois..... | 3 | 43 | --- | 88 | 341 | 6 | 4 | 1,350 | 14 | 95 | 1,734 | 20 |
| Indiana..... | 2 | 15 | --- | 46 | 163 | 2 | --- | 451 | 3 | 48 | 629 | 5 |
| Iowa..... | 1 | 8 | --- | 10 | 124 | 2 | 2 | 491 | 38 | 13 | 623 | 40 |
| Kansas..... | 1 | 7 | --- | 10 | 118 | 1 | 2 | 388 | 16 | 13 | 513 | 17 |
| Kentucky..... | 2 | 2 | --- | 13 | 60 | 1 | --- | 277 | 5 | 15 | 339 | 6 |
| Louisiana..... | --- | 5 | --- | 16 | 229 | 4 | 1 | 209 | 4 | 17 | 443 | 8 |
| Maine..... | 1 | 3 | --- | 1 | 7 | --- | --- | 75 | 1 | 2 | 85 | 1 |
| Maryland..... | --- | 9 | --- | 2 | 27 | --- | --- | 145 | 4 | 2 | 181 | 4 |
| Massachusetts..... | --- | 2 | --- | 7 | 43 | --- | --- | 223 | 2 | 7 | 268 | 2 |
| Michigan..... | --- | 5 | --- | 29 | 139 | --- | --- | 386 | 5 | 29 | 530 | 5 |
| Minnesota..... | 1 | 6 | --- | 18 | 135 | --- | --- | 551 | 23 | 19 | 692 | 23 |
| Mississippi..... | --- | 2 | --- | 30 | 103 | --- | --- | 81 | 1 | 30 | 186 | 1 |
| Missouri..... | 2 | 8 | --- | 27 | 140 | 2 | 1 | 518 | 55 | 30 | 666 | 57 |
| Montana..... | 3 | 15 | --- | 3 | 61 | 3 | --- | 282 | 18 | 6 | 358 | 21 |
| Nebraska..... | 1 | 8 | --- | 25 | 125 | --- | 3 | 786 | 104 | 29 | 919 | 104 |
| Nevada..... | --- | 1 | --- | 1 | 26 | --- | 2 | 52 | --- | 3 | 79 | --- |
| New Hampshire..... | --- | --- | --- | --- | --- | --- | --- | 5 | --- | --- | 5 | --- |
| New Jersey..... | --- | 8 | --- | 27 | 82 | 4 | 2 | 698 | 11 | 29 | 788 | 15 |
| New Mexico..... | --- | 5 | --- | 5 | 40 | --- | 1 | 68 | 1 | 6 | 113 | 1 |
| New York..... | 2 | 24 | 2 | 33 | 203 | 12 | 2 | 2,009 | 46 | 37 | 2,236 | 60 |
| North Carolina..... | 1 | 3 | --- | 35 | 89 | --- | --- | 123 | 1 | 36 | 215 | 1 |
| North Dakota..... | --- | 8 | --- | 3 | 40 | 2 | --- | 150 | 5 | 3 | 198 | 7 |
| Ohio..... | --- | 5 | --- | 78 | 235 | 4 | 1 | 515 | 7 | 79 | 755 | 11 |
| Oklahoma..... | 3 | 6 | --- | 33 | 123 | --- | --- | 211 | 39 | 36 | 340 | 39 |
| Oregon..... | 1 | 7 | --- | 8 | 120 | 4 | 1 | 254 | 11 | 10 | 381 | 15 |
| Pennsylvania..... | --- | 11 | --- | 30 | 178 | 5 | 1 | 960 | 15 | 31 | 1,149 | 20 |
| Rhode Island..... | --- | --- | --- | --- | 1 | --- | --- | 13 | --- | --- | 14 | --- |
| South Carolina..... | 9 | 40 | --- | 19 | 55 | --- | --- | 84 | --- | 28 | 179 | --- |
| South Dakota..... | --- | --- | --- | --- | 15 | 3 | --- | 67 | 1 | --- | 82 | 4 |
| Tennessee..... | --- | --- | --- | 23 | 76 | 3 | 1 | 205 | 6 | 24 | 281 | 9 |
| Texas..... | 3 | 24 | --- | 96 | 522 | 5 | --- | 886 | 21 | 99 | 1,432 | 26 |
| Utah..... | --- | 4 | --- | 9 | 53 | 1 | --- | 165 | 3 | 9 | 222 | 4 |
| Vermont..... | --- | --- | --- | --- | 5 | --- | --- | 23 | 1 | --- | 28 | 1 |
| Virginia..... | 1 | 8 | --- | 25 | 62 | --- | 1 | 237 | 2 | 27 | 307 | 2 |
| Washington..... | 1 | 13 | --- | 28 | 159 | 4 | 1 | 563 | 23 | 30 | 735 | 27 |
| West Virginia..... | --- | 12 | --- | 12 | 54 | --- | 1 | 181 | --- | 13 | 247 | --- |
| Wisconsin..... | --- | 8 | --- | 15 | 134 | 1 | --- | 411 | 11 | 15 | 553 | 12 |
| Wyoming..... | 1 | 2 | --- | 1 | 55 | --- | --- | 257 | 11 | 2 | 314 | 11 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 49 | 448 | 12 | 1,110 | 5,217 | 85 | 35 | 17,131 | 575 | 1,194 | 22,796 | 672 |

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

| State | Trespassers | | | | Nontrespassers | | | | Total | | | |
|-------------------|-------------|-------|---------|-------|----------------|-------|---------|-------|-------|-------|---------|-------|
| | Child | Adult | Unknown | Total | Child | Adult | Unknown | Total | Child | Adult | Unknown | Total |
| Alabama..... | 1 | 14 | 1 | 16 | 4 | 10 | 2 | 16 | 5 | 24 | 3 | 32 |
| Alaska..... | --- | 1 | --- | 1 | --- | 2 | --- | 2 | --- | 3 | --- | 3 |
| Arizona..... | --- | 7 | 4 | 11 | --- | 2 | --- | 2 | --- | 7 | 6 | 13 |
| Arkansas..... | 2 | 7 | 1 | 10 | 2 | 13 | 3 | 18 | 4 | 20 | 4 | 28 |
| California..... | 1 | 53 | 35 | 89 | 1 | 9 | 8 | 18 | 2 | 62 | 43 | 107 |
| Colorado..... | 1 | 4 | 1 | 6 | --- | 1 | --- | 1 | --- | 5 | 2 | 8 |
| Connecticut..... | --- | 4 | --- | 4 | --- | --- | --- | --- | --- | 4 | --- | 4 |
| Delaware..... | --- | 2 | --- | 2 | --- | --- | --- | --- | --- | 2 | --- | 2 |
| Dist of Columbia | --- | --- | 3 | 3 | --- | --- | --- | --- | --- | --- | 3 | 3 |
| Florida..... | 1 | 32 | 5 | 38 | --- | 9 | --- | 9 | 1 | 41 | 5 | 47 |
| Georgia..... | --- | 26 | 1 | 27 | 1 | 25 | --- | 26 | 1 | 51 | 1 | 53 |
| Idaho..... | 1 | 3 | --- | 4 | --- | 3 | 2 | 5 | 1 | 6 | 2 | 9 |
| Illinois..... | 7 | 46 | 7 | 60 | 5 | 21 | 4 | 30 | 12 | 67 | 11 | 90 |
| Indiana..... | 1 | 23 | 2 | 26 | 3 | 18 | --- | 21 | 4 | 41 | 2 | 47 |
| Iowa..... | --- | 3 | --- | 3 | 1 | 5 | 1 | 7 | 1 | 8 | 1 | 10 |
| Kansas..... | --- | 5 | 1 | 6 | --- | 5 | --- | 5 | --- | 10 | 1 | 11 |
| Kentucky..... | 3 | 5 | --- | 8 | 1 | 6 | --- | 7 | 4 | 11 | --- | 15 |
| Louisiana..... | 2 | 6 | --- | 8 | --- | 8 | --- | 8 | 2 | 14 | --- | 16 |
| Maine..... | --- | 1 | --- | 1 | --- | 1 | --- | 1 | --- | 2 | --- | 2 |
| Maryland..... | --- | 2 | --- | 2 | --- | --- | --- | --- | --- | 2 | --- | 2 |
| Massachusetts.... | --- | 3 | 2 | 5 | --- | 2 | --- | 2 | --- | 5 | 2 | 7 |
| Michigan..... | --- | 13 | 1 | 14 | 2 | 12 | 1 | 15 | 2 | 25 | 2 | 29 |
| Minnesota..... | 1 | 6 | 1 | 8 | --- | 11 | --- | 11 | 1 | 17 | 1 | 19 |
| Mississippi..... | 1 | 7 | --- | 8 | 8 | 11 | 2 | 21 | 9 | 18 | 2 | 29 |
| Missouri..... | --- | 10 | --- | 10 | 3 | 15 | 1 | 19 | 3 | 25 | 1 | 29 |
| Montana..... | --- | 3 | --- | 3 | --- | --- | --- | --- | --- | 3 | --- | 3 |
| Nebraska..... | 1 | 8 | --- | 9 | 3 | 13 | 1 | 17 | 4 | 21 | 1 | 26 |
| Nevada..... | --- | --- | 1 | 1 | --- | --- | --- | --- | --- | --- | 1 | 1 |
| New Hampshire.... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | 1 | 15 | 10 | 26 | --- | --- | --- | --- | 1 | 15 | 10 | 26 |
| New Mexico..... | --- | 1 | 3 | 4 | --- | --- | 1 | 1 | --- | 1 | 4 | 5 |
| New York..... | 5 | 14 | 8 | 27 | 1 | 3 | --- | 4 | 6 | 17 | 8 | 31 |
| North Carolina... | --- | 17 | 2 | 19 | --- | 13 | 3 | 16 | --- | 30 | 5 | 35 |
| North Dakota..... | --- | 1 | --- | 1 | --- | 2 | --- | 2 | --- | 3 | --- | 3 |
| Ohio..... | --- | 30 | 1 | 31 | 5 | 34 | 6 | 45 | 5 | 64 | 7 | 76 |
| Oklahoma..... | --- | 8 | 2 | 10 | 6 | 15 | 5 | 26 | 6 | 23 | 7 | 36 |
| Oregon..... | 1 | 6 | 1 | 8 | --- | 1 | --- | 1 | 1 | 7 | 1 | 9 |
| Pennsylvania..... | 2 | 20 | 1 | 23 | --- | 7 | --- | 7 | 2 | 27 | 1 | 30 |
| Rhode Island..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| South Carolina... | 1 | 11 | 4 | 16 | --- | 3 | 1 | 4 | 1 | 14 | 5 | 20 |
| South Dakota..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tennessee..... | --- | 11 | --- | 11 | 2 | 9 | --- | 11 | 2 | 20 | --- | 22 |
| Texas..... | 5 | 20 | 10 | 35 | 10 | 45 | 7 | 62 | 15 | 65 | 17 | 97 |
| Utah..... | --- | 2 | 2 | 4 | --- | 5 | --- | 5 | --- | 7 | 2 | 9 |
| Vermont..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Virginia..... | 2 | 13 | 1 | 16 | 1 | 6 | 3 | 10 | 3 | 19 | 4 | 26 |
| Washington..... | 3 | 16 | 3 | 22 | --- | 7 | --- | 7 | 3 | 23 | 3 | 29 |
| West Virginia.... | 1 | 8 | --- | 9 | --- | 3 | --- | 3 | 1 | 11 | --- | 12 |
| Wisconsin..... | 1 | 3 | --- | 4 | --- | 11 | --- | 11 | 1 | 14 | --- | 15 |
| Wyoming..... | --- | 1 | --- | 1 | --- | --- | --- | --- | --- | 1 | --- | 1 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 45 | 491 | 114 | 650 | 59 | 364 | 54 | 477 | 104 | 855 | 168 | 1,127 |

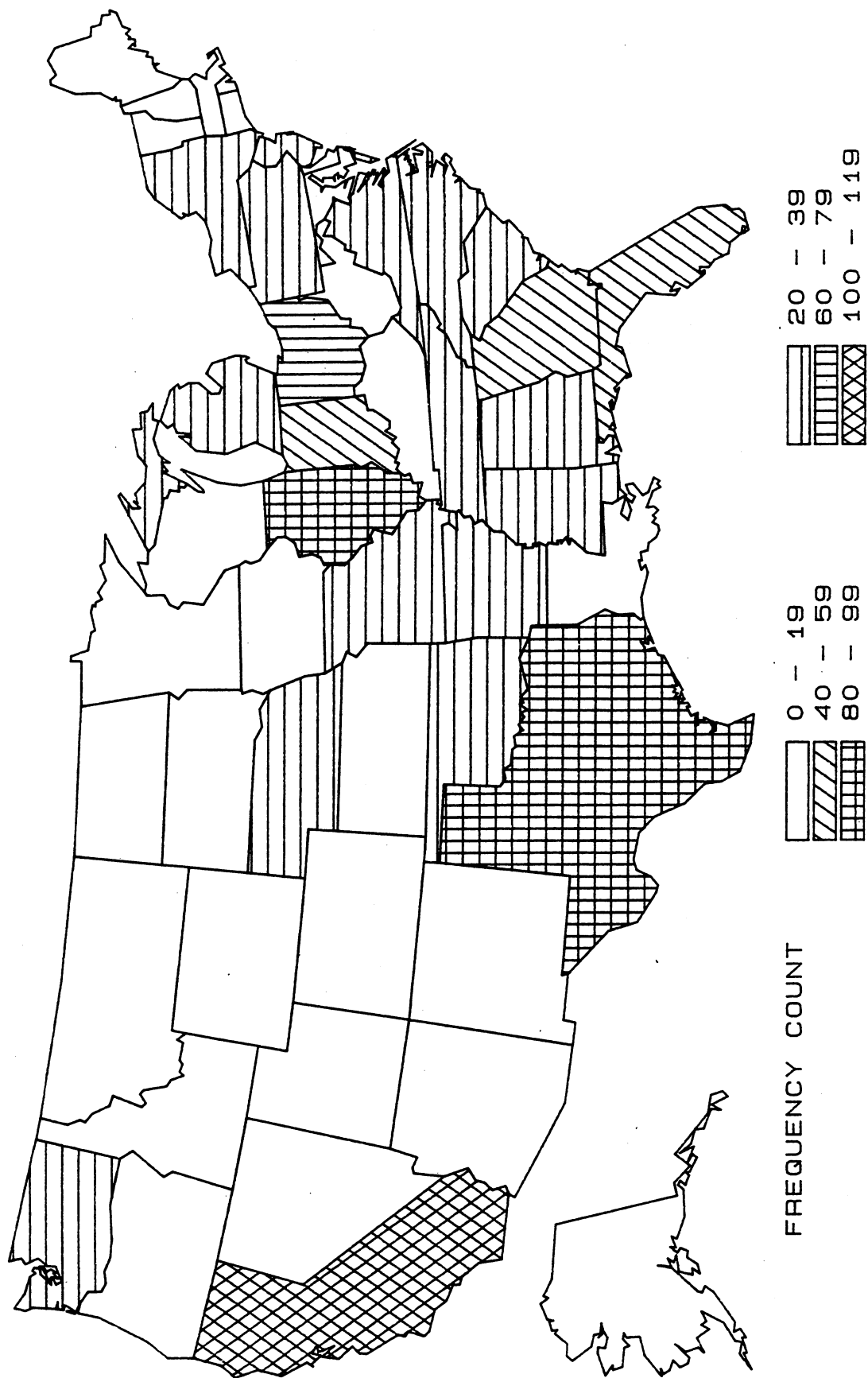


FIGURE 26. FATALITIES BY STATE

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

| State | Trespassers | | | | Nontrespassers | | | | Total | | | |
|-----------------------|-------------|-------|---------|-------|----------------|-------|---------|-------|-------|-------|---------|-------|
| | Child | Adult | Unknown | Total | Child | Adult | Unknown | Total | Child | Adult | Unknown | Total |
| Alabama..... | 1 | 8 | --- | 9 | 7 | 50 | 1 | 58 | 8 | 58 | 1 | 67 |
| Alaska..... | --- | 1 | --- | 1 | --- | --- | --- | --- | --- | 1 | --- | 1 |
| Arizona..... | --- | 11 | 2 | 13 | --- | --- | 10 | 10 | --- | 11 | 12 | 23 |
| Arkansas..... | 1 | 13 | 3 | 17 | 1 | 32 | 2 | 35 | 2 | 45 | 5 | 52 |
| California..... | 4 | 45 | 21 | 70 | 14 | 80 | 23 | 117 | 18 | 125 | 44 | 187 |
| Colorado..... | 1 | 5 | --- | 6 | 4 | 12 | 7 | 23 | 5 | 17 | 7 | 29 |
| Connecticut..... | --- | 1 | --- | 1 | --- | --- | --- | --- | --- | 1 | --- | 1 |
| Delaware..... | --- | 1 | --- | 1 | --- | --- | 1 | 1 | --- | 1 | --- | 2 |
| Dist of Columbia..... | 2 | --- | 1 | 3 | --- | --- | --- | --- | 2 | --- | 1 | 3 |
| Florida..... | --- | 34 | --- | 34 | 1 | 23 | 1 | 25 | 1 | 57 | 1 | 59 |
| Georgia..... | 1 | 19 | 2 | 22 | 6 | 57 | 2 | 65 | 7 | 76 | 4 | 87 |
| Idaho..... | --- | 2 | --- | 2 | --- | 23 | 2 | 25 | --- | 25 | 2 | 27 |
| Illinois..... | 12 | 43 | 8 | 63 | 2 | 54 | 30 | 86 | 14 | 97 | 38 | 149 |
| Indiana..... | 1 | 21 | 1 | 23 | 13 | 59 | 10 | 82 | 14 | 80 | 11 | 105 |
| Iowa..... | 3 | 7 | 2 | 12 | 3 | 48 | 10 | 61 | 6 | 55 | 12 | 73 |
| Kansas..... | --- | 3 | --- | 3 | 1 | 17 | 12 | 30 | 1 | 20 | 12 | 33 |
| Kentucky..... | 1 | 5 | --- | 6 | 4 | 23 | 4 | 31 | 5 | 28 | 4 | 37 |
| Louisiana..... | 4 | 17 | 2 | 23 | 8 | 97 | 27 | 132 | 12 | 114 | 29 | 155 |
| Maine..... | --- | --- | --- | --- | --- | 3 | --- | 3 | --- | 3 | --- | 3 |
| Maryland..... | --- | 3 | 1 | 4 | --- | 4 | 2 | 6 | --- | 7 | 3 | 10 |
| Massachusetts..... | --- | 13 | 5 | 18 | --- | 3 | 1 | 4 | --- | 16 | 6 | 22 |
| Michigan..... | 5 | 20 | --- | 25 | 2 | 50 | 6 | 58 | 7 | 70 | 6 | 83 |
| Minnesota..... | 1 | 4 | --- | 5 | 3 | 42 | 3 | 48 | 4 | 46 | 3 | 53 |
| Mississippi..... | --- | 2 | --- | 2 | 12 | 36 | 32 | 80 | 12 | 38 | 32 | 82 |
| Missouri..... | 1 | 6 | 3 | 10 | 7 | 36 | 3 | 46 | 8 | 42 | 6 | 56 |
| Montana..... | --- | 1 | --- | 1 | --- | 6 | --- | 6 | --- | 7 | --- | 7 |
| Nebraska..... | 1 | 1 | --- | 2 | 7 | 28 | --- | 35 | 8 | 29 | --- | 37 |
| Nevada..... | --- | 3 | 1 | 4 | --- | 1 | --- | 1 | --- | 4 | 1 | 5 |
| New Hampshire..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| New Jersey..... | --- | 7 | 3 | 10 | --- | 4 | 6 | 10 | --- | 11 | 9 | 20 |
| New Mexico..... | --- | 1 | 1 | 2 | --- | --- | 14 | 14 | --- | 1 | 15 | 16 |
| New York..... | 9 | 35 | 4 | 48 | 2 | 5 | 2 | 9 | 11 | 40 | 6 | 57 |
| North Carolina..... | 2 | 14 | 1 | 17 | 5 | 40 | 1 | 46 | 7 | 54 | 2 | 63 |
| North Dakota..... | --- | 3 | --- | 3 | --- | 1 | --- | 1 | --- | 4 | --- | 4 |
| Ohio..... | 1 | 15 | 5 | 21 | 10 | 98 | 7 | 115 | 11 | 113 | 12 | 136 |
| Oklahoma..... | 1 | 4 | --- | 5 | --- | 39 | 16 | 55 | 1 | 43 | 16 | 60 |
| Oregon..... | 2 | 17 | 1 | 20 | --- | 12 | --- | 12 | 2 | 29 | 1 | 32 |
| Pennsylvania..... | 8 | 26 | 3 | 37 | --- | 26 | 6 | 32 | 8 | 52 | 9 | 69 |
| Rhode Island..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| South Carolina..... | --- | 8 | 1 | 9 | 3 | 29 | 1 | 33 | 3 | 37 | 2 | 42 |
| South Dakota..... | --- | --- | --- | --- | --- | 5 | --- | 5 | --- | 5 | --- | 5 |
| Tennessee..... | 2 | 13 | --- | 15 | 2 | 20 | 4 | 26 | 4 | 33 | 4 | 41 |
| Texas..... | 10 | 61 | 14 | 85 | 14 | 133 | 37 | 184 | 24 | 194 | 51 | 269 |
| Utah..... | 1 | 3 | 1 | 5 | --- | 6 | 2 | 8 | 1 | 9 | 3 | 13 |
| Vermont..... | --- | --- | --- | --- | --- | 1 | --- | 1 | --- | 1 | --- | 1 |
| Virginia..... | 1 | 13 | --- | 14 | --- | 18 | 1 | 19 | 1 | 31 | 1 | 33 |
| Washington..... | --- | 10 | --- | 10 | --- | 15 | --- | 15 | --- | 25 | --- | 25 |
| West Virginia..... | 2 | 10 | 1 | 13 | 1 | 9 | --- | 10 | 3 | 19 | 1 | 23 |
| Wisconsin..... | 1 | 6 | 1 | 8 | 19 | 52 | 8 | 79 | 20 | 58 | 9 | 87 |
| Wyoming..... | --- | 1 | --- | 1 | --- | 3 | --- | 3 | --- | 4 | --- | 4 |
| Unknown..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL..... | 79 | 536 | 88 | 703 | 151 | 1,300 | 294 | 1,745 | 230 | 1,836 | 382 | 2,448 |

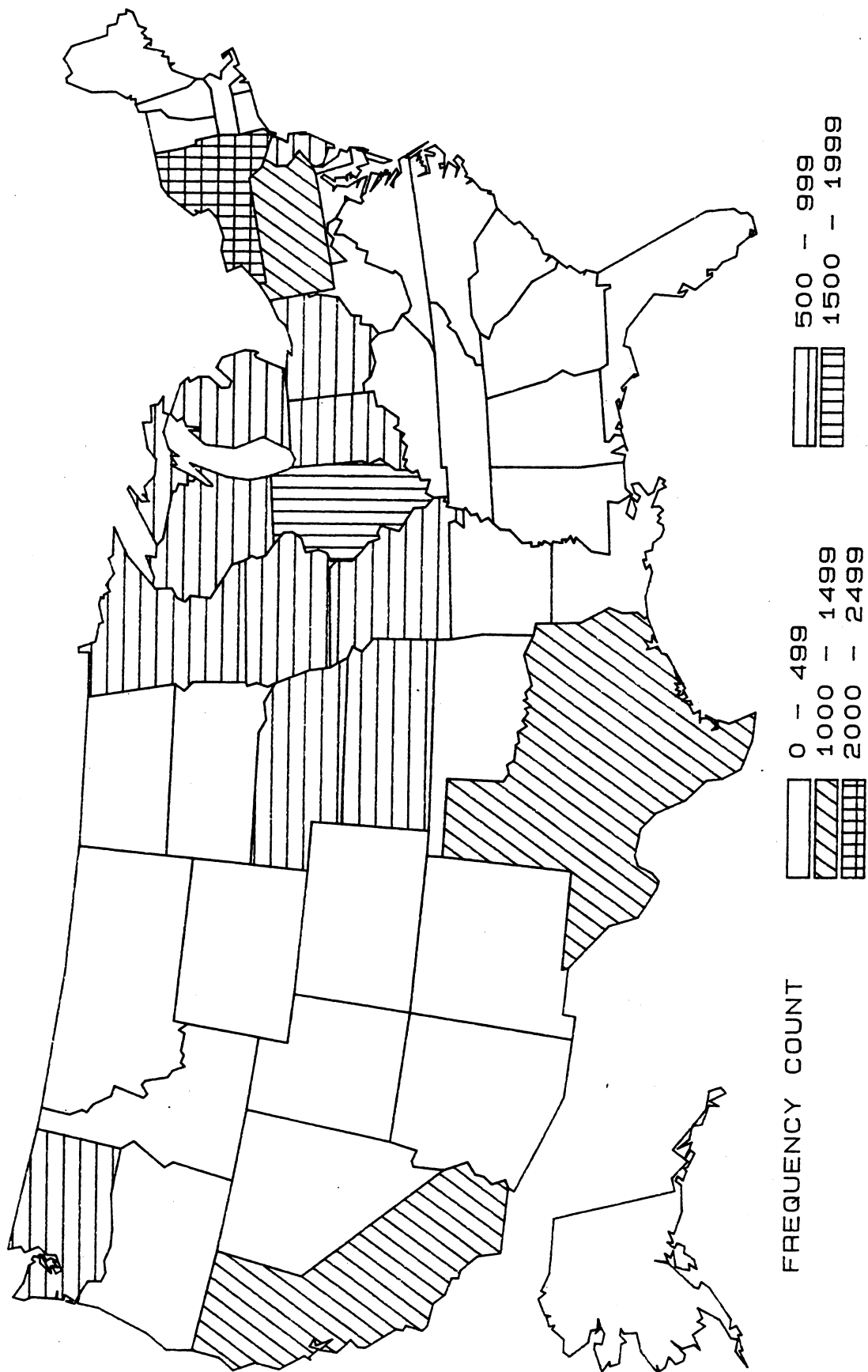


FIGURE 27. INJURIES BY STATE

6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD

TABLE 36. SUMMARY OF TRAIN-MILES OPERATED

| Railroad | Locomotive Train Miles | Motor Train Miles | Yard/Swch Train Miles | Total Train Miles | Total Employee Hours | Passenger* Miles | Revenue Passengers |
|---|------------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|---------------------|-----------------------|
| CLASS I RAILROADS | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 31,230,660 | 4,602,043 | 2,946,384 | 38,779,087 | 46,796,553 | 6,540,617,994 | 37,118,895 |
| Atchison, Topeka and Santa Fe Railway | 38,726,413 | 0 | 3,543,300 | 42,269,713 | 26,796,510 | 0 | 0 |
| Burlington Northern Railroad Company | 73,813,854 | 0 | 13,236,904 | 87,050,758 | 59,817,501 | 259,015,798 | 12,704,816 |
| Chicago and North Western Transport. | 13,539,164 | 0 | 2,762,040 | 16,301,204 | 14,042,970 | 522,842,908 | 23,569,708 |
| Consolidated Rail Corporation | 32,084,704 | 0 | 9,759,000 | 41,843,704 | 46,612,224 | 0 | 0 |
| CSX Transportation | 57,153,011 | 0 | 12,618,310 | 69,771,321 | 62,261,619 | 59,845,570 | 1,937,207 |
| Delaware and Hudson Railway Company | 1,402,666 | 0 | 66,910 | 1,469,576 | 1,598,092 | 0 | 0 |
| Denver and Rio Grande Western RR | 4,522,822 | 0 | 625,300 | 5,148,122 | 4,682,741 | 0 | 0 |
| Florida East Coast Railway Company | 2,609,121 | 0 | 638,568 | 3,247,689 | 1,997,873 | 0 | 0 |
| Grand Trunk Western Railroad Company | 3,674,193 | 0 | 1,500,858 | 5,175,051 | 5,855,854 | 0 | 0 |
| Illinois Central Railroad Company | 6,015,561 | 0 | 1,526,331 | 7,541,892 | 7,549,272 | 0 | 0 |
| Kansas City Southern Railway Company | 3,250,403 | 0 | 979,728 | 4,230,131 | 2,012,917 | 0 | 0 |
| Louisiana & Arkansas Railway Company | 1,559,529 | 0 | 448,434 | 2,007,963 | 1,806,756 | 0 | 0 |
| Norfolk Southern Corporation | 37,865,295 | 0 | 7,630,590 | 45,495,885 | 51,109,140 | 25,782,282 | 1,523,282 |
| Soo Line Railroad Company | 8,419,900 | 0 | 1,942,476 | 10,362,376 | 9,231,594 | 0 | 0 |
| Southern Pacific Transportation Co. | 28,838,212 | 0 | 5,335,573 | 34,173,785 | 32,336,650 | 164,929,977 | 7,105,693 |
| St. Louis Southwestern Railway Co. | 8,125,071 | 0 | 528,626 | 8,653,697 | 4,580,473 | 0 | 0 |
| Springfield Terminal Railway Company | 944,018 | 0 | 117,903 | 1,061,921 | 2,393,537 | 0 | 0 |
| Union Pacific Railroad Company | 70,754,931 | 0 | 8,294,048 | 79,048,979 | 59,439,382 | 0 | 0 |
| Total Class I Railroads..... | 424,529,528 | 4,602,043 | 74,501,283 | 503,632,854 | 440,921,658 | 7,573,034,529 | 83,959,601 |
| GROUP II RAILROADS ** | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 671,141 | 671,141 | 709,128 | 0 | 0 |
| Alaska Railroad Corporation | 704,604 | 76,025 | 178,396 | 959,025 | 1,155,782 | 17,150,076 | 471,243 |
| Bangor and Aroostook Railroad | 345,478 | 0 | 50,828 | 396,306 | 640,562 | 0 | 0 |
| Bessemer & Lake Erie Railroad Company | 229,366 | 0 | 17,856 | 247,222 | 834,286 | 0 | 0 |
| Belt Railway Company Of Chicago | 0 | 0 | 449,672 | 449,672 | 631,428 | 0 | 0 |
| Birmingham Southern Railroad Company | 0 | 0 | 207,540 | 207,540 | 445,956 | 0 | 0 |
| Chicago, Central & Pacific RR Co. | 978,582 | 0 | 29,544 | 1,008,126 | 1,030,025 | 0 | 0 |
| Cuyahoga Valley Railway Company | 0 | 0 | 317,904 | 317,904 | 441,367 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 651,977 | 0 | 0 | 651,977 | 480,466 | 0 | 0 |
| Duluth, Missabe and Iron Range Rwy | 635,908 | 0 | 251,321 | 887,229 | 1,513,496 | 0 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 415,126 | 0 | 1,034,932 | 1,450,058 | 2,065,060 | 0 | 0 |
| Fox River Valley Railroad Corporation | 1,070,981 | 0 | 226,582 | 1,297,563 | 545,545 | 0 | 0 |
| Gateway Western Railway | 654,764 | 0 | 124,974 | 779,738 | 468,891 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 686,821 | 686,821 | 900,094 | 0 | 0 |
| Indiana Harbor Belt Railroad Company | 1,098,490 | 0 | 0 | 1,098,490 | 1,798,164 | 0 | 0 |
| Long Island Rail Road | 1,715,130 | 6,356,000 | 113,060 | 8,184,190 | 13,012,673 | 1,921,652,108 | 70,483,463 |
| Monongahela Railway Company | 246,406 | 0 | 0 | 246,406 | 480,614 | 0 | 0 |
| Metro North Commuter Railroad Company | 1,183,101 | 5,891,354 | 84,656 | 7,159,111 | 10,927,437 | 1,594,904,776 | 55,980,631 |
| Montana Rail Link | 3,653,273 | 0 | 130,469 | 3,783,742 | 2,026,760 | 0 | 0 |
| MidSouth Rail Corporation | 689,575 | 0 | 147,172 | 836,747 | 819,119 | 0 | 0 |
| Northern Indiana Transport. Commuter | 0 | 682,938 | 0 | 682,938 | 419,292 | 101,062,422 | 3,642,845 |
| Northeast Illinois Regional Commuter | 2,969,041 | 0 | 68,819 | 3,037,860 | 4,228,647 | 612,242,010 | 30,187,555 |
| New Jersey Transit Rail Operations | 2,371,788 | 3,943,380 | 332,958 | 6,648,126 | 7,826,852 | 955,641,311 | 40,756,900 |
| Paducah & Louisville Railway Company | 589,222 | 0 | 65,803 | 655,025 | 693,603 | 0 | 0 |
| Port Authority Trans Hudson | 0 | 1,560,930 | 2,343 | 1,563,273 | 2,723,476 | 273,619,537 | 55,366,300 |
| Pittsburgh & Lake Erie Railroad Co. | 90,359 | 0 | 47,550 | 137,909 | 502,331 | 0 | 0 |
| Port Terminal Railroad Association | 0 | 0 | 793,296 | 793,296 | 730,152 | 0 | 0 |
| Richmond, Fredericksburg and Potomac | 456,063 | 0 | 166,616 | 622,679 | 869,491 | 0 | 0 |
| River Terminal Railway Company | 0 | 0 | 320,520 | 320,520 | 409,331 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 4,924,725 | 0 | 4,924,725 | 3,611,008 | 306,294,399 | 22,521,647 |
| Southrail Corporation | 351,719 | 0 | 78,208 | 429,927 | 551,707 | 0 | 0 |
| Southern Pacific, Chicago-St. Louis | 1,159,894 | 0 | 0 | 1,159,894 | 548,070 | 0 | 0 |
| Texas Mexican Railway Company | 126,612 | 0 | 135,539 | 262,151 | 454,731 | 0 | 0 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 522,237 | 522,237 | 784,656 | 0 | 0 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 312,252 | 312,252 | 592,659 | 0 | 0 |
| Wisconsin Central Ltd. (also Railway) | 1,966,525 | 0 | 527,262 | 2,493,787 | 2,267,411 | 179,036 | 1,136 |
| Wheeling & Lake Erie Railway Company | 357,915 | 0 | 163,937 | 521,852 | 662,040 | 0 | 0 |
| Total Group II Railroads **..... | 24,711,899 | 23,435,352 | 8,260,208 | 56,407,459 | 68,802,310 | 5,782,745,675 | 279,411,720 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | |
| Class I Railroads | 424,529,528 | 4,602,043 | 74,501,283 | 503,632,854 | 440,921,658 | 7,573,034,529 | 83,959,601 |
| Group II Railroads ** | 24,711,899 | 23,435,352 | 8,260,208 | 56,407,459 | 68,802,310 | 5,782,745,675 | 279,411,720 |
| all Other Railroads | 10,962,181 | 74,537 | 5,757,859 | 16,794,577 | 20,936,792 | 648,147,894 | 5,738,047 |
| Total All Railroads | 460,203,608 | 28,111,932 | 88,519,350 | 576,834,890 | 530,660,760 | 14,003,928,098 | 369,109,368 |

* Passenger-mile: Movement of a passenger for a distance of one mile.

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

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

| Railroad | <<.....COLLISIONS.....>> | | | | | | <<.....DERAILMENTS.....>> | | | | | |
|---|--------------------------|-------|-------|-------|-------|------------|---------------------------|-------|-------|-------|-------|-------------|
| | Human | Equip | Track | Other | Total | Damages | Human | Equip | Track | Other | Total | Damages |
| CLASS I RAILROADS | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 3 | 5 | 7 | 0 | 15 | 2,615,195 | 13 | 2 | 11 | 6 | 32 | 4,198,092 |
| Atchison, Topeka and Santa Fe Railway | 10 | 0 | 0 | 2 | 12 | 482,380 | 35 | 24 | 45 | 18 | 122 | 8,520,284 |
| Burlington Northern Railroad Company | 28 | 1 | 2 | 3 | 34 | 13,798,568 | 49 | 42 | 116 | 42 | 249 | 33,240,026 |
| Chicago and North Western Transport. | 17 | 0 | 0 | 0 | 17 | 435,523 | 13 | 8 | 29 | 6 | 56 | 2,341,161 |
| Consolidated Rail Corporation | 13 | 1 | 0 | 4 | 18 | 1,080,130 | 44 | 27 | 62 | 16 | 149 | 5,290,974 |
| CSX Transportation | 16 | 1 | 0 | 3 | 20 | 4,998,970 | 34 | 20 | 61 | 27 | 142 | 13,419,957 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 2 | 7 | 322,725 |
| Denver and Rio Grande Western RR | 2 | 0 | 0 | 0 | 2 | 2,059,700 | 1 | 2 | 3 | 0 | 6 | 450,919 |
| Florida East Coast Railway Company | 1 | 0 | 0 | 1 | 2 | 42,700 | 6 | 3 | 5 | 0 | 14 | 317,413 |
| Grand Trunk Western Railroad Company | 1 | 0 | 0 | 0 | 1 | 21,300 | 13 | 10 | 13 | 7 | 43 | 964,009 |
| Illinois Central Railroad Company | 7 | 0 | 0 | 0 | 7 | 273,100 | 8 | 8 | 43 | 5 | 64 | 4,005,638 |
| Kansas City Southern Railway Company | 2 | 0 | 0 | 0 | 2 | 15,196 | 2 | 4 | 11 | 0 | 17 | 1,038,218 |
| Louisiana & Arkansas Railway Company | 1 | 0 | 0 | 0 | 1 | 26,000 | 4 | 0 | 3 | 0 | 7 | 361,186 |
| Norfolk Southern Corporation | 14 | 4 | 2 | 0 | 20 | 1,274,418 | 23 | 14 | 35 | 7 | 79 | 2,110,291 |
| Soo Line Railroad Company | 15 | 1 | 1 | 4 | 21 | 608,198 | 18 | 11 | 53 | 10 | 92 | 6,244,035 |
| Southern Pacific Transportation Co. | 13 | 0 | 0 | 1 | 14 | 4,398,279 | 52 | 25 | 79 | 26 | 182 | 13,279,594 |
| St. Louis Southwestern Railway Co. | 2 | 1 | 0 | 0 | 3 | 84,300 | 10 | 8 | 12 | 7 | 37 | 5,134,698 |
| Springfield Terminal Railway Company | 2 | 0 | 0 | 1 | 3 | 120,300 | 2 | 3 | 7 | 4 | 16 | 764,835 |
| Union Pacific Railroad Company | 27 | 1 | 1 | 2 | 31 | 2,798,145 | 102 | 70 | 160 | 41 | 373 | 30,956,944 |
| Total Class I Railroads..... | 174 | 15 | 13 | 21 | 223 | 35,132,402 | 430 | 281 | 752 | 224 | 1,687 | 132,960,999 |
| GROUP II RAILROADS ** | | | | | | | | | | | | |
| Alton & Southern Railroad | 4 | 0 | 0 | 3 | 7 | 162,740 | 1 | 1 | 6 | 1 | 9 | 252,530 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 186,188 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10,600 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Belt Railway Company Of Chicago | 0 | 0 | 2 | 1 | 3 | 130,023 | 0 | 0 | 7 | 4 | 11 | 272,800 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 75,000 |
| Chicago, Central & Pacific RR Co. | 1 | 0 | 0 | 0 | 1 | 14,925 | 3 | 2 | 3 | 3 | 11 | 616,002 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 27 | 1 | 34 | 1,522,150 |
| Duluth, Missabe and Iron Range Ry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 | 83,237 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 4 | 12 | 605,286 |
| Fox River Valley Railroad Corporation | 3 | 0 | 0 | 0 | 3 | 41,820 | 0 | 1 | 2 | 0 | 3 | 24,100 |
| Gateway Western Railway | 1 | 0 | 0 | 0 | 1 | 11,800 | 0 | 1 | 5 | 1 | 7 | 463,519 |
| Houston Belt & Terminal Railway Co. | 2 | 0 | 1 | 0 | 3 | 89,025 | 1 | 2 | 2 | 2 | 7 | 67,586 |
| Indiana Harbor Belt Railroad Company | 1 | 0 | 0 | 0 | 1 | 42,100 | 8 | 0 | 5 | 2 | 15 | 218,083 |
| Long Island Rail Road | 4 | 0 | 1 | 0 | 5 | 286,925 | 2 | 2 | 1 | 1 | 6 | 189,096 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 8 | 767,273 |
| Metro North Commuter Railroad Company | 3 | 0 | 1 | 0 | 4 | 247,947 | 1 | 0 | 1 | 0 | 2 | 209,982 |
| Montana Rail Link | 4 | 0 | 0 | 0 | 4 | 190,961 | 3 | 11 | 6 | 2 | 22 | 2,736,825 |
| MidSouth Rail Corporation | 2 | 0 | 0 | 0 | 2 | 20,330 | 1 | 1 | 2 | 3 | 7 | 150,294 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 450,000 |
| Northeast Illinois Regional Commuter | 1 | 0 | 0 | 1 | 2 | 75,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey Transit Rail Operations | 6 | 2 | 1 | 1 | 4 | 46,796 | 2 | 1 | 4 | 2 | 9 | 473,777 |
| Paducah & Louisville Railway Company | 1 | 0 | 0 | 0 | 1 | 24,500 | 0 | 1 | 1 | 0 | 2 | 96,200 |
| Port Authority Trans Hudson | 1 | 0 | 0 | 0 | 1 | 29,335 | 0 | 0 | 0 | 1 | 1 | 9,830 |
| Pittsburgh & Lake Erie Railroad Co | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Port Terminal Railroad Association | 4 | 1 | 0 | 0 | 5 | 140,336 | 0 | 0 | 5 | 0 | 5 | 188,476 |
| Richmond, Fredericksburg and Potomac | 1 | 0 | 0 | 0 | 1 | 45,085 | 5 | 2 | 2 | 0 | 9 | 179,229 |
| River Terminal Railway Company | 0 | 0 | 0 | 1 | 1 | 370,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport | 3 | 1 | 0 | 1 | 5 | 371,970 | 2 | 2 | 0 | 0 | 4 | 40,273 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 6 | 218,230 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 2 | 10 | 151,795 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 430,528 |
| Terminal Railroad Assoc. of St. Louis | 1 | 0 | 0 | 0 | 1 | 43,100 | 6 | 0 | 8 | 3 | 17 | 346,439 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 31,200 |
| Wisconsin Central Ltd. (also Railway) | 4 | 0 | 0 | 0 | 4 | 87,702 | 0 | 5 | 9 | 8 | 22 | 1,226,143 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 4 | 835,398 |
| Total Group II Railroads **..... | 41 | 4 | 6 | 8 | 59 | 2,472,420 | 45 | 46 | 123 | 45 | 259 | 13,128,069 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | |
| Class I Railroads | 162 | 14 | 13 | 18 | 207 | 35,132,402 | 403 | 266 | 694 | 212 | 1,575 | 132,960,999 |
| Group II Railroads ** | 33 | 3 | 4 | 7 | 47 | 2,472,420 | 39 | 43 | 103 | 34 | 219 | 13,128,069 |
| All Other Railroads | 7 | 0 | 0 | 0 | 7 | 316,850 | 14 | 14 | 101 | 13 | 142 | 7,000,889 |
| Total All Railroads | 202 | 17 | 17 | 25 | 261 | 37,921,672 | 456 | 323 | 898 | 259 | 1,936 | 153,089,957 |

** Group II Railroads: Railroads, excluding class I, with annual accumulation of over 400,000 employee hours worked.

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

TABLE 37. (CONTINUED)

| Railroad | <<.....OTHER ACCIDENTS.....>> | | | | | <<.....TOTALS.....>> | | | |
|--|-------------------------------|-------|-------|-------|-------|----------------------|-------|-------|-------------|
| | Human | Equip | Track | Other | Total | Damages | Accs | Rate* | Damages |
| CLASS I RAILROADS | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 3 | 25 | 10 | 32 | 70 | 4,793,354 | 117 | 3.02 | 11,606,641 |
| Atchison, Topeka and Santa Fe Railway | 18 | 2 | 4 | 12 | 36 | 890,003 | 170 | 4.02 | 9,892,667 |
| Burlington Northern Railroad Company | 66 | 8 | 8 | 35 | 117 | 4,385,436 | 400 | 4.60 | 51,424,030 |
| Chicago and North Western Transport. | 10 | 1 | 0 | 4 | 15 | 354,940 | 88 | 5.40 | 3,131,624 |
| Consolidated Rail Corporation | 14 | 0 | 2 | 16 | 32 | 1,604,189 | 199 | 4.76 | 7,975,293 |
| CSX Transportation | 9 | 1 | 0 | 24 | 34 | 2,988,320 | 196 | 2.81 | 21,407,247 |
| Delaware and Hudson Railway Company | 1 | 1 | 0 | 2 | 4 | 42,642 | 11 | 7.49 | 365,367 |
| Denver and Rio Grande Western RR | 1 | 0 | 0 | 2 | 3 | 1,115,096 | 11 | 2.14 | 3,625,715 |
| Florida East Coast Railway Company | 0 | 1 | 0 | 2 | 3 | 116,595 | 19 | 5.85 | 476,708 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 3 | 3 | 85,500 | 47 | 9.08 | 1,070,809 |
| Illinois Central Railroad Company | 2 | 2 | 3 | 7 | 14 | 484,630 | 85 | 11.27 | 4,763,368 |
| Kansas City Southern Railway Company | 2 | 0 | 0 | 1 | 3 | 94,700 | 22 | 5.20 | 1,148,114 |
| Louisiana & Arkansas Railway Company | 1 | 0 | 0 | 1 | 2 | 97,076 | 10 | 4.98 | 484,262 |
| Norfolk Southern Corporation | 4 | 4 | 3 | 21 | 32 | 693,553 | 131 | 2.88 | 4,078,262 |
| Soo Line Railroad Company | 3 | 1 | 0 | 8 | 12 | 303,010 | 125 | 12.06 | 7,155,243 |
| Southern Pacific Transportation Co. | 19 | 3 | 0 | 19 | 41 | 1,154,616 | 237 | 6.94 | 18,832,489 |
| St. Louis Southwestern Railway Co. | 3 | 0 | 0 | 5 | 8 | 2,146,430 | 48 | 5.55 | 7,365,428 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 1 | 1 | 20,000 | 20 | 18.83 | 905,135 |
| Union Pacific Railroad Company | 48 | 13 | 15 | 43 | 119 | 2,953,945 | 523 | 6.62 | 36,709,034 |
| Total Class I Railroads..... | 204 | 62 | 45 | 238 | 549 | 24,324,035 | 2,459 | 4.88 | 192,417,436 |
| GROUP II RAILROADS ** | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 1 | 1 | 18,916 | 17 | 25.33 | 434,186 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3.13 | 186,188 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 2 | 2 | 31,897 | 3 | 7.57 | 42,497 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 |
| Belt Railway Company Of Chicago | 2 | 0 | 0 | 1 | 3 | 66,500 | 17 | 37.81 | 469,323 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4.82 | 75,000 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 2 | 2 | 265,141 | 14 | 13.89 | 896,068 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 1 | 1 | 215,000 | 35 | 53.68 | 1,737,150 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4.51 | 83,237 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 8.28 | 605,286 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4.62 | 65,920 |
| Gateway Western Railway | 1 | 0 | 0 | 0 | 1 | 9,000 | 9 | 11.54 | 484,319 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 14.56 | 156,611 |
| Indiana Harbor Belt Railroad Company | 5 | 0 | 0 | 1 | 6 | 126,856 | 22 | 20.03 | 387,039 |
| Long Island Rail Road | 3 | 0 | 0 | 2 | 5 | 169,397 | 16 | 1.95 | 645,418 |
| Monongahela Railway Company | 0 | 0 | 0 | 1 | 1 | 14,500 | 9 | 36.53 | 781,773 |
| Metro North Commuter Railroad Company | 1 | 4 | 9 | 3 | 17 | 792,634 | 23 | 3.21 | 1,250,563 |
| Montana Rail Link | 1 | 1 | 0 | 1 | 3 | 85,400 | 29 | 7.66 | 3,013,186 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 10.76 | 170,624 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 2 | 2 | 18,263 | 3 | 4.39 | 468,263 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 3 | 3 | 1,338,000 | 5 | 1.65 | 1,413,000 |
| New Jersey Transit Rail Operations | 1 | 17 | 5 | 5 | 28 | 926,448 | 41 | 6.17 | 1,447,021 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4.58 | 120,700 |
| Port Authority Trans Hudson | 1 | 0 | 0 | 1 | 2 | 95,007 | 4 | 2.56 | 134,172 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0 |
| Port Terminal Railroad Association | 8 | 0 | 0 | 1 | 9 | 275,149 | 19 | 23.95 | 603,961 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 16.06 | 224,314 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3.12 | 370,000 |
| Southeastern Pennsylvania Transport. | 1 | 0 | 0 | 3 | 4 | 85,670 | 13 | 2.64 | 497,913 |
| Southrail Corporation | 1 | 0 | 0 | 0 | 1 | 14,300 | 7 | 16.28 | 232,530 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 8.62 | 151,795 |
| Texas Mexican Railway Company | 1 | 0 | 0 | 0 | 1 | 29,461 | 5 | 19.07 | 459,989 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 34.47 | 389,539 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6.41 | 31,200 |
| Wisconsin Central Ltd. (also Railway) | 0 | 1 | 0 | 1 | 2 | 21,424 | 28 | 11.23 | 1,335,269 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 1 | 1 | 6,980 | 5 | 9.58 | 842,378 |
| Total Group II Railroads **..... | 26 | 23 | 14 | 32 | 95 | 4,605,943 | 413 | 7.32 | 20,206,432 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | |
| Class I Railroads | 196 | 57 | 45 | 208 | 506 | 24,324,035 | 2,288 | 4.54 | 192,417,436 |
| Group II Railroads ** | 25 | 17 | 8 | 29 | 79 | 4,605,943 | 345 | 6.12 | 20,206,432 |
| All Other Railroads | 8 | 1 | 0 | 23 | 32 | 2,995,388 | 181 | 10.78 | 10,313,127 |
| Total All Railroads | 229 | 75 | 53 | 260 | 617 | 31,925,366 | 2,814 | 4.88 | 222,936,995 |

* Accident rate per million train miles.

** Group II Railroads: Railroads, excluding class I, with annual accumulation of over 400,000 employee hours worked.

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

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

| Railroad | <<.....TRAIN ACCIDENTS.....>> | | | | | | | <<.....TRAIN INCIDENTS.....>> | | | | | | |
|--|-------------------------------|------|------|------|------|-------|-------|-------------------------------|------|------|------|------|-------|-------|
| | Eod | Enod | Psgr | Nont | Tres | Contr | Total | Eod | Enod | Psgr | Nont | Tres | Contr | Total |
| CLASS I RAILROADS | | | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 0 | 8 | 4 | 1 | 0 | 13 | 0 | 0 | 0 | 20 | 75 | 0 | 95 |
| Atchison, Topeka and Santa Fe Railway | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 23 | 34 | 0 | 59 |
| Burlington Northern Railroad Company | 4 | 0 | 0 | 3 | 1 | 0 | 8 | 0 | 0 | 0 | 51 | 52 | 1 | 104 |
| Chicago and North Western Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 11 | 0 | 22 |
| Consolidated Rail Corporation | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 27 | 53 | 1 | 83 |
| CSX Transportation | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 3 | 0 | 0 | 60 | 82 | 0 | 145 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Denver and Rio Grande Western RR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 4 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 19 | 0 | 23 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 8 | 0 | 27 |
| Illinois Central Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | 0 | 8 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 9 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 |
| Norfolk Southern Corporation | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 73 | 81 | 1 | 156 |
| Soo Line Railroad Company | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 8 | 6 | 0 | 14 |
| Southern Pacific Transportation Co. | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 26 | 60 | 0 | 86 |
| St. Louis Southwestern Railway Co. | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 3 | 0 | 14 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Union Pacific Railroad Company | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 2 | 0 | 0 | 72 | 77 | 0 | 151 |
| Total Class I Railroads..... | 8 | 0 | 8 | 20 | 7 | 0 | 43 | 11 | 1 | 0 | 421 | 571 | 3 | 1,007 |
| GROUP II RAILROADS ** | | | | | | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Long Island Rail Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 15 | 0 | 17 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Metro North Commuter Railroad Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 0 | 7 |
| Montana Rail Link | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 7 | 0 | 8 |
| New Jersey Transit Rail Operations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 17 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Port Authority Trans Hudson | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Port Terminal Railroad Association | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Total Group II Railroads **..... | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 0 | 18 | 65 | 0 | 86 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | | | |
| Class I Railroads | 8 | 0 | 8 | 20 | 7 | 0 | 43 | 11 | 1 | 0 | 421 | 571 | 3 | 1,007 |
| Group II Railroads ** | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 0 | 18 | 65 | 0 | 86 |
| All Other Railroads | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 12 | 5 | 0 | 17 |
| Total All Railroads | 9 | 0 | 8 | 23 | 9 | 0 | 49 | 14 | 1 | 0 | 451 | 641 | 3 | 1,110 |

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Non-trespasser
 TRES = Trespasser
 CONTR = Contractor

TABLE 38. (CONTINUED)

| Railroad | << NON - TRAIN INCIDENTS >> | | | | | | | <<.....T O T A L S.....>> | | | | | | |
|---|-----------------------------|------|------|------|------|-------|-------|---------------------------|------|------|------|------|-------|-------|
| | Eod | Enod | Psgr | Nont | Tres | Contr | Total | Eod | Enod | Psgr | Nont | Tres | Contr | Total |
| CLASS I RAILROADS | | | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 24 | 76 | 0 | 108 |
| Atchison, Topeka and Santa Fe Railway | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 1 | 0 | 28 | 34 | 0 | 64 |
| Burlington Northern Railroad Company | 1 | 0 | 0 | 2 | 2 | 0 | 5 | 5 | 0 | 0 | 56 | 55 | 1 | 117 |
| Chicago and North Western Transport. | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 11 | 11 | 0 | 23 |
| Consolidated Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 27 | 53 | 1 | 84 |
| CSX Transportation | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 63 | 83 | 0 | 149 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Denver and Rio Grande Western RR | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 2 | 0 | 7 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 5 | 20 | 0 | 25 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 8 | 0 | 27 |
| Illinois Central Railroad Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 5 | 2 | 0 | 9 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 0 | 9 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 |
| Norfolk Southern Corporation | 3 | 0 | 0 | 2 | 2 | 0 | 7 | 5 | 0 | 0 | 75 | 83 | 1 | 164 |
| Soo Line Railroad Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 9 | 7 | 0 | 17 |
| Southern Pacific Transportation Co. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 27 | 62 | 0 | 90 |
| St. Louis Southwestern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 3 | 0 | 15 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Union Pacific Railroad Company | 3 | 0 | 0 | 0 | 1 | 0 | 4 | 5 | 0 | 0 | 77 | 80 | 0 | 162 |
| Total Class I Railroads..... | 11 | 0 | 0 | 9 | 7 | 0 | 27 | 30 | 1 | 8 | 450 | 585 | 3 | 1,077 |
| GROUP II RAILROADS ** | | | | | | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Long Island Rail Road | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 15 | 0 | 0 | 17 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Metro North Commuter Railroad Company | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 8 | 0 | 0 | 10 |
| Montana Rail Link | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 9 | 0 | 10 |
| New Jersey Transit Rail Operations | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 19 | 0 | 0 | 19 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Port Authority Trans Hudson | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Port Terminal Railroad Association | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 0 | 0 | 7 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Total Group II Railroads **..... | 1 | 0 | 0 | 1 | 5 | 0 | 7 | 5 | 0 | 0 | 20 | 71 | 0 | 96 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | | | |
| Class I Railroads | 11 | 0 | 0 | 9 | 7 | 0 | 27 | 30 | 1 | 8 | 450 | 585 | 3 | 1,077 |
| Group II Railroads ** | 1 | 0 | 0 | 1 | 5 | 0 | 7 | 5 | 0 | 0 | 20 | 71 | 0 | 96 |
| All Other Railroads | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 14 | 7 | 0 | 21 |
| Total All Railroads | 12 | 0 | 0 | 10 | 13 | 0 | 35 | 35 | 1 | 8 | 484 | 663 | 3 | 1,194 |

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Non-trespasser
 TRES = Trespasser
 CONTR = Contractor

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

| Railroad | <<.....T R A I N A C C I D E N T S.....>> | | | | | | | <<.....T R A I N I N C I D E N T S.....>> | | | | | | |
|---|---|------|------|------|------|-------|-------|---|------|------|-------|------|-------|-------|
| | Eod | Enod | Psgr | Nont | Tres | Contr | Total | Eod | Enod | Psgr | Nont | Tres | Contr | Total |
| CLASS I RAILROADS | | | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 19 | 7 | 32 | 2 | 3 | 0 | 63 | 151 | 5 | 39 | 11 | 39 | 1 | 246 |
| Atchison, Topeka and Santa Fe Railway | 7 | 0 | 0 | 0 | 0 | 0 | 7 | 255 | 0 | 0 | 111 | 20 | 0 | 386 |
| Burlington Northern Railroad Company | 54 | 0 | 0 | 3 | 0 | 0 | 57 | 569 | 0 | 0 | 162 | 43 | 2 | 776 |
| Chicago and North Western Transport. | 3 | 0 | 0 | 1 | 0 | 0 | 4 | 40 | 0 | 5 | 35 | 14 | 0 | 94 |
| Consolidated Rail Corporation | 22 | 0 | 0 | 6 | 1 | 0 | 29 | 199 | 0 | 0 | 83 | 73 | 0 | 355 |
| CSX Transportation | 33 | 0 | 0 | 4 | 1 | 0 | 38 | 152 | 0 | 0 | 234 | 91 | 3 | 480 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 0 | 12 |
| Denver and Rio Grande Western RR | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 20 | 0 | 0 | 4 | 0 | 0 | 24 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 6 | 18 | 0 | 27 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 1 | 35 | 10 | 0 | 90 |
| Illinois Central Railroad Company | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 30 | 0 | 0 | 71 | 6 | 0 | 107 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 29 | 0 | 0 | 26 | 1 | 0 | 56 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 27 | 3 | 0 | 40 |
| Norfolk Southern Corporation | 22 | 0 | 0 | 1 | 0 | 0 | 23 | 75 | 0 | 1 | 187 | 68 | 2 | 333 |
| Soo Line Railroad Company | 8 | 0 | 0 | 2 | 0 | 0 | 10 | 87 | 0 | 0 | 44 | 11 | 0 | 142 |
| Southern Pacific Transportation Co. | 22 | 4 | 0 | 46 | 3 | 0 | 75 | 195 | 0 | 0 | 111 | 81 | 0 | 387 |
| St. Louis Southwestern Railway Co. | 6 | 0 | 0 | 4 | 0 | 0 | 10 | 18 | 0 | 0 | 17 | 5 | 0 | 40 |
| Springfield Terminal Railway Company | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 1 | 1 | 7 |
| Union Pacific Railroad Company | 39 | 0 | 0 | 6 | 2 | 0 | 47 | 442 | 0 | 0 | 191 | 113 | 5 | 751 |
| Total Class I Railroads..... | 241 | 11 | 32 | 77 | 11 | 0 | 372 | 2,327 | 5 | 46 | 1,355 | 606 | 14 | 4,353 |
| GROUP II RAILROADS ** | | | | | | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 1 | 0 | 11 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Birmingham Southern Railroad Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 6 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 16 | 4 | 0 | 22 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 9 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 6 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 4 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 2 | 0 | 0 | 12 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 5 | 1 | 0 | 10 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 6 | 1 | 0 | 10 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 4 | 1 | 0 | 13 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 1 | 3 | 1 | 12 |
| Long Island Rail Road | 8 | 0 | 0 | 0 | 2 | 0 | 10 | 62 | 0 | 1 | 0 | 16 | 0 | 79 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Metro North Commuter Railroad Company | 6 | 0 | 0 | 0 | 1 | 0 | 7 | 46 | 0 | 2 | 0 | 3 | 0 | 51 |
| Montana Rail Link | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 26 | 0 | 0 | 1 | 0 | 0 | 27 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 18 | 1 | 0 | 21 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 1 | 1 | 1 | 0 | 6 |
| Northeast Illinois Regional Commuter | 2 | 0 | 19 | 0 | 1 | 0 | 22 | 9 | 0 | 3 | 3 | 12 | 0 | 27 |
| New Jersey Transit Rail Operations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 11 | 0 | 1 | 1 | 46 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 0 | 11 |
| Port Authority Trans Hudson | 7 | 0 | 0 | 1 | 0 | 0 | 8 | 11 | 0 | 0 | 1 | 0 | 0 | 12 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| Port Terminal Railroad Association | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 12 | 0 | 0 | 10 | 0 | 0 | 22 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| River Terminal Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 30 | 0 | 9 | 0 | 12 | 2 | 53 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 8 | 0 | 0 | 11 |
| Southern Pacific, Chicago-St. Louis | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 3 | 0 | 0 | 13 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 8 | 0 | 0 | 32 | 1 | 0 | 41 |
| Wheeling & Lake Erie Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 15 | 0 | 0 | 19 |
| Total Group II Railroads **..... | 31 | 0 | 19 | 6 | 7 | 0 | 63 | 350 | 0 | 32 | 138 | 58 | 4 | 582 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | | | |
| Class I Railroads | 241 | 11 | 32 | 77 | 11 | 0 | 372 | 2,327 | 5 | 46 | 1,355 | 606 | 14 | 4,353 |
| Group II Railroads ** | 31 | 0 | 19 | 6 | 7 | 0 | 63 | 350 | 0 | 32 | 138 | 58 | 4 | 582 |
| All Other Railroads | 10 | 0 | 1 | 10 | 3 | 1 | 25 | 191 | 0 | 18 | 137 | 18 | 3 | 367 |
| Total All Railroads | 282 | 11 | 52 | 93 | 21 | 1 | 460 | 2,868 | 5 | 96 | 1,630 | 682 | 21 | 5,302 |

** Group II Railroads: railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Non-trespasser
 TRES = Trespasser
 CONTR = Contractor

TABLE 39. (CONTINUED)

| Railroad | << NON - TRAIN INCIDENTS >> | | | | | | | <<.....T O T A L S.....>> | | | | | | |
|---|-----------------------------|------|------|------|------|-------|--------|---------------------------|------|------|-------|------|-------|--------|
| | Eod | Enod | Psgr | Nont | Tres | Contr | Total | Eod | Enod | Psgr | Nont | Tres | Contr | Total |
| CLASS I RAILROADS | | | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 982 | 131 | 23 | 29 | 5 | 0 | 1,170 | 1,152 | 143 | 94 | 42 | 47 | 1 | 1,479 |
| Atchison, Topeka and Santa Fe Railway | 589 | 6 | 0 | 3 | 3 | 2 | 603 | 851 | 6 | 0 | 114 | 23 | 2 | 996 |
| Burlington Northern Railroad Company | 3,544 | 29 | 5 | 9 | 2 | 10 | 3,599 | 4,167 | 29 | 5 | 174 | 45 | 12 | 4,432 |
| Chicago and North Western Transport. | 331 | 4 | 24 | 17 | 0 | 0 | 376 | 374 | 4 | 29 | 53 | 14 | 0 | 474 |
| Consolidated Rail Corporation | 1,311 | 36 | 0 | 12 | 6 | 25 | 1,390 | 1,532 | 36 | 0 | 101 | 80 | 25 | 1,774 |
| CSX Transportation | 1,011 | 22 | 0 | 5 | 7 | 1 | 1,046 | 1,196 | 22 | 0 | 243 | 99 | 4 | 1,564 |
| Delaware and Hudson Railway Company | 67 | 0 | 0 | 0 | 0 | 0 | 67 | 70 | 0 | 0 | 0 | 9 | 0 | 79 |
| Denver and Rio Grande Western RR | 103 | 0 | 0 | 0 | 1 | 0 | 104 | 125 | 0 | 0 | 4 | 1 | 0 | 130 |
| Florida East Coast Railway Company | 9 | 0 | 0 | 2 | 1 | 2 | 14 | 12 | 0 | 0 | 8 | 20 | 2 | 42 |
| Grand Trunk Western Railroad Company | 222 | 3 | 0 | 0 | 3 | 1 | 229 | 266 | 3 | 1 | 35 | 13 | 1 | 319 |
| Illinois Central Railroad Company | 172 | 1 | 0 | 5 | 0 | 0 | 178 | 204 | 1 | 0 | 77 | 6 | 0 | 288 |
| Kansas City Southern Railway Company | 48 | 0 | 0 | 0 | 0 | 0 | 48 | 77 | 0 | 0 | 27 | 1 | 0 | 105 |
| Louisiana & Arkansas Railway Company | 13 | 0 | 0 | 2 | 0 | 0 | 15 | 23 | 0 | 0 | 29 | 3 | 0 | 55 |
| Norfolk Southern Corporation | 616 | 15 | 2 | 15 | 5 | 68 | 721 | 713 | 15 | 3 | 203 | 73 | 70 | 1,077 |
| Soo Line Railroad Company | 505 | 10 | 0 | 1 | 0 | 0 | 516 | 600 | 10 | 0 | 47 | 11 | 0 | 668 |
| Southern Pacific Transportation Co. | 861 | 6 | 4 | 4 | 5 | 0 | 880 | 1,078 | 10 | 4 | 161 | 89 | 0 | 1,362 |
| St. Louis Southwestern Railway Co. | 120 | 2 | 0 | 0 | 0 | 0 | 122 | 144 | 2 | 0 | 21 | 5 | 0 | 172 |
| Springfield Terminal Railway Company | 58 | 0 | 0 | 0 | 0 | 0 | 58 | 65 | 0 | 0 | 0 | 1 | 1 | 67 |
| Union Pacific Railroad Company | 1,789 | 40 | 0 | 50 | 5 | 11 | 1,895 | 2,270 | 40 | 0 | 247 | 120 | 16 | 2,693 |
| Total Class I Railroads..... | 12,351 | 305 | 58 | 154 | 43 | 120 | 13,031 | 14,919 | 321 | 136 | 1,586 | 660 | 134 | 17,756 |
| GROUP II RAILROADS ** | | | | | | | | | | | | | | |
| Alton & Southern Railroad | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| Alaska Railroad Corporation | 51 | 2 | 0 | 0 | 0 | 0 | 53 | 56 | 2 | 5 | 0 | 1 | 0 | 64 |
| Bangor and Aroostook Railroad | 29 | 0 | 0 | 0 | 0 | 0 | 29 | 32 | 0 | 0 | 1 | 0 | 0 | 33 |
| Bessemer & Lake Erie Railroad Company | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 2 | 0 | 0 | 16 |
| Belt Railway Company Of Chicago | 11 | 2 | 0 | 0 | 0 | 0 | 13 | 12 | 2 | 0 | 0 | 0 | 0 | 14 |
| Birmingham Southern Railroad Company | 19 | 1 | 0 | 0 | 0 | 0 | 20 | 25 | 1 | 0 | 1 | 0 | 0 | 27 |
| Chicago, Central & Pacific RR Co. | 57 | 0 | 0 | 0 | 0 | 0 | 57 | 59 | 0 | 0 | 17 | 4 | 0 | 80 |
| Cuyahoga Valley Railway Company | 26 | 0 | 0 | 0 | 0 | 0 | 26 | 35 | 0 | 0 | 0 | 0 | 0 | 35 |
| Dakota, Minnesota & Eastern Railroad | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 27 | 0 | 0 | 2 | 0 | 0 | 29 |
| Duluth, Missabe and Iron Range Rwy | 40 | 0 | 0 | 14 | 0 | 0 | 54 | 42 | 0 | 0 | 16 | 0 | 0 | 58 |
| Elgin, Joliet and Eastern Railway Co. | 35 | 0 | 0 | 0 | 0 | 1 | 36 | 45 | 0 | 0 | 2 | 0 | 1 | 48 |
| Fox River Valley Railroad Corporation | 28 | 0 | 0 | 0 | 0 | 0 | 28 | 32 | 0 | 0 | 5 | 1 | 0 | 38 |
| Gateway Western Railway | 24 | 0 | 0 | 0 | 0 | 0 | 24 | 27 | 0 | 0 | 6 | 1 | 0 | 34 |
| Houston Belt & Terminal Railway Co. | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 22 | 0 | 0 | 4 | 1 | 0 | 27 |
| Indiana Harbor Belt Railroad Company | 48 | 1 | 0 | 1 | 1 | 1 | 52 | 55 | 1 | 0 | 2 | 4 | 2 | 64 |
| Long Island Rail Road | 926 | 15 | 10 | 29 | 3 | 0 | 983 | 996 | 15 | 11 | 29 | 21 | 0 | 1,072 |
| Monongahela Railway Company | 32 | 0 | 0 | 0 | 0 | 0 | 32 | 38 | 0 | 0 | 0 | 0 | 0 | 38 |
| Metro North Commuter Railroad Company | 581 | 11 | 13 | 18 | 3 | 17 | 643 | 633 | 11 | 15 | 18 | 7 | 17 | 701 |
| Montana Rail Link | 83 | 0 | 0 | 0 | 0 | 0 | 83 | 110 | 0 | 0 | 1 | 0 | 0 | 111 |
| Midsouth Rail Corporation | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 0 | 0 | 18 | 1 | 0 | 27 |
| Northern Indiana Transport. Commuter | 22 | 0 | 13 | 6 | 2 | 0 | 43 | 25 | 0 | 14 | 8 | 3 | 0 | 50 |
| Northeast Illinois Regional Commuter | 112 | 3 | 42 | 17 | 4 | 2 | 180 | 123 | 3 | 64 | 20 | 17 | 2 | 229 |
| New Jersey Transit Rail Operations | 207 | 5 | 40 | 45 | 4 | 3 | 304 | 240 | 5 | 51 | 45 | 5 | 4 | 350 |
| Paducah & Louisville Railway Company | 26 | 0 | 0 | 0 | 0 | 0 | 26 | 32 | 0 | 0 | 5 | 0 | 0 | 37 |
| Port Authority Trans Hudson | 191 | 0 | 0 | 74 | 0 | 0 | 265 | 209 | 0 | 0 | 76 | 0 | 0 | 285 |
| Pittsburgh & Lake Erie Railroad Co. | 28 | 0 | 0 | 0 | 0 | 0 | 28 | 32 | 0 | 0 | 0 | 0 | 0 | 32 |
| Port Terminal Railroad Association | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 19 | 0 | 0 | 11 | 0 | 0 | 30 |
| Richmond, Fredericksburg and Potomac | 27 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 27 |
| River Terminal Railway Company | 5 | 0 | 0 | 0 | 0 | 1 | 6 | 6 | 0 | 0 | 0 | 0 | 1 | 7 |
| Southeastern Pennsylvania Transport. | 164 | 0 | 42 | 15 | 4 | 0 | 225 | 196 | 0 | 51 | 15 | 19 | 2 | 283 |
| Southrail Corporation | 8 | 0 | 0 | 1 | 0 | 0 | 9 | 11 | 0 | 0 | 9 | 0 | 0 | 20 |
| Southern Pacific, Chicago-St. Louis | 18 | 0 | 0 | 0 | 0 | 0 | 18 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| Texas Mexican Railway Company | 23 | 0 | 0 | 0 | 0 | 0 | 23 | 33 | 0 | 0 | 3 | 0 | 0 | 36 |
| Terminal Railroad Assoc. of St. Louis | 17 | 0 | 0 | 0 | 0 | 0 | 17 | 20 | 0 | 0 | 0 | 0 | 0 | 20 |
| Union Railroad Company (Pittsburgh) | 22 | 0 | 0 | 0 | 0 | 0 | 22 | 24 | 0 | 0 | 0 | 0 | 0 | 24 |
| Wisconsin Central Ltd. (also Railway) | 68 | 0 | 0 | 0 | 0 | 0 | 68 | 76 | 0 | 0 | 33 | 1 | 0 | 110 |
| Wheeling & Lake Erie Railway Company | 25 | 0 | 0 | 0 | 0 | 0 | 25 | 30 | 0 | 0 | 15 | 0 | 0 | 45 |
| Total Group II Railroads **..... | 3,034 | 40 | 160 | 220 | 21 | 25 | 3,500 | 3,415 | 40 | 211 | 364 | 86 | 29 | 4,145 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | | | |
| Class I Railroads | 12,351 | 305 | 58 | 154 | 43 | 120 | 13,031 | 14,919 | 321 | 136 | 1,586 | 660 | 134 | 17,756 |
| Group II Railroads ** | 3,034 | 40 | 160 | 220 | 21 | 25 | 3,500 | 3,415 | 40 | 211 | 364 | 86 | 29 | 4,145 |
| All Other Railroads | 1,091 | 1 | 16 | 13 | 2 | 52 | 1,175 | 1,292 | 1 | 35 | 160 | 23 | 56 | 1,567 |
| Total All Railroads | 16,476 | 346 | 234 | 387 | 66 | 197 | 17,706 | 19,626 | 362 | 382 | 2,110 | 769 | 219 | 23,468 |

** Group II Railroads: railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

EOD = Employee on duty
 ENOD = Employee not on duty
 PSGR = Passenger on train
 NONT = Non-trespasser
 TRES = Trespasser
 CONTR = Contractor

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

| Railroad | <<.....AMPUTATIONS.....>> | | | | | | <<.....FRACTURES.....>> | | | | | |
|---|---------------------------|--------|--------------|-----|---------------|-------|-------------------------|--------|--------------|-----|---------------|-------|
| | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total |
| CLASS I RAILROADS | | | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 1 | 0 | 0 | 0 | 1 | 12 | 18 | 19 | 11 | 14 | 74 |
| Atchison, Topeka and Santa Fe Railway | 0 | 2 | 0 | 0 | 0 | 2 | 10 | 26 | 14 | 14 | 12 | 76 |
| Burlington Northern Railroad Company | 0 | 4 | 2 | 1 | 1 | 8 | 19 | 63 | 46 | 19 | 37 | 184 |
| Chicago and North Western Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 9 | 6 | 4 | 4 | 29 |
| Consolidated Rail Corporation | 1 | 1 | 1 | 1 | 0 | 4 | 15 | 40 | 18 | 9 | 14 | 96 |
| CSX Transportation | 0 | 3 | 2 | 1 | 0 | 6 | 26 | 22 | 26 | 5 | 19 | 98 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |
| Denver and Rio Grande Western RR | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 1 | 8 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| Grand Trunk Western Railroad Company | 0 | 0 | 1 | 0 | 0 | 1 | 5 | 4 | 3 | 0 | 3 | 15 |
| Illinois Central Railroad Company | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 15 | 6 | 1 | 6 | 32 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 5 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Norfolk Southern Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 23 | 12 | 8 | 14 | 67 |
| Soo Line Railroad Company | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 18 | 11 | 3 | 4 | 40 |
| Southern Pacific Transportation Co. | 0 | 2 | 0 | 0 | 0 | 2 | 18 | 11 | 14 | 3 | 15 | 61 |
| St. Louis Southwestern Railway Co. | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 2 | 3 | 0 | 2 | 12 |
| Springfield Terminal Railway Company | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 3 | 1 | 1 | 1 | 9 |
| Union Pacific Railroad Company | 0 | 0 | 3 | 1 | 0 | 4 | 12 | 60 | 32 | 15 | 27 | 146 |
| Total Class I Railroads..... | 1 | 17 | 9 | 4 | 1 | 32 | 151 | 320 | 215 | 94 | 177 | 957 |
| GROUP II RAILROADS ** | | | | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 1 | 7 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Belt Railway Company Of Chicago | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 5 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 3 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Indiana Harbor Belt Railroad Company | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 2 | 6 |
| Long Island Rail Road | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 5 | 3 | 4 | 22 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Metro North Commuter Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 3 | 6 | 3 | 25 |
| Montana Rail Link | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 5 | 1 | 0 | 0 | 9 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 3 | 10 |
| New Jersey Transit Rail Operations | 0 | 1 | 0 | 0 | 0 | 1 | 6 | 6 | 4 | 3 | 2 | 21 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| Port Authority Trans Hudson | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 6 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 3 |
| Port Terminal Railroad Association | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 7 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| Texas Mexican Railway Company | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 | 7 |
| Wheeling & Lake Erie Railway Company | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 3 |
| Total Group II Railroads **..... | 0 | 6 | 1 | 0 | 0 | 7 | 36 | 58 | 34 | 22 | 23 | 173 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | | | |
| Class I Railroads | 1 | 17 | 9 | 4 | 1 | 32 | 151 | 320 | 215 | 94 | 177 | 957 |
| Group II Railroads ** | 0 | 6 | 1 | 0 | 0 | 7 | 36 | 58 | 34 | 22 | 23 | 173 |
| All Other Railroads | 0 | 1 | 2 | 1 | 0 | 4 | 15 | 24 | 26 | 10 | 18 | 93 |
| Total All Railroads | 1 | 24 | 12 | 5 | 1 | 43 | 202 | 402 | 275 | 126 | 218 | 1,223 |

** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

TABLE 40. (CONTINUED)

| Railroad | <<..... OTHER INJURIES>> | | | | | | | | | TOTALS |
|--|--------------------------------|-------------------|-------|--------------|----------------|------------------|------------------|-------|--------|--------|
| | Bruise | Sprain/ Strain | Cut | Elec Burn | Other Burns | Dislo- cation | Object in-eye | Other | Total | |
| CLASS I RAILROADS | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 228 | 482 | 146 | 9 | 13 | 6 | 47 | 144 | 1,075 | 1,150 |
| Atchison, Topeka and Santa Fe Railway | 134 | 408 | 90 | 4 | 10 | 5 | 41 | 57 | 749 | 827 |
| Burlington Northern Railroad Company | 497 | 2,324 | 332 | 2 | 38 | 13 | 228 | 258 | 3,692 | 3,884 |
| Chicago and North Western Transport. | 27 | 218 | 43 | 2 | 4 | 1 | 24 | 15 | 334 | 363 |
| Consolidated Rail Corporation | 277 | 752 | 141 | 3 | 16 | 5 | 75 | 110 | 1,379 | 1,479 |
| CSX Transportation | 196 | 634 | 112 | 2 | 11 | 7 | 28 | 90 | 1,080 | 1,184 |
| Delaware and Hudson Railway Company | 21 | 26 | 9 | 0 | 2 | 0 | 4 | 5 | 67 | 70 |
| Denver and Rio Grande Western RR | 20 | 74 | 10 | 1 | 1 | 0 | 6 | 5 | 117 | 125 |
| Florida East Coast Railway Company | 1 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 10 | 12 |
| Grand Trunk Western Railroad Company | 52 | 150 | 18 | 0 | 3 | 0 | 10 | 17 | 250 | 266 |
| Illinois Central Railroad Company | 36 | 84 | 30 | 0 | 3 | 3 | 8 | 2 | 166 | 199 |
| Kansas City Southern Railway Company | 9 | 43 | 9 | 0 | 1 | 0 | 5 | 5 | 72 | 77 |
| Louisiana & Arkansas Railway Company | 3 | 10 | 2 | 0 | 0 | 0 | 1 | 6 | 22 | 22 |
| Norfolk Southern Corporation | 104 | 324 | 114 | 1 | 12 | 3 | 21 | 62 | 641 | 708 |
| Soo Line Railroad Company | 92 | 322 | 53 | 3 | 7 | 1 | 25 | 39 | 542 | 583 |
| Southern Pacific Transportation Co. | 186 | 523 | 130 | 5 | 14 | 7 | 46 | 62 | 973 | 1,036 |
| St. Louis Southwestern Railway Co. | 16 | 75 | 20 | 1 | 2 | 1 | 4 | 9 | 128 | 141 |
| Springfield Terminal Railway Company | 11 | 27 | 8 | 0 | 0 | 0 | 4 | 5 | 55 | 65 |
| Union Pacific Railroad Company | 284 | 1,180 | 203 | 0 | 23 | 10 | 13 | 286 | 1,999 | 2,149 |
| Total Class I Railroads..... | 2,194 | 7,658 | 1,476 | 34 | 160 | 62 | 590 | 1,177 | 13,351 | 14,340 |
| GROUP II RAILROADS ** | | | | | | | | | | |
| Alton & Southern Railroad | 2 | 14 | 1 | 0 | 0 | 0 | 1 | 1 | 19 | 21 |
| Alaska Railroad Corporation | 8 | 21 | 8 | 0 | 0 | 0 | 8 | 3 | 48 | 55 |
| Bangor and Aroostook Railroad | 5 | 17 | 5 | 0 | 0 | 0 | 1 | 1 | 29 | 31 |
| Bessemer & Lake Erie Railroad Company | 1 | 9 | 2 | 0 | 0 | 0 | 0 | 1 | 13 | 14 |
| Belt Railway Company Of Chicago | 1 | 1 | 3 | 0 | 0 | 0 | 1 | 1 | 7 | 12 |
| Birmingham Southern Railroad Company | 3 | 13 | 2 | 0 | 0 | 0 | 4 | 2 | 24 | 25 |
| Chicago, Central & Pacific RR Co. | 10 | 34 | 3 | 0 | 1 | 1 | 3 | 3 | 55 | 59 |
| Cuyahoga Valley Railway Company | 10 | 13 | 4 | 0 | 2 | 0 | 2 | 0 | 31 | 35 |
| Dakota, Minnesota & Eastern Railroad | 6 | 9 | 3 | 0 | 0 | 1 | 1 | 3 | 23 | 26 |
| Duluth, Missabe and Iron Range Rwy | 4 | 24 | 5 | 0 | 2 | 1 | 3 | 1 | 40 | 42 |
| Elgin, Joliet and Eastern Railway Co. | 16 | 14 | 5 | 0 | 3 | 3 | 1 | 0 | 42 | 44 |
| Fox River Valley Railroad Corporation | 3 | 16 | 7 | 0 | 0 | 0 | 2 | 1 | 29 | 32 |
| Gateway Western Railway | 6 | 13 | 4 | 0 | 0 | 0 | 0 | 3 | 26 | 26 |
| Houston Belt & Terminal Railway Co. | 2 | 17 | 1 | 0 | 0 | 0 | 1 | 0 | 21 | 22 |
| Indiana Harbor Belt Railroad Company | 14 | 24 | 8 | 0 | 0 | 0 | 0 | 2 | 48 | 55 |
| Long Island Rail Road | 192 | 528 | 79 | 27 | 11 | 5 | 73 | 41 | 956 | 978 |
| Monongahela Railway Company | 5 | 22 | 2 | 0 | 1 | 0 | 4 | 2 | 36 | 38 |
| Metro North Commuter Railroad Company | 135 | 261 | 71 | 21 | 3 | 12 | 38 | 33 | 574 | 599 |
| Montana Rail Link | 6 | 58 | 11 | 0 | 0 | 0 | 16 | 8 | 99 | 109 |
| Midsouth Rail Corporation | 2 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 7 | 8 |
| Northern Indiana Transport. Commuter | 8 | 5 | 5 | 0 | 0 | 1 | 1 | 5 | 25 | 25 |
| Northeast Illinois Regional Commuter | 18 | 64 | 15 | 1 | 0 | 0 | 8 | 7 | 113 | 123 |
| New Jersey Transit Rail Operations | 35 | 82 | 46 | 1 | 1 | 0 | 15 | 29 | 209 | 231 |
| Paducah & Louisville Railway Company | 4 | 16 | 2 | 0 | 0 | 0 | 2 | 4 | 28 | 31 |
| Port Authority Trans Hudson | 75 | 76 | 18 | 5 | 2 | 1 | 9 | 16 | 202 | 208 |
| Pittsburgh & Lake Erie Railroad Co. | 8 | 11 | 2 | 0 | 1 | 0 | 4 | 2 | 28 | 32 |
| Port Terminal Railroad Association | 1 | 10 | 2 | 0 | 0 | 0 | 1 | 2 | 16 | 18 |
| Richmond, Fredericksburg and Potomac | 6 | 17 | 2 | 0 | 0 | 0 | 1 | 0 | 26 | 27 |
| River Terminal Railway Company | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | 6 |
| Southeastern Pennsylvania Transport. | 48 | 82 | 21 | 0 | 0 | 0 | 12 | 26 | 189 | 196 |
| Southrail Corporation | 1 | 1 | 4 | 0 | 0 | 0 | 2 | 2 | 10 | 11 |
| Southern Pacific, Chicago-St. Louis | 5 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 20 | 22 |
| Texas Mexican Railway Company | 11 | 9 | 2 | 0 | 1 | 0 | 6 | 2 | 31 | 33 |
| Terminal Railroad Assoc. of St. Louis | 9 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 16 | 20 |
| Union Railroad Company (Pittsburgh) | 0 | 10 | 5 | 0 | 0 | 0 | 4 | 5 | 24 | 24 |
| Wisconsin Central Ltd. (also Railway) | 12 | 31 | 10 | 0 | 2 | 0 | 8 | 5 | 68 | 76 |
| Wheeling & Lake Erie Railway Company | 2 | 9 | 7 | 1 | 0 | 0 | 3 | 2 | 24 | 28 |
| Total Group II Railroads **..... | 676 | 1,555 | 369 | 56 | 32 | 26 | 235 | 213 | 3,162 | 3,342 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | |
| Class I Railroads | 2,194 | 7,658 | 1,476 | 34 | 160 | 62 | 590 | 1,177 | 13,351 | 14,340 |
| Group II Railroads ** | 676 | 1,555 | 369 | 56 | 32 | 26 | 235 | 213 | 3,162 | 3,342 |
| All Other Railroads | 234 | 502 | 174 | 5 | 27 | 10 | 130 | 102 | 1,184 | 1,281 |
| Total All Railroads | 3,104 | 9,715 | 2,019 | 95 | 219 | 98 | 955 | 1,492 | 17,697 | 18,963 |

** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

TABLE 41. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

| Railroad | < COLLISIONS > | | < DERAILMENTS > | | <...OTHER...> | | < T O T A L S > | | Rate* | Train Miles |
|--|----------------|-----|-----------------|-----|----------------|-----|-----------------|-----|-------|-------------|
| | Killed/Injured | | Killed/Injured | | Killed/Injured | | Killed/Injured | | | |
| CLASS I RAILROADS | | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 3 | 8 | 53 | 5 | 7 | 13 | 63 | 1.96 | 38,779,087 |
| Atchison, Topeka and Santa Fe Railway | 0 | 2 | 0 | 1 | 2 | 4 | 2 | 7 | 0.21 | 42,269,713 |
| Burlington Northern Railroad Company | 4 | 20 | 1 | 18 | 3 | 19 | 8 | 57 | 0.75 | 87,050,758 |
| Chicago and North Western Transport. | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 4 | 0.25 | 16,301,204 |
| Consolidated Rail Corporation | 0 | 12 | 0 | 7 | 1 | 10 | 1 | 29 | 0.72 | 41,843,704 |
| CSX Transportation | 0 | 15 | 0 | 13 | 3 | 10 | 3 | 38 | 0.59 | 69,771,321 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 1,469,576 |
| Denver and Rio Grande Western RR | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 0.78 | 5,148,122 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0.31 | 3,247,689 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 5,175,051 |
| Illinois Central Railroad Company | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0.40 | 7,541,892 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0.24 | 4,230,131 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 2,007,963 |
| Norfolk Southern Corporation | 1 | 11 | 0 | 3 | 0 | 9 | 1 | 23 | 0.53 | 45,495,885 |
| Soo Line Railroad Company | 0 | 4 | 0 | 1 | 2 | 5 | 2 | 10 | 1.16 | 10,362,376 |
| Southern Pacific Transportation Co. | 0 | 7 | 1 | 57 | 2 | 11 | 3 | 75 | 2.28 | 34,173,785 |
| St. Louis Southwestern Railway Co. | 0 | 3 | 0 | 0 | 1 | 7 | 1 | 10 | 1.27 | 8,653,697 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1.88 | 1,061,921 |
| Union Pacific Railroad Company | 0 | 12 | 0 | 12 | 7 | 23 | 7 | 47 | 0.68 | 79,048,979 |
| Total Class I Railroads..... | 5 | 90 | 10 | 169 | 28 | 113 | 43 | 372 | 0.82 | 503,632,854 |
| GROUP II RAILROADS ** | | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 671,141 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 959,025 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2.52 | 396,306 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 247,222 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 449,672 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 4.82 | 207,540 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0.99 | 1,008,126 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 317,904 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1.53 | 651,977 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 887,229 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 1,450,058 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 1,297,563 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 779,738 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 686,821 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 1,098,490 |
| Long Island Rail Road | 0 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 1.22 | 8,184,190 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 246,406 |
| Metro North Commuter Railroad Company | 0 | 0 | 0 | 0 | 1 | 7 | 1 | 7 | 1.12 | 7,159,111 |
| Montana Rail Link | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0.26 | 3,783,742 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 836,747 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1.46 | 682,938 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 1 | 22 | 1 | 22 | 7.57 | 3,037,860 |
| New Jersey Transit Rail Operations | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 6,648,126 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 655,025 |
| Port Authority Trans Hudson | 0 | 1 | 0 | 0 | 0 | 7 | 0 | 8 | 5.12 | 1,563,273 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 137,909 |
| Port Terminal Railroad Association | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 2.52 | 793,296 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 622,679 |
| River Terminal Railway Company | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3.12 | 320,520 |
| Southeastern Pennsylvania Transport. | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 1.02 | 4,924,725 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 429,927 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0.86 | 1,159,894 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 262,151 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 522,237 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 312,252 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0.40 | 2,493,787 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1.92 | 521,852 |
| Total Group II Railroads **..... | 0 | 9 | 0 | 2 | 3 | 52 | 3 | 63 | 1.17 | 56,407,459 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | | |
| Class I Railroads | 5 | 90 | 10 | 169 | 28 | 113 | 43 | 372 | 0.82 | 503,632,854 |
| Group II Railroads ** | 0 | 9 | 0 | 2 | 3 | 52 | 3 | 63 | 1.17 | 56,407,459 |
| All Other Railroads | 0 | 4 | 0 | 3 | 3 | 18 | 3 | 25 | 1.67 | 16,794,577 |
| Total All Railroads | 5 | 103 | 10 | 174 | 34 | 183 | 49 | 460 | 0.88 | 576,834,890 |

* NOTE: Injured columns include non-fatal occupational illnesses.

Rate is frequency per 1,000,000 train miles.

** GROUP II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

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

| Railroad | I. Exec Office Staff II. Prof, Clerical, Gen Killed/Injured/Illness | | | III. Maintenance of Way & Structures Killed/Injured/Illness | | | IV. Maintenance of Equipment & Stores Killed/Injured/Illness | | |
|---|---|-----|----|---|-------|-----|--|-------|-----|
| | | | | | | | | | |
| CLASS I RAILROADS | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 81 | 0 | 0 | 260 | 1 | 0 | 390 | 1 |
| Atchison, Topeka and Santa Fe Railway | 0 | 29 | 1 | 1 | 251 | 7 | 0 | 207 | 5 |
| Burlington Northern Railroad Company | 0 | 113 | 10 | 1 | 1,095 | 59 | 0 | 802 | 137 |
| Chicago and North Western Transport. | 0 | 6 | 1 | 0 | 122 | 6 | 0 | 81 | 2 |
| Consolidated Rail Corporation | 0 | 84 | 2 | 0 | 337 | 6 | 0 | 311 | 10 |
| CSX Transportation | 0 | 60 | 0 | 0 | 308 | 3 | 0 | 297 | 7 |
| Delaware and Hudson Railway Company | 0 | 4 | 0 | 0 | 35 | 0 | 0 | 8 | 0 |
| Denver and Rio Grande Western RR | 0 | 2 | 0 | 1 | 30 | 0 | 0 | 23 | 0 |
| Florida East Coast Railway Company | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 6 | 0 |
| Grand Trunk Western Railroad Company | 0 | 17 | 0 | 0 | 38 | 0 | 0 | 82 | 0 |
| Illinois Central Railroad Company | 0 | 3 | 0 | 0 | 67 | 2 | 1 | 28 | 1 |
| Kansas City Southern Railway Company | 0 | 1 | 0 | 0 | 20 | 0 | 0 | 13 | 0 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 1 | 0 |
| Norfolk Southern Corporation | 1 | 31 | 0 | 0 | 189 | 2 | 1 | 208 | 2 |
| Soo Line Railroad Company | 0 | 12 | 5 | 0 | 287 | 4 | 0 | 67 | 1 |
| Southern Pacific Transportation Co. | 0 | 83 | 4 | 1 | 274 | 11 | 0 | 267 | 10 |
| St. Louis Southwestern Railway Co. | 0 | 9 | 0 | 0 | 38 | 1 | 0 | 33 | 0 |
| Springfield Terminal Railway Company | 0 | 1 | 0 | 0 | 24 | 0 | 0 | 21 | 0 |
| Union Pacific Railroad Company | 2 | 120 | 53 | 1 | 532 | 26 | 0 | 419 | 19 |
| Total Class I Railroads..... | 3 | 656 | 76 | 5 | 3,918 | 128 | 2 | 3,264 | 195 |
| GROUP II RAILROADS ** | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 |
| Alaska Railroad Corporation | 0 | 5 | 0 | 0 | 20 | 1 | 0 | 15 | 0 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 14 | 1 | 0 | 9 | 0 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 3 | 0 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 |
| Birmingham Southern Railroad Company | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 9 | 0 |
| Chicago, Central & Pacific RR Co. | 0 | 2 | 0 | 0 | 17 | 0 | 0 | 20 | 0 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 10 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 |
| Duluth, Missabe and Iron Range Rwy | 0 | 1 | 0 | 0 | 13 | 0 | 0 | 21 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 8 | 0 |
| Fox River Valley Railroad Corporation | 0 | 1 | 0 | 0 | 13 | 0 | 0 | 3 | 0 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 9 | 1 | 0 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 7 | 0 |
| Indiana Harbor Belt Railroad Company | 0 | 4 | 0 | 0 | 13 | 0 | 0 | 12 | 0 |
| Long Island Rail Road | 0 | 82 | 1 | 0 | 283 | 12 | 0 | 358 | 3 |
| Monongahela Railway Company | 0 | 3 | 0 | 0 | 23 | 0 | 0 | 5 | 0 |
| Metro North Commuter Railroad Company | 0 | 102 | 4 | 1 | 211 | 1 | 0 | 163 | 3 |
| Montana Rail Link | 0 | 2 | 0 | 0 | 29 | 0 | 0 | 17 | 0 |
| Midsouth Rail Corporation | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Northern Indiana Transport. Commuter | 0 | 1 | 0 | 0 | 16 | 0 | 0 | 4 | 0 |
| Northeast Illinois Regional Commuter | 0 | 20 | 0 | 0 | 24 | 0 | 0 | 57 | 0 |
| New Jersey Transit Rail Operations | 0 | 28 | 1 | 0 | 91 | 7 | 0 | 37 | 0 |
| Paducah & Louisville Railway Company | 0 | 2 | 0 | 0 | 7 | 0 | 0 | 9 | 0 |
| Port Authority Trans Hudson | 0 | 11 | 0 | 0 | 64 | 1 | 0 | 55 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 1 | 0 | 0 | 11 | 0 | 0 | 12 | 0 |
| Port Terminal Railroad Association | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Richmond, Fredericksburg and Potomac | 0 | 3 | 0 | 0 | 8 | 0 | 0 | 8 | 0 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 7 | 0 | 0 | 60 | 0 | 1 | 34 | 0 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 | 0 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 |
| Texas Mexican Railway Company | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 11 | 0 |
| Terminal Railroad Assoc. of St. Louis | 0 | 1 | 0 | 0 | 12 | 0 | 0 | 1 | 0 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 7 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 2 | 0 | 0 | 17 | 0 | 0 | 27 | 0 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 10 | 2 | 0 | 7 | 0 |
| Total Group II Railroads **..... | 0 | 288 | 6 | 1 | 1,050 | 26 | 1 | 944 | 6 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | |
| Class I Railroads | 3 | 656 | 76 | 5 | 3,918 | 128 | 2 | 3,264 | 195 |
| Group II Railroads ** | 0 | 288 | 6 | 1 | 1,050 | 26 | 1 | 944 | 6 |
| All Other Railroads | 0 | 19 | 0 | 0 | 466 | 3 | 0 | 344 | 3 |
| Total All Railroads | 3 | 963 | 82 | 6 | 5,434 | 157 | 3 | 4,552 | 204 |

** GROUP II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

TABLE 42. (CONTINUED)

| Railroad | V. Transportation Non-train & Engine Killed/Injured/Illness | | | VI. Transportation Train & Engine Killed/Injured/Illness | | |
|---------------------------------------|---|-----|----|--|-------|-----|
| | | | | | | |
| CLASS I RAILROADS | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 234 | 0 | 0 | 185 | 0 |
| Atchison, Topeka and Santa Fe Railway | 0 | 5 | 1 | 0 | 335 | 10 |
| Burlington Northern Railroad Company | 0 | 41 | 13 | 4 | 1,833 | 64 |
| Chicago and North Western Transport. | 0 | 14 | 0 | 1 | 140 | 2 |
| Consolidated Rail Corporation | 0 | 31 | 0 | 3 | 716 | 35 |
| CSX Transportation | 0 | 21 | 0 | 3 | 498 | 2 |
| Delaware and Hudson Railway Company | 0 | 0 | 0 | 0 | 23 | 0 |
| Denver and Rio Grande Western RR | 0 | 3 | 0 | 2 | 67 | 0 |
| Florida East Coast Railway Company | 0 | 2 | 0 | 0 | 1 | 0 |
| Grand Trunk Western Railroad Company | 0 | 2 | 0 | 0 | 127 | 0 |
| Illinois Central Railroad Company | 0 | 2 | 0 | 1 | 99 | 2 |
| Kansas City Southern Railway Company | 0 | 0 | 0 | 0 | 43 | 0 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 13 | 1 |
| Norfolk Southern Corporation | 0 | 16 | 0 | 3 | 264 | 1 |
| Soo Line Railroad Company | 0 | 9 | 0 | 1 | 208 | 7 |
| Southern Pacific Transportation Co. | 0 | 8 | 0 | 0 | 404 | 17 |
| St. Louis Southwestern Railway Co. | 0 | 0 | 0 | 0 | 61 | 2 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 0 | 19 | 0 |
| Union Pacific Railroad Company | 0 | 14 | 1 | 2 | 1,064 | 22 |
| Total Class I Railroads..... | 0 | 402 | 15 | 20 | 6,100 | 165 |

GROUP II RAILROADS **

| | | | | | | |
|---------------------------------------|---|----|----|---|-----|----|
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 17 | 1 |
| Alaska Railroad Corporation | 0 | 6 | 0 | 0 | 9 | 0 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 8 | 0 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 1 | 0 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 5 | 0 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 12 | 0 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 0 | 20 | 0 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 18 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 16 | 1 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0 | 0 | 0 | 7 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 3 | 1 | 0 | 19 | 0 |
| Fox River Valley Railroad Corporation | 0 | 1 | 0 | 0 | 14 | 0 |
| Gateway Western Railway | 0 | 1 | 0 | 0 | 16 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 6 | 0 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 26 | 0 |
| Long Island Rail Road | 0 | 16 | 0 | 1 | 239 | 2 |
| Monongahela Railway Company | 0 | 1 | 0 | 0 | 6 | 0 |
| Metro North Commuter Railroad Company | 0 | 1 | 8 | 1 | 122 | 18 |
| Montana Rail Link | 0 | 0 | 1 | 0 | 61 | 0 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 4 | 0 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 4 | 0 |
| Northeast Illinois Regional Commuter | 0 | 2 | 0 | 0 | 20 | 0 |
| New Jersey Transit Rail Operations | 0 | 1 | 0 | 0 | 74 | 1 |
| Paducah & Louisville Railway Company | 0 | 0 | 0 | 0 | 13 | 1 |
| Port Authority Trans Hudson | 0 | 6 | 0 | 0 | 72 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 1 | 0 | 0 | 7 | 0 |
| Port Terminal Railroad Association | 0 | 0 | 0 | 0 | 13 | 1 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 8 | 0 |
| River Terminal Railway Company | 0 | 1 | 0 | 0 | 4 | 0 |
| Southeastern Pennsylvania Transport. | 0 | 28 | 0 | 0 | 67 | 0 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 5 | 0 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 11 | 0 |
| Texas Mexican Railway Company | 0 | 0 | 0 | 0 | 17 | 0 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 1 | 6 | 0 |
| Union Railroad Company (Pittsburgh) | 0 | 1 | 0 | 0 | 3 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 3 | 0 | 0 | 27 | 0 |
| Wheeling & Lake Erie Railway Company | 0 | 2 | 0 | 0 | 9 | 0 |
| Total Group II Railroads **..... | 0 | 74 | 10 | 3 | 986 | 25 |

RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS)

| | | | | | | |
|-----------------------|---|-----|----|----|-------|-----|
| Class I Railroads | 0 | 402 | 15 | 20 | 6,100 | 165 |
| Group II Railroads ** | 0 | 74 | 10 | 3 | 986 | 25 |
| All Other Railroads | 0 | 45 | 0 | 0 | 407 | 5 |
| Total All Railroads | 0 | 521 | 25 | 23 | 7,493 | 195 |

** GROUP II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

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

| Railroad | Fatalities | | Injuries | | Illnesses | | T O T A L | | Employee Manhours |
|--|------------|-------|----------|-------|-----------|-------|-----------|-------|----------------------|
| | # | Rate* | # | Rate* | # | Rate* | # | Rate* | |
| CLASS I RAILROADS | | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 0.00 | 1,150 | 4.91 | 2 | 0.01 | 1,152 | 4.92 | 46,796,553 |
| Atchison, Topeka and Santa Fe Railway | 1 | 0.01 | 827 | 6.17 | 24 | 0.18 | 852 | 6.36 | 26,796,510 |
| Burlington Northern Railroad Company | 5 | 0.02 | 3,884 | 12.99 | 283 | 0.95 | 4,172 | 13.95 | 59,817,501 |
| Chicago and North Western Transport. | 1 | 0.01 | 363 | 5.17 | 11 | 0.16 | 375 | 5.34 | 14,042,970 |
| Consolidated Rail Corporation | 3 | 0.01 | 1,479 | 6.35 | 53 | 0.23 | 1,535 | 6.59 | 46,612,224 |
| CSX Transportation | 3 | 0.01 | 1,184 | 3.80 | 12 | 0.04 | 1,199 | 3.85 | 62,261,619 |
| Delaware and Hudson Railway Company | 0 | 0.00 | 70 | 8.76 | 0 | 0.00 | 70 | 8.76 | 1,598,092 |
| Denver and Rio Grande Western RR | 3 | 0.13 | 125 | 5.34 | 0 | 0.00 | 128 | 5.47 | 4,682,741 |
| Florida East Coast Railway Company | 0 | 0.00 | 12 | 1.20 | 0 | 0.00 | 12 | 1.20 | 1,997,873 |
| Grand Trunk Western Railroad Company | 0 | 0.00 | 266 | 9.08 | 0 | 0.00 | 266 | 9.08 | 5,855,854 |
| Illinois Central Railroad Company | 2 | 0.05 | 199 | 5.27 | 5 | 0.13 | 206 | 5.46 | 7,549,272 |
| Kansas City Southern Railway Company | 0 | 0.00 | 77 | 7.65 | 0 | 0.00 | 77 | 7.65 | 2,012,917 |
| Louisiana & Arkansas Railway Company | 0 | 0.00 | 22 | 2.44 | 1 | 0.11 | 23 | 2.55 | 1,806,756 |
| Norfolk Southern Corporation | 5 | 0.02 | 708 | 2.77 | 5 | 0.02 | 718 | 2.81 | 51,109,140 |
| Soo Line Railroad Company | 1 | 0.02 | 583 | 12.63 | 17 | 0.37 | 601 | 13.02 | 9,231,594 |
| Southern Pacific Transportation Co. | 1 | 0.01 | 1,036 | 6.41 | 42 | 0.26 | 1,079 | 6.67 | 32,336,650 |
| St. Louis Southwestern Railway Co. | 0 | 0.00 | 141 | 6.16 | 3 | 0.13 | 144 | 6.29 | 4,580,473 |
| Springfield Terminal Railway Company | 0 | 0.00 | 65 | 5.43 | 0 | 0.00 | 65 | 5.43 | 2,393,537 |
| Union Pacific Railroad Company | 5 | 0.02 | 2,149 | 7.23 | 121 | 0.41 | 2,275 | 7.65 | 59,439,382 |
| Total Class I Railroads..... | 30 | 0.01 | 14,340 | 6.50 | 579 | 0.26 | 14,949 | 6.78 | 440,921,658 |
| GROUP II RAILROADS ** | | | | | | | | | |
| Alton & Southern Railroad | 0 | 0.00 | 21 | 5.92 | 1 | 0.28 | 22 | 6.20 | 709,128 |
| Alaska Railroad Corporation | 0 | 0.00 | 55 | 9.52 | 1 | 0.17 | 56 | 9.69 | 1,155,782 |
| Bangor and Aroostook Railroad | 0 | 0.00 | 31 | 9.68 | 1 | 0.31 | 32 | 9.99 | 640,562 |
| Bessemer & Lake Erie Railroad Company | 0 | 0.00 | 14 | 3.36 | 0 | 0.00 | 14 | 3.36 | 834,286 |
| Belt Railway Company Of Chicago | 0 | 0.00 | 12 | 3.80 | 0 | 0.00 | 12 | 3.80 | 631,428 |
| Birmingham Southern Railroad Company | 0 | 0.00 | 25 | 11.21 | 0 | 0.00 | 25 | 11.21 | 445,956 |
| Chicago, Central & Pacific RR Co. | 0 | 0.00 | 59 | 11.46 | 0 | 0.00 | 59 | 11.46 | 1,030,025 |
| Cuyahoga Valley Railway Company | 0 | 0.00 | 35 | 15.86 | 0 | 0.00 | 35 | 15.86 | 441,367 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0.00 | 26 | 10.82 | 1 | 0.42 | 27 | 11.24 | 480,466 |
| Duluth, Missabe and Iron Range Rwy | 0 | 0.00 | 42 | 5.55 | 0 | 0.00 | 42 | 5.55 | 1,513,496 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0.00 | 44 | 4.26 | 1 | 0.10 | 45 | 4.36 | 2,065,060 |
| Fox River Valley Railroad Corporation | 0 | 0.00 | 32 | 11.73 | 0 | 0.00 | 32 | 11.73 | 545,545 |
| Gateway Western Railway | 0 | 0.00 | 26 | 11.09 | 1 | 0.43 | 27 | 11.52 | 468,891 |
| Houston Belt & Terminal Railway Co. | 0 | 0.00 | 22 | 4.89 | 0 | 0.00 | 22 | 4.89 | 900,094 |
| Indiana Harbor Belt Railroad Company | 0 | 0.00 | 55 | 6.12 | 0 | 0.00 | 55 | 6.12 | 1,798,164 |
| Long Island Rail Road | 1 | 0.02 | 978 | 15.03 | 18 | 0.28 | 997 | 15.32 | 13,012,673 |
| Monongahela Railway Company | 0 | 0.00 | 38 | 15.81 | 0 | 0.00 | 38 | 15.81 | 480,614 |
| Metro North Commuter Railroad Company | 2 | 0.04 | 599 | 10.96 | 34 | 0.62 | 635 | 11.62 | 10,927,437 |
| Montana Rail Link | 0 | 0.00 | 109 | 10.76 | 1 | 0.10 | 110 | 10.85 | 2,026,760 |
| Midsouth Rail Corporation | 0 | 0.00 | 8 | 1.95 | 0 | 0.00 | 8 | 1.95 | 819,119 |
| Northern Indiana Transport. Commuter | 0 | 0.00 | 25 | 11.92 | 0 | 0.00 | 25 | 11.92 | 419,292 |
| Northeast Illinois Regional Commuter | 0 | 0.00 | 123 | 5.82 | 0 | 0.00 | 123 | 5.82 | 4,228,647 |
| New Jersey Transit Rail Operations | 0 | 0.00 | 231 | 5.90 | 9 | 0.23 | 240 | 6.13 | 7,826,852 |
| Paducah & Louisville Railway Company | 0 | 0.00 | 31 | 8.94 | 1 | 0.29 | 32 | 9.23 | 693,603 |
| Port Authority Trans Hudson | 0 | 0.00 | 208 | 15.27 | 1 | 0.07 | 209 | 15.35 | 2,723,476 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0.00 | 32 | 12.74 | 0 | 0.00 | 32 | 12.74 | 502,331 |
| Port Terminal Railroad Association | 0 | 0.00 | 18 | 4.93 | 1 | 0.27 | 19 | 5.20 | 730,152 |
| Richmond, Fredericksburg and Potomac | 0 | 0.00 | 27 | 6.21 | 0 | 0.00 | 27 | 6.21 | 869,491 |
| River Terminal Railway Company | 0 | 0.00 | 6 | 2.93 | 0 | 0.00 | 6 | 2.93 | 409,331 |
| Southeastern Pennsylvania Transport. | 1 | 0.06 | 196 | 10.86 | 0 | 0.00 | 197 | 10.91 | 3,611,008 |
| Southrail Corporation | 0 | 0.00 | 11 | 3.99 | 0 | 0.00 | 11 | 3.99 | 551,707 |
| Southern Pacific, Chicago-St. Louis | 0 | 0.00 | 22 | 8.03 | 0 | 0.00 | 22 | 8.03 | 548,070 |
| Texas Mexican Railway Company | 0 | 0.00 | 33 | 14.51 | 0 | 0.00 | 33 | 14.51 | 454,731 |
| Terminal Railroad Assoc. of St. Louis | 1 | 0.25 | 20 | 5.10 | 0 | 0.00 | 21 | 5.35 | 784,656 |
| Union Railroad Company (Pittsburgh) | 0 | 0.00 | 24 | 8.10 | 0 | 0.00 | 24 | 8.10 | 592,659 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0.00 | 76 | 6.70 | 0 | 0.00 | 76 | 6.70 | 2,267,411 |
| Wheeling & Lake Erie Railway Company | 0 | 0.00 | 28 | 8.46 | 2 | 0.60 | 30 | 9.06 | 662,040 |
| Total Group II Railroads **..... | 5 | 0.01 | 3,342 | 9.71 | 73 | 0.21 | 3,420 | 9.94 | 68,802,310 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | | |
| Class I Railroads | 30 | 0.01 | 14,340 | 6.50 | 579 | 0.26 | 14,949 | 6.78 | 440,921,658 |
| Group II Railroads ** | 5 | 0.01 | 3,342 | 9.71 | 73 | 0.21 | 3,420 | 9.94 | 68,802,310 |
| All Other Railroads | 0 | 0.00 | 1,281 | 12.24 | 11 | 0.11 | 1,292 | 12.34 | 20,936,792 |
| Total All Railroads | 35 | 0.01 | 18,963 | 7.15 | 663 | 0.25 | 19,661 | 7.41 | 530,660,760 |

* NOTE: Rate is frequency per 200,000 manhours.

** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

TABLE 44. SUMMARY OF NONFATAL INJURIES TO EMPLOYEES ON DUTY BY RAILROAD

| Railroad | TOTAL CASES* | <CASES with DAYS-AWAY-FROM-WORK or DAYS-OF-RESTRICTION> | | | | | Other Cases |
|--|-----------------|---|-------------------|---------------------|----------------------|---------------------|----------------|
| | | < Total Cases | Lost-Day Cases | Restricted Cases | Away-fr-work Days | Restricted> Days | |
| CLASS I RAILROADS | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 1,150 | 894 | 869 | 25 | 49,471 | 932 | 256 |
| Atchison, Topeka and Santa Fe Railway | 827 | 603 | 477 | 126 | 24,433 | 7,576 | 224 |
| Burlington Northern Railroad Company | 3,884 | 3,305 | 2,887 | 418 | 151,429 | 18,467 | 579 |
| Chicago and North Western Transport. | 363 | 269 | 268 | 1 | 16,063 | 10 | 94 |
| Consolidated Rail Corporation | 1,479 | 1,249 | 1,219 | 30 | 106,923 | 744 | 230 |
| CSX Transportation | 1,184 | 1,034 | 1,019 | 15 | 95,271 | 792 | 150 |
| Delaware and Hudson Railway Company | 70 | 45 | 18 | 27 | 1,073 | 225 | 25 |
| Denver and Rio Grande Western RR | 125 | 101 | 80 | 21 | 1,798 | 350 | 24 |
| Florida East Coast Railway Company | 12 | 5 | 2 | 3 | 20 | 93 | 7 |
| Grand Trunk Western Railroad Company | 266 | 198 | 179 | 19 | 4,378 | 230 | 68 |
| Illinois Central Railroad Company | 199 | 131 | 129 | 2 | 3,127 | 61 | 68 |
| Kansas City Southern Railway Company | 77 | 54 | 54 | 0 | 2,059 | 0 | 23 |
| Louisiana & Arkansas Railway Company | 22 | 17 | 17 | 0 | 550 | 0 | 5 |
| Norfolk Southern Corporation | 708 | 550 | 486 | 64 | 34,982 | 1,621 | 158 |
| Soo Line Railroad Company | 583 | 439 | 327 | 112 | 9,497 | 2,338 | 144 |
| Southern Pacific Transportation Co. | 1,036 | 801 | 721 | 80 | 54,499 | 1,676 | 235 |
| St. Louis Southwestern Railway Co. | 141 | 114 | 101 | 13 | 10,631 | 128 | 27 |
| Springfield Terminal Railway Company | 65 | 49 | 30 | 19 | 2,090 | 232 | 16 |
| Union Pacific Railroad Company | 2,149 | 1,675 | 1,356 | 319 | 84,850 | 10,636 | 474 |
| Total Class I Railroads..... | 14,340 | 11,533 | 10,239 | 1,294 | 653,144 | 46,111 | 2,807 |
| GROUP II RAILROADS ** | | | | | | | |
| Alton & Southern Railroad | 21 | 19 | 17 | 2 | 896 | 160 | 2 |
| Alaska Railroad Corporation | 55 | 32 | 20 | 12 | 342 | 527 | 23 |
| Bangor and Aroostook Railroad | 31 | 23 | 22 | 1 | 426 | 75 | 8 |
| Bessemer & Lake Erie Railroad Company | 14 | 6 | 5 | 1 | 47 | 2 | 8 |
| Belt Railway Company Of Chicago | 12 | 11 | 8 | 3 | 286 | 26 | 1 |
| Birmingham Southern Railroad Company | 25 | 19 | 7 | 12 | 294 | 139 | 6 |
| Chicago, Central & Pacific RR Co. | 59 | 50 | 39 | 11 | 494 | 128 | 9 |
| Cuyahoga Valley Railway Company | 35 | 32 | 28 | 4 | 1,059 | 80 | 3 |
| Dakota, Minnesota & Eastern Railroad | 26 | 17 | 17 | 0 | 227 | 25 | 9 |
| Duluth, Missabe and Iron Range Rwy | 42 | 28 | 6 | 22 | 95 | 276 | 14 |
| Elgin, Joliet and Eastern Railway Co. | 44 | 22 | 5 | 17 | 39 | 345 | 22 |
| Fox River Valley Railroad Corporation | 32 | 23 | 21 | 2 | 174 | 35 | 9 |
| Gateway Western Railway | 26 | 21 | 19 | 2 | 1,185 | 30 | 5 |
| Houston Belt & Terminal Railway Co. | 22 | 15 | 15 | 0 | 355 | 0 | 7 |
| Indiana Harbor Belt Railroad Company | 55 | 49 | 39 | 10 | 1,164 | 192 | 6 |
| Long Island Rail Road | 978 | 954 | 951 | 3 | 22,148 | 330 | 24 |
| Monongahela Railway Company | 38 | 31 | 31 | 0 | 654 | 0 | 7 |
| Metro North Commuter Railroad Company | 599 | 465 | 320 | 145 | 10,219 | 2,546 | 134 |
| Montana Rail Link | 109 | 66 | 60 | 6 | 1,330 | 1,503 | 43 |
| Midsouth Rail Corporation | 8 | 6 | 5 | 1 | 378 | 85 | 2 |
| Northern Indiana Transport. Commuter | 25 | 13 | 12 | 1 | 155 | 3 | 12 |
| Northeast Illinois Regional Commuter | 123 | 105 | 105 | 0 | 1,196 | 0 | 18 |
| New Jersey Transit Rail Operations | 231 | 166 | 153 | 13 | 3,868 | 330 | 65 |
| Paducah & Louisville Railway Company | 31 | 20 | 17 | 3 | 105 | 34 | 11 |
| Port Authority Trans Hudson | 208 | 208 | 208 | 0 | 3,746 | 1 | 0 |
| Pittsburgh & Lake Erie Railroad Co. | 32 | 14 | 13 | 1 | 681 | 10 | 18 |
| Port Terminal Railroad Association | 18 | 16 | 15 | 1 | 1,180 | 32 | 2 |
| Richmond, Fredericksburg and Potomac | 27 | 23 | 23 | 0 | 768 | 0 | 4 |
| River Terminal Railway Company | 6 | 3 | 2 | 1 | 100 | 3 | 3 |
| Southeastern Pennsylvania Transport. | 196 | 172 | 172 | 0 | 4,149 | 0 | 24 |
| Southern Pacific, Chicago-St. Louis | 11 | 5 | 4 | 1 | 296 | 11 | 6 |
| Texas Mexican Railway Company | 22 | 16 | 15 | 1 | 2,041 | 15 | 6 |
| Terminal Railroad Assoc. of St. Louis | 33 | 30 | 24 | 6 | 543 | 59 | 3 |
| Union Railroad Company (Pittsburgh) | 20 | 13 | 13 | 0 | 642 | 40 | 7 |
| Wisconsin Central Ltd. (also Railway) | 24 | 7 | 5 | 2 | 162 | 15 | 17 |
| Wheeling & Lake Erie Railway Company | 76 | 47 | 44 | 3 | 738 | 301 | 29 |
| Wheeler & Lake Erie Railway Company | 28 | 12 | 12 | 0 | 157 | 61 | 16 |
| TOTAL GROUP II RAILROADS..... | 3,342 | 2,759 | 2,472 | 287 | 62,339 | 7,419 | 583 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | |
| Class I Railroads | 14,340 | 11,533 | 10,239 | 1,294 | 653,144 | 46,111 | 2,807 |
| Group II Railroads ** | 3,342 | 2,759 | 2,472 | 287 | 62,339 | 7,419 | 583 |
| All Other Railroads | 1,281 | 722 | 596 | 126 | 11,368 | 3,173 | 559 |
| Total All Railroads | 18,963 | 15,014 | 13,307 | 1,707 | 726,851 | 56,703 | 3,949 |

* Note: The above cases exclude occupational illness cases.

In cases where lost-days and restricted-days are reported, count is added only to lost-day column.

** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

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

| Railroad | TOTAL CASES | Fatal- ities | < INJURY <Total <Injuries | C A S E S Days-Away From-Work | REPORTED FOR FOLLOWING REASONS > Restricted Activity | Medi- cation | Medical Treatment> | Occupational Illnesses |
|---|----------------|-----------------|---------------------------------|-------------------------------------|---|-----------------|-----------------------|---------------------------|
| CLASS I RAILROADS | | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 1,152 | 0 | 1,150 | 869 | 25 | 91 | 165 | 2 |
| Atchison, Topeka and Santa Fe Railway | 852 | 1 | 827 | 477 | 126 | 56 | 168 | 24 |
| Burlington Northern Railroad Company | 4,172 | 5 | 3,884 | 2,887 | 418 | 19 | 560 | 283 |
| Chicago and North Western Transport. | 375 | 1 | 363 | 268 | 1 | 38 | 56 | 11 |
| Consolidated Rail Corporation | 1,535 | 3 | 1,479 | 1,219 | 30 | 72 | 158 | 53 |
| CSX Transportation | 1,199 | 3 | 1,184 | 1,019 | 15 | 54 | 96 | 12 |
| Delaware and Hudson Railway Company | 70 | 0 | 70 | 18 | 27 | 10 | 15 | 0 |
| Denver and Rio Grande Western RR | 128 | 3 | 125 | 80 | 21 | 0 | 24 | 0 |
| Florida East Coast Railway Company | 12 | 0 | 12 | 2 | 3 | 2 | 5 | 0 |
| Grand Trunk Western Railroad Company | 266 | 0 | 266 | 179 | 19 | 49 | 19 | 0 |
| Illinois Central Railroad Company | 206 | 2 | 199 | 129 | 2 | 32 | 36 | 5 |
| Kansas City Southern Railway Company | 77 | 0 | 77 | 54 | 0 | 0 | 23 | 0 |
| Louisiana & Arkansas Railway Company | 23 | 0 | 22 | 17 | 0 | 0 | 5 | 1 |
| Norfolk Southern Corporation | 718 | 5 | 708 | 486 | 64 | 15 | 143 | 5 |
| Soo Line Railroad Company | 601 | 1 | 583 | 327 | 112 | 42 | 102 | 17 |
| Southern Pacific Transportation Co. | 1,079 | 1 | 1,036 | 721 | 80 | 0 | 235 | 42 |
| St. Louis Southwestern Railway Co. | 144 | 0 | 141 | 101 | 13 | 0 | 27 | 3 |
| Springfield Terminal Railway Company | 65 | 0 | 65 | 30 | 19 | 9 | 7 | 0 |
| Union Pacific Railroad Company | 2,275 | 5 | 2,149 | 1,356 | 319 | 163 | 311 | 121 |
| Total Class I Railroads..... | 14,949 | 30 | 14,340 | 10,239 | 1,294 | 652 | 2,155 | 579 |
| GROUP II RAILROADS ** | | | | | | | | |
| Alton & Southern Railroad | 22 | 0 | 21 | 17 | 2 | 0 | 2 | 1 |
| Alaska Railroad Corporation | 56 | 0 | 55 | 20 | 12 | 8 | 15 | 1 |
| Bangor and Aroostook Railroad | 32 | 0 | 31 | 22 | 1 | 0 | 8 | 1 |
| Bessemer & Lake Erie Railroad Company | 14 | 0 | 14 | 5 | 1 | 5 | 3 | 0 |
| Belt Railway Company Of Chicago | 12 | 0 | 12 | 8 | 3 | 0 | 1 | 0 |
| Birmingham Southern Railroad Company | 25 | 0 | 25 | 7 | 12 | 1 | 5 | 0 |
| Chicago, Central & Pacific RR Co. | 59 | 0 | 59 | 39 | 11 | 4 | 5 | 0 |
| Cuyahoga Valley Railway Company | 35 | 0 | 35 | 28 | 4 | 0 | 3 | 0 |
| Dakota, Minnesota & Eastern Railroad | 27 | 0 | 26 | 17 | 0 | 0 | 9 | 1 |
| Duluth, Missabe and Iron Range Ry | 42 | 0 | 42 | 6 | 22 | 7 | 7 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 45 | 0 | 44 | 5 | 17 | 16 | 6 | 1 |
| Fox River Valley Railroad Corporation | 32 | 0 | 32 | 21 | 2 | 1 | 8 | 0 |
| Gateway Western Railway | 27 | 0 | 26 | 19 | 2 | 1 | 4 | 1 |
| Houston Belt & Terminal Railway Co. | 22 | 0 | 22 | 15 | 0 | 0 | 7 | 0 |
| Indiana Harbor Belt Railroad Company | 55 | 0 | 55 | 39 | 10 | 0 | 6 | 0 |
| Long Island Rail Road | 997 | 1 | 978 | 951 | 3 | 19 | 5 | 18 |
| Monongahela Railway Company | 38 | 0 | 38 | 31 | 0 | 3 | 4 | 0 |
| Metro North Commuter Railroad Company | 635 | 2 | 599 | 320 | 145 | 60 | 74 | 34 |
| Montana Rail Link | 110 | 0 | 109 | 60 | 6 | 12 | 31 | 1 |
| Midsouth Rail Corporation | 8 | 0 | 8 | 5 | 1 | 0 | 2 | 0 |
| Northern Indiana Transport Commuter | 25 | 0 | 25 | 12 | 1 | 6 | 6 | 0 |
| Northeast Illinois Regional Commuter | 123 | 0 | 123 | 105 | 0 | 2 | 16 | 0 |
| New Jersey Transit Rail Operations | 240 | 0 | 231 | 153 | 13 | 23 | 42 | 9 |
| Paducah & Louisville Railway Company | 32 | 0 | 31 | 17 | 3 | 0 | 11 | 1 |
| Port Authority Trans Hudson | 209 | 0 | 208 | 208 | 0 | 0 | 0 | 1 |
| Pittsburgh & Lake Erie Railroad Co | 32 | 0 | 32 | 13 | 1 | 18 | 0 | 0 |
| Port Terminal Railroad Association | 19 | 0 | 18 | 15 | 1 | 2 | 0 | 1 |
| Richmond, Fredericksburg and Potomac | 27 | 0 | 27 | 23 | 0 | 0 | 4 | 0 |
| River Terminal Railway Company | 6 | 0 | 6 | 2 | 1 | 0 | 3 | 0 |
| Southeastern Pennsylvania Transport | 197 | 1 | 196 | 172 | 0 | 0 | 24 | 0 |
| Southrail Corporation | 11 | 0 | 11 | 4 | 1 | 1 | 5 | 0 |
| Southern Pacific, Chicago-St. Louis | 22 | 0 | 22 | 15 | 1 | 0 | 6 | 0 |
| Texas Mexican Railway Company | 33 | 0 | 33 | 24 | 6 | 0 | 3 | 0 |
| Terminal Railroad Assoc. of St. Louis | 21 | 1 | 20 | 13 | 0 | 0 | 7 | 0 |
| Union Railroad Company (Pittsburgh) | 24 | 0 | 24 | 5 | 2 | 9 | 8 | 0 |
| Wisconsin Central Ltd. (also Railway) | 76 | 0 | 76 | 44 | 3 | 12 | 17 | 0 |
| Wheeling & Lake Erie Railway Company | 30 | 0 | 28 | 12 | 0 | 5 | 11 | 2 |
| TOTAL GROUP II RAILROADS..... | 3,420 | 5 | 3,342 | 2,472 | 287 | 215 | 368 | 73 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | | |
| Class I Railroads | 14,949 | 30 | 14,340 | 10,239 | 1,294 | 652 | 2,155 | 579 |
| Group II Railroads ** | 3,420 | 5 | 3,342 | 2,472 | 287 | 215 | 368 | 73 |
| All Other Railroads | 1,292 | 0 | 1,281 | 596 | 126 | 68 | 491 | 11 |
| Total All Railroads | 19,661 | 35 | 18,963 | 13,307 | 1,707 | 935 | 3,014 | 663 |

Note: In cases where lost-days and restricted-days are reported, count is added only to days-away-from-work column.
 ** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

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7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

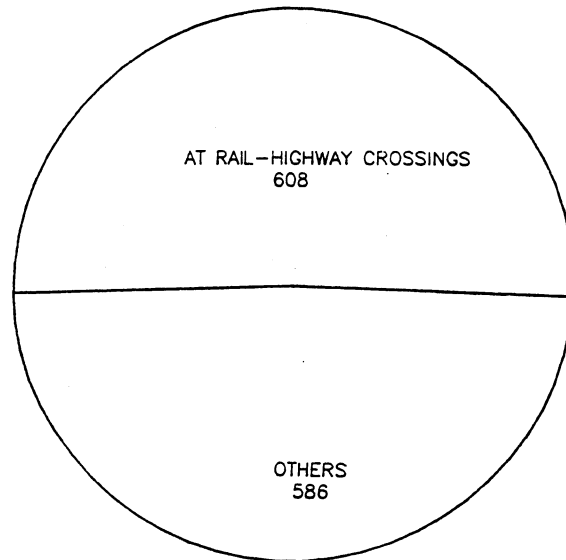


FIGURE 28. FATALITIES: RAIL-HIGHWAY CROSSINGS AND OTHER

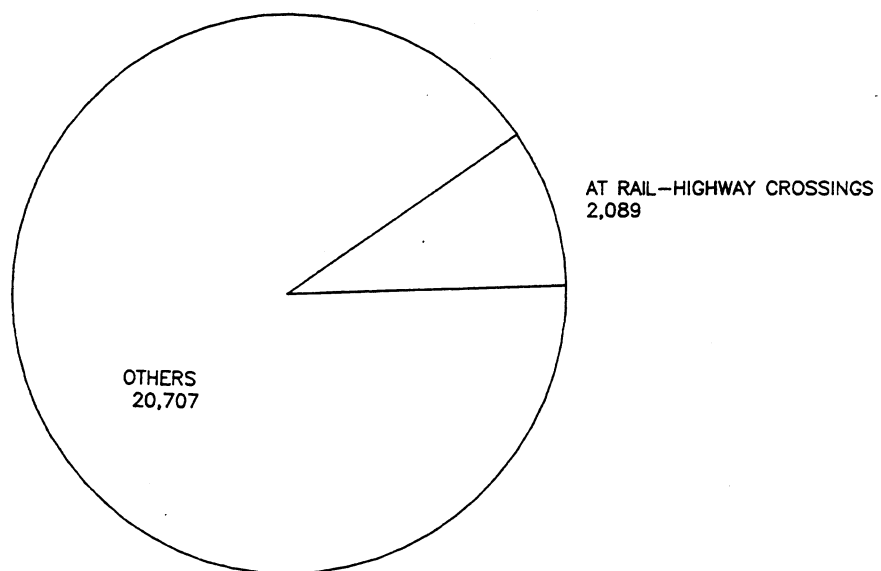


FIGURE 29. INJURIES: RAIL-HIGHWAY CROSSINGS AND OTHER

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

| Type of Accident/Incident | TOTAL* A/I | Fatal A/I | Total Killed | <EMPLOYEES-ON-DUTY> Trmmen/Other/Total | | | Enod | Pegr | Nont | Contr | Tres |
|--|---------------|--------------|-----------------|---|----|----|------|------|------|-------|------|
| TRAIN ACCIDENTS | | | | | | | | | | | |
| Class I Railroads | 95 | 8 | 18 | 8 | 0 | 8 | 0 | 8 | 0 | 0 | 2 |
| Group II Railroads ** | 14 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 115 | 9 | 19 | 9 | 0 | 9 | 0 | 8 | 0 | 0 | 2 |
| TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 3,119 | 471 | 477 | 9 | 1 | 10 | 1 | 0 | 12 | 3 | 451 |
| Group II Railroads ** | 484 | 58 | 58 | 2 | 1 | 3 | 0 | 0 | 1 | 0 | 54 |
| All Other Railroads | 202 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Total All Railroads | 3,805 | 533 | 539 | 11 | 2 | 13 | 1 | 0 | 13 | 3 | 509 |
| NON-TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 12,781 | 20 | 21 | 2 | 9 | 11 | 0 | 0 | 3 | 0 | 7 |
| Group II Railroads ** | 3,501 | 6 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| All Other Railroads | 1,167 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total All Railroads | 17,449 | 27 | 28 | 2 | 10 | 12 | 0 | 0 | 3 | 0 | 13 |
| HIGHWAY-RAIL CROSSING (Excluded from above categories) | | | | | | | | | | | |
| Class I Railroads | 1,664 | 463 | 561 | 1 | 0 | 1 | 0 | 0 | 435 | 0 | 125 |
| Group II Railroads ** | 137 | 22 | 31 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 12 |
| All Other Railroads | 132 | 14 | 16 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 2 |
| Total All Railroads | 1,933 | 499 | 608 | 1 | 0 | 1 | 0 | 0 | 468 | 0 | 139 |
| T O T A L S | | | | | | | | | | | |
| Class I Railroads | 17,659 | 962 | 1,077 | 20 | 10 | 30 | 1 | 8 | 450 | 3 | 585 |
| Group II Railroads ** | 4,136 | 87 | 96 | 3 | 2 | 5 | 0 | 0 | 20 | 0 | 71 |
| All Other Railroads | 1,507 | 19 | 21 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 7 |
| Total All Railroads | 23,302 | 1,068 | 1,194 | 23 | 12 | 35 | 1 | 8 | 484 | 3 | 663 |

* Note: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.
Column 2 is the count of accidents/incidents resulting in at least one fatality.

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

Enod = Employee not on duty
Pegr = Passenger on train
Nont = Non-trespasser
Tres = Trespasser
Contr = Contractor
Trmmen = Trainmen (Train & Engine: Jobcodes 601-623)

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

| Type of Accident/Incident | TOTAL* A/I | Injury A/I | Total Injured | <EMPLOYEES-ON-DUTY> Trnmn/Other/Total | | | Enod | Psg | Nont | Contr | Tres |
|--|---------------|---------------|------------------|--|--------|--------|------|-----|-------|-------|------|
| TRAIN ACCIDENTS | | | | | | | | | | | |
| Class I Railroads | 95 | 86 | 281 | 159 | 29 | 188 | 7 | 32 | 49 | 0 | 5 |
| Group II Railroads ** | 14 | 13 | 26 | 20 | 5 | 25 | 0 | 0 | 1 | 0 | 0 |
| All Other Railroads | 6 | 6 | 8 | 7 | 0 | 7 | 0 | 0 | 0 | 1 | 0 |
| Total All Railroads | 115 | 105 | 315 | 186 | 34 | 220 | 7 | 32 | 50 | 1 | 5 |
| TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 3,119 | 2,597 | 2,681 | 1,834 | 349 | 2,183 | 5 | 46 | 19 | 12 | 416 |
| Group II Railroads ** | 484 | 412 | 413 | 275 | 56 | 331 | 0 | 30 | 7 | 3 | 42 |
| All Other Railroads | 202 | 196 | 208 | 142 | 39 | 181 | 0 | 18 | 0 | 3 | 6 |
| Total All Railroads | 3,805 | 3,205 | 3,302 | 2,251 | 444 | 2,695 | 5 | 94 | 26 | 18 | 464 |
| NON-TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 12,781 | 12,256 | 12,488 | 3,994 | 7,851 | 11,845 | 302 | 58 | 123 | 118 | 42 |
| Group II Railroads ** | 3,501 | 3,440 | 3,444 | 684 | 2,295 | 2,979 | 40 | 160 | 219 | 25 | 21 |
| All Other Railroads | 1,167 | 1,157 | 1,158 | 250 | 832 | 1,082 | 1 | 16 | 5 | 52 | 2 |
| Total All Railroads | 17,449 | 16,853 | 17,090 | 4,928 | 10,978 | 15,906 | 343 | 234 | 347 | 195 | 65 |
| HIGHWAY-RAIL CROSSING (Excluded from above categories) | | | | | | | | | | | |
| Class I Railroads | 1,664 | 1,201 | 1,718 | 113 | 11 | 124 | 0 | 0 | 1,395 | 2 | 197 |
| Group II Railroads ** | 137 | 114 | 189 | 7 | 0 | 7 | 0 | 21 | 137 | 1 | 23 |
| All Other Railroads | 132 | 118 | 182 | 8 | 3 | 11 | 0 | 1 | 155 | 0 | 15 |
| Total All Railroads | 1,933 | 1,433 | 2,089 | 128 | 14 | 142 | 0 | 22 | 1,687 | 3 | 235 |
| T O T A L S | | | | | | | | | | | |
| Class I Railroads | 17,659 | 16,140 | 17,168 | 6,100 | 8,240 | 14,340 | 314 | 136 | 1,586 | 132 | 660 |
| Group II Railroads ** | 4,136 | 3,979 | 4,072 | 986 | 2,356 | 3,342 | 40 | 211 | 364 | 29 | 86 |
| All Other Railroads | 1,507 | 1,477 | 1,556 | 407 | 874 | 1,281 | 1 | 35 | 160 | 56 | 23 |
| Total All Railroads | 23,302 | 21,596 | 22,796 | 7,493 | 11,470 | 18,963 | 355 | 382 | 2,110 | 217 | 769 |

* Note: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.
Column 2 is the count of accidents/incidents resulting in reportable injury/injuries only.

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

Enod = Employee not on duty
Psg = Passenger on train
Nont = Non-trespasser
Tres = Trespasser
Contr = Contractor
Trnmn = Trainmen (Train & Engine: Jobcodes 601-623)

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

| Type of Accident/Incident | TOTAL* A/I | Illness A/I | Total Illness | <EMPLOYEES-ON-DUTY> Trmmen/Other/Total | | | Enod | Psgr | Nont | Contr | Tres |
|--|---------------|----------------|------------------|---|-----|-----|------|------|------|-------|------|
| ----- | | | | | | | | | | | |
| TRAIN ACCIDENTS | | | | | | | | | | | |
| Class I Railroads | 95 | 1 | 9 | 5 | 0 | 5 | 4 | 0 | 0 | 0 | 0 |
| Group II Railroads ** | 14 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 115 | 1 | 11 | 7 | 0 | 7 | 4 | 0 | 0 | 0 | 0 |
| TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 3,119 | 51 | 64 | 60 | 4 | 64 | 0 | 0 | 0 | 0 | 0 |
| Group II Railroads ** | 484 | 14 | 15 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 202 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 3,805 | 67 | 81 | 77 | 4 | 81 | 0 | 0 | 0 | 0 | 0 |
| NON-TRAIN INCIDENTS | | | | | | | | | | | |
| Class I Railroads | 12,781 | 505 | 511 | 96 | 410 | 506 | 3 | 0 | 0 | 2 | 0 |
| Group II Railroads ** | 3,501 | 55 | 55 | 7 | 48 | 55 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 1,167 | 9 | 9 | 3 | 6 | 9 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 17,449 | 569 | 575 | 106 | 464 | 570 | 3 | 0 | 0 | 2 | 0 |
| HIGHWAY-RAIL CROSSING (Excluded from above categories) | | | | | | | | | | | |
| Class I Railroads | 1,664 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| Group II Railroads ** | 137 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 1,933 | 1 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| T O T A L S | | | | | | | | | | | |
| Class I Railroads | 17,659 | 557 | 588 | 165 | 414 | 579 | 7 | 0 | 0 | 2 | 0 |
| Group II Railroads ** | 4,136 | 70 | 73 | 25 | 48 | 73 | 0 | 0 | 0 | 0 | 0 |
| All Other Railroads | 1,507 | 11 | 11 | 5 | 6 | 11 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 23,302 | 638 | 672 | 195 | 468 | 663 | 7 | 0 | 0 | 2 | 0 |

* Note: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.
Column 2 is the count of accidents/incidents resulting in at least one case of occupational illness.

** Group II Railroads: Railroads, excluding CLASS I, with annual accumulation of over 400,000 employee hours worked.

Enod = Employee not on duty
Psgr = Passenger on train
Nont = Non-trespasser
Tres = Trespasser
Contr = Contractor
Trmmen = Trainmen (Train & Engine: Jobcodes 601-623)

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

| Type of Accident/Incident | Amputations | | | | | | Fractures | | | | | |
|---|--------------|--------|--------------|-----|---------------|-------|--------------|--------|--------------|-----|---------------|-------|
| | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total |
| TRAIN ACCIDENTS | | | | | | | | | | | | |
| Collisions | --- | --- | --- | --- | --- | --- | --- | 1 | 2 | --- | 4 | 7 |
| Derailments | --- | 1 | --- | --- | --- | 1 | 2 | --- | 2 | --- | 2 | 6 |
| Rail-highway x-ing | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9 | 9 |
| Miscellaneous | --- | --- | --- | --- | --- | --- | 1 | --- | --- | --- | 3 | 4 |
| Total..... | --- | 1 | --- | --- | --- | 1 | 3 | 1 | 4 | --- | 18 | 26 |
| TRAIN INCIDENTS | | | | | | | | | | | | |
| Coupling and uncoupling locomotives or | --- | --- | --- | 1 | --- | 1 | 2 | 2 | --- | 4 | 5 | 13 |
| Coupling/uncoupling air/steam hose, saf | 1 | --- | --- | --- | --- | 1 | --- | --- | --- | --- | --- | --- |
| Operating on or on locomotives..... | --- | --- | --- | --- | --- | --- | 2 | 3 | 2 | 2 | 6 | 15 |
| Operating rail motorcars..... | --- | --- | 1 | --- | --- | 1 | --- | --- | --- | --- | --- | --- |
| Operating hand brakes..... | --- | --- | 2 | 1 | --- | 3 | 3 | 1 | 2 | --- | 3 | 9 |
| Operating switches or derails..... | --- | --- | 2 | --- | --- | 2 | --- | --- | --- | --- | --- | --- |
| Contacting fixed objects while on loco | --- | --- | --- | --- | --- | --- | --- | 1 | --- | --- | 5 | 6 |
| Getting on or off cars or locomotives. | 1 | --- | 16 | 2 | --- | 19 | 11 | 3 | 23 | 2 | 13 | 52 |
| Collisions, derailments, etc. (below \$ | 1 | --- | 5 | 1 | --- | 7 | 4 | --- | --- | 1 | 6 | 11 |
| Rail-highway crossing accidents/incide | 1 | 1 | 7 | --- | --- | 9 | 35 | 1 | 67 | --- | 113 | 216 |
| Struck by/ran into loco/car(not at rr- | 13 | 4 | 78 | 12 | --- | 107 | 26 | 1 | 25 | --- | 28 | 80 |
| Servicing or maintenance of equipment. | --- | --- | --- | --- | 1 | 1 | --- | --- | 2 | 1 | 2 | 5 |
| Maintenance of way and structures..... | --- | --- | --- | --- | --- | --- | 2 | 1 | 10 | 2 | 4 | 19 |
| Freight, baggage, express or mail..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equi | --- | 1 | --- | --- | --- | 1 | 2 | 22 | 1 | --- | --- | 25 |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, | 2 | --- | 6 | --- | --- | 8 | 3 | 2 | 17 | 1 | 14 | 37 |
| Flying or falling objects, burns, etc. | --- | --- | --- | --- | --- | --- | 1 | --- | 2 | --- | 1 | 4 |
| Operation of on-track work equipment... | --- | --- | --- | --- | --- | --- | 3 | --- | 2 | --- | --- | 5 |
| Assault..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 | 1 |
| Other occurrences..... | --- | 2 | 8 | --- | --- | 10 | 1 | 5 | 4 | 1 | 4 | 15 |
| Total..... | 19 | 8 | 124 | 18 | 1 | 170 | 95 | 42 | 157 | 14 | 205 | 513 |
| NONTRAIN INCIDENTS | | | | | | | | | | | | |
| Coupling and uncoupling locomotives or | --- | --- | --- | --- | --- | --- | 4 | 11 | 6 | 14 | --- | 35 |
| Coupling/uncoupling air/steam hose, saf | --- | --- | --- | --- | --- | --- | 2 | 2 | 2 | --- | 5 | 11 |
| Operating on or on locomotives..... | --- | 2 | --- | --- | --- | 2 | 3 | 6 | 2 | 2 | 6 | 19 |
| Operating rail motorcars..... | --- | --- | --- | --- | --- | --- | --- | 1 | --- | 1 | --- | 2 |
| Operating hand brakes..... | --- | 1 | --- | --- | --- | 1 | 5 | 6 | 6 | 2 | 4 | 23 |
| Operating switches or derails..... | --- | --- | --- | --- | --- | --- | 2 | 6 | 7 | 6 | 4 | 25 |
| Contacting fixed objects while on loco | --- | --- | --- | --- | --- | --- | 2 | --- | --- | --- | --- | 2 |
| Getting on or off cars or locomotives | --- | 1 | --- | --- | --- | 1 | 13 | 8 | 35 | 4 | 9 | 69 |
| Collisions, derailments, etc. (below \$ | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incide | --- | --- | --- | --- | --- | --- | 2 | --- | --- | --- | 3 | 5 |
| Struck by/ran into loco/car(not at rr- | --- | 1 | --- | --- | --- | 1 | --- | --- | --- | --- | 1 | 1 |
| Servicing or maintenance of equipment | --- | 6 | 1 | 2 | --- | 9 | 38 | 119 | 41 | 43 | 33 | 274 |
| Maintenance of way and structures | --- | 9 | --- | --- | --- | 9 | 53 | 172 | 85 | 35 | 50 | 395 |
| Freight, baggage, express or mail | --- | --- | --- | --- | --- | --- | --- | 3 | 2 | --- | 1 | 6 |
| Windows, doors, etc., on on-track equi | --- | 1 | --- | --- | --- | 1 | 5 | 18 | 2 | 2 | 2 | 29 |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, | --- | --- | --- | --- | --- | --- | 69 | 12 | 76 | 6 | 59 | 222 |
| Flying or falling objects, burns, etc. | --- | 1 | --- | --- | --- | 1 | --- | 2 | 2 | 2 | 1 | 7 |
| Operation of on-track work equipment | --- | --- | --- | --- | --- | --- | 1 | 2 | 1 | --- | 2 | 6 |
| Assault..... | --- | --- | --- | --- | --- | --- | 5 | 2 | 4 | 1 | 7 | 19 |
| Other occurrences..... | --- | 4 | --- | --- | --- | 4 | 15 | 15 | 17 | 8 | 28 | 83 |
| Total..... | --- | 24 | 3 | 2 | --- | 29 | 219 | 385 | 288 | 126 | 215 | 1,233 |
| Grand Total..... | 19 | 33 | 127 | 20 | 1 | 200 | 317 | 428 | 449 | 140 | 438 | 1,772 |

TABLE 49. (CONTINUED)

| Type of Accident/Incident | Other Injuries | | | | | | | | Total | Total Injured |
|---|----------------|-------------------|-------|---------------|----------------|-------------------|------------------|-------|--------|---------------|
| | Bruise | Sprain/ Strain | Cut | Elec. Burn | Other Burns | Disloc- Cation | Object In Eye | Other | | |
| TRAIN ACCIDENTS | | | | | | | | | | |
| Collisions | 27 | 46 | 10 | --- | 2 | --- | --- | 11 | 96 | 103 |
| Deraillments | 25 | 49 | 5 | --- | --- | --- | --- | 79 | 158 | 165 |
| Rail-highway x-ing | 35 | 41 | 22 | --- | 4 | 1 | --- | 21 | 124 | 133 |
| Miscellaneous | 14 | 19 | 6 | --- | --- | --- | --- | 4 | 43 | 47 |
| Total..... | 101 | 155 | 43 | --- | 6 | 1 | --- | 115 | 421 | 448 |
| TRAIN INCIDENTS | | | | | | | | | | |
| Coupling and uncoupling locomotives or | 35 | 108 | 13 | --- | 1 | 2 | 11 | 8 | 178 | 192 |
| Coupling/uncoupling air/steam hose, saf | 6 | 11 | 6 | --- | --- | 1 | 1 | 4 | 29 | 30 |
| Operating or on locomotives..... | 98 | 304 | 40 | 1 | 7 | 3 | 127 | 77 | 657 | 672 |
| Operating rail motorcars..... | 2 | 5 | 2 | --- | --- | --- | --- | 3 | 12 | 13 |
| Operating hand brakes..... | 25 | 50 | 9 | --- | --- | --- | --- | 2 | 86 | 98 |
| Operating switches or derails..... | 5 | 4 | 2 | --- | --- | --- | --- | 1 | 12 | 14 |
| Contacting fixed objects while on loco | 25 | 19 | 14 | --- | --- | 3 | 1 | 3 | 65 | 71 |
| Getting on or off cars or locomotives. | 140 | 334 | 39 | --- | --- | 4 | 2 | 15 | 534 | 605 |
| Collisions, derailments, etc. (below \$ | 27 | 58 | 11 | --- | --- | --- | --- | 9 | 105 | 123 |
| Rail-highway crossing accidents/incide | 401 | 206 | 429 | --- | 2 | 6 | 1 | 645 | 1,690 | 1,915 |
| Struck by/ran into loco/car(not at rr- | 49 | 19 | 80 | 1 | --- | 1 | 2 | 88 | 240 | 427 |
| Servicing or maintenance of equipment. | 10 | 28 | 4 | --- | 1 | --- | --- | 6 | 49 | 55 |
| Maintenance of way and structures..... | 35 | 23 | 13 | --- | --- | 1 | --- | 3 | 75 | 94 |
| Freight, baggage, express or mail..... | 1 | 6 | 1 | --- | --- | --- | --- | 2 | 10 | 10 |
| Windows, doors, etc., on on-track equi | 24 | 38 | 25 | --- | --- | 1 | 2 | 2 | 92 | 118 |
| Passenger car doors..... | 2 | 1 | 2 | --- | 1 | --- | --- | --- | 6 | 6 |
| Stumbling, slipping, falling, caught, | 46 | 94 | 17 | --- | --- | 3 | --- | 10 | 170 | 215 |
| Flying or falling objects, burns, etc. | 14 | 5 | 11 | 1 | 9 | --- | 67 | 44 | 151 | 155 |
| Operation of on-track work equipment.. | 21 | 44 | 6 | --- | --- | --- | --- | 6 | 77 | 82 |
| Assault..... | 16 | 9 | 23 | --- | --- | --- | 8 | 11 | 67 | 68 |
| Other occurrences..... | 67 | 103 | 24 | --- | 1 | --- | 4 | 30 | 229 | 254 |
| Total..... | 1,049 | 1,469 | 771 | 3 | 22 | 25 | 226 | 969 | 4,534 | 5,217 |
| NONTRAIN INCIDENTS | | | | | | | | | | |
| Coupling and uncoupling locomotives or | 53 | 282 | 27 | --- | --- | 3 | 4 | 15 | 384 | 419 |
| Coupling/uncoupling air/steam hose, saf | 59 | 107 | 42 | 1 | 3 | --- | 11 | 5 | 228 | 239 |
| Operating or on locomotives..... | 95 | 242 | 34 | 6 | 4 | 4 | 59 | 54 | 498 | 519 |
| Operating rail motorcars..... | 9 | 11 | 3 | --- | --- | --- | --- | 1 | 24 | 26 |
| Operating hand brakes..... | 39 | 279 | 17 | --- | 1 | 3 | 1 | 16 | 356 | 380 |
| Operating switches or derails..... | 70 | 843 | 17 | --- | --- | 2 | 2 | 29 | 963 | 988 |
| Contacting fixed objects while on loco | 12 | 6 | 4 | --- | --- | --- | 1 | --- | 23 | 25 |
| Getting on or off cars or locomotives. | 187 | 576 | 77 | 2 | 3 | 8 | 2 | 38 | 893 | 963 |
| Collisions, derailments, etc. (below \$ | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incide | 6 | 3 | 17 | --- | --- | --- | --- | 10 | 36 | 41 |
| Struck by/ran into loco/car(not at rr- | 2 | 1 | 5 | --- | 1 | --- | --- | 6 | 15 | 17 |
| Servicing or maintenance of equipment. | 571 | 1,682 | 493 | 39 | 99 | 15 | 319 | 336 | 3,554 | 3,837 |
| Maintenance of way and structures..... | 677 | 2,256 | 779 | 36 | 56 | 28 | 195 | 370 | 4,397 | 4,801 |
| Freight, baggage, express or mail..... | 9 | 42 | 4 | --- | --- | 1 | --- | 2 | 58 | 64 |
| Windows, doors, etc., on on-track equi | 74 | 131 | 59 | --- | 1 | --- | 4 | 6 | 275 | 305 |
| Passenger car doors..... | 9 | 4 | 1 | --- | --- | --- | --- | 1 | 15 | 15 |
| Stumbling, slipping, falling, caught, | 396 | 1,104 | 161 | 1 | 1 | 12 | --- | 83 | 1,758 | 1,980 |
| Flying or falling objects, burns, etc. | 30 | 16 | 40 | 16 | 26 | --- | 142 | 63 | 333 | 341 |
| Operation of on-track work equipment.. | 9 | 34 | 7 | --- | --- | 1 | --- | --- | 51 | 57 |
| Assault..... | 42 | 42 | 46 | --- | --- | 4 | 1 | 13 | 148 | 167 |
| Other occurrences..... | 298 | 921 | 187 | 2 | 10 | 9 | 22 | 411 | 1,860 | 1,947 |
| Total..... | 2,647 | 8,582 | 2,020 | 103 | 205 | 90 | 763 | 1,459 | 15,869 | 17,131 |
| Grand Total..... | 3,797 | 10,206 | 2,834 | 106 | 233 | 116 | 989 | 2,543 | 20,824 | 22,796 |

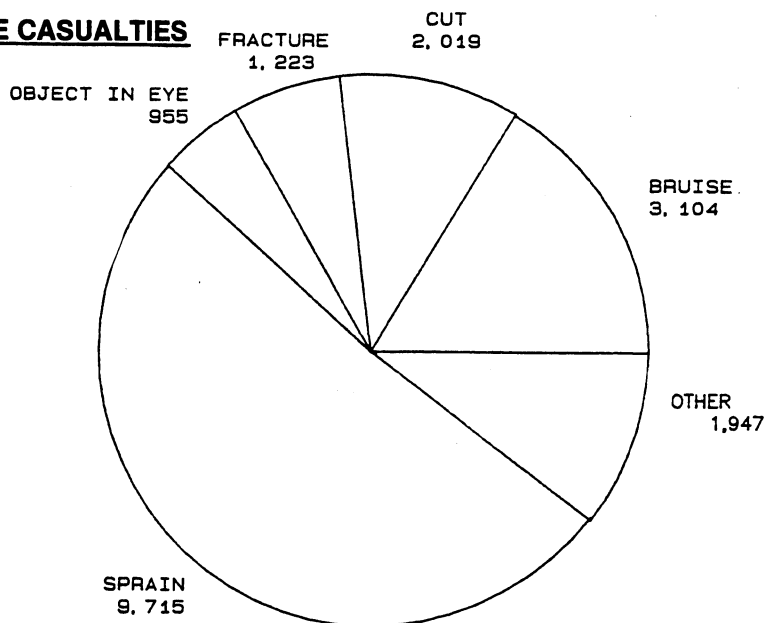
TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON

| Type Person | Amputations | | | | | Fractures | | | | | | |
|-------------------------|--------------|--------|--------------|-----|---------------|-----------|--------------|--------|--------------|-----|---------------|-------|
| | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total | Arm/ Hand | Finger | Leg/ Foot | Toe | Other Part | Total |
| EMPLOYEES ON DUTY | | | | | | | | | | | | |
| YARD SERVICE: | | | | | | | | | | | | |
| Engineers and Motormen | --- | --- | --- | --- | --- | --- | 1 | 6 | 4 | 2 | 5 | 18 |
| Firemen and Helpers | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 | --- | 1 |
| Conductors and Foremen | 1 | 1 | 2 | --- | --- | 4 | 4 | 6 | 8 | 5 | 10 | 33 |
| Brakemen and Helpers | --- | 2 | 2 | --- | --- | 4 | 17 | 19 | 27 | 8 | 14 | 85 |
| Total..... | 1 | 3 | 4 | --- | --- | 8 | 22 | 31 | 39 | 16 | 29 | 137 |
| FREIGHT SERVICE: | | | | | | | | | | | | |
| Engineers and Motormen | --- | 2 | --- | --- | --- | 2 | 6 | 4 | 8 | 2 | 7 | 27 |
| Firemen and Helpers | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Conductors and Foremen | --- | 1 | 2 | 2 | --- | 5 | 15 | 17 | 11 | 6 | 21 | 70 |
| Brakemen and Helpers | --- | 1 | 4 | 1 | --- | 6 | 11 | 21 | 22 | 6 | 18 | 78 |
| Total..... | --- | 4 | 6 | 3 | --- | 13 | 32 | 42 | 41 | 14 | 46 | 175 |
| PASSENGER SERVICE: | | | | | | | | | | | | |
| Engineers and Motormen | --- | --- | --- | --- | --- | --- | 3 | 2 | --- | --- | 1 | 6 |
| Firemen and Helpers | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Conductors and Foremen | --- | --- | --- | --- | --- | --- | 5 | 7 | 8 | 4 | 6 | 30 |
| Baggagemen | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Brakemen and Helpers | --- | --- | 1 | --- | --- | 1 | 2 | --- | --- | --- | 1 | 3 |
| Total..... | --- | --- | 1 | --- | --- | 1 | 10 | 9 | 8 | 4 | 8 | 39 |
| HOSTLERS | --- | --- | --- | --- | --- | --- | --- | 4 | 1 | 1 | 1 | 7 |
| --SUMMARY-- | | | | | | | | | | | | |
| Total employees on duty | 1 | 24 | 12 | 5 | 1 | 43 | 202 | 402 | 275 | 126 | 218 | 1,223 |
| Employees not on duty | --- | --- | --- | --- | --- | --- | 8 | 3 | 11 | 4 | 11 | 37 |
| Passengers | --- | 2 | --- | --- | --- | 2 | 11 | 7 | 16 | 5 | 17 | 56 |
| Nontrespassers | 1 | 3 | 4 | 1 | --- | 9 | 64 | 15 | 94 | 4 | 141 | 318 |
| Trespassers | 17 | 4 | 111 | 14 | --- | 146 | 32 | 1 | 53 | 1 | 51 | 138 |
| Grand total | 19 | 33 | 127 | 20 | 1 | 200 | 317 | 428 | 449 | 140 | 438 | 1,772 |

TABLE 50. (CONTINUED)

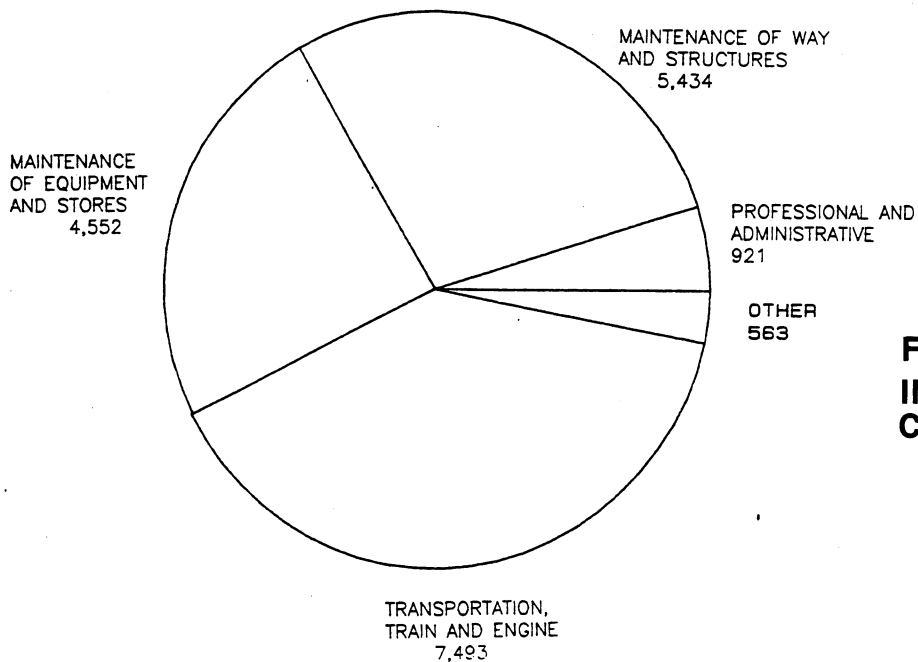
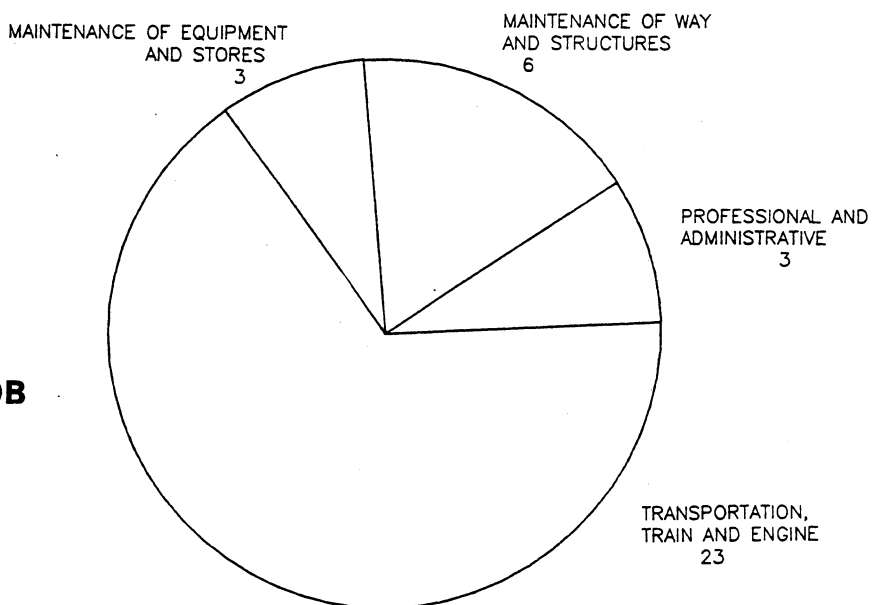
| Type Person |Other Injuries..... | | | | | | | | Total | Total Injured |
|-------------------------|--------------------------|-------------------|-------|---------------|----------------|-------------------|------------------|-------|--------|---------------|
| | Bruise | Sprain/ Strain | Cut | Elec. Burn | Other Burns | Disloc- Cation | Object In Eye | Other | | |
| EMPLOYEES ON DUTY | | | | | | | | | | |
| YARD SERVICE: | | | | | | | | | | |
| Engineers and Motormen | 66 | 180 | 29 | 1 | 2 | 1 | 32 | 40 | 351 | 369 |
| Firemen and Helpers | 2 | 6 | --- | --- | --- | --- | 1 | 1 | 10 | 11 |
| Conductors and Foremen | 95 | 290 | 48 | --- | 7 | 2 | 30 | 24 | 496 | 533 |
| Brakemen and Helpers | 275 | 902 | 99 | 1 | 5 | 6 | 88 | 83 | 1,459 | 1,548 |
| Total..... | 438 | 1,378 | 176 | 2 | 14 | 9 | 151 | 148 | 2,316 | 2,461 |
| FREIGHT SERVICE: | | | | | | | | | | |
| Engineers and Motormen | 136 | 487 | 48 | 2 | 11 | 4 | 64 | 80 | 832 | 861 |
| Firemen and Helpers | 1 | 5 | 3 | --- | --- | --- | 2 | 3 | 14 | 14 |
| Conductors and Foremen | 241 | 754 | 89 | 1 | 3 | 5 | 57 | 107 | 1,257 | 1,332 |
| Brakemen and Helpers | 287 | 1,135 | 111 | 1 | 12 | 11 | 75 | 136 | 1,768 | 1,852 |
| Total..... | 665 | 2,381 | 251 | 4 | 26 | 20 | 198 | 326 | 3,871 | 4,059 |
| PASSENGER SERVICE: | | | | | | | | | | |
| Engineers and Motormen | 31 | 95 | 19 | 1 | --- | --- | 31 | 23 | 200 | 206 |
| Firemen and Helpers | 4 | 11 | 1 | 1 | --- | --- | --- | 1 | 18 | 18 |
| Conductors and Foremen | 116 | 233 | 51 | 3 | --- | 4 | 30 | 37 | 474 | 504 |
| Baggagemen | --- | 1 | 2 | --- | --- | --- | --- | --- | 3 | 3 |
| Brakemen and Helpers | 13 | 41 | 6 | --- | --- | --- | 9 | 7 | 76 | 80 |
| Total..... | 164 | 381 | 79 | 5 | --- | 4 | 70 | 68 | 771 | 811 |
| HOSTLERS | 8 | 62 | 3 | --- | 1 | 1 | 4 | 9 | 88 | 95 |
| --SUMMARY-- | | | | | | | | | | |
| Total employees on duty | 3,104 | 9,715 | 2,019 | 95 | 219 | 98 | 955 | 1,492 | 17,697 | 18,963 |
| Employees not on duty | 53 | 118 | 29 | --- | --- | 3 | 15 | 100 | 318 | 355 |
| Passengers | 95 | 73 | 90 | --- | 3 | 3 | --- | 60 | 324 | 382 |
| Nontrespassers | 450 | 275 | 552 | 1 | 9 | 10 | 19 | 684 | 2,000 | 2,327 |
| Trespassers | 95 | 25 | 144 | 10 | 2 | 2 | --- | 207 | 485 | 769 |
| Grand total | 3,797 | 10,206 | 2,834 | 106 | 233 | 116 | 989 | 2,543 | 20,824 | 22,796 |

EMPLOYEE CASUALTIES



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

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



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

TABLE 51. EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

| Type/Location Of Casualty | Total Cases | Cases With Total Cases | Days Away Lost Day Cases | From Work Restricted Cases | Or Days Of Days Away From Work | Restriction Days Of Restriction | Other Cases |
|--------------------------------------|----------------|------------------------------|--------------------------------|----------------------------------|--------------------------------------|---------------------------------------|----------------|
| I N J U R I E S | | | | | | | |
| Bruise - Contusion-- | | | | | | | |
| Arm or hand. | 572 | 439 | 366 | 73 | 13,856 | 1,245 | 133 |
| Fingers..... | 297 | 195 | 152 | 43 | 2,875 | 853 | 102 |
| Leg or foot. | 1,024 | 883 | 785 | 98 | 33,639 | 2,389 | 141 |
| Toes..... | 66 | 48 | 42 | 6 | 812 | 76 | 18 |
| Torso..... | 791 | 684 | 615 | 69 | 38,927 | 1,960 | 107 |
| Other parts. | 354 | 305 | 291 | 14 | 13,747 | 577 | 49 |
| Sprain - Strain-- | | | | | | | |
| Arm or hand. | 817 | 670 | 539 | 131 | 26,388 | 3,663 | 147 |
| Fingers..... | 129 | 100 | 82 | 18 | 2,557 | 414 | 29 |
| Leg or foot. | 2,251 | 2,054 | 1,862 | 192 | 95,408 | 8,262 | 197 |
| Toes..... | 13 | 11 | 10 | 1 | 84 | 4 | 2 |
| Torso..... | 5,717 | 5,118 | 4,652 | 466 | 311,457 | 19,810 | 599 |
| Other parts. | 788 | 683 | 631 | 52 | 42,885 | 2,727 | 105 |
| Cut or Laceration-- | | | | | | | |
| Arm or hand. | 399 | 185 | 139 | 46 | 4,807 | 536 | 214 |
| Fingers..... | 657 | 304 | 212 | 92 | 5,057 | 1,482 | 353 |
| Leg or foot. | 252 | 157 | 140 | 17 | 4,523 | 310 | 95 |
| Toes..... | 7 | 4 | 4 | --- | 128 | 15 | 3 |
| Head or Face | 636 | 272 | 248 | 24 | 8,532 | 387 | 364 |
| Torso..... | 31 | 25 | 25 | --- | 1,724 | 19 | 6 |
| Other parts. | 37 | 19 | 16 | 3 | 1,256 | 37 | 18 |
| Electrical burn or shock..... | 95 | 79 | 76 | 3 | 3,146 | 51 | 16 |
| Other burns..... | 219 | 131 | 116 | 15 | 3,218 | 256 | 88 |
| Dislocation..... | 98 | 90 | 73 | 17 | 5,418 | 841 | 8 |
| Fracture-- | | | | | | | |
| Arm or hand. | 202 | 181 | 162 | 19 | 12,876 | 1,331 | 21 |
| Fingers..... | 402 | 300 | 201 | 99 | 7,924 | 2,329 | 102 |
| Leg or foot. | 275 | 266 | 247 | 19 | 23,126 | 2,003 | 9 |
| Toes..... | 126 | 109 | 92 | 17 | 3,794 | 939 | 17 |
| Head or Face | 41 | 30 | 29 | 1 | 1,783 | 126 | 11 |
| Torso..... | 164 | 157 | 143 | 14 | 12,009 | 1,027 | 7 |
| Other parts. | 13 | 13 | 10 | 3 | 1,001 | 251 | --- |
| Amputation-- | | | | | | | |
| Arm or hand. | 1 | 1 | 1 | --- | 200 | --- | --- |
| Fingers..... | 24 | 23 | 22 | 1 | 1,202 | 162 | 1 |
| Leg or foot. | 12 | 12 | 12 | --- | 2,913 | --- | --- |
| Toes..... | 5 | 4 | 4 | --- | 885 | --- | 1 |
| Other parts. | 1 | 1 | 1 | --- | 25 | 8 | --- |
| Dust or other object in eye..... | 955 | 476 | 406 | 70 | 1,966 | 232 | 479 |
| Hernia..... | 120 | 114 | 111 | 3 | 5,479 | 363 | 6 |
| Concussion..... | 40 | 36 | 36 | --- | 4,258 | 30 | 4 |
| Nervous shock..... | 22 | 20 | 17 | 3 | 477 | 121 | 2 |
| Internal injuries..... | 33 | 30 | 29 | 1 | 1,024 | 34 | 3 |
| Loss of eye..... | --- | --- | --- | --- | --- | --- | --- |
| Puncture type wound..... | 293 | 147 | 128 | 19 | 2,696 | 553 | 146 |
| Dental related injuries..... | 79 | 14 | 14 | --- | 88 | 16 | 65 |
| Skin reaction (one-time exposure | 97 | 39 | 34 | 5 | 196 | 23 | 58 |
| Not otherwise classified..... | 808 | 585 | 532 | 53 | 22,485 | 1,241 | 223 |
| Total nonfatal injuries..... | 18,963 | 15,014 | 13,307 | 1,707 | 726,851 | 56,703 | 3,949 |
| I L L N E S S E S | | | | | | | |
| Skin diseases or disorders..... | 80 | 31 | 28 | 3 | 384 | 33 | 49 |
| Dust diseases of the lungs..... | 2 | 2 | 2 | --- | 142 | --- | --- |
| Respiratory conditions..... | 91 | 73 | 72 | 1 | 2,655 | 27 | 18 |
| Poisoning..... | 16 | 11 | 11 | --- | 310 | --- | 5 |
| Disorders due to physical agents | 46 | 31 | 26 | 5 | 391 | 206 | 15 |
| Disorders due to repeated trauma | 361 | 215 | 185 | 30 | 7,370 | 1,863 | 146 |
| All other occupational illnesses | 67 | 60 | 57 | 3 | 5,015 | 143 | 7 |
| Total nonfatal illnesses..... | 663 | 423 | 381 | 42 | 16,267 | 2,272 | 240 |
| -----F A T A L I T I E S----- | | | | | | | |
| Fatal injuries..... | 35 | --- | --- | --- | --- | --- | --- |
| Fatal illnesses..... | --- | --- | --- | --- | --- | --- | --- |
| Total fatalities.. | 35 | --- | --- | --- | --- | --- | --- |

TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

| | Killed | Injured | Illness | Total |
|--|--------|---------|---------|-------|
| EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS | | | | |
| Executives and general officers..... | --- | 7 | --- | 7 |
| Corporate staff managers..... | --- | 5 | --- | 5 |
| Regional and division officers, assistants and staff assistants.... | --- | 22 | --- | 22 |
| Transportation officers/managers..... | --- | 8 | --- | 8 |
| Subtotal..... | --- | 42 | --- | 42 |
| PROFESSIONAL AND ADMINISTRATIVE | | | | |
| Professional..... | --- | 22 | 1 | 23 |
| Subprofessionals..... | --- | 16 | 3 | 19 |
| Auditors, traveling auditors or accountants..... | --- | 11 | --- | 11 |
| General and administrative supervisors..... | --- | 24 | 2 | 26 |
| Sales and traffic representatives and agents..... | --- | 18 | 1 | 19 |
| Freight and other claim agents and investigators..... | 1 | 7 | 1 | 9 |
| Supervising and chief claim agents..... | --- | 3 | --- | 3 |
| Lieutenants and sergeants of police..... | 1 | 32 | --- | 33 |
| Police officers, watchmen and guards (except crossing & bridge).... | --- | 191 | 3 | 194 |
| Inspectors, (except MOW & MOE), other investigators, examiners, etc | --- | 3 | --- | 3 |
| Buyers, and sales agents..... | --- | 19 | --- | 19 |
| Clerical technicians and clerical specialists..... | --- | 63 | 41 | 104 |
| Office machine and data equipment operators..... | --- | 20 | 5 | 25 |
| Secretaries, stenographers, and typists..... | --- | 32 | 4 | 36 |
| General and other clerks (except yard clerk and crew dispatcher)... | --- | 297 | 18 | 315 |
| Building and office attendants..... | --- | 65 | 1 | 66 |
| Messengers and office persons..... | --- | 7 | --- | 7 |
| Motor vehicle operators..... | 1 | 91 | 2 | 94 |
| Subtotal..... | 3 | 921 | 82 | 1,006 |
| MAINTENANCE OF WAY AND STRUCTURES | | | | |
| Supervisors, maintenance of way, structures, communication & signals | 2 | 90 | --- | 92 |
| Maintenance of way, structures, comm. & signals, & scale inspectors | --- | 96 | 4 | 100 |
| Bridge and building gang foreman..... | --- | 91 | 3 | 94 |
| Bridge and building carpenters..... | --- | 225 | 1 | 226 |
| Bridge and building ironworkers..... | --- | 71 | 1 | 72 |
| Bridge and building painters..... | --- | 15 | --- | 15 |
| Masons, bricklayers, plasterers, and plumbers..... | --- | 187 | 1 | 188 |
| Bridge and building helpers and apprentices..... | --- | 88 | 3 | 91 |
| Bridge and building gang and bridge and building dept laborers..... | 1 | 74 | 1 | 76 |
| Track gang foremen (extra gang work train laborers)..... | 1 | 148 | 6 | 155 |
| Gang or section foreman..... | --- | 377 | 12 | 389 |
| Extra gang laborers..... | 1 | 564 | 18 | 583 |
| Section laborers..... | --- | 1,786 | 43 | 1,829 |
| Machine operators..... | --- | 786 | 27 | 813 |
| Gang foremen, communications and signals..... | --- | 56 | 2 | 58 |
| Signalmen and signal maintainers..... | 1 | 515 | 18 | 534 |
| Linemen and groundmen and communications craftsman..... | --- | 147 | 16 | 163 |
| Assistant signalmen and assistant signal maintainers..... | --- | 58 | 1 | 59 |
| Signal helpers and signal maintainer helpers..... | --- | 46 | --- | 46 |
| Camp car cooks..... | --- | 14 | --- | 14 |
| Subtotal..... | 6 | 5,434 | 157 | 5,597 |

TABLE 52. (CONTINUED)

| | Killed | Injured | Illness | Total |
|--|--------|---------|---------|--------|
| MAINTENANCE OF EQUIPMENT AND STORES | | | | |
| Supervisors and general foremen, maintenance of equipment..... | --- | 86 | --- | 86 |
| Supervisors and general foremen, materials and stores..... | --- | 5 | --- | 5 |
| Equipment, shop, electrical inspectors..... | --- | 27 | 1 | 28 |
| Materials and supplies inspectors..... | --- | 20 | --- | 20 |
| Storekeeper..... | --- | 22 | 1 | 23 |
| Gang foremen, maintenance of equipment..... | --- | 77 | 2 | 79 |
| Blacksmiths..... | --- | 22 | 1 | 23 |
| Boilermakers..... | --- | 80 | 1 | 81 |
| Carmen (freight)..... | 2 | 1,236 | 42 | 1,280 |
| Carmen (other)..... | --- | 481 | 4 | 485 |
| Electrical workers (A)..... | --- | 525 | 28 | 553 |
| Electrical workers (B)..... | --- | 15 | --- | 15 |
| Electrical workers (C)..... | --- | 10 | --- | 10 |
| Machinists..... | --- | 886 | 77 | 963 |
| Sheet metal workers..... | --- | 198 | 14 | 212 |
| Skilled trades, helpers, maintenance of equipment and stores..... | 1 | 160 | 2 | 163 |
| Apprentices, maintenance of equipment and stores..... | --- | 23 | --- | 23 |
| Coach cleaners..... | --- | 209 | 3 | 212 |
| Laborers: shops, enginehouses and power plants..... | --- | 350 | 19 | 369 |
| Gang foremen, materials and stores..... | --- | 5 | --- | 5 |
| Equipment operators and general laborers, materials and stores..... | --- | 94 | 9 | 103 |
| Stationary engineers..... | --- | 10 | --- | 10 |
| Stationary firemen..... | --- | 11 | --- | 11 |
| Subtotal..... | 3 | 4,552 | 204 | 4,759 |
| TRANSPORTATION, OTHER THAN TRAIN AND ENGINE | | | | |
| Transportation supervisor and chief train dispatcher..... | --- | 15 | 2 | 17 |
| Train dispatchers..... | --- | 10 | 3 | 13 |
| Station, freight and passenger agents..... | --- | 15 | 1 | 16 |
| Clerk operators, towerman, train directors..... | --- | 38 | 10 | 48 |
| Station masters & assts, supervising bag. agents, bag. agents, etc. | --- | 1 | --- | 1 |
| Baggage, parcel room and station attendants..... | --- | 44 | --- | 44 |
| General & asst gnrl foremen, stations, warehouses, grain elev., docks. | --- | 1 | --- | 1 |
| Gang foremen, stations, warehouses, grain elevators and docks..... | --- | 4 | --- | 4 |
| Grain elevator, and dock laborers..... | --- | 22 | --- | 22 |
| Station, and warehouse laborers..... | --- | 41 | --- | 41 |
| Truckers (station, warehouse and platforms)..... | --- | 24 | --- | 24 |
| Food and lodging manager, supervisors..... | --- | 14 | --- | 14 |
| Transportation and dining-service inspectors..... | --- | 1 | --- | 1 |
| Waiters and kitchen helpers (restaurant and dining car)..... | --- | 32 | --- | 32 |
| Chefs and cooks (restaurant and dining car)..... | --- | 24 | --- | 24 |
| Marine officers and workers and shore workers..... | --- | 5 | --- | 5 |
| Train attendants..... | --- | 117 | --- | 117 |
| Bridge operators and helpers..... | --- | 8 | --- | 8 |
| Bridge and crossing flagmen and gatemen..... | --- | --- | 1 | 1 |
| Yards clerks..... | --- | 52 | 3 | 55 |
| Crew dispatchers..... | --- | 11 | 4 | 15 |
| Yardmasters and assistant yardmasters..... | --- | 42 | 1 | 43 |
| Subtotal..... | --- | 521 | 25 | 546 |
| TRANSPORTATION, TRAIN AND ENGINE | | | | |
| Transportation, train and engine (miscellaneous)..... | --- | 1 | --- | 1 |
| Switchtenders..... | --- | 27 | 1 | 28 |
| Car retarder operators and ground service employees..... | --- | 22 | --- | 22 |
| Outside hostlers..... | --- | 69 | --- | 69 |
| Outside hostler helpers..... | --- | 26 | 1 | 27 |
| Inside hostler..... | --- | 17 | --- | 17 |
| Road passenger conductors..... | 1 | 436 | 10 | 447 |
| Assistant road passenger conductors and ticket collectors..... | --- | 68 | --- | 68 |
| Road freight conductors (through freight)..... | 2 | 760 | 27 | 789 |
| Road freight conductors (local and way freight)..... | 1 | 572 | 14 | 587 |
| Road passenger baggage person..... | --- | 3 | --- | 3 |
| Road passenger brakemen and flagmen..... | 1 | 80 | --- | 81 |
| Road freight brakemen and flagmen (through freight)..... | 8 | 1,088 | 21 | 1,117 |
| Road freight brakemen and flagmen (local and way freight)..... | --- | 764 | 8 | 772 |
| Yard conductors and yard foremen..... | 1 | 533 | 11 | 545 |
| Yard brakemen and yard helpers..... | 6 | 1,548 | 36 | 1,590 |
| Road passenger engineers and motormen..... | --- | 206 | 12 | 218 |
| Road freight engineers (through freight)..... | 3 | 583 | 24 | 610 |
| Road freight engineers (local and way freight)..... | --- | 278 | 12 | 290 |
| Yard engineers..... | --- | 369 | 15 | 384 |
| Road passenger firemen and helpers..... | --- | 18 | 1 | 19 |
| Road freight firemen and helpers (through freight)..... | --- | 10 | 1 | 11 |
| Road freight firemen and helpers (local and way freight)..... | --- | 4 | 1 | 5 |
| Yard firemen and helpers..... | --- | 11 | --- | 11 |
| Subtotal..... | 23 | 7,493 | 195 | 7,711 |
| Total..... | 35 | 18,963 | 663 | 19,661 |

TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

| Type accident/incident | I* | II | III | IV | V | VI | Total |
|--|-----|-----|-----|-----|-----|-----|-------|
| TRAIN ACCIDENTS | | | | | | | |
| Collisions | --- | --- | --- | --- | --- | 5 | 5 |
| Derailments | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway x-ing | --- | --- | --- | --- | --- | --- | --- |
| Miscellaneous | --- | --- | --- | --- | --- | 4 | 4 |
| Total..... | --- | --- | --- | --- | --- | 9 | 9 |
| TRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | --- | --- | --- | --- | --- | 1 | 1 |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | --- | --- | --- | --- |
| Operating on or on locomotives..... | --- | --- | --- | --- | --- | --- | --- |
| Operating rail motorcars..... | --- | --- | --- | --- | --- | --- | --- |
| Operating hand brakes..... | --- | --- | --- | --- | --- | --- | --- |
| Operating switches or derails..... | --- | --- | --- | --- | --- | 1 | 1 |
| Contacting fixed objects while on locos or cars.. | --- | --- | --- | --- | --- | 1 | 1 |
| Getting on or off cars or locomotives..... | --- | --- | --- | --- | --- | --- | --- |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | 2 | 2 |
| Rail-highway crossing accidents/incidents..... | --- | --- | --- | --- | --- | 1 | 1 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | --- | --- | 2 | --- | --- | 3 | 5 |
| Servicing or maintenance of equipment..... | --- | --- | --- | --- | --- | --- | --- |
| Maintenance of way and structures..... | --- | --- | --- | --- | --- | --- | --- |
| Freight, baggage, express or mail..... | --- | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equipment..... | --- | --- | --- | --- | --- | --- | --- |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C..... | --- | --- | --- | --- | --- | 2 | 2 |
| Flying or falling objects, burns, etc., N.O.C.... | --- | --- | --- | --- | --- | --- | --- |
| Operation of on-track work equipment..... | --- | --- | --- | --- | --- | --- | --- |
| Assault..... | --- | --- | --- | --- | --- | --- | --- |
| Other occurrences..... | --- | --- | --- | --- | --- | 1 | 1 |
| Total..... | --- | --- | 2 | --- | --- | 12 | 14 |
| NONTRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | --- | --- | --- | --- | --- | --- | --- |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | --- | --- | 1 | 1 |
| Operating on or on locomotives..... | --- | --- | --- | --- | --- | --- | --- |
| Operating rail motorcars..... | --- | --- | --- | --- | --- | --- | --- |
| Operating hand brakes..... | --- | --- | --- | --- | --- | --- | --- |
| Operating switches or derails..... | --- | --- | --- | --- | --- | --- | --- |
| Contacting fixed objects while on locos or cars.. | --- | --- | --- | --- | --- | --- | --- |
| Getting on or off cars or locomotives..... | --- | --- | --- | --- | --- | --- | --- |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incidents..... | --- | --- | --- | --- | --- | --- | --- |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | --- | --- | --- | --- | --- | --- | --- |
| Servicing or maintenance of equipment..... | --- | --- | --- | 1 | --- | --- | 1 |
| Maintenance of way and structures..... | --- | --- | --- | --- | --- | --- | --- |
| Freight, baggage, express or mail..... | --- | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equipment..... | --- | --- | --- | --- | --- | --- | --- |
| Passenger car doors..... | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C..... | --- | --- | --- | --- | --- | 1 | 1 |
| Flying or falling objects, burns, etc., N.O.C.... | --- | --- | --- | --- | --- | --- | --- |
| Operation of on-track work equipment..... | --- | --- | --- | --- | --- | --- | --- |
| Assault..... | --- | 1 | 1 | --- | --- | --- | 2 |
| Other occurrences..... | --- | 2 | 3 | 2 | --- | --- | 7 |
| Total..... | --- | 3 | 4 | 3 | --- | 2 | 12 |
| Grand total..... | --- | 3 | 6 | 3 | --- | 23 | 35 |

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

TABLE 54. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

| Type accident/incident | IX | II | III | IV | V | VI | Total |
|--|-----|-----|-------|-------|-----|-------|--------|
| TRAIN ACCIDENTS | | | | | | | |
| Collisions | --- | --- | 11 | 1 | --- | 91 | 103 |
| Derailments | --- | --- | 2 | --- | 12 | 59 | 73 |
| Rail-highway x-ing | --- | --- | 4 | 1 | 1 | 48 | 54 |
| Miscellaneous | --- | --- | 8 | --- | --- | 36 | 44 |
| Total..... | --- | --- | 25 | 2 | 13 | 234 | 274 |
| TRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | --- | --- | 2 | 3 | 2 | 185 | 192 |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | 4 | --- | 26 | 30 |
| Operating on or on locomotives..... | --- | 3 | 1 | 8 | --- | 660 | 672 |
| Operating rail motorcars..... | --- | --- | 4 | --- | 1 | 8 | 13 |
| Operating hand brakes..... | --- | --- | --- | 2 | --- | 95 | 97 |
| Operating switches or derails..... | --- | --- | --- | 1 | --- | 13 | 14 |
| Contacting fixed objects while on locos or cars.. | --- | --- | --- | 2 | 3 | 65 | 70 |
| Getting on or off cars or locomotives..... | --- | 3 | 3 | 17 | 5 | 529 | 557 |
| Collisions, derailments, etc. (below \$ threshold) | 1 | --- | 7 | 3 | 1 | 84 | 96 |
| Rail-highway crossing accidents/incidents..... | --- | --- | 8 | --- | --- | 80 | 88 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | --- | 2 | 3 | 5 | 2 | 32 | 44 |
| Servicing or maintenance of equipment..... | --- | 1 | 5 | 43 | 3 | 3 | 55 |
| Maintenance of way and structures..... | --- | 1 | 87 | 2 | --- | --- | 90 |
| Freight, baggage, express or mail..... | --- | --- | 1 | --- | 5 | 3 | 9 |
| Windows, doors, etc., on on-track equipment..... | --- | 1 | 12 | 11 | 10 | 75 | 109 |
| Passenger car doors..... | --- | --- | --- | 1 | --- | 1 | 2 |
| Stumbling, slipping, falling, caught, N.O.C..... | --- | --- | 4 | 12 | 20 | 118 | 154 |
| Flying or falling objects, burns, etc., N.O.C.... | --- | 2 | 3 | --- | 14 | 119 | 138 |
| Operation of on-track work equipment..... | --- | --- | 71 | 2 | 1 | 5 | 79 |
| Assault..... | 1 | 1 | 1 | 1 | 1 | 61 | 66 |
| Other occurrences..... | --- | 1 | 1 | 5 | 32 | 169 | 208 |
| Total..... | 2 | 15 | 213 | 122 | 100 | 2,331 | 2,783 |
| NONTRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | --- | --- | 2 | 12 | 3 | 399 | 416 |
| Coupling/uncoupling air/steam hose, safety chains. | --- | 1 | 3 | 26 | 1 | 208 | 239 |
| Operating on or on locomotives..... | --- | --- | 2 | 62 | 2 | 453 | 519 |
| Operating rail motorcars..... | 1 | 1 | 13 | --- | --- | 11 | 26 |
| Operating hand brakes..... | --- | 2 | 3 | 21 | 2 | 352 | 380 |
| Operating switches or derails..... | 1 | 1 | 37 | 38 | 8 | 902 | 987 |
| Contacting fixed objects while on locos or cars.. | --- | --- | --- | 5 | 1 | 16 | 22 |
| Getting on or off cars or locomotives..... | 2 | 12 | 15 | 92 | 21 | 707 | 849 |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incidents..... | --- | --- | --- | 2 | 1 | 1 | 4 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | --- | --- | --- | --- | --- | --- | --- |
| Servicing or maintenance of equipment..... | 4 | 56 | 238 | 3,261 | 33 | 113 | 3,705 |
| Maintenance of way and structures..... | 2 | 86 | 4,252 | 369 | 11 | 18 | 4,738 |
| Freight, baggage, express or mail..... | --- | 5 | 1 | 4 | 34 | 14 | 58 |
| Windows, doors, etc., on on-track equipment..... | --- | 11 | 29 | 61 | 14 | 171 | 286 |
| Passenger car doors..... | --- | 2 | --- | 1 | --- | 3 | 6 |
| Stumbling, slipping, falling, caught, N.O.C..... | 9 | 172 | 200 | 216 | 95 | 869 | 1,561 |
| Flying or falling objects, burns, etc., N.O.C.... | 1 | 27 | 17 | 35 | 24 | 188 | 292 |
| Operation of on-track work equipment..... | --- | 1 | 47 | 6 | 1 | --- | 55 |
| Assault..... | --- | 70 | 9 | 9 | 2 | 42 | 132 |
| Other occurrences..... | 20 | 459 | 328 | 208 | 155 | 461 | 1,631 |
| Total..... | 40 | 906 | 5,196 | 4,428 | 408 | 4,928 | 15,906 |
| Grand total..... | 42 | 921 | 5,434 | 4,552 | 521 | 7,493 | 18,963 |

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

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

| Type of Occurrence | Total Cases | Cases With Total Cases | Days Away From Work Lost Day Cases | Restricted Cases | Or Days Of Restriction Days Away From Work | Days Of Restriction | Other Cases |
|--|-------------|------------------------|------------------------------------|------------------|--|---------------------|-------------|
| TRAIN ACCIDENTS | | | | | | | |
| Collisions | 103 | 96 | 94 | 2 | 7,407 | 203 | 7 |
| Derailments | 73 | 69 | 68 | 1 | 7,983 | 181 | 4 |
| Rail-highway x-ing | 54 | 47 | 45 | 2 | 4,939 | 90 | 7 |
| Miscellaneous | 44 | 43 | 40 | 3 | 2,089 | 61 | 1 |
| Total..... | 274 | 255 | 247 | 8 | 22,418 | 535 | 19 |
| TRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | 192 | 174 | 165 | 9 | 9,565 | 488 | 18 |
| Coupling/uncoupling air/steam hose, safety chains. | 30 | 23 | 21 | 2 | 1,125 | 61 | 7 |
| Operating or on locomotives..... | 672 | 554 | 527 | 27 | 31,133 | 1,358 | 118 |
| Operating rail motorcars..... | 13 | 11 | 10 | 1 | 295 | 1 | 2 |
| Operating hand brakes..... | 97 | 87 | 77 | 10 | 4,450 | 333 | 10 |
| Operating switches or derails..... | 14 | 13 | 12 | 1 | 896 | 42 | 1 |
| Contacting fixed objects while on locos or cars.. | 70 | 63 | 59 | 4 | 3,865 | 203 | 7 |
| Getting on or off cars or locomotives..... | 557 | 494 | 456 | 38 | 28,691 | 2,367 | 63 |
| Collisions, derailments, etc. (below \$ threshold) | 96 | 89 | 85 | 4 | 7,696 | 395 | 7 |
| Rail-highway crossing accidents/incidents..... | 88 | 79 | 78 | 1 | 7,084 | 207 | 9 |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 44 | 35 | 35 | --- | 4,088 | 40 | 9 |
| Servicing or maintenance of equipment..... | 55 | 38 | 32 | 6 | 1,537 | 119 | 17 |
| Maintenance of way and structures..... | 90 | 68 | 50 | 18 | 3,060 | 513 | 22 |
| Freight, baggage, express or mail..... | 9 | 7 | 7 | --- | 650 | 20 | 2 |
| Windows, doors, etc., on on-track equipment..... | 109 | 82 | 70 | 12 | 2,625 | 588 | 27 |
| Passenger car doors..... | 2 | --- | --- | --- | --- | --- | 2 |
| Stumbling, slipping, falling, caught, N.O.C..... | 154 | 140 | 133 | 7 | 9,712 | 603 | 14 |
| Flying or falling objects, burns, etc., N.O.C.... | 138 | 90 | 84 | 6 | 1,967 | 28 | 48 |
| Operation of on-track work equipment..... | 79 | 68 | 63 | 5 | 3,898 | 425 | 11 |
| Assault..... | 66 | 57 | 55 | 2 | 2,019 | 9 | 9 |
| Other occurrences..... | 208 | 176 | 166 | 10 | 8,385 | 482 | 32 |
| Total..... | 2,783 | 2,348 | 2,185 | 163 | 132,741 | 8,282 | 435 |
| NONTRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars..... | 416 | 375 | 342 | 33 | 23,035 | 1,223 | 41 |
| Coupling/uncoupling air/steam hose, safety chains. | 239 | 193 | 168 | 25 | 8,719 | 361 | 46 |
| Operating or on locomotives..... | 519 | 425 | 393 | 32 | 21,167 | 1,185 | 94 |
| Operating rail motorcars..... | 26 | 17 | 15 | 2 | 624 | 30 | 9 |
| Operating hand brakes..... | 380 | 339 | 321 | 18 | 22,696 | 938 | 41 |
| Operating switches or derails..... | 987 | 912 | 843 | 69 | 55,420 | 4,223 | 75 |
| Contacting fixed objects while on locos or cars.. | 22 | 20 | 18 | 2 | 765 | 52 | 2 |
| Getting on or off cars or locomotives..... | 849 | 757 | 696 | 61 | 40,719 | 2,413 | 92 |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incidents..... | --- | --- | --- | --- | --- | --- | --- |
| Struck by/ran into loco/car(not at hwy-rr x-ing). | 4 | 2 | 1 | 1 | 12 | 21 | 2 |
| Servicing or maintenance of equipment..... | 3,705 | 2,768 | 2,357 | 411 | 110,126 | 13,647 | 937 |
| Maintenance of way and structures..... | 4,738 | 3,410 | 2,820 | 590 | 137,483 | 14,231 | 1,328 |
| Freight, baggage, express or mail..... | 58 | 48 | 46 | 2 | 2,891 | 104 | 10 |
| Windows, doors, etc., on on-track equipment..... | 286 | 231 | 203 | 28 | 7,579 | 795 | 55 |
| Passenger car doors..... | 6 | 6 | 6 | --- | 372 | 11 | --- |
| Stumbling, slipping, falling, caught, N.O.C..... | 1,561 | 1,367 | 1,233 | 134 | 77,396 | 4,588 | 194 |
| Flying or falling objects, burns, etc., N.O.C.... | 292 | 189 | 172 | 17 | 4,269 | 142 | 103 |
| Operation of on-track work equipment..... | 55 | 43 | 34 | 9 | 2,202 | 182 | 12 |
| Assault..... | 132 | 107 | 101 | 6 | 3,544 | 292 | 25 |
| Other occurrences..... | 1,631 | 1,202 | 1,106 | 96 | 52,673 | 3,448 | 429 |
| Total..... | 15,906 | 12,411 | 10,875 | 1,536 | 571,692 | 47,886 | 3,495 |
| Grand total..... | 18,963 | 15,014 | 13,307 | 1,707 | 726,851 | 56,703 | 3,949 |

TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

| Type accident/incident | I* | II | III | IV | V | VI | Total |
|--|-----|-----|-----|-----|-----|-----|-------|
| TRAIN ACCIDENTS | | | | | | | |
| Collisions | --- | --- | --- | --- | --- | --- | --- |
| Derailments | --- | --- | --- | --- | --- | 5 | 5 |
| Rail-highway x-ing | --- | --- | --- | --- | --- | 1 | 1 |
| Miscellaneous | --- | --- | --- | --- | --- | 2 | 2 |
| Total | --- | --- | --- | --- | --- | 8 | 8 |
| TRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars | --- | --- | --- | --- | --- | --- | --- |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | --- | --- | --- | --- |
| Operating or on locomotives | --- | --- | --- | --- | --- | 54 | 54 |
| Operating rail motorcars | --- | --- | --- | --- | --- | --- | --- |
| Operating hand brakes | --- | --- | --- | --- | --- | --- | --- |
| Operating switches or derails | --- | --- | --- | --- | --- | 2 | 2 |
| Contacting fixed objects while on locos or cars | --- | --- | --- | --- | --- | --- | --- |
| Getting on or off cars or locomotives | --- | --- | --- | --- | --- | 1 | 1 |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | 1 | 1 |
| Rail-highway crossing accidents/incidents | --- | --- | --- | --- | --- | 4 | 4 |
| Struck by/ran into loco/car(not at hwy-rr x-ing) | --- | --- | --- | --- | --- | 2 | 2 |
| Servicing or maintenance of equipment | --- | --- | --- | --- | --- | --- | --- |
| Maintenance of way and structures | --- | 1 | --- | --- | --- | --- | 1 |
| Freight, baggage, express or mail | --- | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equipment | --- | --- | --- | --- | --- | 1 | 1 |
| Passenger car doors | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C. | --- | --- | --- | --- | --- | 1 | 1 |
| Flying or falling objects, burns, etc., N.O.C. | --- | --- | --- | 2 | --- | 10 | 12 |
| Operation of on-track work equipment | --- | --- | --- | --- | --- | --- | --- |
| Assault | --- | --- | 1 | --- | --- | 5 | 6 |
| Other occurrences | --- | --- | --- | --- | --- | --- | --- |
| Total | --- | 1 | 1 | 2 | --- | 81 | 85 |
| NONTRAIN INCIDENTS | | | | | | | |
| Coupling and uncoupling locomotives or cars | --- | --- | --- | --- | --- | 1 | 1 |
| Coupling/uncoupling air/steam hose, safety chains. | --- | --- | --- | --- | --- | --- | --- |
| Operating or on locomotives | --- | --- | --- | 1 | --- | 13 | 14 |
| Operating rail motorcars | --- | --- | --- | --- | --- | --- | --- |
| Operating hand brakes | --- | --- | --- | --- | --- | 3 | 3 |
| Operating switches or derails | --- | --- | --- | --- | --- | 5 | 5 |
| Contacting fixed objects while on locos or cars | --- | --- | --- | --- | --- | --- | --- |
| Getting on or off cars or locomotives | --- | --- | --- | --- | --- | 3 | 3 |
| Collisions, derailments, etc. (below \$ threshold) | --- | --- | --- | --- | --- | --- | --- |
| Rail-highway crossing accidents/incidents | --- | --- | --- | --- | --- | --- | --- |
| Struck by/ran into loco/car(not at hwy-rr x-ing) | --- | --- | --- | --- | --- | --- | --- |
| Servicing or maintenance of equipment | --- | --- | 3 | 161 | --- | 3 | 167 |
| Maintenance of way and structures | --- | 1 | 88 | 8 | --- | --- | 97 |
| Freight, baggage, express or mail | --- | --- | --- | --- | --- | --- | --- |
| Windows, doors, etc., on on-track equipment | --- | --- | --- | 1 | --- | --- | 1 |
| Passenger car doors | --- | --- | --- | --- | --- | --- | --- |
| Stumbling, slipping, falling, caught, N.O.C. | --- | --- | --- | --- | --- | --- | --- |
| Flying or falling objects, burns, etc., N.O.C. | --- | 1 | 1 | 3 | 6 | 21 | 32 |
| Operation of on-track work equipment | --- | --- | 1 | --- | --- | --- | 1 |
| Assault | --- | --- | --- | --- | --- | --- | --- |
| Other occurrences | --- | 79 | 63 | 28 | 19 | 57 | 246 |
| Total | --- | 81 | 156 | 202 | 25 | 106 | 570 |
| Grand total | --- | 82 | 157 | 204 | 25 | 195 | 663 |

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

**TABLE 57. SUMMARY OF NONFATAL EMPLOYEE ON DUTY
INJURIES DUE TO ASSAULT**

| | <STRUCK by THROWN/PROPELLED OBJECT WHILE:> | | | | <<OTHER ASSAULTS>> | | TOTAL |
|--|--|---------------|------------|-------------------|--------------------|--------------------|-------|
| Railroad | On Locomotive | On Caboose | On Cars | NOT on Consist | On Consists | NOT on Consists | CASES |
| ----- | | | | | | | |
| CLASS I RAILROADS | | | | | | | |
| Amtrak (National RR Passenger Corp.) | 0 | 0 | 1 | 0 | 3 | 14 | 18 |
| Atchison, Topeka and Santa Fe Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burlington Northern Railroad Company | 1 | 2 | 0 | 0 | 5 | 6 | 14 |
| Chicago and North Western Transport. | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Consolidated Rail Corporation | 6 | 0 | 0 | 3 | 2 | 5 | 16 |
| CSX Transportation | 6 | 0 | 0 | 0 | 2 | 3 | 11 |
| Delaware and Hudson Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Denver and Rio Grande Western RR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida East Coast Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Grand Trunk Western Railroad Company | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Illinois Central Railroad Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Kansas City Southern Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Louisiana & Arkansas Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Norfolk Southern Corporation | 2 | 0 | 0 | 0 | 1 | 1 | 4 |
| Soo Line Railroad Company | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Southern Pacific Transportation Co. | 7 | 0 | 1 | 0 | 1 | 7 | 16 |
| St. Louis Southwestern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Springfield Terminal Railway Company | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Union Pacific Railroad Company | 6 | 1 | 0 | 0 | 2 | 5 | 14 |
| Total Class I Railroads..... | 33 | 3 | 2 | 4 | 16 | 45 | 103 |
| GROUP II RAILROADS ** | | | | | | | |
| Alton & Southern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bangor and Aroostook Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bessemer & Lake Erie Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Belt Railway Company Of Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birmingham Southern Railroad Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chicago, Central & Pacific RR Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cuyahoga Valley Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dakota, Minnesota & Eastern Railroad | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Duluth, Missabe and Iron Range Ry | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Elgin, Joliet and Eastern Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fox River Valley Railroad Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gateway Western Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Houston Belt & Terminal Railway Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana Harbor Belt Railroad Company | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Long Island Rail Road | 0 | 0 | 0 | 1 | 0 | 20 | 21 |
| Monongahela Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Metro North Commuter Railroad Company | 0 | 0 | 1 | 0 | 3 | 24 | 28 |
| Montana Rail Link | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midsouth Rail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Indiana Transport. Commuter | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Northeast Illinois Regional Commuter | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| New Jersey Transit Rail Operations | 1 | 0 | 0 | 0 | 4 | 24 | 29 |
| Paducah & Louisville Railway Company | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Port Authority Trans Hudson | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Pittsburgh & Lake Erie Railroad Co. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Port Terminal Railroad Association | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Richmond, Fredericksburg and Potomac | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| River Terminal Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southeastern Pennsylvania Transport. | 2 | 0 | 1 | 0 | 1 | 4 | 8 |
| Southrail Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern Pacific, Chicago-St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas Mexican Railway Company | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Terminal Railroad Assoc. of St. Louis | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Railroad Company (Pittsburgh) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin Central Ltd. (also Railway) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheeling & Lake Erie Railway Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL GROUP II RAILROADS..... | 4 | 1 | 2 | 1 | 8 | 79 | 95 |
| RECAPITULATION (INCLUDES CLASS I, GROUP II, AND OTHER RAILROADS) | | | | | | | |
| Class I Railroads | 33 | 3 | 2 | 4 | 16 | 45 | 103 |
| Group II Railroads ** | 4 | 1 | 2 | 1 | 8 | 79 | 95 |
| All Other Railroads | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Railroads | 37 | 4 | 4 | 5 | 24 | 124 | 198 |

** Group II Railroads: Railroads, excluding Class I, with annual accumulation of over 400,000 employee hours worked.

CASUALTIES IN TRAIN ACCIDENTS

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

| Cause | Total Killed | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|--------------|---|-----------------|-----------------|---------------------|------------------|
| MISC CAUSES NOT OTHERWISE LISTED | | | | | | |
| 700 Collision with hwy user at grade xing | 30 | --- | --- | --- | 23 | 7 |
| 702 Vandalism | 1 | --- | --- | --- | --- | 1 |
| 707 Improperly loaded car | 1 | 1 | --- | --- | --- | --- |
| 716 Other acts of God | 3 | 3 | --- | --- | --- | --- |
| 799 Other miscellaneous causes | 8 | --- | --- | 8 | --- | --- |
| SUBTOTAL..... | 43 | 4 | --- | 8 | 23 | 8 |
| GRAND TOTAL..... | 43 | 4 | --- | 8 | 23 | 8 |

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

TABLE 59. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

| Cause | Total Injured | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---------------|---|-----------------|-----------------|---------------------|------------------|
| MISC CAUSES NOT OTHERWISE LISTED | | | | | | |
| 700 Collision with hwy user at grade xing | 134 | 49 | 6 | 55 | --- | 16 |
| 702 Vandalism | 10 | 10 | --- | 10 | --- | --- |
| 703 Interference with RR oper -not vandals | 3 | 3 | --- | 3 | --- | --- |
| 707 Improperly loaded car | 1 | 1 | --- | 1 | --- | --- |
| 709 Object on or fouling track | 4 | 4 | --- | 4 | --- | --- |
| 710 Equipment on or fouling track | 6 | 4 | --- | 4 | --- | 2 |
| 713 Interaction of lateral/vertical forces | 53 | 5 | --- | 5 | 44 | --- |
| 715 Snow, ice, or mud on track | 1 | 1 | --- | 1 | --- | --- |
| 716 Other acts of God | 11 | 11 | --- | 11 | --- | --- |
| 717 Fire, other than vandalism, involving | 2 | 2 | --- | 2 | --- | --- |
| 799 Other miscellaneous causes | 38 | 2 | 9 | 11 | 7 | 19 |
| SUBTOTAL..... | 263 | 92 | 15 | 107 | 11 | 39 |
| GRAND TOTAL..... | 263 | 92 | 15 | 107 | 11 | 39 |

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

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

| Cause | | Total Killed | ...Employees On Duty... | | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---------------------------------------|--------------|-------------------------|-------|-----------------|--------------|------------------|---------------|
| | | | Trainmen | Other | Total | | | |
| FLAGGING, FIXED, HAND AND RADIO SIGNALS | | | | | | | | |
| 52A | Block signal, failure to comply | 2 | 2 | --- | 2 | --- | --- | --- |
| | SUBTOTAL..... | 2 | 2 | --- | 2 | --- | --- | --- |
| OTHER RULES AND INSTRUCTIONS | | | | | | | | |
| 543 | Trn ord(radio)err in prep/trans/deliv | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| SWITCHES, USE OF | | | | | | | | |
| 561 | Switch improperly lined | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 1 | --- | --- | --- | --- | --- | 1 |
| | GRAND TOTAL..... | 6 | 5 | --- | 5 | --- | --- | 1 |

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

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

| Cause | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---|------------------|---|-------|--------------------|-----------------|---------------------|------------------|
| BRAKES, USE OF | | | | | | | | |
| 502 | Failure to secure engine (R.R. emp.) | 1 | 1 | 1 | --- | --- | --- | --- |
| 505 | Failure to apply hnd brk on car (emp.) | 4 | 4 | 4 | --- | --- | --- | --- |
| 506 | Fail. to secure eng/car (Non R.R. emp) | 1 | 1 | 1 | --- | --- | --- | --- |
| 509 | Other causes involving use of brakes | 4 | 4 | 4 | --- | --- | --- | --- |
| SUBTOTAL..... | | 10 | 10 | 10 | --- | --- | --- | --- |
| EMPLOYEE PHYSICAL CONDITION | | | | | | | | |
| 513 | Employee falling asleep | 1 | 1 | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | | 1 | 1 | 1 | --- | --- | --- | --- |
| FLAGGING, FIXED, HAND AND RADIO SIGNALS | | | | | | | | |
| 52A | Block signal, failure to comply | 11 | 11 | 11 | --- | --- | --- | --- |
| 52B | Interlocking signal, failure to comply | 6 | 6 | 6 | --- | --- | --- | --- |
| 520 | Fixed signal, failure to comply | 8 | 8 | 8 | --- | --- | --- | --- |
| 521 | Flagging, improper or failure to flag | 2 | 2 | 2 | --- | --- | --- | --- |
| 529 | Flagging, fixed, hand & radio (other) | 2 | 2 | 2 | --- | --- | --- | --- |
| SUBTOTAL..... | | 29 | 29 | 29 | --- | --- | --- | --- |
| OTHER RULES AND INSTRUCTIONS | | | | | | | | |
| 532 | Derail, failure to apply or remove | 1 | 1 | 1 | --- | --- | --- | --- |
| 533 | Failure to stop train in clear | 9 | 9 | 9 | --- | --- | --- | --- |
| 535 | Instruction to trn/yard crew improper | 8 | 2 | 6 | --- | --- | --- | --- |
| 536 | Mtr car/on-trk eqp rules,fail to comply | 11 | 1 | 10 | --- | --- | --- | --- |
| 538 | Shoving move, missing man at lead | 5 | 4 | 4 | --- | --- | --- | 1 |
| 539 | Shoving movement, fail to control | 9 | 9 | 9 | --- | --- | --- | --- |
| 541 | Special op. instr., failure to comply | 3 | 2 | 1 | --- | --- | --- | --- |
| 542 | Trn ord/timetable auth, fail to comply | 5 | 5 | 5 | --- | --- | --- | --- |
| 543 | Trn ord(radio)err in prep/trans/deliv | 5 | 5 | 5 | --- | --- | --- | --- |
| 549 | Rules and instructions, other | 9 | 9 | 9 | --- | --- | --- | --- |
| SUBTOTAL..... | | 65 | 47 | 17 | 64 | --- | --- | 1 |
| SPEED | | | | | | | | |
| 550 | Coupling speed excessive | 1 | 1 | 1 | --- | --- | --- | --- |
| 554 | Trn inside yrd limit, excess speed | 3 | 3 | 3 | --- | --- | --- | --- |
| 555 | Trn out yrd limit,clear blk,excess spd | 18 | 2 | 3 | --- | 13 | --- | --- |
| 559 | Other Causes involving excessive speed | 7 | 6 | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | | 29 | 12 | 4 | 16 | 13 | --- | --- |
| SWITCHES, USE OF | | | | | | | | |
| 561 | Switch improperly lined | 8 | 6 | 6 | --- | --- | --- | 2 |
| 563 | Switch previously run through | 1 | 1 | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | | 9 | 7 | --- | 7 | --- | --- | 2 |
| MISCELLANEOUS | | | | | | | | |
| 570 | Buffing or slack action excessive | 7 | 5 | --- | 5 | --- | 2 | --- |
| SUBTOTAL..... | | 7 | 5 | --- | 5 | --- | 2 | --- |
| GRAND TOTAL..... | | 150 | 111 | 21 | 132 | 13 | 2 | 3 |

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

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

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

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

| Cause | Total Injured | ...Employees On Duty... | Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---------------|-------------------------|----------------|-------|-----------------|--------------|------------------|---------------|
| BRAKES | | | | | | | | |
| 402 Broken brake pipe or connections | 2 | --- | --- | --- | --- | --- | 2 | --- |
| 404 Other brake component failure, etc. | 1 | --- | 1 | 1 | --- | --- | --- | --- |
| 405 Brk valve malf. (undesired emergency) | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 409 Hand brk linkage/connections failure | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | 5 | 2 | 1 | 3 | --- | --- | 2 | --- |
| COUPLER AND DRAFT SYSTEM | | | | | | | | |
| 430 Knuckle broken or defective | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| AXLES AND JOURNAL BEARINGS | | | | | | | | |
| 450L Broken/bent between wheel seats-loco | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 451 Journal (plain) failure - overheating | 4 | 4 | --- | 4 | --- | --- | --- | --- |
| 452 Journal (R. B.) failure - overheat | 4 | 3 | --- | 3 | --- | --- | 1 | --- |
| SUBTOTAL..... | 9 | 8 | --- | 8 | --- | --- | 1 | --- |
| WHEELS | | | | | | | | |
| 466L Damaged flange or tread, flat - loco | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| LOCOMOTIVES | | | | | | | | |
| 473L Oil fire - locomotive | 2 | 2 | --- | 2 | --- | --- | --- | --- |
| SUBTOTAL..... | 2 | 2 | --- | 2 | --- | --- | --- | --- |
| GRAND TOTAL..... | 18 | 14 | 1 | 15 | --- | --- | 3 | --- |

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

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

There were no fatalities reported in connection with train accidents caused by defects in track, roadbed and structures.

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

| Cause | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---|---------------|---|------------|-----------------|-----------------|---------------------|------------------|
| ROADBED DEFECTS | | | | | | | | |
| 101 | Roadbed settled or soft | 1 | 1 | --- | 1 | --- | --- | --- |
| 102 | Washout/rain/slide/ice, etc. dmg to trk | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 4 | 4 | --- | 4 | --- | --- | --- |
| TRACK GEOMETRY DEFECTS | | | | | | | | |
| 110 | Wide gage (defect/missing crossties) | 6 | 2 | 3 | 5 | --- | --- | 1 |
| 115 | Track alignment irregular (buckled) | 4 | 4 | --- | 4 | --- | --- | --- |
| 118 | Superelevation runoff improper | 1 | 1 | --- | 1 | --- | --- | --- |
| | SUBTOTAL..... | 11 | 7 | 3 | 10 | --- | --- | 1 |
| RAIL AND JOINT BAR DEFECTS | | | | | | | | |
| 132 | Broken weld, field | 1 | 1 | --- | 1 | --- | --- | --- |
| 134 | Detail fracture fm shelling/head check | 2 | 2 | --- | 2 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| FROGS, SWITCHES AND TRACK APPLIANCES | | | | | | | | |
| 163 | Switch connecting/oper. rod fail. | 3 | 3 | --- | 3 | --- | --- | --- |
| 165 | Switch point worn or broken | 2 | 2 | --- | 2 | --- | --- | --- |
| | SUBTOTAL..... | 5 | 5 | --- | 5 | --- | --- | --- |
| OTHER WAY AND STRUCTURES | | | | | | | | |
| 189 | Other way and structure causes | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| SIGNAL AND COMMUNICATION FAILURES | | | | | | | | |
| 203 | Block signal displayed false proceed | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| | GRAND TOTAL..... | 29 | 25 | 3 | 28 | --- | --- | 1 |

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

CASUALTIES IN TRAIN INCIDENTS

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

| Occurrence | | Total Killed | ...Employees On Duty... | ... | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---|--------------|-------------------------|-------|-----------------|--------------|------------------|---------------|
| | | | Trainmen | Other | Total | | | |
| 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 SWITCHES OR DERAILS | | | | | | | | |
| 304T | Struck by moving on-track equipment | 1 | 1 | --- | 1 | --- | --- | --- |
| | SUBTOTAL..... | 1 | 1 | --- | 1 | --- | --- | --- |
| CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS | | | | | | | | |
| 401T | Persons on top locos/cars contacting fixed objects - equipment mov | 1 | --- | --- | --- | --- | --- | 1 |
| 402T | Persons on side/end of locos/cars contacting fixed objects - eqp mov | 1 | 1 | --- | 1 | --- | --- | --- |
| | SUBTOTAL..... | 2 | 1 | --- | 1 | --- | --- | 1 |
| GETTING ON OR OFF CARS OR LOCOMOTIVES | | | | | | | | |
| 507T | Falling, slipping, tripping, not elsewhere classified - eqp moving | 2 | --- | --- | --- | --- | --- | 2 |
| 513T | Jumping from equipment - equipment moving | 1 | --- | --- | --- | --- | --- | 1 |
| 519T | Other acc/inc while getting on or off cars or locos - equipment mov | 2 | --- | --- | --- | --- | --- | 2 |
| | SUBTOTAL..... | 5 | --- | --- | --- | --- | --- | 5 |
| COLLISIONS, DERAILMENTS, ETC.(\$DMG BELOW THRESHOLD) | | | | | | | | |
| 601T | Casualty resulting fm a collision which did not satisfy \$ threshold | 1 | 1 | --- | 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) | 13 | --- | --- | --- | --- | --- | 13 |
| | SUBTOTAL..... | 15 | 2 | --- | 2 | --- | --- | 13 |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | | |
| 609T | Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov | 532 | 1 | --- | 1 | --- | 402 | 129 |
| 610T | Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov | 39 | --- | --- | --- | --- | 36 | 3 |
| | SUBTOTAL..... | 571 | 1 | --- | 1 | --- | 438 | 132 |
| STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS) | | | | | | | | |
| 701T | Standing, walking or running on or along track - equipment moving | 188 | 3 | 1 | 4 | 1 | 5 | 178 |
| 702T | Crossing track at private rail-highway crossing - equipment moving | 5 | --- | --- | --- | --- | 1 | 4 |
| 703T | Crossing track not at a crossing - equipment moving | 36 | --- | --- | --- | --- | 3 | 33 |
| 705T | On bridges or trestles - equipment moving | 23 | --- | --- | --- | --- | 1 | 22 |
| 706T | Sitting or lying on track or near track, not in clear - eqp moving | 181 | --- | --- | --- | --- | 4 | 177 |
| 707T | While working on or along track - equipment moving | 1 | --- | 1 | 1 | --- | --- | --- |
| 708T | Passing over, through, or under cars - equipment moving | 11 | --- | --- | --- | --- | --- | 11 |
| 709T | Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov | 43 | --- | --- | --- | --- | 1 | 42 |
| | SUBTOTAL..... | 488 | 3 | 2 | 5 | 1 | 15 | 467 |

TABLE 66. (CONTINUED)

| Occurrence | | Total Killed | ...Employees On Duty... | | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---|-----------------|-------------------------|-------|--------------------|-----------------|---------------------|------------------|
| | | | Trainmen | Other | Total | | | |
| MAINTENANCE OF WAY AND STRUCTURES | | | | | | | | |
| 853T | Striking or being struck by eqp, structures, or material-eqp mov | 1 | --- | --- | --- | --- | 1 | --- |
| | SUBTOTAL..... | 1 | --- | --- | --- | --- | 1 | --- |
| FREIGHT, BAGGAGE, EXPRESS OR MAIL | | | | | | | | |
| 901T | Handling freight, baggage, express or mail-eqp moving | 1 | --- | --- | --- | --- | --- | 1 |
| 902T | Struck or caught by shifted lading-eqp moving | 2 | --- | --- | --- | --- | --- | 2 |
| | SUBTOTAL..... | 3 | --- | --- | --- | --- | --- | 3 |
| STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED | | | | | | | | |
| 935T | From bridges of trestles-equipment moving | 4 | 1 | --- | 1 | --- | --- | 3 |
| 938T | While on locomotive or car-equipment moving | 2 | 1 | --- | 1 | --- | --- | 1 |
| 939T | Other, stumbling, slipping, falling, caught, etc. - equipment moving | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 7 | 2 | --- | 2 | --- | --- | 5 |
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | | |
| 941T | Struck by flying or falling object (except assaults)-eqp mov | 1 | --- | --- | --- | --- | --- | 1 |
| 947T | Electrical inj from contact with catenary, 3rd rail, etc., equipment moving | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 2 | --- | --- | --- | --- | --- | 2 |
| OPERATION OF ON-TRACK WORK EQUIPMENT | | | | | | | | |
| 959T | Other A/I involving on-track work equipment - equipment moving | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 1 | --- | --- | --- | --- | --- | 1 |
| OTHER OCCURRENCES | | | | | | | | |
| 989T | Other accidents/incidents-equipment moving | 13 | 1 | --- | 1 | --- | --- | 12 |
| | SUBTOTAL..... | 13 | 1 | --- | 1 | --- | --- | 12 |
| | GRAND TOTAL..... | 1,110 | 12 | 2 | 14 | 1 | 454 | 641 |

NOTE: Contractor employees are included with nontrespassers

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

| Occurrence | | Total Injured | ...Employees On Duty... | | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---|------------------|-------------------------|-----|-------|--------------------|-----------------|---------------------|------------------|
| COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS | | | | | | | | | |
| 001T | Adjusting coupler, equipment moving unexpectedly | 17 | 17 | --- | 17 | --- | --- | --- | --- |
| 002T | Adjusting coupler - equipment moving | 13 | 12 | 1 | 13 | --- | --- | --- | --- |
| 003T | Crossing over, under or between on-track equipment, equipment moving | 2 | 1 | 1 | 2 | --- | --- | --- | --- |
| 004T | Adjusting coupler, part of coupler fell striking person - eqp moving | 6 | 6 | --- | 6 | --- | --- | --- | --- |
| 005T | Use of uncoupling lever - equipment moving | 48 | 48 | --- | 48 | --- | --- | --- | --- |
| 006T | Use of uncoupling lever - equipment moving unexpectedly | 2 | 2 | --- | 2 | --- | --- | --- | --- |
| 007T | Striking parts of body against equipment - equipment moving | 20 | 18 | 2 | 20 | --- | --- | --- | --- |
| 008T | Stumbled, slipped, fell, etc. on foreign obj/irreg surface-eqp moving | 27 | 26 | 1 | 27 | --- | --- | --- | --- |
| 009T | Other acc/inc while coupling/uncoupling cars or locos - equip moving | 57 | 55 | 2 | 57 | --- | --- | --- | --- |
| SUBTOTAL..... | | 192 | 185 | 7 | 192 | --- | --- | --- | --- |
| COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC. | | | | | | | | | |
| 052T | Uncoupl air hose, struck by hose due to sudden release of air-eqp mov | 6 | 4 | 2 | 6 | --- | --- | --- | --- |
| 053T | Coupling air hose, stl by hose due to sudden release of air - eqp mov | 2 | 1 | 1 | 2 | --- | --- | --- | --- |
| 054T | Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp moving | 5 | 5 | --- | 5 | --- | --- | --- | --- |
| 055T | Defective equipment - equipment moving | 2 | 2 | --- | 2 | --- | --- | --- | --- |
| 057T | Opening or closing angle cocks - equipment moving | 4 | 3 | 1 | 4 | --- | --- | --- | --- |
| 059T | Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov | 11 | 11 | --- | 11 | --- | --- | --- | --- |
| SUBTOTAL..... | | 30 | 26 | 4 | 30 | --- | --- | --- | --- |
| OPERATING OR ON LOCOMOTIVES | | | | | | | | | |
| 101T | Burn or electrical shock - equipment moving | 7 | 7 | --- | 7 | --- | --- | --- | --- |
| 102T | Striking parts of body against equipment, moving about loco-eqp mov | 30 | 26 | 4 | 30 | --- | --- | --- | --- |
| 103T | Struck by tools or other objects falling - equipment moving | 17 | 16 | 1 | 17 | --- | --- | --- | --- |
| 104T | Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving | 45 | 44 | 1 | 45 | --- | --- | --- | --- |
| 105T | Checking, oiling, servicing locomotive, etc. - equipment moving | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 106T | Unexpected movement of locomotive, other than slack action | 80 | 77 | 3 | 80 | --- | --- | --- | --- |
| 107T | Slack action in locomotive | 85 | 85 | --- | 85 | --- | --- | --- | --- |
| 108T | Striking parts of body against equipment due to sudden stop of loco | 72 | 72 | --- | 72 | --- | --- | --- | --- |
| 109T | Inhalation of or contact with fumes or gases - equipment moving | 25 | 25 | --- | 25 | --- | --- | --- | --- |
| 110T | Defective locomotive seat - equipment moving | 40 | 40 | --- | 40 | --- | --- | --- | --- |
| 111T | Adjusting locomotive seat - equipment moving | 7 | 7 | --- | 7 | --- | --- | --- | --- |
| 112T | Foreign object in eye - equipment moving | 145 | 144 | 1 | 145 | --- | --- | --- | --- |
| 119T | Other accidents/incidents while operating locomotives - eqp moving | 118 | 116 | 2 | 118 | --- | --- | --- | --- |
| SUBTOTAL..... | | 672 | 660 | 12 | 672 | --- | --- | --- | --- |
| OPERATING RAIL MOTORCARS | | | | | | | | | |
| 151T | Striking parts of body against equipment - equipment moving | 6 | 3 | 3 | 6 | --- | --- | --- | --- |
| 153T | Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 154T | Unexpected movement of rail motorcar | 1 | --- | 1 | 1 | --- | --- | --- | --- |
| 159T | Other accidents/incidents while operating rail motorcars - eqp mov | 5 | 4 | 1 | 5 | --- | --- | --- | --- |
| SUBTOTAL..... | | 13 | 8 | 5 | 13 | --- | --- | --- | --- |

TABLE 67. (CONTINUED)

| Occurrence | Total Injured | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---------------|---|-----------------|-----------------|---------------------|------------------|
| OPERATING HAND BRAKES | | | | | | |
| 200T Manipulating hand brakes, no defects, equipment moving | 37 | 36 | 1 | 37 | --- | --- |
| 201T Defective equipment - equipment moving | 6 | 6 | --- | 6 | --- | --- |
| 203T Striking body due to movement of equipment | 13 | 13 | --- | 13 | --- | --- |
| 204T Losing hold, slipping or falling due to coupling impact | 5 | 5 | --- | 5 | --- | --- |
| 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 | 12 | 11 | 1 | 12 | --- | --- |
| 208T Caught hand or fingers in spinning brake wheel - equipment moving | 1 | 1 | --- | 1 | --- | --- |
| 209T Other accidents/incidents while operating hand brakes - eqp moving | 14 | 13 | --- | 13 | --- | 1 |
| SUBTOTAL..... | 98 | 95 | 2 | 97 | --- | 1 |
| OPERATING SWITCHES OR DERAILS | | | | | | |
| 304T Struck by moving on-track equipment | 5 | 5 | --- | 5 | --- | --- |
| 309T Other acc/inc while operating switches/derails - equipment moving | 9 | 8 | 1 | 9 | --- | --- |
| SUBTOTAL..... | 14 | 13 | 1 | 14 | --- | --- |
| CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS | | | | | | |
| 401T Persons on top locos/cars contacting fixed objects - equipment mov | 5 | 5 | --- | 5 | --- | --- |
| 402T Persons on side/end of locos/cars contacting fixed objects - eqp mov | 49 | 46 | 2 | 48 | --- | 1 |
| 409T Persons on loco/car coming in contact with fixed obj(other)-eqp mov | 17 | 14 | 3 | 17 | --- | --- |
| SUBTOTAL..... | 71 | 65 | 5 | 70 | --- | 1 |
| GETTING ON OR OFF CARS OR LOCOMOTIVES | | | | | | |
| 501T Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp mov | 32 | 31 | 1 | 32 | --- | --- |
| 502T Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp mov | 75 | 70 | 5 | 75 | --- | --- |
| 503T Stepping or tripping on parts of track in place - equipment moving | 23 | 23 | --- | 23 | --- | --- |
| 504T Stepping or tripping on foreign material or irreg surface - eqp mov | 122 | 117 | 4 | 121 | --- | 1 |
| 505T Slipping on ice or snow on ground - equipment moving | 14 | 14 | --- | 14 | --- | --- |
| 506T Slipping on ice/snow on cars or locomotives - equipment moving | 7 | 6 | 1 | 7 | --- | --- |
| 507T Falling, slipping, tripping, not elsewhere classified - eqp moving | 68 | 50 | 3 | 53 | 3 | 12 |
| 508T Slipping/falling while boarding/alighting fm passenger eqp (moving) | 11 | 3 | 1 | 4 | 6 | 1 |
| 510T Striking body or falling due to sudden movement of equipment | 27 | 19 | 2 | 21 | 5 | 1 |
| 511T Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov | 22 | 20 | 2 | 22 | --- | --- |
| 513T Jumping from equipment - equipment moving | 53 | 40 | 2 | 42 | 7 | 4 |
| 514T Defective equipment - equipment moving | 13 | 13 | --- | 13 | --- | --- |
| 519T Other acc/inc while getting on or off cars or locos - equipment mov | 138 | 123 | 7 | 130 | --- | 8 |
| SUBTOTAL..... | 605 | 529 | 28 | 557 | 21 | 27 |

TABLE 67. (CONTINUED)

| Occurrence | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---|---------------|---|-------|-----------------|-----------------|---------------------|------------------|
| COLLISIONS, DERAILMENTS, ETC.(\$DMG BELOW THRESHOLD) | | | | | | | | |
| 601T | Casualty resulting fm a collision which did not satisfy \$ threshold | 34 | 30 | 3 | 33 | --- | --- | 1 |
| 602T | Casualty resulting fm a derailment which did not satisfy \$ threshold | 46 | 36 | 6 | 42 | --- | 4 | --- |
| 603T | Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing) | 43 | 18 | 3 | 21 | --- | --- | 3 |
| | SUBTOTAL..... | 123 | 84 | 12 | 96 | --- | 4 | 4 |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | | |
| 609T | Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov | 1,774 | 63 | 8 | 71 | --- | 2 | 1,490 |
| 610T | Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov | 141 | 17 | --- | 17 | --- | --- | 117 |
| | SUBTOTAL..... | 1,915 | 80 | 8 | 88 | --- | 2 | 1,607 |
| STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS) | | | | | | | | |
| 701T | Standing, walking or running on or along track - equipment moving | 152 | 12 | 3 | 15 | --- | --- | 2 |
| 702T | Crossing track at private rail-highway crossing - equipment moving | 1 | --- | 1 | 1 | --- | --- | --- |
| 703T | Crossing track not at a crossing - equipment moving | 32 | 1 | --- | 1 | --- | --- | 2 |
| 704T | While on public thoroughfare - equipment moving | 3 | --- | --- | --- | --- | --- | 1 |
| 705T | On bridges or trestles - equipment moving | 15 | 1 | --- | 1 | --- | --- | 14 |
| 706T | Sitting or lying on track or near track, not in clear - eqp moving | 96 | --- | --- | --- | --- | --- | 3 |
| 707T | While working on or along track - equipment moving | 20 | 8 | 7 | 15 | --- | --- | 3 |
| 708T | Passing over, through, or under cars - equipment moving | 46 | --- | --- | --- | --- | --- | 46 |
| 709T | Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov | 62 | 10 | 1 | 11 | --- | --- | 5 |
| | SUBTOTAL..... | 427 | 32 | 12 | 44 | --- | --- | 16 |
| SERVICING OR MAINTENANCE OF EQUIPMENT | | | | | | | | |
| 800T | Absence of fixed signal (Blue Signal) - equipment moving | 1 | --- | 1 | 1 | --- | --- | --- |
| 802T | Crossing over, under, or between locos or cars - equipment moving | 2 | --- | 2 | 2 | --- | --- | --- |
| 803T | Striking or being struck by eqp, structures, or material-eqp mov | 14 | --- | 14 | 14 | --- | --- | --- |
| 815T | Moving equipment for repairs | 23 | 1 | 22 | 23 | --- | --- | --- |
| 825T | Other acc/inc while servicing or maintaining eqp-eqp moving | 15 | 2 | 13 | 15 | --- | --- | --- |
| | SUBTOTAL..... | 55 | 3 | 52 | 55 | --- | --- | --- |
| MAINTENANCE OF WAY AND STRUCTURES | | | | | | | | |
| 852T | Crossing over, under, or between locos or cars-eqp moving | 3 | --- | 2 | 2 | --- | --- | 1 |
| 853T | Striking or being struck by eqp, structures, or material-eqp mov | 63 | --- | 61 | 61 | --- | --- | 2 |
| 899T | Other accs/incs while maintaining way and structures - eqp moving | 28 | --- | 27 | 27 | --- | --- | 1 |
| | SUBTOTAL..... | 94 | --- | 90 | 90 | --- | --- | 4 |
| FREIGHT, BAGGAGE, EXPRESS OR MAIL | | | | | | | | |
| 901T | Handling freight, baggage, express or mail-eqp moving | 7 | 2 | 5 | 7 | --- | --- | --- |
| 903T | Tripping over, or struck by falling baggage in passenger car-eqp mov | 2 | 1 | --- | 1 | --- | 1 | --- |
| 904T | Other acc/inc involving freight, baggage, express, or mail - eqp mov | 1 | --- | 1 | 1 | --- | --- | --- |
| | SUBTOTAL..... | 10 | 3 | 6 | 9 | --- | 1 | --- |

TABLE 67. (CONTINUED)

| Occurrence | Total Injured | ...Employees On Duty... Trainmen | Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---------------|----------------------------------|-------|-------|-----------------|--------------|------------------|---------------|
| WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT | | | | | | | | |
| 907T Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving | 9 | --- | 9 | 9 | --- | --- | --- | --- |
| 908T Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov | 4 | 1 | 3 | 4 | --- | --- | --- | --- |
| 909T Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov | 5 | 1 | 4 | 5 | --- | --- | --- | --- |
| 910T Closing or opening plug type car doors, defective equipment-eqp mov | 2 | --- | 2 | 2 | --- | --- | --- | --- |
| 911T Closing or opening plug type car doors, no defects-equipment mov | 2 | --- | --- | --- | --- | 2 | --- | --- |
| 912T Closing or opening coach trap doors-equipment moving | 6 | 3 | 3 | 6 | --- | --- | --- | --- |
| 913T Interior doors-equipment moving | 21 | 10 | 6 | 16 | --- | 5 | --- | --- |
| 914T Opening or closing locomotive doors-equipment moving | 25 | 24 | 1 | 25 | --- | --- | --- | --- |
| 915T Opening or closing locomotive windows-equipment moving | 8 | 8 | --- | 8 | --- | --- | --- | --- |
| 916T Opening or closing caboose doors-equipment moving | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 918T Opening and closing other windows-equipment moving | 4 | 3 | --- | 3 | --- | 1 | --- | --- |
| 919T Other accidents/incidents involving windows or doors-eqp mov | 31 | 24 | 6 | 30 | --- | 1 | --- | --- |
| SUBTOTAL..... | 118 | 75 | 34 | 109 | --- | 9 | --- | --- |
| PASSENGER CAR DOORS | | | | | | | | |
| 920T Caught by side doors while entering coach-equipment moving | 1 | --- | --- | --- | --- | 1 | --- | --- |
| 921T Caught by side doors while exiting coach-equipment moving | 2 | 1 | --- | 1 | --- | 1 | --- | --- |
| 922T Dragged by train while caught in side doors, entering coach | 1 | --- | --- | --- | --- | 1 | --- | --- |
| 924T Struck by side doors while entering coach-equipment moving | 1 | --- | --- | --- | --- | 1 | --- | --- |
| 927T Striking side door while exiting coach-equipment moving | 1 | --- | 1 | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | 6 | 1 | 1 | 2 | --- | 4 | --- | --- |
| STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED | | | | | | | | |
| 930T Stumbling/slipping, etc. on snow or ice - equipment moving | 13 | 9 | 3 | 12 | --- | 1 | --- | --- |
| 931T Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov | 36 | 32 | 2 | 34 | 1 | --- | --- | 1 |
| 932T Stumbling/slipping, etc. on parts of track in place-equipment moving | 9 | 7 | --- | 7 | --- | --- | --- | 2 |
| 934T Slip/fall, etc. between loco/car and other cars and struct-eqp mov | 9 | 4 | 1 | 5 | --- | 1 | 1 | 2 |
| 935T From bridges of trestles-equipment moving | 6 | --- | 4 | 4 | --- | --- | --- | 2 |
| 936T From structures other than bridges or trestles-equipment moving | 2 | --- | 2 | 2 | --- | --- | --- | --- |
| 937T Into depressions - equipment moving | 7 | 6 | 1 | 7 | --- | --- | --- | --- |
| 938T While on locomotive or car-equipment moving | 90 | 47 | 18 | 65 | 1 | 20 | --- | 4 |
| 939T Other, stumbling, slipping, falling, caught, etc. - equipment moving | 43 | 13 | 5 | 18 | 1 | 3 | 2 | 19 |
| SUBTOTAL..... | 215 | 118 | 36 | 154 | 3 | 25 | 3 | 30 |
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | | |
| 940T Foreign object in eye-equipment moving | 76 | 71 | 4 | 75 | 1 | --- | --- | --- |
| 941T Struck by flying or falling object (except assaults)-eqp mov | 27 | 13 | 10 | 23 | --- | 2 | --- | 2 |
| 942T Electrical flash, shock or burn-equipment moving | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 943T Fire or explosion of fuses or torpedoes-equipment moving | 1 | 1 | --- | 1 | --- | --- | --- | --- |
| 945T Burned by hot or corrosive substances-equipment moving | 16 | 10 | 4 | 14 | --- | 2 | --- | --- |
| 946T Inhalation of or contact with fumes or gases-equipment moving | 23 | 16 | --- | 16 | --- | 7 | --- | --- |
| 947T Electrical inj from contact with catenary, 3rd rail, etc., equipment moving | 1 | --- | --- | --- | --- | --- | --- | 1 |
| 949T Other A/I resulting from flying/falling objs, burns, etc. - eqp mov | 10 | 7 | 1 | 8 | --- | --- | 2 | --- |
| SUBTOTAL..... | 155 | 119 | 19 | 138 | 1 | 11 | 2 | 3 |

TABLE 67. (CONTINUED)

| Occurrence | | Total Injured | Employees On Duty... Trainmen | Other | Emp Not On Duty | Passengers | Nontrespassers | Trespassers |
|--------------------------------------|---|---------------|-------------------------------|-------|-----------------|------------|----------------|-------------|
| | | | | | | | | |
| OPERATION OF ON-TRACK WORK EQUIPMENT | | | | | | | | |
| 950T | Collision with train or car | 4 | 1 | 3 | 4 | --- | --- | --- |
| 951T | Collision with other on-track work equipment | 24 | --- | 24 | 24 | --- | --- | --- |
| 952T | Jumping from equipment in anticipation of a collision | 7 | 3 | 4 | 7 | --- | --- | --- |
| 953T | Deraillment that does not satisfy monetary threshold | 20 | 1 | 17 | 18 | --- | 2 | --- |
| 954T | Getting on/off on-track work equipment - equipment moving | 7 | --- | 7 | 7 | --- | --- | --- |
| 959T | Other A/I involving on-track work equipment - equipment moving | 20 | --- | 19 | 19 | --- | 1 | --- |
| SUBTOTAL..... | | 82 | 5 | 74 | 79 | --- | 3 | --- |
| ASSAULT | | | | | | | | |
| 96AT | Shot while on moving on-track equipment | 6 | 6 | --- | 6 | --- | --- | --- |
| 96CT | Struck by other propelled object while on locomotive - equip moving | 35 | 35 | --- | 35 | --- | --- | --- |
| 96DT | Struck by other propelled object while on car - equip moving | 3 | 3 | --- | 3 | --- | --- | --- |
| 96ET | Struck by other propelled object while on caboose - equip moving | 4 | 4 | --- | 4 | --- | --- | --- |
| 96GT | Other unprovoked assaults to persons on moving on-track equipment | 16 | 10 | 4 | 14 | 2 | --- | --- |
| 96JT | Shot while on moving on-track equipment | 1 | 1 | --- | 1 | --- | --- | --- |
| 96LT | Other assaults connected with the protection of RR property - eqp moving | 1 | --- | 1 | 1 | --- | --- | --- |
| 96MT | All other assaults involving moving on-track equipment | 2 | 2 | --- | 2 | --- | --- | --- |
| SUBTOTAL..... | | 68 | 61 | 5 | 66 | 2 | --- | --- |
| OTHER OCCURRENCES | | | | | | | | |
| 971T | Loco or car coming against car placed for loading or unloading | 2 | 1 | --- | 1 | --- | 1 | --- |
| 972T | Sudden movement of car, not otherwise classified | 23 | 16 | 3 | 19 | 4 | --- | --- |
| 974T | Slack action in caboose | 28 | 27 | --- | 27 | --- | 1 | --- |
| 975T | Slack action, other | 45 | 41 | 3 | 44 | --- | --- | 1 |
| 977T | Emergency or severe application of air brakes not due to def eqp | 7 | 6 | --- | 6 | 1 | --- | --- |
| 986T | Unexpected move of caboose, not slack action (include emergency & severe braking) | 4 | 4 | --- | 4 | --- | --- | --- |
| 988T | Other accidents/incidents while in caboose, equipment moving | 22 | 22 | --- | 22 | --- | --- | --- |
| 989T | Other accidents/incidents-equipment moving | 123 | 52 | 33 | 85 | 12 | 9 | 16 |
| SUBTOTAL..... | | 254 | 169 | 39 | 208 | 17 | 11 | 17 |
| GRAND TOTAL..... | | 5,217 | 2,331 | 452 | 2,783 | 96 | 1,651 | 682 |

NOTE: Contractor employees are included with nontrespassers

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

| Occurrence | | Total Illness | ...Employees On Duty... | | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---|------------------|-------------------------|-------|--------------------|-----------------|---------------------|------------------|
| | | Trainmen | Other | Total | | | | |
| OPERATING OR ON LOCOMOTIVES | | | | | | | | |
| 106T | Unexpected movement of locomotive, other than slack action | 1 | 1 | --- | 1 | --- | --- | --- |
| 107T | Slack action in locomotive | 1 | 1 | --- | 1 | --- | --- | --- |
| 109T | Inhalation of or contact with fumes or gases - equipment moving | 31 | 31 | --- | 31 | --- | --- | --- |
| 110T | Defective locomotive seat - equipment moving | 1 | 1 | --- | 1 | --- | --- | --- |
| 119T | Other accidents/incidents while operating locomotives - eqp moving | 20 | 20 | --- | 20 | --- | --- | --- |
| SUBTOTAL..... | | 54 | 54 | --- | 54 | --- | --- | --- |
| OPERATING SWITCHES OR DERAILS | | | | | | | | |
| 309T | Other acc/inc while operating switches/derails - equipment moving | 2 | 2 | --- | 2 | --- | --- | --- |
| SUBTOTAL..... | | 2 | 2 | --- | 2 | --- | --- | --- |
| GETTING ON OR OFF CARS OR LOCOMOTIVES | | | | | | | | |
| 519T | Other acc/inc while getting on or off cars or locos - equipment mov | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | 1 | --- | 1 | --- | --- | --- |
| COLLISIONS, DERAILMENTS, ETC.(\$DMG BELOW THRESHOLD) | | | | | | | | |
| 603T | Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing) | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | 1 | --- | 1 | --- | --- | --- |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | | |
| 609T | Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov | 3 | 3 | --- | 3 | --- | --- | --- |
| 610T | Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 4 | 4 | --- | 4 | --- | --- | --- |
| STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS) | | | | | | | | |
| 701T | Standing, walking or running on or along track - equipment moving | 2 | 2 | --- | 2 | --- | --- | --- |
| SUBTOTAL..... | | 2 | 2 | --- | 2 | --- | --- | --- |
| MAINTENANCE OF WAY AND STRUCTURES | | | | | | | | |
| 899T | Other accs/incs while maintaining way and structures - eqp moving | 1 | --- | 1 | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | --- | 1 | 1 | --- | --- | --- |
| WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT | | | | | | | | |
| 919T | Other accidents/incidents involving windows or doors-eqp mov | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | 1 | --- | 1 | --- | --- | --- |
| STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED | | | | | | | | |
| 939T | Other, stumbling, slipping, falling, caught, etc. - equipment moving | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | 1 | --- | 1 | --- | --- | --- |
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | | |
| 945T | Burned by hot or corrosive substances-equipment moving | 1 | --- | 1 | 1 | --- | --- | --- |
| 946T | Inhalation of or contact with fumes or gases-equipment moving | 11 | 10 | 1 | 11 | --- | --- | --- |
| SUBTOTAL..... | | 12 | 10 | 2 | 12 | --- | --- | --- |
| OTHER OCCURRENCES | | | | | | | | |
| 989T | Other accidents/incidents-equipment moving | 6 | 5 | 1 | 6 | --- | --- | --- |
| SUBTOTAL..... | | 6 | 5 | 1 | 6 | --- | --- | --- |
| GRAND TOTAL..... | | 85 | 81 | 4 | 85 | --- | --- | --- |

NOTE: Contractor employees are included with nontrespassers

CASUALTIES IN NON-TRAIN INCIDENTS

TABLE 69. FATALITIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

| Occurrence | | Total Killed | ...Employees On Duty... | ... | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|--|--------------|-------------------------|-------|-----------------|--------------|------------------|---------------|
| | | | Trainmen | Other | Total | | | |
| COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC. | | | | | | | | |
| 057 | Opening or closing angle cocks - equipment standing | 1 | 1 | --- | 1 | --- | --- | --- |
| | SUBTOTAL..... | 1 | 1 | --- | 1 | --- | --- | --- |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | | |
| 609 | Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std | 6 | --- | --- | --- | --- | 6 | --- |
| 610 | Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std | 1 | --- | --- | --- | --- | 1 | --- |
| | SUBTOTAL..... | 7 | --- | --- | --- | --- | 7 | --- |
| STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS) | | | | | | | | |
| 701 | Standing, walking or running on or along track - equipment standing | 1 | --- | --- | --- | --- | --- | 1 |
| 709 | Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std | 3 | --- | --- | --- | --- | 1 | 2 |
| | SUBTOTAL..... | 4 | --- | --- | --- | --- | 1 | 3 |
| SERVICING OR MAINTENANCE OF EQUIPMENT | | | | | | | | |
| 824 | Stumbling, slipping, falling, caught, not elsewhere classified | 1 | --- | 1 | 1 | --- | --- | --- |
| | SUBTOTAL..... | 1 | --- | 1 | 1 | --- | --- | --- |
| STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED | | | | | | | | |
| 935 | From bridges or trestles | 2 | 1 | --- | 1 | --- | --- | 1 |
| 939 | Other, stumbling, slipping, falling, caught, etc. | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 3 | 1 | --- | 1 | --- | --- | 2 |
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | | |
| 941 | Struck by flying or falling object (except assaults) | 1 | --- | --- | --- | --- | 1 | --- |
| 947 | Electrical injury due to contact with catenary, pantograph or 3rd rail | 3 | --- | --- | --- | --- | --- | 3 |
| | SUBTOTAL..... | 4 | --- | --- | --- | --- | 1 | 3 |
| ASSAULT | | | | | | | | |
| 96B | Shooting incidents not involving persons on on-track equipment | 2 | --- | 2 | 2 | --- | --- | --- |
| 96G | All other unprovoked assaults | 1 | --- | --- | --- | --- | --- | 1 |
| | SUBTOTAL..... | 3 | --- | 2 | 2 | --- | --- | 1 |
| OTHER OCCURRENCES | | | | | | | | |
| 970 | Performing rerailling or other clearing operations | 1 | --- | 1 | 1 | --- | --- | --- |
| 978 | Motor vehicle acc/inc (other than rail-highway grade crossing) | 6 | --- | 5 | 5 | --- | --- | 1 |
| 989 | Other accidents/incidents | 5 | --- | 1 | 1 | --- | 1 | 3 |
| | SUBTOTAL..... | 12 | --- | 7 | 7 | --- | 1 | 4 |
| | GRAND TOTAL..... | 35 | 2 | 10 | 12 | --- | 10 | 13 |

NOTE: Contractor employees are included with nontrespassers

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

| Occurrence | Total Injured | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---------------|---|-----------------|-----------------|---------------------|------------------|
| COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS | | | | | | |
| 002 Adjusting coupler - equipment standing | 163 | 160 | 3 | 163 | --- | --- |
| 003 Crossing over, under or between on-track equipment, equipment standing | 6 | 6 | --- | 6 | --- | --- |
| 004 Adjusting coupler, part of coupler fell striking person-eqp standing | 29 | 28 | 1 | 29 | --- | --- |
| 005 Use of uncoupling lever - equipment standing | 37 | 34 | 3 | 37 | --- | --- |
| 007 Striking parts of body against equipment - equipment standing | 24 | 23 | 1 | 24 | --- | --- |
| 008 Stumbled, slipped, fell, stepped on foreign obj/irreg surface-eqp std | 65 | 61 | 4 | 65 | --- | --- |
| 009 Other acc/inc while coupling/uncoupling cars or locos - equip std | 95 | 87 | 5 | 92 | 3 | --- |
| SUBTOTAL..... | 419 | 399 | 17 | 416 | 3 | --- |
| COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC. | | | | | | |
| 051 Crossing over, under or between on-track equipment, equipment standing | 4 | 4 | --- | 4 | --- | --- |
| 052 Uncoupl air hose, struck by hose due to sudden release of air-eqp std | 22 | 17 | 5 | 22 | --- | --- |
| 053 Coupling air hose, stk by hose due to sudden release of air - eqp std | 15 | 14 | 1 | 15 | --- | --- |
| 054 Stumbled, slipped, fell, or stepped on foreign obj, etc., eqp standing | 44 | 39 | 5 | 44 | --- | --- |
| 055 Defective equipment - equipment standing | 7 | 7 | --- | 7 | --- | --- |
| 056 Burned by hot water or steam from hose - equipment standing | 1 | --- | 1 | 1 | --- | --- |
| 057 Opening or closing angle cocks - equipment standing | 32 | 31 | 1 | 32 | --- | --- |
| 059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std | 114 | 96 | 18 | 114 | --- | --- |
| SUBTOTAL..... | 239 | 208 | 31 | 239 | --- | --- |
| OPERATING OR ON LOCOMOTIVES | | | | | | |
| 101 Burn or electrical shock - equipment standing | 8 | 6 | 2 | 8 | --- | --- |
| 102 Striking parts of body against equipment, moving about loco-eqp std | 52 | 47 | 5 | 52 | --- | --- |
| 103 Struck by tools or other objects falling - equipment standing | 13 | 8 | 5 | 13 | --- | --- |
| 104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std | 149 | 128 | 21 | 149 | --- | --- |
| 105 Checking, oiling, servicing locomotive, etc. - equipment standing | 27 | 13 | 14 | 27 | --- | --- |
| 109 Inhalation of or contact with fumes or gases - equipment standing | 23 | 22 | 1 | 23 | --- | --- |
| 110 Defective locomotive seat - equipment standing | 23 | 22 | 1 | 23 | --- | --- |
| 111 Adjusting locomotive seat - equipment standing | 44 | 43 | 1 | 44 | --- | --- |
| 112 Foreign object in eye - equipment standing | 63 | 54 | 9 | 63 | --- | --- |
| 119 Other accidents/incidents while operating locomotives - eqp standing | 117 | 110 | 7 | 117 | --- | --- |
| SUBTOTAL..... | 519 | 453 | 66 | 519 | --- | --- |
| OPERATING RAIL MOTORCARS | | | | | | |
| 151 Striking parts of body against equipment - equipment standing | 8 | 4 | 4 | 8 | --- | --- |
| 153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std | 2 | 1 | 1 | 2 | --- | --- |
| 155 Placing or removing rail motorcar on or off rail | 9 | --- | 9 | 9 | --- | --- |
| 159 Other accidents/incidents while operating rail motorcars - eqp std | 7 | 6 | 1 | 7 | --- | --- |
| SUBTOTAL..... | 26 | 11 | 15 | 26 | --- | --- |

TABLE 70. (CONTINUED)

| Occurrence | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|--|---------------|---|-------|-----------------|-----------------|---------------------|------------------|
| OPERATING HAND BRAKES | | | | | | | | |
| 200 | Manipulating hand brakes, no defects, equipment standing | 208 | 195 | 13 | 208 | --- | --- | --- |
| 201 | Defective equipment - equipment standing | 32 | 25 | 7 | 32 | --- | --- | --- |
| 203 | Striking body not due to movement of equipment | 9 | 9 | --- | 9 | --- | --- | --- |
| 205 | Caught between parts of equipment or lading - equipment standing | 3 | 1 | 2 | 3 | --- | --- | --- |
| 206 | Brake chains or bolts, breaking or giving way - equipment standing | 10 | 10 | --- | 10 | --- | --- | --- |
| 207 | Losing hold, slipping, or falling - equipment standing | 41 | 40 | 1 | 41 | --- | --- | --- |
| 208 | Caught hand or fingers in spinning brake wheel - equipment standing | 6 | 6 | --- | 6 | --- | --- | --- |
| 209 | Other accidents/incidents while operating hand brakes - eqp standing | 71 | 66 | 5 | 71 | --- | --- | --- |
| SUBTOTAL..... | | 380 | 352 | 28 | 380 | --- | --- | --- |
| OPERATING SWITCHES OR DERAILS | | | | | | | | |
| 301 | Slipped, tripped or fell due to ice or snow | 41 | 35 | 5 | 40 | 1 | --- | --- |
| 302 | Slipped, tripped or fell not due to ice or snow | 40 | 38 | 2 | 40 | --- | --- | --- |
| 303 | Parts of body struck or caught by mechanism of switch | 42 | 35 | 7 | 42 | --- | --- | --- |
| 305 | Lining switches, defective equipment | 122 | 118 | 4 | 122 | --- | --- | --- |
| 306 | Lining switches, no defects | 571 | 526 | 45 | 571 | --- | --- | --- |
| 307 | Manipulating derail, no defects | 23 | 18 | 5 | 23 | --- | --- | --- |
| 308 | Manipulating derail, defective equipment | 5 | 3 | 2 | 5 | --- | --- | --- |
| 309 | Other acc/inc while operating switches/derails - equipment standing | 144 | 129 | 15 | 144 | --- | --- | --- |
| SUBTOTAL..... | | 988 | 902 | 85 | 987 | 1 | --- | --- |
| CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS | | | | | | | | |
| 401 | Persons on top locos/cars contacting fixed objects - equipment std | 2 | --- | 2 | 2 | --- | --- | --- |
| 402 | Persons on side/end of locos/cars contacting fixed objects - eqp std | 8 | 7 | 1 | 8 | --- | --- | --- |
| 409 | Persons on loco/car coming in contact with fixed obj(ether)-eqp std | 15 | 9 | 3 | 12 | 1 | 1 | --- |
| SUBTOTAL..... | | 25 | 16 | 6 | 22 | 1 | 1 | --- |
| GETTING ON OR OFF CARS OR LOCOMOTIVES | | | | | | | | |
| 501 | Slip/fell due to lost/missed hold of grabiron, handhold, etc.-eqp std | 57 | 43 | 14 | 57 | --- | --- | --- |
| 502 | Slip/fell due to losing/missing footing on step, stirrup, etc.-eqp std | 147 | 119 | 21 | 140 | --- | 7 | --- |
| 503 | Stepping or tripping on parts of track in place - equipment standing | 33 | 28 | 1 | 29 | --- | 2 | 2 |
| 504 | Stepping or tripping on foreign material or irreg surface - eqp std | 178 | 149 | 25 | 174 | 1 | 3 | --- |
| 505 | Slipping on ice or snow on ground - equipment standing | 41 | 33 | 6 | 39 | 1 | 1 | --- |
| 506 | Slipping on ice/snow on cars or locomotives - equipment standing | 22 | 18 | 4 | 22 | --- | --- | --- |
| 507 | Falling, slipping, tripping, not elsewhere classified - eqp std | 92 | 58 | 20 | 78 | --- | 14 | --- |
| 508 | Slipping/falling while boarding/alighting fm passenger eqp(standing) | 86 | 12 | 8 | 20 | 1 | 63 | 2 |
| 511 | Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std | 43 | 27 | 8 | 35 | --- | 8 | --- |
| 513 | Jumping from equipment - equipment standing | 4 | 1 | 2 | 3 | --- | 1 | --- |
| 514 | Defective equipment - equipment standing | 11 | 8 | 3 | 11 | --- | --- | --- |
| 519 | Other acc/inc while getting on or off cars or locos - equipment std | 249 | 211 | 30 | 241 | 2 | 6 | --- |
| SUBTOTAL..... | | 963 | 707 | 142 | 849 | 5 | 105 | 2 |

TABLE 70. (CONTINUED)

| Occurrence | | Total Injured | ...Employees On Duty... | ... | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|---|---------------|-------------------------|-------|-----------------|--------------|------------------|---------------|
| | | | Trainmen | Other | Total | | | |
| HIGHWAY-RAIL CROSSING ACCIDENTS/INCIDENTS | | | | | | | | |
| 609 | Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std | 40 | --- | --- | --- | --- | 39 | 1 |
| 610 | Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp std | 1 | --- | --- | --- | --- | 1 | --- |
| SUBTOTAL..... | | 41 | --- | --- | --- | --- | 40 | 1 |
| STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS) | | | | | | | | |
| 701 | Standing, walking or running on or along track - equipment standing | 4 | --- | 1 | 1 | --- | --- | 3 |
| 703 | Crossing track not at a crossing - equipment standing | 6 | --- | --- | --- | --- | --- | 6 |
| 708 | Passing over, through, or under cars - equipment standing | 1 | --- | 1 | 1 | --- | --- | --- |
| 709 | Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std | 6 | 1 | 1 | 2 | --- | --- | 4 |
| SUBTOTAL..... | | 17 | 1 | 3 | 4 | --- | --- | 13 |
| SERVICING OR MAINTENANCE OF EQUIPMENT | | | | | | | | |
| 802 | Crossing over, under, or between locos or cars - equipment standing | 19 | 3 | 16 | 19 | --- | --- | --- |
| 803 | Striking or being struck by eqp, structures, or material-eqp std | 292 | 7 | 281 | 288 | 1 | 3 | --- |
| 804 | Use of hand tools | 371 | 5 | 358 | 363 | 1 | 7 | --- |
| 805 | Use of portable power tools | 87 | --- | 86 | 86 | --- | 1 | --- |
| 806 | Use of welding equipment | 67 | 1 | 64 | 65 | --- | 2 | --- |
| 807 | Use of oxygen-acetylene, natural gas cutting equipment | 36 | --- | 36 | 36 | --- | --- | --- |
| 808 | Use of grinding equipment | 45 | --- | 36 | 36 | --- | 9 | --- |
| 809 | Use of scaffolds, ladders, etc. | 41 | --- | 40 | 40 | --- | 1 | --- |
| 81A | Lifting parts to install while making repairs | 122 | 2 | 120 | 122 | --- | --- | --- |
| 810 | Use of cranes, hoists, derricks, piledrivers, etc. | 60 | --- | 60 | 60 | --- | --- | --- |
| 811 | Use of lift trucks and other portable material handling eqp | 60 | --- | 60 | 60 | --- | --- | --- |
| 812 | Use of shop machinery not elsewhere classified | 70 | --- | 70 | 70 | --- | --- | --- |
| 813 | Loading and unloading materials | 108 | 3 | 105 | 108 | --- | --- | --- |
| 814 | Handling material by hand | 441 | 12 | 427 | 439 | --- | 2 | --- |
| 816 | Inhalation of or contact with fumes or gases | 105 | 2 | 44 | 46 | 59 | --- | --- |
| 817 | Foreign object in eye, using eye protection | 200 | 20 | 172 | 192 | 2 | 6 | --- |
| 818 | Foreign object in eye, not using eye protection | 81 | 8 | 67 | 75 | 4 | 2 | --- |
| 819 | Struck by flying or falling object | 165 | 2 | 159 | 161 | --- | 4 | --- |
| 820 | Electrical flash, shock, or burn | 43 | --- | 43 | 43 | --- | --- | --- |
| 821 | Fire or explosion of fuses or torpedoes | 3 | 2 | 1 | 3 | --- | --- | --- |
| 822 | Other fire or explosion | 5 | --- | 5 | 5 | --- | --- | --- |
| 823 | Burned or irritated by hot, corrosive, or toxic substances | 48 | 3 | 45 | 48 | --- | --- | --- |
| 824 | Stumbling, slipping, falling, caught, not elsewhere classified | 627 | 15 | 590 | 605 | 22 | --- | --- |
| 825 | Other acc/inc while servicing or maintaining eqp-eqp std | 741 | 28 | 707 | 735 | 1 | 5 | --- |
| SUBTOTAL..... | | 3,837 | 113 | 3,592 | 3,705 | 90 | 42 | --- |

TABLE 70. (CONTINUED)

| Occurrence | Total Injured | ...Employees On Duty... Trainmen Other | Emp Not On Duty | Passengers | Nontrespassers | Trespassers |
|---|---------------|--|-----------------|------------|----------------|-------------|
| MAINTENANCE OF WAY AND STRUCTURES | | | | | | |
| 852 Crossing over, under, or between locos or cars-eqp std | 8 | --- | 8 | 8 | --- | --- |
| 853 Striking or being struck by eqp, structures, or material-eqp std | 259 | 2 | 249 | 251 | 1 | --- |
| 854 Use of hand tools | 517 | 1 | 508 | 509 | 2 | --- |
| 855 Use of portable power tools | 174 | --- | 173 | 173 | --- | --- |
| 856 Use of welding equipment | 24 | --- | 24 | 24 | --- | --- |
| 857 Use of oxygen-acetylene, natural gas cutting equipment | 17 | --- | 17 | 17 | --- | --- |
| 858 Use of grinding equipment | 56 | --- | 55 | 55 | --- | --- |
| 859 Use of scaffolds, ladders, etc. | 34 | --- | 33 | 33 | --- | --- |
| 860 Use of cranes, hoists, derricks, piledrivers, etc. | 46 | --- | 46 | 46 | --- | --- |
| 861 Use of lift trucks and other portable material handling eqp | 30 | --- | 30 | 30 | --- | --- |
| 862 Use of shop machinery not elsewhere classified | 22 | --- | 22 | 22 | --- | --- |
| 863 Loading and unloading materials | 353 | 1 | 349 | 350 | 1 | --- |
| 864 Handling material by hand | 513 | 2 | 508 | 510 | 1 | --- |
| 866 Inhalation of or contact with fumes or gases | 7 | --- | 7 | 7 | --- | --- |
| 867 Foreign object in eye, using eye protection | 109 | 3 | 106 | 109 | --- | --- |
| 868 Foreign object in eye, not using eye protection | 60 | 4 | 53 | 57 | 2 | --- |
| 869 Struck by flying of falling object | 224 | --- | 223 | 223 | --- | --- |
| 870 Electrical flash, shock, or burn | 32 | --- | 31 | 31 | --- | --- |
| 871 Fire or explosion of fuses or torpedoes | 2 | --- | 2 | 2 | --- | --- |
| 872 Other fire or explosion | 5 | --- | 5 | 5 | --- | --- |
| 873 Burned or irritated by hot, corrosive or toxic substances | 29 | 1 | 28 | 29 | --- | --- |
| 874 Stumbling, slipping, falling, caught, not elsewhere classified | 671 | 1 | 652 | 653 | 14 | --- |
| 875 Use of maintenance of way equipment not elsewhere classified | 117 | --- | 115 | 115 | 2 | --- |
| 876 Inserting or removing ties, switch timbers and tie plates by use of hand tools | 169 | 2 | 165 | 167 | --- | --- |
| 877 Insert/remove ties, switch timbers and tie plates using portable power tools | 48 | --- | 47 | 47 | --- | --- |
| 878 Loading/unloading ties, switch timbers, tie plates and fastenings | 108 | --- | 107 | 107 | --- | --- |
| 879 Handling rail by use of power tools | 32 | --- | 32 | 32 | --- | --- |
| 880 Handling rail by use of hand tools | 76 | --- | 75 | 75 | --- | --- |
| 890 Handling/inserting/removing rail anchors (includes being struck by anchors) | 89 | --- | 88 | 88 | 1 | --- |
| 891 Handling/inserting/removing track spikes (includes being struck by flying spike) | 314 | --- | 312 | 312 | --- | --- |
| 892 Working on or about sgml or comm. poles, sgml masts, sgml cantilevers or catenary | 107 | --- | 107 | 107 | --- | --- |
| 893 Servicing or repairing MON equipment at work site | 101 | --- | 100 | 100 | --- | --- |
| 899 Other accs/incs while maintaining way and structures - eqp standing | 448 | 1 | 443 | 444 | 1 | --- |
| SUBTOTAL..... | 4,801 | 18 | 4,720 | 4,738 | 25 | --- |
| FREIGHT, BAGGAGE, EXPRESS OR MAIL | | | | | | |
| 901 Handling freight, baggage, express or mail | 43 | 9 | 33 | 42 | 1 | --- |
| 902 Struck or caught by shifted lading | 3 | 1 | 1 | 2 | --- | --- |
| 903 Tripping over, or struck by falling baggage in passenger car-eqp std | 3 | 1 | 1 | 2 | --- | --- |
| 904 Other accident/incident involving freight, baggage, express, or mail | 15 | 3 | 9 | 12 | --- | --- |
| SUBTOTAL..... | 64 | 14 | 44 | 58 | 1 | --- |

TABLE 70. (CONTINUED)

| Occurrence | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontrav- passers | Tres- passers |
|--|--|---------------|--|-------|-----------------|--------------|------------------|---------------|
| WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT | | | | | | | | |
| 907 | Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing | 30 | 5 | 25 | 30 | --- | --- | --- |
| 908 | Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std | 13 | 2 | 9 | 11 | --- | 2 | --- |
| 909 | Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std | 21 | 4 | 15 | 19 | --- | 2 | --- |
| 910 | Closing or opening plug type car doors, defective equipment-eqp std | 4 | --- | 4 | 4 | --- | --- | --- |
| 911 | Closing or opening plug type car doors, no defects-equipment std | 17 | 3 | 14 | 17 | --- | --- | --- |
| 912 | Closing or opening coach trap doors-equipment standing | 28 | 16 | 5 | 21 | 1 | 6 | --- |
| 913 | Interior doors-equipment standing | 36 | 31 | 5 | 36 | --- | --- | --- |
| 914 | Opening or closing locomotive doors-equipment standing | 48 | 43 | 5 | 48 | --- | --- | --- |
| 915 | Opening or closing locomotive windows-equipment standing | 6 | 5 | 1 | 6 | --- | --- | --- |
| 916 | Opening or closing caboose doors-equipment standing | 1 | 1 | --- | 1 | --- | --- | --- |
| 917 | Opening or closing caboose windows-equipment standing | 3 | 3 | --- | 3 | --- | --- | --- |
| 918 | Opening and closing other windows | 10 | 10 | --- | 10 | --- | --- | --- |
| 919 | Other accidents/incidents involving windows or doors | 88 | 48 | 32 | 80 | --- | 5 | 3 |
| SUBTOTAL..... | | 305 | 171 | 115 | 286 | 1 | 11 | 7 |
| PASSENGER CAR DOORS | | | | | | | | |
| 920 | Caught by side doors while entering coach-equipment standing | 3 | --- | --- | --- | 3 | --- | --- |
| 921 | Caught by side doors while exiting coach-equipment standing | 3 | 1 | --- | 1 | 2 | --- | --- |
| 924 | Struck by side doors while entering coach-equipment standing | 5 | --- | 3 | 3 | 2 | --- | --- |
| 925 | Struck by side doors while exiting coach-equipment standing | 3 | 1 | --- | 1 | 2 | --- | --- |
| 927 | Striking side door while exiting coach-equipment standing | 1 | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 15 | 3 | 3 | 6 | 9 | --- | --- |
| STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED | | | | | | | | |
| 930 | Stumbling/slipping, etc. on snow or ice | 253 | 129 | 85 | 214 | 25 | 1 | 12 |
| 931 | Stumbling/slipping, etc. on foreign material or irregular surface | 641 | 413 | 183 | 596 | 26 | 3 | 15 |
| 932 | Stumbling/slipping, etc. on parts of track in place | 188 | 95 | 77 | 172 | 8 | 3 | 3 |
| 933 | Stumbling/slipping, etc. on stairways, ramps or platforms | 363 | 58 | 114 | 172 | 31 | 44 | 114 |
| 934 | Slip/fall, etc. between loco/car and other cars and struct-eqp std | 39 | 10 | 7 | 17 | --- | 17 | 5 |
| 935 | From bridges or trestles | 25 | 6 | 13 | 19 | --- | --- | 1 |
| 936 | From structures other than bridges or trestles | 29 | 7 | 15 | 22 | --- | 1 | 2 |
| 937 | Into depressions | 102 | 47 | 47 | 94 | 5 | 1 | 2 |
| 938 | While on locomotive or car-equipment standing | 92 | 29 | 46 | 75 | --- | 8 | 9 |
| 939 | Other, stumbling, slipping, falling, caught, etc. | 248 | 75 | 105 | 180 | 14 | 14 | 38 |
| SUBTOTAL..... | | 1,980 | 869 | 692 | 1,561 | 109 | 92 | 201 |

TABLE 70. (CONTINUED)

| Occurrence | | Total Injured | ...Employees On Duty... Trainmen Other | Total | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|--|--|---------------|---|--------|-----------------|-----------------|---------------------|------------------|
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | | |
| 940 | Foreign object in eye | 157 | 110 | 37 | 147 | 6 | --- | --- |
| 941 | Struck by flying or falling object (except assaults) | 80 | 36 | 31 | 67 | --- | 1 | 4 |
| 942 | Electrical flash, shock, or burn | 13 | 5 | 6 | 11 | --- | --- | 2 |
| 943 | Fire or explosion of fuses or torpedoes | 2 | 1 | 1 | 2 | --- | --- | --- |
| 944 | Other fire or explosion | 8 | 1 | 6 | 7 | --- | --- | 1 |
| 945 | Burned by hot or corrosive substances | 21 | 9 | 11 | 20 | --- | --- | --- |
| 946 | Inhalation of or contact with fumes or gases | 37 | 19 | 3 | 22 | --- | --- | 15 |
| 947 | Electrical injury due to contact with catenary, pantograph or 3rd rail | 6 | --- | 1 | 1 | --- | --- | 5 |
| 949 | Other acc/inc resulting from flying/falling objs, burns, etc. | 17 | 7 | 8 | 15 | --- | --- | 2 |
| SUBTOTAL..... | | 341 | 188 | 104 | 292 | 6 | 1 | 35 |
| OPERATION OF ON-TRACK WORK EQUIPMENT | | | | | | | | |
| 954 | Getting on/off on-track work equipment - equipment standing | 35 | --- | 35 | 35 | --- | --- | --- |
| 959 | Other A/I involving on-track work equipment - equipment standing | 22 | --- | 20 | 20 | --- | --- | 2 |
| SUBTOTAL..... | | 57 | --- | 55 | 55 | --- | --- | 2 |
| ASSAULT | | | | | | | | |
| 96A | Shot while on standing on-track equipment | 1 | 1 | --- | 1 | --- | --- | --- |
| 96B | Shooting incidents not involving persons on on-track equipment | 3 | 1 | 1 | 2 | 1 | --- | --- |
| 96C | Struck by other propelled object while on locomotive - equip standing | 2 | 2 | --- | 2 | --- | --- | --- |
| 96D | Struck by other propelled object while on car - equip standing | 1 | 1 | --- | 1 | --- | --- | --- |
| 96F | Struck by other propelled object, not on on-track equipment | 6 | 3 | 2 | 5 | 1 | --- | --- |
| 96G | All other unprovoked assaults | 71 | 23 | 25 | 48 | 4 | 4 | 15 |
| 96L | Other assaults connected with the protection of RR property - eqp standing | 17 | 2 | 14 | 16 | --- | --- | 1 |
| 96M | All other assaults not involving moving on-track equipment | 62 | 8 | 47 | 55 | 2 | 2 | 3 |
| 96N | Injuries sustained by ther perpetrator of an assault | 4 | 1 | 1 | 2 | --- | --- | 2 |
| SUBTOTAL..... | | 167 | 42 | 90 | 132 | 8 | 6 | 19 |
| OTHER OCCURRENCES | | | | | | | | |
| 970 | Performing rerailling or other clearing operations | 32 | 6 | 26 | 32 | --- | --- | --- |
| 978 | Motor vehicle acc/inc (other than rail-highway grade crossing) | 528 | 110 | 334 | 444 | 27 | 3 | 44 |
| 979 | Servicing and maintenance of highway vehicles | 20 | 1 | 18 | 19 | --- | --- | 1 |
| 980 | Horseplay | 12 | --- | 9 | 9 | 2 | 1 | --- |
| 981 | Animal bites, including snake bites | 12 | 4 | 6 | 10 | 1 | --- | 1 |
| 982 | Insect bites | 167 | 66 | 91 | 157 | 8 | 1 | --- |
| 983 | Incidents occurring in office setting involving clerical, staff, etc., personnel | 375 | 16 | 338 | 354 | 16 | --- | 5 |
| 984 | Contact with poisonous plants | 16 | 1 | 15 | 16 | --- | --- | --- |
| 985 | Stepping on nails or other sharp objects | 57 | 22 | 28 | 50 | 4 | --- | 3 |
| 987 | Caboose fire, equipment standing | 1 | --- | 1 | 1 | --- | --- | --- |
| 988 | Other accidents/incidents while in caboose, equipment standing | 11 | 10 | 1 | 11 | --- | --- | --- |
| 989 | Other accidents/incidents | 716 | 225 | 303 | 528 | 35 | 3 | 138 |
| SUBTOTAL..... | | 1,947 | 461 | 1,170 | 1,631 | 93 | 8 | 192 |
| GRAND TOTAL..... | | 17,131 | 4,928 | 10,978 | 15,906 | 343 | 234 | 582 |

NOTE: Contractor employees are included with nontrespassers

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

| Occurrence | | Total Illness | ...Employees On Duty... | ... | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|--|---------------|-------------------------|-------|-----------------|--------------|------------------|---------------|
| | | | Trainmen | Other | Total | | | |
| COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS | | | | | | | | |
| 009 | Other acc/inc while coupling/uncoupling cars or locos - equip std | 1 | 1 | --- | 1 | --- | --- | --- |
| | SUBTOTAL..... | 1 | 1 | --- | 1 | --- | --- | --- |
| OPERATING OR ON LOCOMOTIVES | | | | | | | | |
| 109 | Inhalation of or contact with fumes or gases - equipment standing | 11 | 10 | 1 | 11 | --- | --- | --- |
| 119 | Other accidents/incidents while operating locomotives - eqp standing | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 14 | 13 | 1 | 14 | --- | --- | --- |
| OPERATING HAND BRAKES | | | | | | | | |
| 200 | Manipulating hand brakes, no defects, equipment standing | 1 | 1 | --- | 1 | --- | --- | --- |
| 209 | Other accidents/incidents while operating hand brakes - eqp standing | 2 | 2 | --- | 2 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| OPERATING SWITCHES OR DERAILS | | | | | | | | |
| 306 | Lining switches, no defects | 3 | 3 | --- | 3 | --- | --- | --- |
| 309 | Other acc/inc while operating switches/derails - equipment standing | 2 | 2 | --- | 2 | --- | --- | --- |
| | SUBTOTAL..... | 5 | 5 | --- | 5 | --- | --- | --- |
| GETTING ON OR OFF CARS OR LOCOMOTIVES | | | | | | | | |
| 519 | Other acc/inc while getting on or off cars or locos - equipment std | 3 | 3 | --- | 3 | --- | --- | --- |
| | SUBTOTAL..... | 3 | 3 | --- | 3 | --- | --- | --- |
| SERVICING OR MAINTENANCE OF EQUIPMENT | | | | | | | | |
| 803 | Striking or being struck by eqp, structures, or material-eqp std | 1 | --- | 1 | 1 | --- | --- | --- |
| 804 | Use of hand tools | 23 | --- | 23 | 23 | --- | --- | --- |
| 805 | Use of portable power tools | 18 | --- | 18 | 18 | --- | --- | --- |
| 806 | Use of welding equipment | 6 | --- | 6 | 6 | --- | --- | --- |
| 81A | Lifting parts to install while making repairs | 1 | --- | 1 | 1 | --- | --- | --- |
| 812 | Use of shop machinery not elsewhere classified | 1 | --- | 1 | 1 | --- | --- | --- |
| 813 | Loading and unloading materials | 1 | --- | 1 | 1 | --- | --- | --- |
| 814 | Handling material by hand | 7 | --- | 7 | 7 | --- | --- | --- |
| 816 | Inhalation of or contact with fumes or gases | 13 | 2 | 11 | 13 | --- | --- | --- |
| 823 | Burned or irritated by hot, corrosive, or toxic substances | 10 | --- | 10 | 10 | --- | --- | --- |
| 824 | Stumbling, slipping, falling, caught, not elsewhere classified | 1 | --- | 1 | 1 | --- | --- | --- |
| 825 | Other acc/inc while servicing or maintaining eqp-eqp std | 86 | 1 | 84 | 85 | 1 | --- | --- |
| | SUBTOTAL..... | 168 | 3 | 164 | 167 | 1 | --- | --- |

TABLE 71. (CONTINUED)

| Occurrence | | Total Illness | ...Employees On Duty... | Emp Not On Duty | Passen- gers | Nontres- passers | Tres- passers |
|---|---|------------------|-------------------------|--------------------|-----------------|---------------------|------------------|
| | | Trainmen | Other | Total | | | |
| MAINTENANCE OF WAY AND STRUCTURES | | | | | | | |
| 854 | Use of hand tools | 7 | --- | 7 | --- | --- | --- |
| 855 | Use of portable power tools | 3 | --- | 3 | --- | --- | --- |
| 858 | Use of grinding equipment | 2 | --- | 2 | --- | --- | --- |
| 860 | Use of cranes, hoists, derricks, piledrivers, etc. | 1 | --- | 1 | --- | --- | --- |
| 862 | Use of shop machinery not elsewhere classified | 1 | --- | 1 | --- | --- | --- |
| 863 | Loading and unloading materials | 1 | --- | 1 | --- | --- | --- |
| 864 | Handling material by hand | 2 | --- | 2 | --- | --- | --- |
| 866 | Inhalation of or contact with fumes or gases | 5 | --- | 5 | --- | --- | --- |
| 869 | Struck by flying or falling object | 1 | --- | 1 | --- | --- | --- |
| 873 | Burned or irritated by hot, corrosive or toxic substances | 2 | --- | 2 | --- | --- | --- |
| 875 | Use of maintenance of way equipment not elsewhere classified | 3 | --- | 3 | --- | --- | --- |
| 876 | Inserting or removing ties, switch timbers and tie plates by use of hand tools | 4 | --- | 4 | --- | --- | --- |
| 878 | Loading/unloading ties, switch timbers, tie plates and fastenings | 3 | --- | 3 | --- | --- | --- |
| 880 | Handling rail by use of hand tools | 1 | --- | 1 | --- | --- | --- |
| 890 | Handling/inserting/removing rail anchors (includes being struck by anchors) | 5 | --- | 5 | --- | --- | --- |
| 891 | Handling/inserting/removing track spikes (includes being struck by flying spike) | 7 | --- | 7 | --- | --- | --- |
| 892 | Working on or about sgml or comm. poles, sgml masts, sgml cantilevers or catenary | 2 | --- | 2 | --- | --- | --- |
| 893 | Servicing or repairing MOW equipment at work site | 2 | --- | 2 | --- | --- | --- |
| 899 | Other accs/incs while maintaining way and structures - eqp standing | 45 | --- | 45 | --- | --- | --- |
| SUBTOTAL..... | | 97 | --- | 97 | --- | --- | --- |
| WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT | | | | | | | |
| 916 | Opening or closing caboose doors-equipment standing | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | --- | 1 | --- | --- | --- |
| FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C. | | | | | | | |
| 945 | Burned by hot or corrosive substances | 1 | --- | 1 | --- | --- | --- |
| 946 | Inhalation of or contact with fumes or gases | 30 | 20 | 10 | --- | --- | --- |
| 949 | Other acc/inc resulting from flying/falling objs, burns, etc. | 1 | 1 | --- | --- | --- | --- |
| SUBTOTAL..... | | 32 | 21 | 11 | --- | --- | --- |
| OPERATION OF ON-TRACK WORK EQUIPMENT | | | | | | | |
| 959 | Other A/I involving on-track work equipment - equipment standing | 1 | --- | 1 | --- | --- | --- |
| SUBTOTAL..... | | 1 | --- | 1 | --- | --- | --- |
| OTHER OCCURRENCES | | | | | | | |
| 970 | Performing rerailling or other clearing operations | 1 | --- | 1 | --- | --- | --- |
| 978 | Motor vehicle acc/inc (other than rail-highway grade crossing) | 2 | --- | 2 | --- | --- | --- |
| 982 | Insect bites | 3 | 1 | 1 | --- | --- | --- |
| 983 | Incidents occurring in office setting involving clerical, staff, etc., personnel | 87 | 1 | 86 | --- | --- | 1 |
| 984 | Contact with poisonous plants | 47 | 6 | 41 | --- | --- | --- |
| 988 | Other accidents/incidents while in caboose, equipment standing | 1 | 1 | --- | --- | --- | --- |
| 989 | Other accidents/incidents | 109 | 48 | 58 | 2 | --- | --- |
| SUBTOTAL..... | | 250 | 57 | 189 | 2 | 2 | --- |
| GRAND TOTAL..... | | 575 | 106 | 464 | 3 | 2 | --- |

NOTE: Contractor employees are included with nontrespassers

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

PAGE

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REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1991 define a reportable accident/incident as an event arising from the operation of a railroad which, with minor exceptions, results in one or more of the following circumstances:

- (a) Any impact between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian, or other highway user at a rail-highway crossing;
- (b) Any collision, derailment, fire, explosion, act of God, or other event involving the operation of railroad on-track equipment, standing or moving, which results in more than \$6,300 in damages to railroad on-track equipment, signals, track, track structures, and roadbed; and
- (c) Any event arising from the operation of a railroad which results in:
 - (i) the death of one or more persons;
 - (ii) an injury to one or more persons; other than railroad employees, which requires medical treatment
 - (iii) an injury to one or more employees which requires medical treatment or results in: restriction of work or motion for one or more days, or one or more lost work days; transfer to another job; termination of employment; or loss of consciousness; or
 - (iv) any occupational illness of a railroad employee as diagnosed by a physician.

CLASSIFICATION OF ACCIDENTS/INCIDENTS

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

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

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

DEFINITIONS

Accident. See "train accident," above.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**APPENDIX B
REPORTING FORMS**

PAGE

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FORM APPROVED
OMB NO. 04R4035

SHEET ____ OF ____

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

CASUALTIES (Cont.)[illegible]

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

| | | | | | |
|---|--|---|--|---|--|
| 1. NAME OF REPORTING RAILROAD | | Amtrak <input type="checkbox"/> Autotrain <input type="checkbox"/> | 1a. Alphabetic Code | 1b. Railroad Accident/Incident No. | |
| 2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT | | | 2a. Alphabetic Code | 2b. Railroad Accident/Incident No. | |
| 3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry) | | | 3a. Alphabetic Code | 3b. Railroad Accident/Incident No. | |
| 4. U.S. DOT-ARR GRADE CROSSING IDENTIFICATION NUMBER | | | 5. DATE OF ACCIDENT/INCIDENT month day year | | 6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/> |
| 7. TYPE OF ACCIDENT/INCIDENT (enter number in code box, single entry) 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 1. Dawn 3. Dusk 2. Day 4. Dark | | 18. WEATHER (single entry) CODE 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) MPH Recorded Est | | 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 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) | | | 25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE 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 | | | |
| (1) First Involved (derailed, struck, striking, etc.) | | 30a. Initial and Number | | 30b. Position in Train | |
| (2) Causing (mechanical failures) | | | | | |
| 31. LOCOMOTIVE UNITS (no. of) | | a. Head End | b. Mid Train | c. Rear End | d. Caboose |
| (1) Total in Train | | | | | |
| (2) Total Derailed | | | | | |
| PROPERTY DAMAGE (estimated cost, including labor, to repair or replace) | | | | | |
| 33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) | | | 34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) | | |
| ACCIDENT/INCIDENT CAUSE CODE | | | | | |
| 35. PRIMARY CAUSE CODE | | 36. CONTRIBUTING CAUSE CODE | | 37. If no code available, explain cause. | |
| CASUALTIES | | | | | |
| 38. NUMBER OF PERSONS INJURED | | 39. ESTIMATED TOTAL DAYS DISABILITY | | 40. NUMBER OF FATALITIES | |
| CREW (no. of) | | | | | |
| 41. ENGINEERS | | 42. FIREMEN | | 43. CONDUCTORS | |
| 44. BRAKEMEN | | 45. ENGINEER | | 46. CONDUCTOR | |
| Hrs: Mins: | | 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 | | Amtrak Autotrain | 1a. Alphabetic Code | 1b. Railroad Accident/Incident No. |
| 2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT | | | 2a. Alphabetic Code | 2b. Railroad Accident/Incident No. |
| 3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry) | | | 3a. Alphabetic Code | 3b. Railroad Accident/Incident No. |
| 4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER | | 5. DATE OF ACCIDENT/INCIDENT month day year | | 6. TIME OF ACCIDENT/INCIDENT am <input type="checkbox"/> pm <input type="checkbox"/> |
| LOCATION | | | | |
| 7. NEAREST RAILROAD STATION | | 8. COUNTY | | 9. STATE (two letter code) CODE |
| 10. CITY (if in a city) | | 11. HIGHWAY NAME OR NUMBER (if private crossing, so state) | | |
| ACCIDENT/INCIDENT SITUATION | | | | |
| HIGHWAY USER INVOLVED | | RAILROAD EQUIPMENT INVOLVED | | |
| 12. TYPE 1. Auto 3. Truck-Trailer 6. Motorcycle 2. Truck 4. Bus 7. Pedestrian 5. School Bus 8. Other (specify) | | 16. EQUIPMENT 1. Train (units pulling) 3. Train (standing) 6. Light locom(s) (moving) 2. Train (units pushing) 4. Car(s) (moving) 7. Light locom(s) (standing) 5. Car(s) (standing) 8. Other (specify) | | |
| 13. SPEED (estimated mph at impact) | | 17. POSITION OF CAR/UNIT IN TRAIN | | |
| 14. DIRECTION (geographical) 1. North 3. East 2. South 4. West | | 18. CIRCUMSTANCE 1. Train struck highway user 2. Train struck by highway user | | |
| 15. POSITION 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing | | 19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither | | |
| ENVIRONMENT | | | | |
| 20. TEMPERATURE (specify, if minus) °F | | 21. VISIBILITY (single entry) 1. Dawn 3. Dusk 2. Day 4. Dark | | 22. WEATHER (single entry) 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow |
| TRAIN AND TRACK | | | | |
| 23. TYPE OF TRAIN 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Other 6. Light Locomotive(s) | | 24. TRACK TYPE USED BY TRAIN INVOLVED 1. Main 3. Siding 2. Yard 4. Industry | | |
| 25. TRACK NUMBER OR NAME | | 26. FRA TRACK CLASSIFICATION | | 27. NUMBER OF LOCOMOTIVE UNITS |
| 28. NUMBER OF CARS | | 29. TRAIN SPEED (recorded speed, if available) MPH Recorded | | 30. TIME TABLE DIRECTION 1. North 3. East 2. South 4. West |
| CROSSING WARNING | | | | |
| 31. TYPE (place X in appropriate box(es)) 1. <input type="checkbox"/> Gates 5. <input type="checkbox"/> Many Traffic Signals 9. <input type="checkbox"/> Watchman 2. <input type="checkbox"/> Continuous F.L.S. 10. <input type="checkbox"/> Audible 11. <input type="checkbox"/> Flagged by crew 3. <input type="checkbox"/> Semaphore F.L.S. 12. <input type="checkbox"/> Crossbucks 13. <input type="checkbox"/> Other (specify) 4. <input type="checkbox"/> Stop Sign 14. <input type="checkbox"/> Stop Signs 15. <input type="checkbox"/> None | | 32. SIGNED CROSSING WARNING Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No | | |
| 33. LOCATION OF WARNING 1. Both sides 2. Side of vehicle 3. Opposite side of vehicle | | 34. CROSSING WARNING INTERSECTIONED WITH HIGHWAY SIGNALS 1. Yes 2. No 3. Unknown | | 35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS 1. Yes 2. No 3. Unknown |
| MOTORIST ACTION | | | | |
| 36. MOTORIST PASSED STANDING HIGHWAY VEHICLE 1. Yes 2. No 3. Unknown | | 37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN 1. Yes 2. No 3. Unknown | | |
| 38. MOTORIST 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other (specify) 5. Unknown | | | | |
| 39. VIEW OF TRACK OBSCURED BY (primary observer name) 1. Permanent structure 2. Standing railroad equipment 3. Passing train 4. Topography 5. Vegetation 6. Highway vehicles 7. Other (specify) 8. Not obstructed | | | | |
| HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES | | | | |
| 40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage) | | 41. DRIVER WAS 1. Killed 2. Injured 3. Uninjured | | 42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No |
| 43. TOTAL NUMBER OF OCCUPANTS KILLED | | 44. TOTAL NUMBER OF OCCUPANTS INJURED | | 45. TOTAL NUMBER OF OCCUPANTS (include driver) |
| 46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No | | | | |
| 47. TYPED NAME AND TITLE | | 48. SIGNATURE | | 49. DATE |

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

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

I. ESTABLISHMENTS INCLUDED IN THIS REPORT

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

II. AVERAGE EMPLOYMENT IN REPORTING YEAR

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

_____ (Round to the nearest
whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR

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

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

_____ (Round to the nearest
whole number)

IV. REPORTABLE INJURIES AND ILLNESSES

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

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

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

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

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

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

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

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

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

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

VII. COMMENTS: _____

Report prepared by: _____ Area Code and Phone: _____
 Title: _____ Date: _____

ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

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

U.S. Department
of Transportation

**Federal Railroad
Administration**

400 Seventh St., S.W.
Washington, D.C. 20591

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