

Railroad Safety Statistics

FINAL
REPORT
2001



JULY 2003

FOREWORD

The Federal Railroad Administration (FRA) has established an ultimate goal of “Zero Tolerance” for railroad-related accidents, injuries and fatalities. In pursuit of that goal, significant progress has been made, particularly over the past six years, in reducing the number of train collisions, derailments, highway-rail grade crossing incidents, and injuries to railroad workers. These results have been achieved because of a collaborative effort involving the FRA, railroad management, rail labor, equipment suppliers, and contractors, as well as other federal and state agencies whose mission involves ensuring railroad safety. Central to the success of this rail safety effort is the ability to understand the nature of rail-related accidents and to analyze trends in railroad safety.

The FRA’s *Railroad Safety Statistics – Annual Report 2001* is intended as a resource for the FRA’s safety partners. It is also intended as a general reference source for individuals and organizations with an interest in rail safety issues. Statistical data, tables and charts are provided to depict the nature and cause of many rail-related accidents and incidents that occurred in 2001. Furthermore, selected historical data is included to provide a baseline for understanding the railroad industry’s improving safety performance.

It is hoped that the information provided in this publication will provide insight into the most significant safety issues facing the rail industry and, in turn, lead to continued rail safety improvements. Only by continuing our understanding about how and why railroad accidents and incidents occur, can we hope to approach our goal of “Zero Tolerance.”

This edition of the Railroad Safety Statistics compiles previous safety bulletins prepared by the Federal Railroad Administration (FRA). These include: the *Accident/Incident Bulletin*; the *Highway-Rail Crossing Accident/Incident And Inventory Bulletin*; and the *Trespasser Bulletin*. The consolidation of accident/incident statistics previously contained in other publications provides the reader with a single source for a comprehensive overview of railroad safety.

The completeness and accuracy of the information presented in this bulletin are primarily dependent upon the data collection and reporting processes of the nation’s railroads. The FRA conducts routine audits of these procedures, but does not have sufficient resources to perform comprehensive reviews of each railroad’s reporting procedures. We extensively review and edit the reports we receive and make inquiry when information is incomplete or inconsistent.

Railroads are required by law to submit accident/incident reports within thirty days after the month to which they pertain. They are also required to update their report if the original information is incomplete or inaccurate. Railroads have until April 15 of the following year to “close out” their records and submit any updates to complete their file.

It is not possible to identify reportable events that were omitted from a railroad’s submission. Likewise, there may be instances where incorrectly reported information passes all reviews and is accepted. Although we attempt to be as vigilant as possible in both the editing and presentation of the accident/incident data reported, errors do occasionally occur.

Any questions, comments, or suggestions regarding the information contained in this publication should be brought to the attention of:

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Office of Public Affairs (Stop 5)
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This report and additional information about the FRA's various programs are available on our Web site at <http://www.fra.dot.gov>.

CHAPTER 1

OVERVIEW OF ACCIDENTS/INCIDENTS AND RATES

Railroads began reporting accidents to the Federal Government following passage of the Reports Act of 1910. The current definitions describing reportable events were adopted in 1975 and have remained largely unchanged since then. A number of modifications to the record-keeping and reporting requirements were put in place for 1997. These modifications did not redefine what was to be reported but did expand the types of information being collected and the forms used for reporting. The changes made in 1997 were implemented for the purpose of collecting additional information necessary for safety analysis and to support the Federal Railroad Administration's (FRA) overall goal of hazard elimination and risk reduction on the Nation's railroads.

A railroad is required by Federal Railroad Administration (FRA) regulations at Title 49, Part 225 of the Code of Federal Regulations to use the current *FRA Guide for Preparing Accident/Incident Reports* ("Guide" or "reporting guide") when preparing its monthly report. The instructions and interpretations contained in this publication are provided to assist railroads in meeting this obligation

"Accident/Incident" is the term used to describe the entire list of reportable events. These include collisions, derailments, and other events involving the operation of on-track equipment and causing reportable damage above an established threshold; impacts between railroad on-track equipment and highway users at crossings; and all other incidents or exposures that cause a fatality or injury to any person, or an occupational illness to a railroad employee.

Accidents/incidents are divided into three major groups for reporting purposes. These correspond to the following FRA forms:

Train accidents. A safety-related event involving on-track rail equipment (both standing and moving), causing monetary damage to the rail equipment and track above a prescribed amount. Reported on form FRA F 6180.54, RAIL EQUIPMENT ACCIDENT/ INCIDENT REPORT. (The threshold for 1998 was \$6,600)

Highway-rail grade crossing incidents. Any impact between a rail and highway user (both motor vehicles and other users of the crossing) at a designated crossing site, including walkways, sidewalks, etc., associated with the crossing. Reported on form FRA F 6180.57, HIGHWAYRAIL GRADE CROSSING ACCIDENT/INCIDENT REPORT.

Other incidents. Any death, injury, or occupational illness of a railroad employee that is not the result of a "train accident" or "highway-rail incident." Reported on form FRA F 6180.55a, RAILROAD INJURY AND ILLNESS SUMMARY.

A single form is usually sufficient to report most events; however, there are situations when multiple report forms are necessary. An example is a highway-rail crossing incident resulting in

reportable injuries. An accident of this type would require the completion of both a Form FRA F 6180.57 and a Form FRA F 6180.55a. A Form FRA F 6180.54 must also be prepared if reportable on-track equipment and track damage in this accident exceeds the current monetary threshold for train accidents.

Because of overlap in the reporting requirements, some incidents may fall into multiple categories. The incident described above would be counted as a highway-rail incident, but it would also be included in the train accident total. Another example is a motorist hurt in a highway-rail incident after driving around gates at the crossing site. This individual is reported as a "trespasser" on form FRA F 6180.55a, but the event is classified as a highway-rail incident.

If there is an overlap in the information found in different chapters, when possible, a separate column or row total is provided, or counts are excluded when they are more appropriate to another chapter. In the example of the trespasser injured in a highway-rail incident, this injury appears in the highway-rail chapter, but is excluded from the chapter on trespassing. The train accident counts in Chapter 5 include those highway-rail incidents causing reportable damage above the amount needed for reporting on form FRA F 6180-54. The user of this bulletin can exclude these, if desired, since the number of these are identified in most tables in this chapter.

This bulletin provides overall national totals as well as specific areas of safety concern. For example, Chapter 3 is a summary of all fatal and nonfatal casualties, regardless of the type of event causing them. Subsequent chapters summarizing train accidents, highway-rail incidents, employee and trespassing casualties, provide additional information on the events causing these casualties.

The data is presented in the following general format. First, there is a graphic historical review of the major indicators of railroad safety since 1975. Following this are overall totals for the 6-year period beginning with 1992, including summaries by railroad and states for this time frame. Next are a variety of tables and charts for the current year. The chapter for each major reporting area contains a description of the pertinent requirements and definitions associated with that specific accident/incident category.

Extensive consolidation of railroads has occurred over the years. In order to make a more valid comparison of major railroad systems, it was necessary to combine the information reported by predecessor railroads for the years prior to 1998. For example, data from railroads that made up the Southern Pacific Transportation System were merged into the Union Pacific counts.

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TABLE 1-1 ACCIDENT/INCIDENT HISTORICAL SUMMARY, Part I

Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
---GRAND TOTAL---												
Accidents/incidents	31,175	29,296	26,848	24,740	22,466	19,592	17,691	16,699	16,503	16,776	16,918	16,087
Rate 1/	26.82	26.45	24.17	21.82	19.14	16.60	15.05	14.14	13.78	13.72	13.94	13.56
Deaths	1,297	1,194	1,170	1,279	1,226	1,146	1,039	1,063	1,008	932	937	971
Nonfatal conditions	25,143	23,468	21,383	19,121	16,812	14,440	12,558	11,767	11,459	11,700	11,643	10,985

---TRAIN ACCIDENTS-----												
Rate 2/	4.73	4.61	3.97	4.25	3.82	3.67	3.64	3.54	3.77	3.89	4.13	4.25
Total number	2,879	2,658	2,359	2,611	2,504	2,459	2,443	2,397	2,575	2,768	2,983	3,023
Deaths	10	19	6	67	12	14	25	17	4	9	10	6
Injuries	451	326	171	308	262	294	281	183	129	130	275	310
Collisions	315	261	207	205	240	235	205	202	168	205	238	220
Derailments	2,146	1,936	1,734	1,930	1,825	1,742	1,816	1,741	1,757	1,961	2,112	2,234
On main line	1,135	1,113	874	955	914	912	941	867	934	858	976	1,025
On yard track	1,428	1,276	1,209	1,383	1,339	1,279	1,249	1,223	1,306	1,531	1,619	1,569
Yard track rate 3/	14.55	14.41	14.32	15.87	14.91	14.23	14.22	14.41	15.60	17.51	18.21	18.30
Other track rate 4/	2.84	2.83	2.26	2.33	2.06	2.03	2.05	1.98	2.12	1.98	2.15	2.32
Track caused	974	952	830	963	911	856	905	879	900	995	1,035	1,121
Track caused rate	1.60	1.65	1.40	1.57	1.39	1.28	1.35	1.30	1.32	1.40	1.43	1.58
Human factor caused	1,095	887	864	865	911	944	783	855	971	1,031	1,147	1,035
Equipment caused	425	415	353	360	293	279	318	271	307	321	372	427
Signal caused	14	16	19	54	36	27	49	39	38	49	70	42
Equip Dmg (millions \$)	145.71	157.99	85.369	121.83	124.85	134.77	160.91	152.09	162.56	164.65	169.17	200.75
Track Dmg (millions \$)	52.999	51.670	33.572	48.816	43.899	54.458	51.407	58.637	71.337	80.435	94.040	113.71
Hazmat												
Consists releasing	34	46	26	28	34	26	34	31	42	41	35	32
Cars releasing	85	83	32	57	40	48	69	38	66	75	75	57
People evacuated	3,034	6,229	21,218	3,207	15,336	2,817	8,547	8,812	2,058	996	5,258	52,620

---HIGHWAY-RAIL-----												
Rate 5/	9.39	9.34	8.27	7.97	7.60	6.92	6.34	5.71	5.14	4.90	4.84	4.55
Incidents	5,715	5,388	4,910	4,892	4,979	4,633	4,257	3,865	3,508	3,489	3,502	3,237
Deaths	698	608	579	626	615	579	488	461	431	402	425	421
Injuries	2,407	2,094	1,975	1,837	1,961	1,894	1,610	1,540	1,303	1,396	1,219	1,157

---OTHER INCIDENTS-----												
Incidents 6/	22,581	21,250	19,579	17,237	14,983	12,500	10,991	10,437	10,420	10,519	10,433	9,827
Deaths	589	567	585	586	599	553	526	585	573	521	502	544
Injuries	22,285	21,048	19,237	16,976	14,589	12,252	10,667	10,044	10,027	10,174	10,149	9,518

1. Total accident/incident rate of all reported events * 1,000,000 / (train miles + hours)
2. Total train accidents * 1,000,000 / total train miles
3. Accidents on yard track * 1,000,000 / yard switching train miles
4. Accidents on other than yard track * 1,000,000 / (total train miles - yard switching)
5. Total incidents * 1,000,000 / total train miles
6. Other events that cause death, injury to any person; or illness to a railroad employee

TABLE 1-2 ACCIDENT/INCIDENT HISTORICAL SUMMARY, Part II

Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
...EMPLOYEE COUNTS.....												
All accidents/incidents												
Rate 1/	7.59	7.41	6.88	5.93	5.06	4.24	3.66	3.31	3.27	3.39	3.44	3.30
Deaths	40	35	34	47	31	34	33	37	27	31	24	22
Nonfatal conditions	20,970	19,626	17,755	15,363	13,080	10,777	9,199	8,295	8,398	8,622	8,423	7,815
Cases with days absent	14,177	13,688	12,157	10,115	8,758	7,055	5,981	5,371	5,359	5,779	5,788	5,409
Percent of total	67.48	69.62	68.34	65.64	66.80	65.26	64.79	64.46	63.61	66.79	68.52	69.02
Days absent	583,199	743,118	709,297	601,718	492,404	344,035	305,918	244,383	325,127	344,747	367,526	424,301
Serious injuries	1,680	1,557	1,433	1,348	1,303	1,129	1,008	929	910	918	832	834
Sprains/strains	10,002	9,715	8,674	7,641	6,428	5,203	4,427	3,960	3,945	4,280	4,357	4,025
Occupational illnesses	554	663	883	544	285	254	157	128	171	141	129	167
...PASSENGERS ON TRAINS												
Rate 2/	3.48	2.78	3.01	4.48	3.57	4.18	3.86	4.29	3.69	3.33	4.10	4.78
Deaths	3	8	3	58	5	0	12	6	4	14	4	3
Injuries	473	382	411	559	497	573	513	601	535	481	658	746
In Train Accs/Highway-Rail												
Deaths	0	8	0	49	2	0	9	1	2	11	0	1
Rate	0.00	0.06	0.00	0.36	0.01	0.00	0.07	0.01	0.01	0.07	0.00	0.01
Injuries	193	54	113	168	154	119	139	94	30	54	95	149
...TRESPASSER COUNTS...												
Rate 3/	1.81	1.83	1.81	1.68	1.50	1.43	1.41	1.55	1.54	1.30	1.21	1.29
Deaths	543	524	533	523	529	494	471	533	536	479	463	511
Injuries	560	534	540	509	452	461	474	516	513	445	414	404
---OPERATIONS(millions)												
Total train miles 4/	608.84	576.83	593.70	613.97	655.08	669.82	670.92	676.72	682.89	712.45	722.88	711.55
Yard switching miles 5/	98.151	88.519	84.430	87.122	89.776	89.892	87.823	84.874	83.692	87.459	88.919	85.747
Employee hours 6/	553.60	530.66	517.04	519.67	518.63	510.46	504.60	503.92	514.87	510.00	490.93	475.12
Passengers carried 7/	373.05	369.11	366.90	371.61	393.60	385.83	397.39	408.62	439.96	464.88	501.75	517.25

1. Total employee deaths, injuries, illnesses * 200,000 / total hours worked
2. All passenger deaths or injuries in all accidents/incidents * 100,000,000 / passenger miles. A passenger mile is the movement of a passenger for a distance of one mile
3. All trespasser deaths and injuries * 1,000,000 / total train miles
4. Movement of a train for a distance of one mile
5. Movement of trains doing yard switching for a distance of one mile
6. Total hours worked by employees of the railroads. Excludes contractors.
7. Passengers transported

TABLE 1-3 SUMMARY BY TYPE INCIDENT AND TYPE PERSON

Train Accidents Excluding Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities						Nonfatal Conditions					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
A - Worker on duty(rr empl)	14	11	3	7	4	4	158	113	112	106	148	156
B - Employee not on duty	-	-	-	-	-	-	1	12	-	7	15	21
C - Passenger on train	9	1	-	-	-	1	115	51	11	11	85	129
D - Nontrespasser	-	-	-	1	3	-	1	-	-	-	11	1
E - Trespasser	2	4	1	1	2	1	-	-	4	-	1	-
F - Worker on duty(contractor)	-	-	-	-	-	-	6	2	2	-	-	-
G - Contractor(other)	-	-	-	-	-	-	-	-	-	-	2	1
J - Nontrespasser, off rr prop	-	1	-	-	1	-	-	5	-	6	13	2
--Total...	25	17	4	9	10	6	281	183	129	130	275	310

Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities						Nonfatal Conditions					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
A - Worker on duty(rr empl)	1	-	4	2	2	1	79	111	122	140	100	97
B - Employee not on duty	-	-	-	-	-	-	2	3	3	1	3	1
C - Passenger on train	-	-	2	11	-	-	24	43	19	43	10	20
D - Nontrespasser	338	348	317	296	315	258	1,229	1,154	985	995	906	803
E - Trespasser	149	113	108	91	107	162	276	212	164	205	192	223
F - Worker on duty(contractor)	-	-	-	-	-	-	-	-	1	-	-	1
G - Contractor(other)	-	-	-	1	-	-	-	1	-	-	1	2
I - Volunteer(other)	-	-	-	-	-	-	-	-	1	-	-	-
J - Nontrespasser, off rr prop	-	-	-	1	1	-	-	16	8	12	7	10
--Total...	488	461	431	402	425	421	1,610	1,540	1,303	1,396	1,219	1,157

Other Incidents, Excluding HRC

Type Person	Fatalities						Nonfatal Conditions					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
A - Worker on duty(rr empl)	18	26	20	22	18	17	8,962	8,071	8,164	8,376	8,175	7,562
B - Employee not on duty	-	-	2	-	1	-	225	248	216	208	268	187
C - Passenger on train	3	5	2	3	4	2	374	507	505	427	563	597
D - Nontrespasser	27	14	7	7	14	11	430	363	216	312	347	348
E - Trespasser	469	529	535	478	461	510	474	516	509	445	413	404
F - Worker on duty(contractor)	9	6	2	2	-	2	202	211	234	172	183	167
G - Contractor(other)	-	5	3	9	3	2	-	120	143	212	182	212
H - Worker on duty(volunteer)	-	-	-	-	-	-	-	3	11	4	6	4
I - Volunteer(other)	-	-	-	-	-	-	-	3	2	1	2	-
J - Nontrespasser, off rr prop	-	-	2	-	1	-	-	2	27	17	10	37
--Total...	526	585	573	521	502	544	10,667	10,044	10,027	10,174	10,149	9,518

GRAND TOTAL

Type Person	Fatalities						Nonfatal Conditions					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
A - Worker on duty(rr empl)	33	37	27	31	24	22	9,199	8,295	8,398	8,622	8,423	7,815
B - Employee not on duty	-	-	2	-	1	-	228	263	219	216	286	209
C - Passenger on train	12	6	4	14	4	3	513	601	535	481	658	746
D - Nontrespasser	365	362	324	304	332	269	1,660	1,517	1,201	1,307	1,264	1,152
E - Trespasser	620	646	644	570	570	673	750	728	677	650	606	627
F - Worker on duty(contractor)	9	6	2	2	-	2	208	213	237	172	183	168
G - Contractor(other)	-	5	3	10	3	2	-	121	143	212	185	215
H - Worker on duty(volunteer)	-	-	-	-	-	-	-	3	11	4	6	4
I - Volunteer(other)	-	-	-	-	-	-	-	3	3	1	2	-
J - Nontrespasser, off rr prop	-	1	2	1	3	-	-	23	35	35	30	49
--Total...	1,039	1,063	1,008	932	937	971	12,558	11,767	11,459	11,700	11,643	10,985

TABLE 1-4 TOTAL CASUALTIES BY RAILROAD

Railroads	Fatalities						Nonfatal					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
Alton & Southern	-	-	-	-	-	-	14	17	17	15	22	8
Alaska RR Corp.	1	2	1	-	1	-	52	72	59	62	50	57
Amtrak	101	117	120	105	131	139	1,209	1,328	1,180	1,161	1,412	1,527
Bangor & Aroostook	-	-	1	-	-	-	37	37	47	28	26	15
Bessemer & Lake Erie RR	-	1	-	-	-	-	12	15	21	6	7	8
Burlington Northern Santa Fe	174	180	209	130	151	126	1,208	1,174	1,412	1,495	1,493	1,485
Belt Rwy Of Chicago	1	1	2	-	-	-	13	16	15	7	5	10
Consolidated Rail Corp.	53	59	37	20	-	-	813	627	507	225	-	-
Conrail Shared Assets	-	-	-	2	1	7	-	-	-	29	56	53
CSX Transportation	101	112	125	120	124	143	847	894	953	1,150	1,324	1,119
Delaware & Hudson	1	5	-	3	4	5	46	39	30	49	49	52
Dakota,Minnesota & Eastern	1	1	-	1	1	-	29	23	25	32	22	17
Duluth,Missabe & Iron Range	-	-	-	-	-	-	66	53	43	25	38	32
Duluth,Winnipeg & Pacific	-	3	2	1	-	-	10	8	6	3	3	1
Elgin, Joliet & Eastern	-	-	-	2	-	-	48	52	48	41	32	39
Florida East Coast	23	19	10	16	22	13	73	68	62	52	46	27
Guilford Rail System	-	4	2	2	3	1	21	19	26	24	29	16
Grand Trunk Western RR	11	10	4	5	4	7	183	164	162	131	120	96
Gateway Western	3	1	2	1	4	1	21	11	13	20	7	10
Illinois Central	19	17	18	16	17	26	208	183	165	186	225	183
Indiana Harbor Belt	1	2	-	-	2	-	36	64	57	38	43	42
I & M Rail Link, LLC	-	2	2	6	6	5	-	25	65	49	68	43
Kansas City Southern	26	27	29	23	24	21	166	176	198	142	143	126
Long Island Rail Road	9	18	10	6	7	10	745	706	569	534	414	382
MD Assn. of Rail Comm	11	-	-	2	2	-	19	5	3	5	5	7
Mass Bay Transit Auth.	6	11	2	5	11	11	119	74	94	93	103	113
Metro North Commuter	3	7	4	5	4	3	599	481	389	450	476	466
Montana Rail Link	5	5	-	3	3	2	74	49	18	24	22	38
Northern IN Comm Trans	1	2	3	1	-	-	36	37	34	40	25	16
Northeast IL Reg Comm	7	7	6	8	5	17	265	189	206	232	283	388
New Jersey Transit Rail	20	23	24	18	21	32	188	118	94	140	174	219
Norfolk Southern Corp.	108	108	112	104	118	126	657	534	563	756	778	653
Paducah & Louisville	1	-	1	-	-	1	22	18	8	10	16	9
Port Auth Trans Hudson	-	-	1	1	1	2	188	188	164	158	199	158
Peninsula Comm San Mateo Cnty	3	6	3	3	14	12	14	16	26	11	25	23
Port Terminal RR Assn	-	-	1	1	-	-	10	9	8	6	11	11
Southern CA Reg Rail Auth.	5	8	6	2	1	1	4	29	16	15	31	24
Southeastern PA Trans.	5	7	3	7	3	3	290	376	374	351	279	262
Soo Line	11	7	6	7	5	6	411	258	200	203	166	166
Texas Mexican	-	-	1	-	1	-	2	10	14	18	27	16
Term RR Assn Of St. Louis	-	-	-	-	-	-	19	10	2	10	8	13
Econo Rail Corporation	-	-	-	-	1	-	-	-	-	7	9	5
Union Pacific	294	258	240	278	204	211	2,207	2,101	2,192	2,356	1,994	1,877
Union RR (Pittsburgh)	-	-	-	-	-	-	28	15	30	34	21	25
Wisconsin Central Ltd.	4	7	6	6	11	11	169	182	129	132	161	121
Wheeling & Lake Erie	1	2	-	1	-	-	22	19	8	14	19	15
Other Railroads	29	24	15	21	30	29	1,358	1,278	1,207	1,131	1,177	1,012
Total	1,039	1,063	1,008	932	937	971	12,558	11,767	11,459	11,700	11,643	10,985

TABLE 1-5 TOTAL CASUALTIES BY STATE

States	Fatalities							Nonfatal					6 Year Total	
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001	Kld	Nonf
Alabama	25	30	25	18	20	22	191	176	156	151	143	142	140	959
Alaska	2	2	1	-	2	-	72	97	83	84	82	102	7	520
Arizona	22	24	19	15	27	15	107	169	121	148	147	173	122	865
Arkansas	26	11	36	27	30	16	233	243	261	269	225	231	146	1,462
California	96	109	114	114	101	132	731	724	795	770	808	718	666	4,546
Colorado	12	9	12	9	10	9	184	159	134	150	112	167	61	906
Connecticut	3	8	4	10	6	3	159	136	130	166	159	169	34	919
Delaware	1	3	1	2	2	3	62	70	42	53	47	48	12	322
Dist Of Columbia	-	-	1	-	-	-	80	82	75	78	90	87	2	492
Florida	41	37	30	44	45	43	248	282	276	252	303	299	240	1,660
Georgia	27	24	31	20	23	27	189	199	221	216	231	231	152	1,287
Hawaii	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Idaho	7	7	9	4	11	3	113	105	83	56	53	60	41	470
Illinois	76	73	70	93	69	73	1,059	926	942	1,084	1,109	1,103	454	6,223
Indiana	40	36	31	33	36	28	361	378	334	321	317	240	204	1,951
Iowa	14	15	6	20	9	20	254	227	198	201	211	220	84	1,311
Kansas	19	22	16	13	21	11	205	182	220	214	226	198	102	1,245
Kentucky	13	22	11	5	14	15	175	140	173	174	170	136	80	968
Louisiana	37	35	33	28	16	35	248	288	267	242	310	252	184	1,607
Maine	-	1	2	-	2	-	53	71	77	49	58	33	5	341
Maryland	18	5	4	12	9	7	176	72	94	105	103	113	55	663
Massachusetts	12	19	5	12	17	14	215	153	155	187	183	205	79	1,098
Michigan	28	24	16	22	23	22	377	392	317	305	300	246	135	1,937
Minnesota	21	15	22	24	11	15	399	307	314	315	303	261	108	1,899
Mississippi	17	22	28	26	17	33	132	136	127	145	120	115	143	775
Missouri	30	24	34	18	29	16	241	212	236	287	221	233	151	1,430
Montana	8	8	7	4	4	3	145	113	79	93	108	109	34	647
Nebraska	14	16	15	14	8	7	220	197	263	295	247	241	74	1,463
Nevada	4	3	6	4	1	3	32	30	34	47	25	32	21	200
New Hampshire	1	-	1	-	-	-	10	5	14	12	15	6	2	62
New Jersey	25	29	31	21	28	38	481	407	325	380	432	438	172	2,463
New Mexico	14	17	12	8	4	17	84	67	105	82	106	76	72	520
New York	27	41	29	25	32	28	1,621	1,453	1,210	1,237	1,168	1,132	182	7,821
North Carolina	27	26	40	24	24	26	180	146	145	123	121	113	167	828
North Dakota	5	2	8	3	9	4	101	81	68	72	82	76	31	480
Ohio	34	45	30	39	28	34	383	365	368	395	339	247	210	2,097
Oklahoma	28	30	19	22	22	17	130	134	135	108	124	109	138	740
Oregon	7	18	22	10	9	14	185	136	157	145	152	140	80	915
Pennsylvania	19	30	17	20	23	35	756	778	743	663	583	540	144	4,063
Rhode Island	1	4	2	1	1	1	14	12	11	17	19	20	10	93
South Carolina	18	21	23	16	20	12	99	104	98	80	141	83	110	605
South Dakota	2	1	-	-	3	1	41	37	43	48	43	31	7	243
Tennessee	20	20	25	17	15	24	130	135	141	153	163	173	121	895
Texas	124	99	97	84	90	88	731	768	795	853	777	750	582	4,674
Utah	14	6	6	7	5	4	92	87	84	87	88	102	42	540
Vermont	1	-	1	-	1	1	26	11	25	33	22	19	4	136
Virginia	18	12	13	10	13	6	143	139	160	143	169	154	72	908
Washington	19	25	21	20	16	23	231	210	211	195	230	229	124	1,306
West Virginia	8	12	7	2	9	5	78	64	83	84	93	88	43	490
Wisconsin	9	19	11	9	20	15	300	283	237	219	258	202	83	1,499
Wyoming	5	2	4	3	2	2	81	79	94	114	107	92	18	567
Total	1,039	1,063	1,008	932	937	971	12,558	11,767	11,459	11,700	11,643	10,985	5,950	70,112

TABLE 1-6 TOTAL EMPLOYEE ON DUTY CASES BY RAILROAD

Railroads	1996		1997		1998		1999		2000		2001	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	13	3.92	17	5.03	16	4.86	15	4.56	22	6.62	8	2.33
Alaska RR Corp.	45	8.66	63	11.45	54	9.28	51	7.92	40	6.13	50	7.01
Amtrak	987	4.64	901	4.33	842	3.87	914	4.03	920	4.01	881	4.10
Bangor & Aroostook	36	11.16	36	11.90	48	14.56	25	7.78	26	8.33	15	5.97
Bessemer & Lake Erie RR	12	3.70	8	2.14	16	3.54	5	1.05	5	1.06	7	2.43
Burlington Northern Santa Fe	879	2.01	789	1.74	1,014	2.20	1,031	2.39	1,059	2.61	1,067	2.67
Belt Rwy Of Chicago	14	2.08	14	2.02	17	2.58	7	1.06	5	0.80	10	1.83
Consolidated Rail Corp.	671	3.13	518	2.58	419	2.05	194	2.20	-	-	-	-
Conrail Shared Assets	-	-	-	-	-	-	25	1.66	32	1.68	28	1.81
CSX Transportation	582	2.05	608	2.15	718	2.45	892	2.70	998	2.89	806	2.44
Delaware & Hudson	43	7.14	31	5.27	28	4.29	44	5.19	40	4.57	49	7.37
Dakota,Minnesota & Eastern	22	6.17	21	5.83	23	6.93	29	8.54	19	5.22	16	4.10
Duluth,Missabe & Iron Range	65	9.32	50	6.93	42	5.88	23	3.34	37	5.56	32	5.77
Duluth,Winnipeg & Pacific	8	3.73	8	3.73	5	2.36	3	1.49	3	1.44	1	0.45
Elgin, Joliet & Eastern	45	6.04	47	5.97	45	5.83	39	5.14	32	4.24	36	4.98
Florida East Coast	45	4.94	39	4.43	29	3.20	30	3.46	26	3.15	15	1.88
Guilford Rail System	18	1.86	11	1.16	21	2.25	20	2.02	28	2.91	11	1.20
Grand Trunk Western RR	152	6.77	131	6.35	153	7.00	122	5.52	108	5.79	84	4.37
Gateway Western	17	6.11	5	2.01	12	4.92	19	7.37	2	0.73	8	2.83
Illinois Central	136	3.53	111	2.91	105	2.80	118	3.10	159	3.85	132	3.06
Indiana Harbor Belt	27	2.98	53	6.14	53	6.05	34	3.63	37	4.25	39	5.07
I & M Rail Link, LLC	-	-	17	3.15	40	5.40	39	5.62	51	7.78	27	3.54
Kansas City Southern	89	3.33	79	3.01	95	3.49	86	3.08	77	2.75	64	2.41
Long Island Rail Road	508	8.90	451	7.72	408	6.88	396	6.68	350	5.59	303	5.12
MD Assn. of Rail Comm	3	2.87	2	1.98	1	0.76	2	1.05	4	1.65	3	1.10
Mass Bay Transit Auth.	96	6.36	69	4.16	85	4.73	83	4.54	80	4.50	91	4.92
Metro North Commuter	533	10.19	433	8.27	319	6.03	334	6.26	367	7.00	347	6.50
Montana Rail Link	67	5.97	40	3.46	12	1.15	20	2.07	21	2.19	37	3.97
Northern IN Comm Trans	30	9.06	29	8.70	28	8.17	40	11.33	25	6.46	13	3.17
Northeast IL Reg Comm	134	5.59	110	4.59	127	5.12	93	3.61	132	5.03	180	4.27
New Jersey Transit Rail	88	2.29	89	2.44	85	2.33	130	3.37	141	3.61	163	4.17
Norfolk Southern Corp.	294	1.26	220	0.94	270	1.07	409	1.27	499	1.46	399	1.33
Paducah & Louisville	20	7.11	11	4.07	6	2.07	9	2.87	13	4.29	4	1.40
Port Auth Trans Hudson	113	11.04	113	11.45	101	10.45	86	8.98	105	11.32	108	11.22
Peninsula Comm San Mateo Cnty	14	3.96	15	4.33	18	5.01	4	1.06	22	5.15	18	4.12
Port Terminal RR Assn	6	1.88	5	1.55	6	1.78	4	1.25	8	2.44	9	2.70
Southern CA Reg Rail Auth.	3	1.35	12	3.66	8	2.71	8	2.97	14	4.72	8	2.68
Southeastern PA Trans.	198	11.30	193	11.68	181	10.27	167	9.82	142	8.30	178	10.01
Soo Line	369	9.06	229	6.53	167	4.96	181	5.74	147	5.08	150	4.84
Texas Mexican	1	0.58	5	2.10	4	1.35	14	6.09	20	8.60	15	6.44
Term RR Assn Of St. Louis	15	5.37	4	1.47	1	0.36	7	2.40	7	2.27	13	4.52
Econo Rail Corporation	-	-	-	-	-	-	7	4.76	8	4.13	5	2.44
Union Pacific	1,561	2.91	1,545	2.89	1,680	3.16	1,797	3.49	1,532	3.10	1,464	3.01
Union RR (Pittsburgh)	28	7.67	15	4.25	28	7.79	34	10.38	21	6.68	25	5.85
Wisconsin Central Ltd.	110	5.31	122	5.50	86	3.81	95	4.12	102	4.35	84	3.84
Wheeling & Lake Erie	11	2.94	16	4.45	7	1.63	10	2.30	16	3.64	9	2.22
Other Railroads	1,124	9.29	1,047	8.52	1,002	8.13	958	7.77	945	7.77	825	6.96

Rate is the frequency of total cases per 200,000 hours worked

TABLE 1-7 TRAIN ACCIDENTS BY RAILROAD, EXCLUDING HRC

Railroads	1996		1997		1998		1999		2000		2001	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	6	8.18	4	5.55	4	5.37	13	17.26	6	7.80	11	13.82
Alaska RR Corp.	5	5.80	7	6.47	5	4.58	6	4.68	2	1.49	1	0.70
Amtrak	88	2.60	84	2.27	89	2.51	85	2.35	148	4.10	150	3.89
Bangor & Aroostook	3	3.51	-	-	3	2.48	7	5.75	6	5.41	2	2.44
Bessemer & Lake Erie RR	1	4.09	1	4.18	2	6.71	-	-	2	8.00	2	8.95
Burlington Northern Santa Fe	454	3.11	439	2.84	435	2.67	481	2.96	573	3.57	623	3.82
Belt Rwy Of Chicago	59	126.7	39	77.48	29	63.18	44	94.23	20	43.56	15	33.53
Consolidated Rail Corp.	175	3.83	187	4.12	236	5.07	104	5.30	-	-	-	-
Conrail Shared Assets	-	-	-	-	-	-	17	10.65	40	15.59	33	14.50
CSX Transportation	163	1.95	257	3.07	310	3.71	423	4.02	484	4.23	389	3.58
Delaware & Hudson	8	4.59	6	2.92	4	1.92	8	3.52	9	3.72	8	3.95
Dakota,Minnesota & Eastern	26	36.00	27	38.39	16	23.79	12	14.85	23	28.63	15	19.40
Duluth,Missabe & Iron Range	7	9.24	10	11.72	10	12.87	7	9.61	7	9.60	4	5.57
Duluth,Winnipeg & Pacific	4	6.12	1	1.38	4	5.77	2	2.92	4	5.70	2	2.62
Elgin, Joliet & Eastern	15	24.41	11	18.34	14	20.84	15	22.21	10	15.37	11	17.23
Florida East Coast	12	3.64	12	3.55	20	5.87	24	7.64	18	6.27	15	5.89
Guilford Rail System	2	1.88	3	2.74	5	4.37	7	6.71	9	9.06	3	1.77
Grand Trunk Western RR	32	5.85	25	4.42	21	3.91	21	4.05	20	3.71	15	2.94
Gateway Western	6	5.98	4	4.41	11	13.13	13	16.28	9	10.37	12	13.16
Illinois Central	82	9.14	58	6.37	73	7.82	60	6.48	71	6.13	66	6.10
Indiana Harbor Belt	9	5.87	25	16.01	27	17.27	37	21.90	26	17.00	24	18.15
I & M Rail Link, LLC	-	-	19	13.91	34	16.26	31	15.42	37	18.56	36	18.54
Kansas City Southern	75	9.23	71	8.59	66	7.62	79	9.32	94	11.84	92	12.01
Long Island Rail Road	39	4.77	22	2.70	19	2.33	15	1.83	18	2.19	19	2.31
MD Assn. of Rail Comm	1	1.85	-	-	1	1.39	2	1.85	2	1.82	-	-
Mass Bay Transit Auth.	-	-	1	0.37	-	-	2	0.55	1	0.26	2	0.52
Metro North Commuter	23	3.09	20	2.62	33	4.23	28	3.62	38	4.63	55	6.55
Montana Rail Link	34	9.05	39	9.59	12	3.12	13	3.93	13	3.75	19	5.40
Northern IN Comm Trans	-	-	2	2.40	6	7.17	3	3.45	1	1.14	1	1.14
Northeast IL Reg Comm	6	1.77	6	1.72	1	0.29	4	1.12	5	1.39	7	0.80
New Jersey Transit Rail	12	1.54	16	1.99	12	1.47	8	0.98	17	2.02	25	2.95
Norfolk Southern Corp.	151	2.37	170	2.64	149	2.19	238	2.91	275	2.87	239	2.66
Paducah & Louisville	7	11.68	7	11.60	4	6.48	3	4.77	3	5.07	5	8.78
Port Auth Trans Hudson	-	-	-	-	-	-	1	0.50	2	0.99	3	1.48
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	-	2	1.81	1	0.83
Port Terminal RR Assn	6	5.31	11	8.84	12	9.61	6	4.82	13	10.51	18	14.40
Southern CA Reg Rail Auth.	4	3.20	3	2.21	4	2.72	4	2.32	1	0.57	3	1.65
Southeastern PA Trans.	9	1.78	16	3.12	16	3.08	8	1.51	16	2.96	10	1.87
Soo Line	106	10.74	54	6.44	42	5.05	46	5.71	23	2.80	31	3.74
Texas Mexican	2	7.03	3	5.13	5	4.44	12	10.74	9	10.26	14	53.05
Term RR Assn Of St. Louis	14	26.96	18	33.12	10	17.63	18	29.80	7	10.44	9	13.64
Econo Rail Corporation	-	-	-	-	-	-	5	8.83	6	7.74	3	3.65
Union Pacific	719	4.00	581	3.51	727	4.62	719	4.08	758	4.19	896	5.19
Union RR (Pittsburgh)	9	58.90	1	6.71	1	6.01	4	26.96	7	50.96	2	17.71
Wisconsin Central Ltd.	50	9.92	36	7.13	23	4.38	35	6.70	48	8.27	34	5.44
Wheeling & Lake Erie	1	1.79	7	14.93	-	-	1	1.90	8	12.11	10	15.47
Other Railroads	227	10.86	268	10.96	294	12.13	316	13.37	326	13.89	346	14.76

Rate is the frequency of accidents per 1,000,000 train miles

TABLE 1-8 TRAIN ACCIDENTS BY STATE, EXCLUDING HRC

States	1996		1997		1998		1999		2000		2001		6 Year Total	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	34	1.4	37	1.5	48	1.9	45	1.6	51	1.7	76	2.5	291	1.8
Alaska	5	0.2	7	0.3	5	0.2	6	0.2	2	0.1	1	0.0	26	0.2
Arizona	22	0.9	21	0.9	18	0.7	25	0.9	48	1.6	43	1.4	177	1.1
Arkansas	56	2.3	50	2.1	61	2.4	65	2.3	72	2.4	62	2.1	366	2.3
California	127	5.2	105	4.4	135	5.2	154	5.6	183	6.1	182	6.0	886	5.5
Colorado	52	2.1	39	1.6	54	2.1	60	2.2	57	1.9	59	2.0	321	2.0
Connecticut	13	0.5	12	0.5	24	0.9	30	1.1	36	1.2	36	1.2	151	0.9
Delaware	3	0.1	5	0.2	6	0.2	5	0.2	7	0.2	12	0.4	38	0.2
Dist Of Columbia	8	0.3	5	0.2	7	0.3	9	0.3	15	0.5	21	0.7	65	0.4
Florida	38	1.6	39	1.6	58	2.3	61	2.2	66	2.2	43	1.4	305	1.9
Georgia	43	1.8	64	2.7	64	2.5	80	2.9	66	2.2	58	1.9	375	2.3
Idaho	31	1.3	25	1.0	31	1.2	17	0.6	25	0.8	18	0.6	147	0.9
Illinois	258	10.6	251	10.5	189	7.3	288	10.4	231	7.7	229	7.6	1,446	8.9
Indiana	57	2.3	68	2.8	87	3.4	85	3.1	79	2.6	90	3.0	466	2.9
Iowa	79	3.2	89	3.7	94	3.7	86	3.1	82	2.7	91	3.0	521	3.2
Kansas	71	2.9	59	2.5	75	2.9	89	3.2	91	3.1	100	3.3	485	3.0
Kentucky	39	1.6	56	2.3	58	2.3	54	2.0	44	1.5	32	1.1	283	1.7
Louisiana	56	2.3	61	2.5	71	2.8	70	2.5	79	2.6	113	3.7	450	2.8
Maine	6	0.2	4	0.2	10	0.4	15	0.5	13	0.4	7	0.2	55	0.3
Maryland	12	0.5	30	1.3	17	0.7	30	1.1	51	1.7	29	1.0	169	1.0
Massachusetts	10	0.4	11	0.5	12	0.5	18	0.7	23	0.8	24	0.8	98	0.6
Michigan	48	2.0	48	2.0	48	1.9	43	1.6	47	1.6	35	1.2	269	1.7
Minnesota	92	3.8	65	2.7	60	2.3	85	3.1	80	2.7	70	2.3	452	2.8
Mississippi	62	2.5	42	1.8	41	1.6	35	1.3	61	2.0	49	1.6	290	1.8
Missouri	77	3.2	46	1.9	57	2.2	73	2.6	83	2.8	90	3.0	426	2.6
Montana	52	2.1	54	2.3	39	1.5	27	1.0	30	1.0	29	1.0	231	1.4
Nebraska	79	3.2	77	3.2	82	3.2	75	2.7	82	2.7	99	3.3	494	3.1
Nevada	10	0.4	8	0.3	10	0.4	8	0.3	12	0.4	14	0.5	62	0.4
New Hampshire	-	-	-	-	2	0.1	1	0.0	-	-	1	0.0	4	0.0
New Jersey	18	0.7	28	1.2	27	1.0	36	1.3	56	1.9	52	1.7	217	1.3
New Mexico	18	0.7	15	0.6	21	0.8	18	0.7	25	0.8	32	1.1	129	0.8
New York	113	4.6	96	4.0	102	4.0	105	3.8	139	4.7	132	4.4	687	4.2
North Carolina	19	0.8	21	0.9	27	1.0	36	1.3	28	0.9	29	1.0	160	1.0
North Dakota	33	1.4	28	1.2	28	1.1	23	0.8	24	0.8	26	0.9	162	1.0
Ohio	76	3.1	71	3.0	88	3.4	98	3.5	120	4.0	97	3.2	550	3.4
Oklahoma	37	1.5	32	1.3	52	2.0	47	1.7	61	2.0	68	2.2	297	1.8
Oregon	46	1.9	40	1.7	57	2.2	53	1.9	41	1.4	53	1.8	290	1.8
Pennsylvania	88	3.6	102	4.3	115	4.5	103	3.7	127	4.3	92	3.0	627	3.9
Rhode Island	-	-	-	-	-	-	-	-	1	0.0	2	0.1	3	0.0
South Carolina	17	0.7	22	0.9	24	0.9	30	1.1	28	0.9	24	0.8	145	0.9
South Dakota	28	1.1	24	1.0	21	0.8	14	0.5	22	0.7	14	0.5	123	0.8
Tennessee	42	1.7	63	2.6	56	2.2	68	2.5	66	2.2	64	2.1	359	2.2
Texas	182	7.4	223	9.3	266	10.3	260	9.4	274	9.2	363	12.0	1,568	9.7
Utah	35	1.4	21	0.9	38	1.5	33	1.2	38	1.3	36	1.2	201	1.2
Vermont	3	0.1	4	0.2	5	0.2	4	0.1	4	0.1	7	0.2	27	0.2
Virginia	54	2.2	46	1.9	44	1.7	48	1.7	44	1.5	35	1.2	271	1.7
Washington	49	2.0	46	1.9	35	1.4	38	1.4	41	1.4	53	1.8	262	1.6
West Virginia	28	1.1	23	1.0	25	1.0	28	1.0	15	0.5	23	0.8	142	0.9
Wisconsin	68	2.8	70	2.9	39	1.5	45	1.6	63	2.1	56	1.9	341	2.1
Wyoming	49	2.0	44	1.8	42	1.6	42	1.5	50	1.7	52	1.7	279	1.7
Total	2,443	100.0	2,397	100.0	2,575	100.0	2,768	100.0	2,983	100.0	3,023	100.0	16,189	100.0

TABLE 1-9 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD

Railroads	1996			1997			1998			1999			2000			2001		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alton & Southern	3	2	-	1	1	-	-	-	-	-	-	-	1	1	-	1	1	-
Alaska RR Corp.	-	-	-	1	1	-	1	1	-	2	2	2	1	1	1	-	-	-
Amtrak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bangor & Aroostook	2	-	-	-	-	-	-	-	-	3	2	1	2	1	-	2	1	-
Bessemer & Lake Erie RR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Burlington Northern Santa Fe	132	57	5	122	54	3	144	73	6	210	91	10	253	120	7	265	133	9
Belt Rwy Of Chicago	12	7	-	10	7	-	2	1	-	13	5	1	3	3	-	1	1	-
Consolidated Rail Corp.	25	25	1	32	26	3	37	33	5	22	19	3	-	-	-	-	-	-
Conrail Shared Assets	-	-	-	-	-	-	-	-	-	4	4	-	9	6	-	10	10	-
CSX Transportation	47	28	5	62	33	4	99	43	9	110	53	4	116	58	6	94	36	7
Delaware & Hudson	-	-	-	-	-	-	1	1	1	6	1	-	4	3	1	4	2	-
Dakota,Minnesota & Eastern	1	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Duluth,Missabe & Iron Range	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Duluth,Winnipeg & Pacific	2	1	-	1	1	-	-	-	-	1	1	-	2	2	-	1	-	-
Elgin, Joliet & Eastern	4	3	-	2	-	-	3	-	-	3	1	-	1	1	-	1	1	-
Florida East Coast	2	-	-	4	1	-	1	-	-	3	-	-	3	1	-	1	1	-
Guilford Rail System	-	-	-	1	1	-	3	1	-	7	5	-	2	-	-	2	-	-
Grand Trunk Western RR	1	-	-	2	2	-	7	7	1	6	4	-	2	1	-	6	4	-
Gateway Western	5	4	-	1	1	1	4	1	-	2	2	-	3	1	-	7	5	1
Illinois Central	44	26	3	24	18	2	34	21	3	26	25	2	21	11	-	28	19	2
Indiana Harbor Belt	-	-	-	2	2	-	5	2	1	10	4	-	3	1	-	3	1	-
I & M Rail Link, LLC	-	-	-	8	3	-	11	2	1	12	6	2	15	7	1	14	7	-
Kansas City Southern	2	1	1	12	4	2	9	3	1	21	10	2	34	18	1	31	19	1
Long Island Rail Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana Rail Link	14	5	1	14	8	-	6	2	-	11	7	2	7	5	-	10	5	-
Northern IN Comm Trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey Transit Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norfolk Southern Corp.	27	17	4	39	23	4	29	7	2	28	13	-	44	22	5	53	25	2
Paducah & Louisville	5	4	-	4	3	1	3	3	-	-	-	-	3	3	-	-	-	-
Port Auth Trans Hudson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Terminal RR Assn	-	-	-	2	1	-	7	6	-	-	-	-	2	1	-	10	8	-
Southern CA Reg Rail Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soo Line	16	10	1	11	4	-	9	5	2	15	4	-	6	3	1	5	-	-
Texas Mexican	2	-	-	2	1	1	2	2	-	4	1	1	6	-	-	7	2	-
Term RR Assn Of St. Louis	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	1	-	-
Econo Rail Corporation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
Union Pacific	154	67	10	135	59	6	163	70	8	142	71	9	152	79	8	184	90	8
Union RR (Pittsburgh)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Wisconsin Central Ltd.	17	9	1	10	1	-	3	-	-	11	1	-	20	5	2	11	2	-
Wheeling & Lake Erie	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2	1	-
Other Railroads	44	25	2	38	22	4	43	32	3	43	23	3	34	25	2	44	26	2
Total	562	292	34	540	277	31	628	317	43	716	356	42	753	381	35	799	401	32

Cnt = Number of Consists; Dmg = Damaged; Rls = Releases

TABLE 1-10 CONSISTS TRANSPORTING HAZMAT, BY STATE

States	1996			1997			1998			1999			2000			2001		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alabama	14	8	-	15	6	-	18	5	-	15	5	-	19	11	2	23	13	3
Alaska	-	-	-	1	1	-	1	1	-	2	2	1	1	1	-	-	-	-
Arizona	14	9	2	10	6	2	10	8	-	11	8	2	20	9	2	16	6	2
Arkansas	23	7	-	7	3	1	15	8	1	18	8	-	16	9	1	15	7	-
California	35	19	4	24	10	-	35	18	1	43	22	4	46	24	2	46	25	1
Colorado	12	4	1	4	2	-	17	7	-	16	3	-	14	7	-	16	6	-
Connecticut	-	-	-	1	1	1	-	-	-	4	1	1	-	-	-	-	-	-
Delaware	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	1	-
Dist Of Columbia	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	-	-
Florida	2	-	-	6	2	1	9	3	2	10	3	-	13	9	2	5	3	-
Georgia	8	4	1	12	5	-	11	3	-	6	3	1	8	3	1	14	7	3
Idaho	8	4	-	10	3	1	8	3	1	6	3	1	9	4	-	10	3	-
Illinois	69	35	2	52	31	3	46	28	5	68	33	5	54	32	1	56	25	1
Indiana	7	3	-	11	7	-	12	7	-	24	12	-	10	6	1	14	8	-
Iowa	14	9	2	23	11	1	15	5	1	23	8	2	17	10	1	21	7	1
Kansas	24	14	-	20	8	1	13	4	1	18	6	2	26	14	-	31	19	1
Kentucky	16	10	1	18	13	1	15	8	-	17	9	-	9	5	-	8	5	-
Louisiana	20	14	1	24	14	2	18	11	1	30	22	2	45	28	3	53	33	3
Maine	3	-	-	2	2	-	3	2	-	9	6	1	4	1	-	4	2	-
Maryland	2	1	1	5	4	1	3	-	-	5	2	-	9	3	-	7	5	2
Massachusetts	-	-	-	3	1	1	2	-	-	4	2	-	2	-	-	3	1	-
Michigan	4	3	-	7	4	-	14	9	1	7	3	-	14	7	-	11	8	-
Minnesota	11	6	1	11	3	-	17	7	-	20	7	-	22	14	1	16	4	-
Mississippi	13	5	1	10	4	1	8	3	1	11	6	2	15	8	-	18	11	-
Missouri	13	6	-	12	9	-	13	5	1	25	10	1	27	10	-	29	15	1
Montana	20	8	1	18	10	-	14	5	-	19	9	4	16	6	-	12	6	-
Nebraska	12	3	1	8	1	-	21	10	1	16	7	1	18	4	1	18	7	-
Nevada	3	2	-	1	-	-	7	3	1	1	1	-	2	1	-	4	1	1
New Hampshire	1	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	-	-
New Jersey	1	1	-	5	2	-	6	6	2	7	7	-	7	4	-	8	7	-
New Mexico	9	5	-	7	3	-	11	3	-	7	3	-	6	2	-	19	9	1
New York	7	7	1	5	5	2	7	6	1	17	10	1	21	14	2	19	10	1
North Carolina	9	8	2	6	3	1	7	4	-	13	8	1	7	5	2	7	2	-
North Dakota	7	2	-	2	1	-	6	3	1	6	5	-	6	2	-	3	1	-
Ohio	15	12	-	16	11	1	16	11	2	12	5	-	26	14	2	21	5	1
Oklahoma	10	5	-	4	2	1	12	7	-	14	6	-	19	10	-	28	15	1
Oregon	10	4	2	11	4	-	12	4	1	16	4	-	12	6	1	15	8	-
Pennsylvania	10	8	-	14	11	-	20	14	3	14	9	2	26	14	1	16	7	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	6	5	1	4	1	-	9	6	2	11	6	-	8	5	-	4	2	-
South Dakota	1	-	-	2	1	-	3	1	-	-	-	-	-	-	-	2	1	-
Tennessee	18	11	2	23	13	2	32	9	3	26	16	1	25	11	-	18	9	-
Texas	58	26	3	83	43	3	91	55	4	86	46	4	92	40	4	140	80	8
Utah	5	2	-	6	5	1	10	6	-	5	4	1	4	3	1	1	-	-
Vermont	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Virginia	6	5	1	5	3	1	7	3	1	6	1	-	3	2	-	2	1	-
Washington	6	2	-	14	2	-	14	7	1	14	6	-	20	7	-	13	4	-
West Virginia	3	1	-	2	1	1	4	2	2	3	3	-	1	-	-	5	-	-
Wisconsin	19	10	1	11	2	-	6	3	1	11	2	-	21	7	2	13	4	-
Wyoming	12	4	2	3	2	1	9	3	1	17	12	1	13	9	1	11	8	1
Total	562	292	34	540	277	31	628	317	43	716	356	42	753	381	35	799	401	32

TABLE 1-11 TOTAL HIGHWAY-RAIL CROSSING INCIDENTS BY RAILROAD

Railroads	At Public Crossing						At Private Crossing					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
Alton & Southern	1	-	1	-	-	-	-	-	-	-	-	-
Alaska RR Corp.	5	4	3	2	7	4	1	1	1	1	-	-
Amtrak	132	150	145	158	168	140	18	26	25	23	34	22
Bangor & Aroostook	1	2	1	4	1	1	2	1	1	2	-	1
Bessemer & Lake Erie RR	2	5	1	-	-	-	-	-	-	-	-	-
Burlington Northern Santa Fe	528	537	462	446	437	410	104	74	79	82	99	63
Belt Rwy Of Chicago	-	2	1	1	-	3	-	-	-	-	-	1
Consolidated Rail Corp.	218	173	156	58	-	-	24	14	12	6	-	-
Conrail Shared Assets	-	-	-	11	20	17	-	-	-	-	2	2
CSX Transportation	446	432	378	383	441	471	35	37	43	42	49	50
Delaware & Hudson	6	9	2	3	6	2	2	3	-	3	1	2
Dakota,Minnesota & Eastern	10	19	14	11	10	9	1	2	-	-	1	3
Duluth,Missabe & Iron Range	3	2	1	2	1	1	1	-	-	-	-	-
Duluth,Winnipeg & Pacific	2	4	2	2	2	1	-	-	-	-	-	-
Elgin, Joliet & Eastern	7	3	6	6	4	3	2	2	2	1	1	2
Florida East Coast	28	20	17	20	13	21	-	-	1	2	1	1
Guilford Rail System	9	13	5	4	4	3	-	2	-	-	2	1
Grand Trunk Western RR	43	38	13	22	24	23	-	2	1	2	2	1
Gateway Western	7	6	5	4	5	3	2	-	-	-	1	1
Illinois Central	124	115	114	111	101	82	12	21	12	8	6	8
Indiana Harbor Belt	12	10	10	10	6	8	2	4	-	3	3	2
I & M Rail Link, LLC	-	16	37	30	38	32	-	4	5	4	7	4
Kansas City Southern	165	171	176	132	131	113	13	16	14	12	17	7
Long Island Rail Road	10	4	6	6	8	5	-	-	-	-	-	-
MD Assn. of Rail Comm	1	-	-	4	1	-	-	-	-	-	-	-
Mass Bay Transit Auth.	1	4	3	2	6	6	-	1	-	-	-	-
Metro North Commuter	7	2	5	2	1	1	2	1	1	1	-	-
Montana Rail Link	12	15	11	3	9	10	10	8	5	5	4	1
Northern IN Comm Trans	10	13	9	6	5	3	-	-	3	-	-	1
Northeast IL Reg Comm	21	15	11	20	18	31	2	1	1	1	1	-
New Jersey Transit Rail	12	10	8	7	6	13	-	-	-	-	-	-
Norfolk Southern Corp.	500	446	432	497	513	432	68	62	61	67	73	75
Other Railroads	368	318	302	324	277	292	36	44	48	47	55	53
Paducah & Louisville	4	9	11	6	9	5	-	2	1	-	1	3
Peninsula Comm San Mateo Cnty	-	-	2	5	4	6	-	-	-	-	-	-
Port Terminal RR Assn	4	4	3	-	3	6	1	1	2	1	5	2
Southern CA Reg Rail Auth.	10	8	8	8	8	9	-	1	-	2	-	1
Southeastern PA Trans.	1	1	1	1	4	-	-	-	-	-	-	-
Soo Line	77	49	45	43	25	27	8	6	4	8	10	6
Texas Mexican	4	12	12	7	13	4	-	-	1	-	2	2
Term RR Assn Of St. Louis	2	-	-	-	1	1	-	-	-	-	-	-
Econo Rail Corporation	-	-	-	-	2	-	-	-	-	4	4	4
Union Pacific	871	680	590	656	602	555	115	103	91	69	83	74
Union RR (Pittsburgh)	-	1	-	-	-	-	2	-	-	-	-	-
Wisconsin Central Ltd.	105	81	68	66	90	79	5	11	6	1	6	-
Wheeling & Lake Erie	19	11	9	7	8	11	1	1	2	-	-	1
Total	3,788	3,414	3,086	3,090	3,032	2,843	469	451	422	399	470	394

TABLE 1-12 TOTAL HIGHWAY-RAIL CROSSING INCIDENTS BY STATE

States	At Public Crossing						At Private Crossing						At Public Crossing			At Private Crossing		
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001	Cnt	Kld	Nonf	Cnt	Kld	Nonf
Alabama	142	121	134	112	84	93	15	14	11	12	11	10	686	76	258	73	3	17
Alaska	5	4	3	2	7	4	1	1	1	1	-	-	25	1	4	4	-	-
Arizona	25	25	32	30	26	28	5	2	3	3	3	1	166	27	57	17	1	3
Arkansas	131	100	104	95	99	83	14	18	12	10	16	4	612	94	221	74	11	20
California	172	133	159	175	141	163	29	26	31	29	33	17	943	157	283	165	26	78
Colorado	25	24	25	28	31	28	8	4	7	5	5	6	161	18	51	35	5	14
Connecticut	9	4	8	6	4	1	3	2	2	2	4	2	32	3	10	15	-	3
Delaware	4	4	4	10	10	6	-	-	1	1	-	1	38	3	19	3	-	1
Dist Of Columbia	2	-	-	-	-	-	-	-	1	-	2	-	2	-	-	3	-	-
Florida	93	79	68	91	75	99	9	10	7	4	11	15	505	76	226	56	8	23
Georgia	136	124	119	125	119	118	19	14	21	11	9	4	741	74	236	78	6	29
Hawaii	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
Idaho	43	27	25	20	26	17	6	3	2	-	7	3	158	27	48	21	3	1
Illinois	210	191	177	178	196	187	22	22	22	24	21	25	1,139	201	480	136	11	31
Indiana	211	210	176	182	188	153	13	17	18	11	6	12	1,120	140	427	77	4	26
Iowa	114	90	90	92	99	100	9	16	14	7	10	10	585	48	199	66	7	18
Kansas	101	99	62	74	58	56	12	10	9	3	9	7	450	58	170	50	4	6
Kentucky	69	49	59	49	57	60	8	16	14	13	12	19	343	25	120	82	7	27
Louisiana	213	179	192	164	162	147	18	24	22	16	19	14	1,057	128	531	113	14	53
Maine	6	10	7	5	5	7	2	2	1	2	3	2	40	-	13	12	1	1
Maryland	9	16	11	16	12	14	1	2	4	2	7	3	78	3	23	19	-	5
Massachusetts	19	14	3	9	11	15	3	4	2	1	1	2	71	6	38	13	-	1
Michigan	136	144	96	111	128	92	6	8	8	11	6	4	707	77	336	43	4	19
Minnesota	132	110	108	92	84	73	25	6	8	10	7	9	599	57	234	65	6	15
Mississippi	120	133	124	126	107	96	12	15	9	8	6	6	706	106	345	56	6	22
Missouri	107	89	72	88	67	55	20	23	15	11	21	9	478	68	175	99	10	22
Montana	23	18	19	11	14	15	11	11	8	8	10	1	100	9	40	49	5	8
Nebraska	54	62	49	55	46	39	9	6	10	9	9	11	305	44	95	54	2	11
Nevada	6	-	1	3	1	2	1	1	3	3	1	-	13	2	5	9	-	3
New Hampshire	1	2	2	6	3	1	1	-	-	-	-	1	15	-	1	2	1	-
New Jersey	27	33	16	21	34	31	4	1	1	3	2	5	162	34	51	16	-	10
New Mexico	23	17	14	15	13	20	3	3	3	4	4	4	102	26	52	21	3	5
New York	31	27	25	24	33	22	5	10	4	7	8	10	162	22	53	44	8	12
North Carolina	112	103	93	77	94	65	11	11	16	22	19	14	544	40	182	93	13	45
North Dakota	30	19	20	15	16	15	3	2	3	2	1	2	115	19	33	13	1	7
Ohio	174	172	142	127	138	123	12	6	12	19	10	17	876	109	281	76	4	10
Oklahoma	75	109	60	77	83	65	5	8	6	7	6	4	469	91	213	36	2	12
Oregon	28	25	30	22	21	25	15	10	14	8	9	18	151	16	36	74	2	11
Pennsylvania	64	58	58	49	59	59	10	9	5	9	10	9	347	25	102	52	4	21
Rhode Island	-	1	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
South Carolina	83	72	75	61	67	58	4	2	3	3	13	7	416	45	168	32	3	4
South Dakota	20	22	14	15	8	16	-	1	1	-	3	4	95	3	36	9	-	2
Tennessee	113	78	90	87	80	81	10	10	14	3	10	16	529	52	165	63	5	12
Texas	391	368	288	322	327	313	43	53	34	43	61	49	2,009	248	882	283	44	119
Utah	31	25	23	18	15	18	4	2	1	1	3	2	130	27	42	13	1	2
Vermont	3	1	3	5	2	-	3	-	1	1	-	-	14	1	4	5	-	2
Virginia	50	37	36	35	34	31	20	19	15	20	20	13	223	7	82	107	7	37
Washington	51	57	48	39	24	30	18	7	11	12	21	8	249	23	57	77	5	15
West Virginia	17	19	21	19	14	13	5	6	2	12	6	7	103	7	30	38	4	11
Wisconsin	144	106	97	104	110	102	6	11	8	5	12	2	663	47	291	44	3	11
Wyoming	3	4	3	3	-	3	6	3	2	1	3	5	16	1	9	20	3	6
Total	3,788	3,414	3,086	3,090	3,032	2,843	469	451	422	399	470	394	19,253	2371	7414	2,605	257	811

TABLE 1-13 HIGHWAY-RAIL CROSSING INCIDENTS CASUALTIES BYRAILROAD

Railroads	Fatalities						Nonfatal					
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
Alton & Southern	-	-	-	-	-	-	1	-	1	-	-	-
Alaska RR Corp.	-	1	-	-	-	-	-	-	2	1	-	1
Amtrak	41	53	50	52	56	69	66	123	125	146	90	84
Bangor & Aroostook	-	-	-	-	-	-	1	-	-	2	-	1
Bessemer & Lake Erie RR	-	1	-	-	-	-	-	5	1	-	-	-
Burlington Northern Santa Fe	107	85	96	59	65	55	197	209	183	237	202	181
Belt Rwy Of Chicago	-	1	-	-	-	-	-	2	-	-	-	1
Consolidated Rail Corp.	25	23	14	8	-	-	97	58	39	19	-	-
Conrail Shared Assets	-	-	-	1	1	2	-	-	-	2	10	6
CSX Transportation	42	59	55	54	55	63	196	213	161	189	212	206
Delaware & Hudson	-	2	-	1	1	2	2	6	-	4	4	1
Dakota,Minnesota & Eastern	1	-	-	-	-	-	6	1	2	3	4	1
Duluth,Missabe & Iron Range	-	-	-	-	-	-	1	1	1	2	1	-
Duluth,Winnipeg & Pacific	-	3	1	1	-	-	2	-	1	-	-	-
Elgin, Joliet & Eastern	-	-	-	2	-	-	2	2	1	2	-	2
Florida East Coast	5	5	1	5	7	3	10	9	8	12	6	3
Guilford Rail System	-	1	-	-	-	-	3	2	2	2	1	2
Grand Trunk Western RR	9	7	4	3	1	1	20	33	9	4	10	9
Gateway Western	3	-	1	-	2	-	-	4	1	1	3	1
Illinois Central	11	13	13	10	14	21	67	66	51	64	55	47
Indiana Harbor Belt	-	-	-	-	1	-	7	6	2	-	3	2
I & M Rail Link, LLC	-	2	2	2	5	4	-	8	26	11	15	18
Kansas City Southern	24	22	25	15	19	15	69	82	88	57	57	60
Long Island Rail Road	3	3	2	1	1	4	6	2	3	2	3	1
MD Assn. of Rail Comm	-	-	-	-	-	-	4	-	-	-	-	-
Mass Bay Transit Auth.	-	1	1	-	1	-	22	1	-	-	1	1
Metro North Commuter	1	-	-	-	-	-	3	-	-	3	1	-
Montana Rail Link	3	1	-	2	3	1	5	8	6	3	-	2
Northern IN Comm Trans	1	-	3	1	-	-	1	2	2	-	-	2
Northeast IL Reg Comm	2	2	1	2	3	9	13	9	8	6	-	15
New Jersey Transit Rail	2	7	5	4	3	6	2	1	2	1	-	1
Norfolk Southern Corp.	49	46	44	51	59	67	192	187	140	187	129	129
Paducah & Louisville	-	-	-	-	-	-	-	6	1	1	2	4
Peninsula Comm San Mateo Cnty	-	-	-	1	2	4	-	-	1	6	3	-
Port Terminal RR Assn	-	-	1	1	-	-	4	3	2	-	2	3
Southern CA Reg Rail Auth.	3	2	4	2	1	1	1	-	-	2	2	6
Southeastern PA Trans.	-	1	-	-	-	-	1	3	-	1	3	-
Soo Line	6	2	5	4	2	2	31	26	22	19	19	17
Texas Mexican	-	-	1	-	1	-	-	4	9	3	7	-
Term RR Assn Of St. Louis	-	-	-	-	-	-	2	-	-	-	-	-
Econo Rail Corporation	-	-	-	-	1	-	-	-	-	-	1	-
Union Pacific	133	103	89	101	101	72	376	325	262	281	244	227
Wisconsin Central Ltd.	3	3	5	6	9	10	45	42	38	36	43	35
Wheeling & Lake Erie	1	2	-	-	-	-	10	3	1	4	3	5
Other Railroads	13	10	8	13	11	10	145	88	102	83	83	83
Total	488	461	431	402	425	421	1,610	1,540	1,303	1,396	1,219	1,157

TABLE 1-14 TOTAL HIGHWAY-RAIL CROSSING INCIDENT CASUALTIES BY STATE

States	Fatalities						Nonfatal						6 Year Total	
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001	Kld	Nonf
Alabama	18	19	11	12	10	9	70	58	46	34	39	28	79	275
Alaska	-	1	-	-	-	-	-	-	2	1	-	1	1	4
Arizona	4	5	4	1	8	6	5	12	9	11	13	10	28	60
Arkansas	20	10	24	15	27	9	39	44	45	37	36	39	105	240
California	24	22	32	24	27	54	56	65	64	73	54	49	183	361
Colorado	5	2	4	3	6	3	13	6	13	15	8	10	23	65
Connecticut	-	-	1	-	2	-	3	1	4	3	-	2	3	13
Delaware	-	1	-	1	-	1	2	2	3	6	7	-	3	20
Florida	16	12	7	19	15	15	36	42	30	38	67	36	84	249
Georgia	19	12	13	7	10	19	44	57	35	41	38	50	80	265
Idaho	6	6	4	2	11	1	15	6	14	6	1	7	30	49
Illinois	39	27	30	54	31	31	88	85	67	114	68	89	212	511
Indiana	28	23	25	26	23	19	81	112	80	63	55	62	144	453
Iowa	8	12	3	10	6	16	38	55	30	28	31	35	55	217
Kansas	13	16	9	8	11	5	40	28	30	39	18	20	62	175
Kentucky	3	5	5	4	5	10	24	26	20	26	20	31	32	147
Louisiana	31	30	25	20	14	22	119	111	101	71	88	93	142	583
Maine	-	-	-	-	1	-	2	2	3	2	1	4	1	14
Maryland	-	-	-	1	1	1	7	7	2	1	2	9	3	28
Massachusetts	-	2	1	2	1	-	27	1	-	3	4	4	6	39
Michigan	17	14	11	15	13	11	85	89	46	48	51	36	81	355
Minnesota	14	7	14	13	6	9	48	32	47	57	40	25	63	249
Mississippi	15	19	24	17	15	22	69	61	63	83	44	47	112	367
Missouri	19	15	14	9	17	4	36	33	25	54	27	22	78	197
Montana	3	1	4	4	1	1	14	11	11	6	2	4	14	48
Nebraska	9	9	11	7	7	3	21	13	19	23	14	17	46	107
Nevada	1	-	1	-	-	-	5	-	2	1	-	-	2	8
New Hampshire	1	-	-	-	-	-	-	-	-	1	-	-	1	1
New Jersey	2	9	5	5	5	8	15	14	4	7	10	11	34	61
New Mexico	7	6	5	3	-	8	19	6	6	7	11	8	29	57
New York	4	7	2	4	5	8	14	14	6	12	14	5	30	65
North Carolina	9	6	15	3	14	6	53	50	48	30	25	21	53	227
North Dakota	4	1	6	1	6	2	13	7	7	3	2	8	20	40
Ohio	14	26	15	21	15	22	63	46	45	59	38	40	113	291
Oklahoma	22	24	12	14	12	9	38	56	39	26	47	19	93	225
Oregon	1	4	5	2	-	6	5	2	9	5	13	13	18	47
Pennsylvania	3	5	1	4	8	8	25	26	21	19	17	15	29	123
South Carolina	6	14	6	8	10	4	39	27	32	27	24	23	48	172
South Dakota	2	-	-	-	-	1	9	8	6	6	5	4	3	38
Tennessee	9	12	14	4	8	10	26	24	26	36	26	39	57	177
Texas	61	54	45	41	52	39	175	198	158	176	164	132	292	1,003
Utah	11	3	5	5	2	2	7	8	6	8	7	8	28	44
Vermont	1	-	-	-	-	-	5	-	-	1	-	-	1	6
Virginia	4	2	2	2	3	1	22	15	17	26	21	18	14	119
Washington	6	7	6	3	1	5	18	23	5	9	10	7	28	72
West Virginia	2	4	2	1	1	1	6	4	5	9	8	9	11	41
Wisconsin	5	6	7	7	15	10	66	53	48	43	49	43	50	302
Wyoming	2	1	1	-	-	-	5	-	4	2	-	4	4	15
Total	488	461	431	402	425	421	1,610	1,540	1,303	1,396	1,219	1,157	2,628	8,225

TABLE 1-15 TRESPASSER CASUALTIES BY RAILROAD, NOT AT HRC

Railroads	Fatalities						Nonfatal						6 Year Total	
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001	Kld	Nonf
Alaska RR Corp.	1	-	1	-	-	-	2	-	-	-	-	1	2	3
Amtrak	56	57	67	51	70	67	14	32	30	25	18	37	368	156
Bessemer & Lake Erie RR	-	-	-	-	-	-	-	-	-	-	2	-	-	2
Burlington Northern Santa Fe	60	85	104	63	77	62	77	68	70	53	57	47	451	372
Consolidated Rail Corp.	4	33	23	6	-	-	5	38	30	9	-	-	66	82
Conrail Shared Assets	-	-	-	1	-	5	-	-	-	1	3	4	6	8
CSX Transportation	51	47	64	64	61	78	54	47	55	47	58	84	365	345
Delaware & Hudson	1	2	-	2	3	3	1	2	2	2	2	2	11	11
Dakota,Minnesota & Eastern	-	1	-	-	-	-	1	2	-	1	-	-	1	4
Duluth,Winnipeg & Pacific	-	-	1	-	-	-	-	-	-	-	-	-	1	-
Elgin, Joliet & Eastern	-	-	-	-	-	-	-	-	-	-	-	2	-	2
Florida East Coast	17	14	9	10	15	10	9	13	16	7	13	7	75	65
Guilford Rail System	-	3	2	2	3	1	-	6	3	1	-	3	11	13
Grand Trunk Western RR	2	2	-	-	3	3	4	1	-	2	2	2	10	11
Gateway Western	-	1	1	1	2	1	1	1	-	-	1	-	6	3
Illinois Central	6	4	2	6	3	4	5	7	4	2	10	3	25	31
Indiana Harbor Belt	1	2	-	-	-	-	2	2	1	2	2	1	3	10
I & M Rail Link, LLC	-	-	-	2	1	1	-	-	2	2	1	-	4	5
Kansas City Southern	2	4	4	5	5	6	8	6	11	3	9	2	26	39
Long Island Rail Road	6	14	6	4	4	6	16	37	10	3	9	5	40	80
MD Assn. of Rail Comm	-	-	-	2	2	-	1	-	1	1	-	-	4	3
Mass Bay Transit Auth.	6	9	1	5	10	10	3	-	1	1	5	1	41	11
Metro North Commuter	2	6	4	5	4	2	4	3	2	3	1	2	23	15
Montana Rail Link	2	3	-	1	-	1	1	1	-	1	-	-	7	3
Northern IN Comm Trans	-	1	-	-	-	-	-	1	-	-	-	-	1	1
Northeast IL Reg Comm	5	5	4	5	2	8	4	2	9	10	6	7	29	38
New Jersey Transit Rail	14	15	18	13	17	25	3	5	2	3	4	5	102	22
Norfolk Southern Corp.	57	54	63	47	56	55	67	56	58	50	41	42	332	314
Paducah & Louisville	1	-	1	-	-	-	1	1	1	-	1	2	2	6
Port Auth Trans Hudson	-	-	-	-	-	1	-	1	2	-	-	1	1	4
Peninsula Comm San Mateo Cnty	3	6	3	2	12	8	-	1	6	1	-	1	34	9
Port Terminal RR Assn	-	-	-	-	-	-	-	1	-	1	1	-	-	3
Southern CA Reg Rail Auth.	2	6	2	-	-	-	-	1	1	-	-	1	10	3
Southeastern PA Trans.	5	4	3	6	3	1	2	6	12	7	2	2	22	31
Soo Line	4	3	1	3	1	3	6	1	6	1	1	2	15	17
Texas Mexican	-	-	-	-	-	-	1	1	1	1	1	-	-	5
Term RR Assn Of St. Louis	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Union Pacific	152	139	146	165	95	132	159	155	151	192	141	127	829	925
Wisconsin Central Ltd.	1	3	1	-	2	1	7	7	3	1	6	2	8	26
Wheeling & Lake Erie	-	-	-	1	-	-	2	-	-	-	-	-	1	2
Other Railroads	10	10	5	7	12	17	13	11	23	12	17	9	61	85
Total	471	533	536	479	463	511	474	516	513	445	414	404	2,993	2,766

TABLE 1-16 TRESPASSER CASUALTIES BY STATE, NOT AT HRC

States	Fatalities						Nonfatal						6 Year Total	
	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001	Kld	Nonf
Alabama	7	9	13	6	10	12	12	11	5	6	7	3	57	44
Alaska	1	-	1	-	-	-	2	-	1	-	-	1	2	4
Arizona	16	18	15	14	15	9	9	3	10	15	14	9	87	60
Arkansas	5	1	12	10	2	7	6	8	7	7	5	6	37	39
California	68	81	79	86	72	76	45	38	56	44	45	39	462	267
Colorado	5	7	8	6	4	6	4	11	10	8	4	4	36	41
Connecticut	3	7	3	10	4	3	4	2	1	2	-	2	30	11
Delaware	1	-	1	1	2	1	1	-	1	1	-	4	6	7
Dist Of Columbia	-	-	1	-	-	1	-	1	1	-	1	2	2	5
Florida	23	24	23	24	29	28	14	22	35	18	20	26	151	135
Georgia	8	11	16	11	11	8	18	9	17	12	5	9	65	70
Idaho	1	-	4	2	-	2	1	4	4	1	-	1	9	11
Illinois	32	44	34	32	31	39	30	28	24	29	26	27	212	164
Indiana	7	11	5	5	11	9	6	4	10	8	5	5	48	38
Iowa	4	2	3	6	2	1	6	7	6	4	8	5	18	36
Kansas	5	2	7	4	9	5	5	4	9	9	7	12	32	46
Kentucky	8	17	5	1	8	4	14	7	12	9	8	8	43	58
Louisiana	6	5	7	8	2	10	9	16	11	8	14	8	38	66
Maine	-	1	1	-	1	-	-	6	-	-	-	2	3	8
Maryland	7	4	4	10	7	6	2	2	7	6	5	2	38	24
Massachusetts	11	16	4	10	16	13	4	3	8	3	5	8	70	31
Michigan	10	7	5	5	9	8	7	14	7	5	11	4	44	48
Minnesota	4	6	8	10	5	5	5	3	10	9	5	6	38	38
Mississippi	2	3	3	8	2	11	3	1	6	4	-	5	29	19
Missouri	10	6	19	7	11	12	9	7	7	13	8	8	65	52
Montana	5	6	3	-	2	2	3	2	-	2	1	1	18	9
Nebraska	5	4	2	4	1	4	6	4	4	5	4	1	20	24
Nevada	2	2	5	4	1	3	1	4	4	3	4	2	17	18
New Hampshire	-	-	1	-	-	-	-	-	6	-	-	-	1	6
New Jersey	16	18	23	14	21	29	4	9	3	5	11	8	121	40
New Mexico	5	11	7	5	4	8	12	7	8	9	6	3	40	45
New York	16	32	25	18	24	18	20	54	23	16	26	25	133	164
North Carolina	16	19	24	21	10	19	19	22	14	12	11	13	109	91
North Dakota	1	1	1	2	2	2	3	-	2	1	1	3	9	10
Ohio	12	15	12	14	12	11	10	14	21	8	9	9	76	71
Oklahoma	6	6	7	7	10	5	13	11	5	9	7	9	41	54
Oregon	5	12	15	8	9	7	14	8	10	5	14	5	56	56
Pennsylvania	14	21	16	15	14	23	8	26	28	15	11	19	103	107
Rhode Island	1	4	2	1	1	1	-	-	1	-	-	1	10	2
South Carolina	12	5	17	8	9	8	6	9	6	6	7	4	59	38
South Dakota	-	1	-	-	2	-	1	2	-	1	6	-	3	10
Tennessee	11	8	10	12	6	13	9	11	5	4	1	8	60	38
Texas	60	38	50	42	34	47	89	78	78	90	56	60	271	451
Utah	3	3	1	2	3	2	5	5	1	1	3	1	14	16
Vermont	-	-	1	-	1	1	-	-	2	-	-	-	3	2
Virginia	14	9	10	8	8	4	8	8	3	10	4	14	53	47
Washington	13	17	13	13	14	18	10	16	7	10	15	4	88	62
West Virginia	3	7	5	1	8	4	9	5	6	8	10	4	28	42
Wisconsin	4	11	4	2	4	5	8	10	9	4	4	1	30	36
Wyoming	3	1	1	2	-	1	-	-	2	-	-	3	8	5
Total	471	533	536	479	463	511	474	516	513	445	414	404	2,993	2,766

CHAPTER 2

CURRENT YEAR SUMMARY OF ACCIDENTS/INCIDENTS AND RATES

The Federal Railroad Administration's (FRA) regulations on reporting railroad accidents/incidents are found primarily in Title 49 of the Code of Federal Regulations (CFR), Part 225 (49 CFR Part 225). The purpose of the regulations in Part 225 is to provide FRA with accurate information concerning the hazards and risks that exist on the Nation's railroads. FRA needs this information to effectively carry out its regulatory and enforcement responsibilities under the Federal railroad safety statutes. FRA also uses this information for determining comparative trends of railroad safety and to develop hazard elimination and risk reduction programs that focus on preventing railroad injuries and accidents. Issuance of these regulations preempts States from prescribing accident/incident reporting requirements. Any State may, however, require railroads to submit to it copies of reports filed with FRA under Part 225 for accidents/incidents that occur in that State.

These FRA accident/incident reporting requirements apply to all railroads except--

1. A railroad that operates freight trains only on track inside an installation which is not part of the general railroad system of transportation or that owns no track except for track that is inside an installation that is not part of the general railroad system of transportation and used for freight operations.
2. Rail mass transit operations in an urban area that are not connected with the general railroad system of transportation.
3. A railroad that exclusively hauls passengers inside an installation that is insular or that owns no track except for track used exclusively for the hauling of passengers inside an installation that is insular. An operation is not considered insular if one or more of the following exists on its line:
 - a. A public highway-rail grade crossing that is in use;
 - b. An at-grade rail crossing that is in use;
 - c. A bridge over a public road or waters used for commercial navigation; or
 - d. A common corridor with a railroad, i.e., its operations are within 30 feet of those of any railroad.

Part 225 covers any and all activities of a railroad related to the performance of its rail transportation business. "Railroad transportation" means any form of non-highway ground transportation that run on rails or electro-magnetic guideways, including (1) commuter or other short-haul railroad passenger service in a metropolitan or suburban area, as well as any commuter railroad service that was operated by the Consolidated Rail Corporation as of January

1, 1979, and (2) high speed ground transportation systems that connect metropolitan areas, without regard to whether they use new technologies not associated with traditional railroads. Such term does not include rapid transit operations within an urban area that are not connected to the general railroad system of transportation.

Approximately 700 railroads currently submit accident/incident reports. It is not possible to display the safety record of each railroad in this publication. Consequently, the listing of individual railroads has been limited to those defined by the Surface Transportation Board (STB) to be Class 1 railroads, and other railroads reporting annual employees worked in excess of 400,000.

Railroads have been assigned to 1 of 3 groups in this bulletin. Group 1 corresponds to the railroads that have defined as Class 1; Group 2 includes railroads that reported at least 400,000 hours worked; and, Group 3 contains all other railroads.

In order to conserve space, most tables display the reporting code assigned to a railroad. Please see Table 2-8 for a listing of the code and railroad name.

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TABLE 2-1 ACCIDENTS/INCIDENTS, BY MONTH, 2001

Months	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
January	1,475	71	1,024	271	-	10	297	40	102	907	31	912
February	1,344	77	926	257	1	50	273	36	75	814	40	801
March	1,424	73	997	272	1	56	295	39	108	857	33	833
April	1,249	73	839	240	-	17	244	28	95	765	45	727
May	1,378	90	943	251	-	19	266	38	105	861	52	819
June	1,389	83	948	252	-	30	272	34	82	865	49	836
July	1,434	91	990	282	-	23	249	38	85	903	53	882
August	1,523	97	1,027	289	1	11	290	32	110	944	64	906
September	1,263	77	894	238	-	68	267	25	96	758	52	730
October	1,348	74	924	227	-	4	273	35	102	848	39	818
November	1,132	74	769	212	2	12	237	26	106	683	46	651
December	1,128	91	704	232	1	10	274	50	91	622	40	603
Total	16,087	971	10,985	3,023	6	310	3,237	421	1,157	9,827	544	9,518

TABLE 2-2 ACCIDENT/INCIDENT RATES, BY MONTH, 2001

Months	Total Accident/ Incident	Train Accidents	Employee On Duty	Highway-rail Crossing	Other Events	Trespasser	Passenger On Trains	Passenger Train	Yard Track	Other Track
January	14.55	4.54	3.36	4.98	8.95	0.82	5.62	1.09	19.56	2.40
February	14.60	4.66	3.57	4.95	8.84	1.20	6.80	1.64	19.77	2.52
March	13.69	4.35	3.24	4.72	8.24	1.23	6.64	1.64	19.16	2.31
April	12.68	4.06	3.06	4.12	7.77	1.37	2.78	0.84	20.38	1.81
May	13.50	4.14	3.27	4.39	8.43	1.30	5.00	1.60	16.60	2.41
June	14.08	4.28	3.36	4.62	8.77	1.56	5.16	2.32	16.84	2.53
July	14.74	4.84	3.70	4.28	9.28	1.70	5.99	1.33	20.08	2.75
August	14.86	4.71	3.49	4.73	9.21	1.63	4.92	2.22	19.28	2.71
September	13.05	4.03	3.44	4.52	7.83	1.35	4.36	1.97	17.45	2.23
October	12.83	3.64	3.19	4.38	8.07	0.95	4.41	0.78	16.31	1.93
November	11.73	3.65	2.99	4.08	7.08	1.19	2.71	0.84	16.06	2.01
December	12.28	4.11	2.89	4.85	6.77	1.13	3.04	1.37	18.04	2.30
Total	13.56	4.25	3.30	4.55	8.28	1.29	4.78	1.47	18.30	2.32

1. Total accident/incident rate of all reported events * 1,000,000 / (train miles + hours)
2. Train accidents * 1,000,000 / total train miles
3. Employee deaths, injuries, illnesses * 200,000 / total hours worked
4. Highway rail incidents * 1,000,000 / total train miles
5. Other events (not train accidents or crossing incidents) * 1,000,000 / (train miles + hours)
6. Trespassing deaths and injuries * 1,000,000 / total train miles
7. Passenger on train deaths and injuries * 100,000,000 / total passenger miles
8. Passenger train accidents * 1,000,000 / passenger train miles
9. Accidents on yard track * 1,000,000 / yard switching train miles
10. Accidents on other than yard track * 1,000,000 / (total train miles - yard switching)

TABLE 2-3 ACCIDENTS/INCIDENTS BY RAILROAD GROUPS, 2001

Groups	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
I	11,155	805	7,232	2,322	6	238	2,559	365	960	6,274	434	6,034
II	3,336	137	2,741	389	-	68	333	46	114	2,614	91	2,559
III	1,596	29	1,012	312	-	4	345	10	83	939	19	925
All	16,087	971	10,985	3,023	6	310	3,237	421	1,157	9,827	544	9,518

TABLE 2-4 OPERATIONAL DATA BY RAILROAD GROUPS, 2001

Groups	Train Miles	Freight Train Miles	Passenger Train Miles	Yard Switching Train Miles	Other Train Miles	Employee Hours	Passengers Carried
I	604,662,947	501,820,665	36,679,452	66,146,579	16,251	370,517,390	23,525,230
II	83,438,388	22,743,550	47,734,369	12,875,923	84,546	80,912,314	472,175,591
III	23,448,571	13,237,439	3,341,415	6,724,715	145,002	23,689,988	21,547,841
All	711,549,906	537,801,654	87,755,236	85,747,217	245,799	475,119,692	517,248,662

TABLE 2-5 ACCIDENT/INCIDENT RATES BY RAILROAD GROUPS, 2001

Groups	Total Accident/ Incident	Train Accidents	Employee On Duty	Highway-rail Crossing	Other Events	Trespasser	Passenger On Trains	Passenger Train	Yard Track	Other Track
I	11.44	3.84	2.72	4.23	6.43	1.25	7.50	1.61	19.40	1.93
II	20.30	4.66	4.86	3.99	15.91	1.59	3.12	1.45	14.60	2.85
III	33.86	13.31	6.96	14.71	19.92	1.11	5.55	0.30	14.57	12.80
Tot	13.56	4.25	3.30	4.55	8.28	1.29	4.78	1.47	18.30	2.32

TABLE 2-6 ACCIDENTS/INCIDENTS BY RAILROAD, 2001

	Group - Railroads	Total			Train Accidents			HRC Incidents			Other Incidents		
		Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
1	Amtrak	1,629	139	1,527	150	1	151	162	69	84	1,317	69	1,292
	Burlington Northern Santa Fe	2,407	126	1,485	623	1	31	473	55	181	1,311	70	1,273
	CSX Transportation	1,863	143	1,119	389	1	14	521	63	206	953	79	899
	Grand Trunk Western RR	128	7	96	15	2	2	24	1	9	89	4	85
	Illinois Central	294	26	183	66	-	3	90	21	47	138	5	133
	Kansas City Southern	280	21	126	92	-	1	120	15	60	68	6	65
	Norfolk Southern Corp.	1,308	126	653	239	-	8	507	67	129	562	59	516
	Soo Line	215	6	166	31	-	-	33	2	17	151	4	149
	Union Pacific	3,210	211	1,877	896	1	28	629	72	227	1,685	138	1,622
2	Alton & Southern	18	-	8	11	-	1	-	-	-	7	-	7
	Alaska RR Corp.	59	-	57	1	-	-	4	-	1	54	-	56
	Bangor & Aroostook	18	-	15	2	-	-	2	-	1	14	-	14
	Bessemer & Lake Erie RR	10	-	8	2	-	-	-	-	-	8	-	8
	Belt Rwy Of Chicago	28	-	10	15	-	-	4	-	1	9	-	9
	Conrail Shared Assets	101	7	53	33	-	-	19	2	6	49	5	47
	Delaware & Hudson	64	5	52	8	-	1	4	2	1	52	3	50
	Dakota,Minnesota & Eastern	43	-	17	15	-	-	12	-	1	16	-	16
	Duluth,Missabe & Iron Range	35	-	32	4	-	2	1	-	-	30	-	30
	Duluth,Winnipeg & Pacific	4	-	1	2	-	-	1	-	-	1	-	1
	Elgin, Joliet & Eastern	53	-	39	11	-	-	5	-	2	37	-	37
	Florida East Coast	71	13	27	15	-	-	22	3	3	34	10	24
	Guilford Rail System	22	1	16	3	-	-	4	-	2	15	1	14
	Gateway Western	24	1	10	12	-	2	4	-	1	8	1	7
	Indiana Harbor Belt	74	-	42	24	-	-	10	-	2	40	-	40
	I & M Rail Link, LLC	98	5	43	36	-	-	36	4	18	26	1	25
	Long Island Rail Road	395	10	382	19	-	16	5	4	1	371	6	365
	MD Assn. of Rail Comm	7	-	7	-	-	-	-	-	-	7	-	7
	Mass Bay Transit Auth.	128	11	113	2	-	-	6	-	1	120	11	112
	Metro North Commuter	518	3	466	55	-	7	1	-	-	462	3	459
	Montana Rail Link	67	2	38	19	-	-	11	1	2	37	1	36
	Northern IN Comm Trans	19	-	16	1	-	-	4	-	2	14	-	14
	Northeast IL Reg Comm	405	17	388	7	-	-	31	9	15	367	8	373
	New Jersey Transit Rail	258	32	219	25	-	22	13	6	1	220	26	196
	Paducah & Louisville	19	1	9	5	-	-	8	-	4	6	1	5
	Port Auth Trans Hudson	137	2	158	3	-	16	-	-	-	134	2	142
	Peninsula Comm San Mateo Cnty	38	12	23	1	-	-	6	4	-	31	8	23
	Port Terminal RR Assn	34	-	11	18	-	-	8	-	3	8	-	8
	Southern CA Reg Rail Auth.	31	1	24	3	-	-	10	1	6	18	-	18
	Southeastern PA Trans.	275	3	262	10	-	-	-	-	-	265	3	262
	Texas Mexican	36	-	16	14	-	-	6	-	-	16	-	16
	Term RR Assn Of St. Louis	23	-	13	9	-	-	1	-	-	13	-	13
	Econo Rail Corporation	12	-	5	3	-	-	4	-	-	5	-	5
	Union RR (Pittsburgh)	27	-	25	2	-	-	-	-	-	25	-	25
	Wisconsin Central Ltd.	198	11	121	34	-	1	79	10	35	85	1	85
	Wheeling & Lake Erie	32	-	15	10	-	-	12	-	5	10	-	10
3	Other Railroads	1,630	29	1,012	346	-	4	345	10	83	939	19	925

Highway-Rail Counts Are Excluded From Other Categories

TABLE 2-7 ACCIDENT/INCIDENT RATES BY RAILROAD, 2001

Group - Railroads		Total Rate 1/	Train Acc Rate 2/	EOD Rate 3/	HRC Rate 4/	Other Events 5/	Tres Rate 6/	Psgr Rate 7/	Psgr Train Rate 8/	Yard Rate 9/	Other Track Rate 10/
1	Amtrak	19.98	3.89	4.10	4.20	16.15	2.70	7.50	1.56	34.87	2.14
	Burlington Northern Santa Fe	9.91	3.82	2.67	2.90	5.40	0.67	.	.	22.04	2.15
	CSX Transportation	10.66	3.58	2.44	4.80	5.45	1.49	.	.	14.74	1.58
	Grand Trunk Western RR	14.31	2.94	4.37	4.71	9.95	0.98	.	.	7.62	1.53
	Illinois Central	15.13	6.10	3.06	8.32	7.10	0.65	.	.	11.86	4.42
	Kansas City Southern	21.59	12.01	2.41	15.67	5.24	1.04	.	.	41.60	7.27
	Norfolk Southern Corp.	8.71	2.66	1.33	5.64	3.74	1.08	.	.	9.96	1.34
	Soo Line	14.84	3.74	4.84	3.98	10.42	0.60	.	.	8.66	2.21
	Union Pacific	11.89	5.19	3.01	3.64	6.24	1.50	.	.	37.11	2.48
2	Alton & Southern	12.13	13.82	2.33	.	4.72	.	.	.	11.31	.
	Alaska RR Corp.	20.70	0.70	7.01	2.81	18.95	0.70	.	.	.	1.02
	Bangor & Aroostook	13.63	2.44	5.97	2.44	10.60	.	.	.	.	2.62
	Bessemer & Lake Erie RR	12.50	8.95	2.43	.	10.00	.	.	.	102.64	.
	Belt Rwy Of Chicago	18.19	33.53	1.83	8.94	5.85	.	.	.	30.40	57.00
	Conrail Shared Assets	18.78	14.50	1.81	8.35	9.11	3.95	.	.	13.20	19.61
	Delaware & Hudson	19.08	3.95	7.37	1.98	15.50	2.47	.	.	15.53	1.76
	Dakota,Minnesota & Eastern	27.66	19.40	4.10	15.52	10.29	.	.	.	46.05	16.03
	Duluth,Missabe & Iron Range	19.16	5.57	5.77	1.39	16.42	.	.	.	28.27	3.09
	Duluth,Winnipeg & Pacific	3.30	2.62	0.45	1.31	0.83	.	.	.	.	2.68
	Elgin, Joliet & Eastern	25.43	17.23	4.98	7.83	17.75	3.13	.	.	20.20	15.35
	Florida East Coast	17.14	5.89	1.88	8.64	8.21	6.68	.	.	23.31	1.48
	Guilford Rail System	6.24	1.77	1.20	2.36	4.25	2.36	.	.	.	3.01
	Gateway Western	16.25	13.16	2.83	4.39	5.42	1.10	.	.	28.98	7.46
	Indiana Harbor Belt	25.86	18.15	5.07	7.56	13.98	0.76	.	.	.	3.78
	I & M Rail Link, LLC	28.28	18.54	3.54	18.54	7.50	0.52	.	.	54.91	11.64
	Long Island Rail Road	19.69	2.31	5.12	0.61	18.49	1.34	1.28	0.61	.	1.21
	MD Assn. of Rail Comm	4.32	.	1.10	.	4.32	.	1.69	.	.	.
	Mass Bay Transit Auth.	16.95	0.52	4.92	1.56	15.89	2.86	1.86	0.52	.	0.52
	Metro North Commuter	27.17	6.55	6.50	0.12	24.23	0.48	1.66	4.53	.	5.72
	Montana Rail Link	12.45	5.40	3.97	3.13	6.88	0.28	.	.	19.54	3.27
	Northern IN Comm Trans	11.18	1.14	3.17	4.56	8.24	.	0.86	1.31	.	.
	Northeast IL Reg Comm	23.60	0.80	4.27	3.55	21.38	1.72	6.91	0.15	2.37	0.54
	New Jersey Transit Rail	15.85	2.95	4.17	1.54	13.52	3.54	2.47	1.43	208.10	1.43
	Paducah & Louisville	16.65	8.78	1.40	14.05	5.26	3.51	.	.	.	11.53
	Port Auth Trans Hudson	34.70	1.48	11.22	.	33.95	0.99	2.76	.	7.58	0.57
	Peninsula Comm San Mateo Cnty	18.29	0.83	4.12	4.98	14.92	7.47	.	0.86	27.01	.
	Port Terminal RR Assn	17.75	14.40	2.70	6.40	4.18	.	.	.	12.00	.
	Southern CA Reg Rail Auth.	12.85	1.65	2.68	5.51	7.46	0.55	0.34	.	.	0.55
	Southeastern PA Trans.	30.86	1.87	10.01	.	29.74	0.56	14.37	1.68	.	1.68
	Texas Mexican	49.34	53.05	6.44	22.74	21.93	.	.	.	11.37	.
	Term RR Assn Of St. Louis	18.63	13.64	4.52	1.52	10.53	.	.	.	7.58	.
	Econo Rail Corporation	9.75	3.65	2.44	4.87	4.06	.	.	.	.	.
	Union RR (Pittsburgh)	27.89	17.71	5.85	.	25.83	.	.	.	8.86	.
	Wisconsin Central Ltd.	18.64	5.44	3.84	12.65	8.00	0.48	.	.	12.86	3.45
	Wheeling & Lake Erie	21.97	15.47	2.22	18.57	6.87	.	.	.	21.70	12.99
3	Other Railroads	34.58	14.76	6.96	14.71	19.92	1.11	5.55	0.30	16.21	14.17

1. Total ccident/incident rate of all reported events * 1,000,000 /(train miles + hours)

2. Train accidents * 1,000,000 / total train miles

3. Employee deaths, injuries, illnesses * 200,000 / total hours worked

4. Highway rail incidents * 1,000,000 / total train miles

5. Other events (not train accidents or crossing incidents) * 1,000,000 /(train miles + hours)

6. Trespassing deaths and injuries * 1,000,000 / total train miles

7 Passenger on train deaths and injuries * 100,000,000 / total passenger miles

8. Passenger train accidents * 1,000,000 / passenger train miles

9. Accidents on yard track * 1,000,000 / yard switching train miles

10. Accidents on other than yard track * 1,000,0000 / (total train miles - yard switching)

TABLE 2-8 RAILROAD RANKINGS, 2001

Railroads		Train Miles	Hours	Total Rate	Train Acc Rate	EOD Rate	HRC Rate	Other Events	Tres Rate
1	ATK - Amtrak	5	5	20	4	4	4	16	3
	BNSF - Burlington Northern Santa Fe	2	2	10	4	3	3	5	1
	CSX - CSX Transportation	3	3	11	4	2	5	5	1
	GTW - Grand Trunk Western RR	9	9	14	3	4	5	10	1
	IC - Illinois Central	6	6	15	6	3	8	7	1
	KCS - Kansas City Southern	8	8	22	12	2	16	5	1
	NS - Norfolk Southern Corp.	4	4	9	3	1	6	4	1
	SOO - Soo Line	7	7	15	4	5	4	10	1
	UP - Union Pacific	1	1	12	5	3	4	6	1
2	ALS - Alton & Southern	25	25	12	14	2	0	5	0
	ARR - Alaska RR Corp.	16	16	21	1	7	3	19	1
	BAR - Bangor & Aroostook	24	33	14	2	6	2	11	0
	BLE - Bessemer & Lake Erie RR	35	28	13	9	2	0	10	0
	BRC - Belt Rwy Of Chicago	33	19	18	34	2	9	6	0
	CRSH - Conrail Shared Assets	10	8	19	14	2	8	9	4
	DH - Delaware & Hudson	11	17	19	4	7	2	16	2
	DME - Dakota, Minnesota & Eastern	26	24	28	19	4	16	10	0
	DMIR - Duluth, Missabe & Iron Range	28	18	19	6	6	1	16	0
	DWP - Duluth, Winnipeg & Pacific	27	35	3	3	0	1	1	0
	EJE - Elgin, Joliet & Eastern	31	15	25	17	5	8	18	3
	FEC - Florida East Coast	9	12	17	6	2	9	8	7
	GRS - Guilford Rail System	15	11	6	2	1	2	4	2
	GWWR - Gateway Western	21	31	16	13	3	4	5	1
	IHB - Indiana Harbor Belt	17	13	26	18	5	8	14	1
	IMRL - I & M Rail Link, LLC	13	14	28	19	4	19	8	1
	LI - Long Island Rail Road	4	1	20	2	5	1	18	1
	MACZ - MD Assn. of Rail Comm	20	32	4	0	1	0	4	0
	MBTA - Mass Bay Transit Auth.	7	6	17	1	5	2	16	3
	MNCW - Metro North Commuter	3	2	27	7	7	0	24	0
	MRL - Montana Rail Link	8	10	12	5	4	3	7	0
	NICD - Northern IN Comm Trans	22	22	11	1	3	5	8	0
	NIRC - Northeast IL Reg Comm	1	3	24	1	4	4	21	2
	NJTR - New Jersey Transit Rail	2	4	16	3	4	2	14	4
	PAL - Paducah & Louisville	32	30	17	9	1	14	5	4
	PATH - Port Auth Trans Hudson	12	9	35	1	11	0	34	1
	PCMZ - Peninsula Comm San Mateo Cnty	19	20	18	1	4	5	15	7
	PTRA - Port Terminal RR Assn	18	26	18	14	3	6	4	0
	SCAX - Southern CA Reg Rail Auth.	14	27	13	2	3	6	7	1
	SEPA - Southeastern PA Trans.	6	7	31	2	10	0	30	1
	TM - Texas Mexican	34	34	49	53	6	23	22	0
	TRRA - Term RR Assn Of St. Louis	29	29	19	14	5	2	11	0
	TXTX - Econo Rail Corporation	23	36	10	4	2	5	4	0
	URR - Union RR (Pittsburgh)	36	21	28	18	6	0	26	0
	WC - Wisconsin Central Ltd.	5	5	19	5	4	13	8	0
	WE - Wheeling & Lake Erie	30	23	22	15	2	19	7	0

TABLE 2-9 OPERATIONAL DATA, BY RAILROAD, 2001

Railroads	Total Train Miles	%	Employee Hours Worked	%	Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgs Carried	Psgr Miles Millions
ALS	795,694	0.11	688,169	0.14	-	-	795,694	-	-	-
ARR	1,423,898	0.20	1,426,067	0.30	803,840	180,903	438,844	311	471,431	21
ATK	38,575,104	5.42	42,956,762	9.04	-	36,510,000	2,065,104	-	23,525,230	5,571
BAR	818,664	0.12	502,177	0.11	763,872	-	54,792	-	-	-
BLE	223,478	0.03	576,236	0.12	203,993	-	19,485	-	-	-
BNSF	162,943,990	22.90	79,952,918	16.83	149,244,443	-	13,699,547	-	-	-
BRC	447,397	0.06	1,092,060	0.23	52,631	-	394,766	-	-	-
CRSH	2,276,601	0.32	3,100,362	0.65	459,009	-	1,817,592	-	-	-
CSX	108,619,574	15.27	66,130,498	13.92	91,966,649	169,452	16,483,473	-	-	-
DH	2,023,667	0.28	1,330,536	0.28	1,701,808	-	321,859	-	-	-
DME	773,214	0.11	781,164	0.16	686,350	-	86,864	-	-	-
DMIR	717,749	0.10	1,108,873	0.23	647,003	-	70,746	-	-	-
DWP	764,209	0.11	447,139	0.09	747,003	-	17,206	-	-	-
EJE	638,313	0.09	1,445,633	0.30	390,815	-	247,498	-	-	-
FEC	2,544,846	0.36	1,597,977	0.34	2,030,093	-	514,753	-	-	-
GRS	1,694,494	0.24	1,833,670	0.39	995,734	-	698,760	-	-	-
GTW	5,097,500	0.72	3,845,154	0.81	3,909,123	-	1,180,848	7,529	-	-
GWWR	911,887	0.13	564,707	0.12	670,378	-	241,509	-	-	-
IC	10,811,462	1.52	8,614,523	1.81	8,356,621	-	2,446,119	8,722	-	-
IHB	1,322,436	0.19	1,539,547	0.32	1,322,436	-	-	-	-	-
IMRL	1,941,530	0.27	1,524,206	0.32	1,631,930	-	309,600	-	-	-
KCS	7,659,908	1.08	5,309,707	1.12	6,602,246	-	1,057,662	-	-	-
LI	8,238,600	1.16	11,827,343	2.49	-	8,238,600	-	-	85,602,984	2,345
MACZ	1,073,821	0.15	546,258	0.11	-	993,771	5,159	74,891	5,893,932	177
MBTA	3,850,775	0.54	3,701,620	0.78	-	3,850,775	-	-	37,409,702	484
MNCW	8,397,319	1.18	10,669,280	2.25	-	8,397,319	-	-	71,427,968	2,048
MRL	3,517,235	0.49	1,864,267	0.39	3,048,963	7,676	460,596	-	3,071	1
NICD	877,753	0.12	821,049	0.17	115,138	762,615	-	-	3,967,777	117
NIRC	8,735,525	1.23	8,427,287	1.77	668,114	6,799,803	1,267,608	-	78,575,162	1,707
NJTR	8,465,459	1.19	7,811,746	1.64	-	8,402,988	62,471	-	63,963,310	1,294
NS	89,950,834	12.64	60,195,279	12.67	76,201,648	-	13,749,186	-	-	-
PAL	569,362	0.08	572,003	0.12	433,780	-	135,582	-	-	-
PATH	2,023,247	0.28	1,924,314	0.41	-	1,759,344	263,903	-	76,941,200	326
PCMZ	1,204,842	0.17	873,329	0.18	-	1,167,818	37,024	-	10,257,871	206
PTRA	1,249,909	0.18	665,484	0.14	-	-	1,249,909	-	-	-
SCAX	1,813,767	0.25	597,907	0.13	-	1,813,767	-	-	8,492,551	297
SEPA	5,353,919	0.75	3,556,807	0.75	-	5,353,919	-	-	29,167,566	397
SOO	8,292,477	1.17	6,196,846	1.30	6,328,629	-	1,963,848	-	-	-
TM	263,910	0.04	465,794	0.10	-	-	263,910	-	-	-
TRRA	659,669	0.09	574,901	0.12	-	-	659,669	-	-	-
TXTX	821,309	0.12	409,750	0.09	-	-	821,309	-	-	-
UP	172,712,098	24.27	97,315,703	20.48	159,211,306	-	13,500,792	-	-	-
URR	112,921	0.02	855,101	0.18	-	-	112,921	-	-	-
WC	6,244,681	0.88	4,379,218	0.92	4,908,700	5,071	1,321,566	9,344	1,066	0
WE	646,288	0.09	810,333	0.17	461,960	-	184,328	-	-	-
XXXX	23,448,571	3.30	23,689,988	4.99	13,237,439	3,341,415	6,724,715	145,002	21,547,841	667
Total	711,549,906	100.0	475,119,692	100.0	537,801,654	87,755,236	85,747,217	245,799	517,248,662	15,657

XXXX = all other railroads

TABLE 2-10 OPERATIONAL DATA, BY MONTH, 2001

Months	Total Train Miles	%	Employee Hours Worked	%	Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgs Carried	Psgr Miles Millions
January	59,646,136	8.38	41,694,456	8.78	44,849,434	7,312,532	7,465,938	18,232	42,262,493	1,191
February	55,200,153	7.76	36,873,928	7.76	41,664,002	6,688,418	6,830,213	17,520	38,944,645	1,103
March	62,482,254	8.78	41,501,612	8.73	47,558,347	7,335,350	7,567,009	21,548	44,179,981	1,279
April	59,182,985	8.32	39,295,635	8.27	44,857,881	7,137,371	7,164,556	23,177	42,929,827	1,261
May	60,577,545	8.51	41,525,020	8.74	45,617,176	7,523,460	7,411,792	25,117	45,124,983	1,321
June	58,927,213	8.28	39,746,988	8.37	44,376,335	7,331,621	7,184,879	34,378	44,584,739	1,396
July	58,213,331	8.18	39,056,126	8.22	43,654,818	7,512,075	7,022,081	24,357	44,890,302	1,487
August	61,358,431	8.62	41,164,726	8.66	46,251,309	7,664,616	7,417,594	24,912	46,739,161	1,504
September	59,108,348	8.31	37,688,782	7.93	44,974,576	7,123,697	6,993,354	16,721	40,360,697	1,240
October	62,383,120	8.77	42,663,919	8.98	47,297,467	7,652,835	7,416,935	15,883	45,196,412	1,339
November	58,025,106	8.15	38,464,227	8.10	44,039,749	7,185,119	6,786,704	13,534	41,476,490	1,254
December	56,445,284	7.93	35,444,273	7.46	42,660,560	7,288,142	6,486,162	10,420	40,558,932	1,282
Total	711,549,906	100.0	475,119,692	100.0	537,801,654	87,755,236	85,747,217	245,799	517,248,662	15,657

TABLE 2-11 SUMMARY OF ACCIDENTS/INCIDENTS BY STATE, 2001

States	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
Alabama	303	22	142	76	-	-	103	9	28	124	13	114
Alaska	104	-	102	1	-	-	4	-	1	99	0	101
Arizona	214	15	173	43	-	1	29	6	10	142	9	162
Arkansas	336	16	231	62	-	1	87	9	39	187	7	191
California	1,078	132	718	182	-	11	180	54	49	716	78	658
Colorado	255	9	167	59	-	-	34	3	10	162	6	157
Connecticut	201	3	169	36	-	7	3	-	2	162	3	160
Delaware	68	3	48	12	-	1	7	1	-	49	2	47
Dist Of Columbia	108	1	87	21	-	1	-	-	-	87	1	86
Florida	439	43	299	43	-	-	114	15	36	282	28	263
Georgia	358	27	231	58	-	7	122	19	50	178	8	174
Hawaii	2	-	1	0	-	-	1	-	-	1	0	1
Idaho	90	3	60	18	-	2	20	1	7	52	2	51
Illinois	1,455	73	1,103	229	-	8	212	31	89	1,014	42	1,006
Indiana	439	28	240	90	-	2	165	19	62	184	9	176
Iowa	336	20	220	91	1	52	110	16	35	135	3	133
Kansas	338	11	198	100	-	-	63	5	20	175	6	178
Kentucky	220	15	136	32	-	1	79	10	31	109	5	104
Louisiana	435	35	252	113	-	4	161	22	93	161	13	155
Maine	45	-	33	7	-	-	9	-	4	29	0	29
Maryland	153	7	113	29	-	1	17	1	9	107	6	103
Massachusetts	249	14	205	24	-	1	17	-	4	208	14	200
Michigan	348	22	246	35	2	2	96	11	36	217	9	208
Minnesota	390	15	261	70	-	2	82	9	25	238	6	234
Mississippi	226	33	115	49	-	4	102	22	47	75	11	64
Missouri	351	16	233	90	-	21	64	4	22	197	12	190
Montana	152	3	109	29	-	-	16	1	4	107	2	105
Nebraska	375	7	241	99	-	1	50	3	17	226	4	223
Nevada	50	3	32	14	-	1	2	-	-	34	3	31
New Hampshire	9	-	6	1	-	-	2	-	-	6	0	6
New Jersey	517	38	438	52	-	20	36	8	11	429	30	407
New Mexico	121	17	76	32	-	1	24	8	8	65	9	67
New York	1,220	28	1,132	132	-	80	32	8	5	1,056	20	1,047
North Carolina	219	26	113	29	-	-	79	6	21	111	20	92
North Dakota	113	4	76	26	-	-	17	2	8	70	2	68
Ohio	449	34	247	97	1	4	140	22	40	212	11	203
Oklahoma	231	17	109	68	-	3	69	9	19	94	8	87
Oregon	231	14	140	53	-	-	43	6	13	135	8	127
Pennsylvania	698	35	540	92	-	-	68	8	15	538	27	525
Rhode Island	23	1	20	2	-	-	-	-	-	21	1	20
South Carolina	153	12	83	24	-	2	65	4	23	64	8	58
South Dakota	61	1	31	14	-	-	20	1	4	27	0	27
Tennessee	306	24	173	64	-	2	97	10	39	145	14	132
Texas	1,336	88	750	363	1	35	362	39	132	611	48	583
Utah	126	4	102	36	-	25	20	2	8	70	2	69
Vermont	27	1	19	7	-	-	-	-	-	20	1	19
Virginia	215	6	154	35	-	-	44	1	18	136	5	136
Washington	321	23	229	53	-	5	38	5	7	230	18	217
West Virginia	125	5	88	23	-	-	20	1	9	82	4	79
Wisconsin	321	15	202	56	-	1	104	10	43	161	5	158
Wyoming	147	2	92	52	1	1	8	-	4	87	1	87
Total	16,087	971	10,985	3,023	6	310	3,237	421	1,157	9,827	544	9,518

CHAPTER 3

CASUALTY REPORTING

Any event connected with the operation of a railroad that results in one or more of the following consequences must be reported on Form FRA F 6180.55a:

1. Death of a person within 365 calendar days of the accident/incident;
2. Injury to a person, other than a railroad employee, that requires medical treatment;
3. Injury to a railroad employee that requires medical treatment or results in restriction of work for one or more work days, the loss of one or more work days, termination of employment, transfer to another job, or loss of consciousness; or
4. Any occupational illness of a railroad employee.

A railroad need not report the following:

1. Casualties at highway-rail crossing sites that do not involve the presence or operation of on-track rail equipment, or the presence of railroad employees engaged in the operation of a railroad;
2. Casualties in or about living quarters that are not on the railroad premises and that do not arise from the operation of a railroad;
3. Suicides, as determined by a coroner or other public authority;
4. Attempted suicides.

The distinction between medical treatment and first aid depends not only on the treatment provided, but also on the severity of the injury being treated. First aid is:

1. Limited to one-time treatment and subsequent observation; and
2. Involves treatment of only minor injuries, not emergency treatment of serious injuries. An injury is not minor if:
 - a. It must be treated only by a physician or licensed medical personnel;
 - b. It impairs bodily function (i.e., normal use of senses, limbs, etc.);
 - c. It results in damage to the physical structure of a non-superficial nature (e.g. fractures); or

- d. It involves complications requiring follow-up medical treatment.

One-time treatment of an injury should not be used as the sole basis for classifying a treatment or procedure as first aid. Medical treatment can, and often is, given on a one-time basis, e.g., the suturing of a wound. The procedures used and the skills required to treat an injury, as well as the seriousness of the injury, are all factors that must be considered when determining the type of treatment rendered.

Likewise, medical treatment cannot be determined solely on the basis of who treats a case. First aid treatment can be given by a physician, and medical treatment, by someone other than a physician.

The following are examples of typical medical treatment that are reportable:

Closure of a wound with suture (stitch), staple, Steri-strip, butterfly, or the like.

The application of a cast or other professional means of immobilizing an injured part of the body, regardless of how long the cast, sling, splint, or the like, is actually worn.

Injection. Any application of medication through the use of a syringe, except a tetanus shot.

Bruise. The treatment of a bruise by drainage of blood.

Debridement. Surgical debridement, that is, the removal of dead or damaged skin.

Treatment of a burn. The treatment of a second- or third-degree burn is almost always medical treatment if the size of the affected area cannot be covered with a quarter.

Prescription medication. Any prescription medication prescribed or provided for a condition that is intended for subsequent use. A single dose taken orally or applied externally on the initial visit is considered to be first aid and is not reportable. (See definition of prescription medication.)

Eye injury. Removal of any object embedded in the eye, or the application of a patch or a bandage.

X-Ray. An X-Ray that is positive.

Whirlpool treatment. Any injury that requires more than one whirlpool treatment.

Multiple treatments. Any injury that results in additional treatment by a physician or other medical professional on a second or subsequent visit. This does not include a routine examination of the progress of an injury or instances where bandages or other dressings are replaced.

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CHAPTER 3

CASUALTY REPORTING

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TABLE 3-1 CASUALTIES BY TYPE PERSON AND PRIMARY EVENT, 2001

Type Person	Total Incidents 1/		Total Casualties		Train Accs w/o HRC		HRC Incs		Other Events	
	Fatal	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
A - Worker on duty(rr employee)	20	7,561	22	7,815	4	156	1	97	17	7,562
B - Employee not on duty	.	175	.	209	.	21	.	1	.	187
C - Passenger on train	3	589	3	746	1	129	.	20	2	597
D - Nontrespasser	214	919	269	1,152	.	1	258	803	11	348
E - Trespasser	652	540	673	627	1	.	162	223	510	404
F - Worker on duty(contractor)	2	164	2	168	.	.	.	1	2	167
G - Contractor(other)	2	206	2	215	.	1	.	2	2	212
H - Worker on duty(volunteer)	.	4	.	4	.	.	.	.	.	4
J - Nontrespasser, off rr property	.	20	.	49	.	2	.	10	.	37
Total..	893	10,178	971	10,985	6	310	421	1,157	544	9,518

1/ The count of incidents that resulted in a death or nonfatal condition
W/O = without, HRC = highway-rail crossing, Incs = incidents

TABLE 3-2 FATALITIES BY TYPE PERSON AND RAILROAD, 2001

			Type Person Codes					
	Total	%	A	C	D	E	F	G
Amtrak	139	14.3	1	2	24	112	-	-
Burlington Northern Santa Fe	126	13.0	5	-	45	75	-	1
Conrail Shared Assets	7	0.7	-	-	1	6	-	-
CSX Transportation	143	14.7	2	-	47	94	-	-
Delaware & Hudson	5	0.5	-	-	2	3	-	-
Florida East Coast	13	1.3	-	-	-	13	-	-
Guilford Rail System	1	0.1	-	-	-	1	-	-
Grand Trunk Western RR	7	0.7	2	-	2	3	-	-
Gateway Western	1	0.1	-	-	-	1	-	-
Illinois Central	26	2.7	1	-	20	5	-	-
I & M Rail Link, LLC	5	0.5	-	-	4	1	-	-
Kansas City Southern	21	2.2	-	-	15	6	-	-
Long Island Rail Road	10	1.0	-	-	-	10	-	-
Mass Bay Transit Auth.	11	1.1	-	1	-	10	-	-
Metro North Commuter	3	0.3	-	-	1	2	-	-
Montana Rail Link	2	0.2	-	-	1	1	-	-
Northeast IL Reg Comm	17	1.8	-	-	1	16	-	-
New Jersey Transit Rail	32	3.3	1	-	-	31	-	-
Norfolk Southern Corp.	126	13.0	4	-	39	82	1	-
Paducah & Louisville	1	0.1	1	-	-	-	-	-
Port Auth Trans Hudson	2	0.2	-	-	1	1	-	-
Peninsula Comm San Mateo Cnty	12	1.2	-	-	-	12	-	-
Southern CA Reg Rail Auth.	1	0.1	-	-	-	1	-	-
Southeastern PA Trans.	3	0.3	1	-	1	1	-	-
Soo Line	6	0.6	1	-	1	4	-	-
Union Pacific	211	21.7	2	-	47	160	1	1
Wisconsin Central Ltd.	11	1.1	-	-	10	1	-	-
Other Railroads	29	3.0	1	-	7	21	-	-
Total	971	100	22	3	269	673	2	2

A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
J - Nontrespasser, off rr property

TABLE 3-3 FATALITIES BY TYPE PERSON KILLED AND STATE, 2001

States	Total	%	Type Person Codes					
			A	C	D	E	F	G
Alabama	22	2.3	1	-	7	14	-	-
Arizona	15	1.5	-	-	4	11	-	-
Arkansas	16	1.6	-	-	7	9	-	-
California	132	13.6	-	-	20	111	-	1
Colorado	9	0.9	-	-	2	7	-	-
Connecticut	3	0.3	-	-	-	3	-	-
Delaware	3	0.3	1	-	1	1	-	-
Dist Of Columbia	1	0.1	-	-	-	1	-	-
Florida	43	4.4	-	-	4	39	-	-
Georgia	27	2.8	-	-	12	15	-	-
Idaho	3	0.3	-	-	1	2	-	-
Illinois	73	7.5	3	-	15	55	-	-
Indiana	28	2.9	-	-	8	20	-	-
Iowa	20	2.1	-	1	15	4	-	-
Kansas	11	1.1	1	-	4	6	-	-
Kentucky	15	1.5	1	-	7	7	-	-
Louisiana	35	3.6	2	-	21	11	-	1
Maryland	7	0.7	-	-	-	7	-	-
Massachusetts	14	1.4	-	1	-	13	-	-
Michigan	22	2.3	2	-	5	15	-	-
Minnesota	15	1.5	1	-	4	10	-	-
Mississippi	33	3.4	-	-	22	11	-	-
Missouri	16	1.6	-	-	4	12	-	-
Montana	3	0.3	-	-	1	2	-	-
Nebraska	7	0.7	-	-	2	5	-	-
Nevada	3	0.3	-	-	-	3	-	-
New Jersey	38	3.9	1	-	1	36	-	-
New Mexico	17	1.8	1	-	4	12	-	-
New York	28	2.9	-	-	3	25	-	-
North Carolina	26	2.7	1	-	2	23	-	-
North Dakota	4	0.4	-	-	1	3	-	-
Ohio	34	3.5	1	-	17	16	-	-
Oklahoma	17	1.8	1	-	10	6	-	-
Oregon	14	1.4	1	-	5	8	-	-
Pennsylvania	35	3.6	2	1	7	25	-	-
Rhode Island	1	0.1	-	-	-	1	-	-
South Carolina	12	1.2	-	-	3	9	-	-
South Dakota	1	0.1	-	-	1	-	-	-
Tennessee	24	2.5	-	-	6	17	1	-
Texas	88	9.1	-	-	30	57	1	-
Utah	4	0.4	-	-	2	2	-	-
Vermont	1	0.1	-	-	-	1	-	-
Virginia	6	0.6	1	-	1	4	-	-
Washington	23	2.4	-	-	-	23	-	-
West Virginia	5	0.5	-	-	1	4	-	-
Wisconsin	15	1.5	-	-	9	6	-	-
Wyoming	2	0.2	1	-	-	1	-	-
Total	971	100.0	22	3	269	673	2	2

A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
J - Nontrespasser, off rr property

TABLE 3-4 NONFATAL CONDITIONS BY TYPE PERSON AND RAILROAD, 2001

			Type Person Codes									
	Total	%	A	B	C	D	E	F	G	H	I	J
Alton & Southern	8	0.1	8	-	-	-	-	-	-	-	-	-
Alaska RR Corp.	57	0.5	50	2	-	-	2	2	1	-	-	-
Amtrak	1,527	13.9	880	61	416	85	66	4	14	-	-	1
Bangor & Aroostook	15	0.1	15	-	-	-	-	-	-	-	-	-
Bessemer & Lake Erie RR	8	0.1	7	-	-	-	-	1	-	-	-	-
Burlington Northern Santa Fe	1,485	13.5	1,062	56	-	155	69	23	120	-	-	-
Belt Rwy Of Chicago	10	0.1	10	-	-	-	-	-	-	-	-	-
Conrail Shared Assets	53	0.5	28	1	-	7	5	10	2	-	-	-
CSX Transportation	1,119	10.2	804	26	-	142	139	1	7	-	-	-
Delaware & Hudson	52	0.5	49	-	-	1	2	-	-	-	-	-
Dakota, Minnesota & Eastern	17	0.2	16	-	-	1	-	-	-	-	-	-
Duluth, Missabe & Iron Range	32	0.3	32	-	-	-	-	-	-	-	-	-
Duluth, Winnipeg & Pacific	1	0.0	1	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	39	0.4	36	-	-	-	3	-	-	-	-	-
Florida East Coast	27	0.2	15	-	-	1	10	-	1	-	-	-
Guilford Rail System	16	0.1	11	-	-	-	5	-	-	-	-	-
Grand Trunk Western RR	96	0.9	82	2	-	4	5	-	3	-	-	-
Gateway Western	10	0.1	8	-	-	1	-	1	-	-	-	-
Illinois Central	183	1.7	131	3	-	45	3	-	1	-	-	-
Indiana Harbor Belt	42	0.4	39	-	-	-	3	-	-	-	-	-
I & M Rail Link, LLC	43	0.4	27	-	-	16	-	-	-	-	-	-
Kansas City Southern	126	1.1	64	-	-	54	5	2	1	-	-	-
Long Island Rail Road	382	3.5	303	5	30	35	6	3	-	-	-	-
MD Assn. of Rail Comm	7	0.1	3	-	3	1	-	-	-	-	-	-
Mass Bay Transit Auth.	113	1.0	91	6	8	7	1	-	-	-	-	-
Metro North Commuter	466	4.2	347	3	34	69	2	-	9	-	-	2
Montana Rail Link	38	0.3	37	-	-	1	-	-	-	-	-	-
Northern IN Comm Trans	16	0.1	13	-	1	-	-	-	-	-	-	2
Northeast IL Reg Comm	388	3.5	180	6	118	61	17	1	-	-	-	5
New Jersey Transit Rail	219	2.0	162	3	32	16	5	1	-	-	-	-
Norfolk Southern Corp.	653	5.9	395	19	-	88	83	51	16	-	-	1
Paducah & Louisville	9	0.1	3	-	-	-	6	-	-	-	-	-
Port Auth Trans Hudson	158	1.4	108	-	9	27	1	3	10	-	-	-
Peninsula Comm San Mateo Cnty	23	0.2	18	-	-	4	1	-	-	-	-	-
Port Terminal RR Assn	11	0.1	9	-	-	2	-	-	-	-	-	-
Southern CA Reg Rail Auth.	24	0.2	8	-	1	-	5	10	-	-	-	-
Southeastern PA Trans.	262	2.4	177	1	57	23	2	-	-	-	-	2
Soo Line	166	1.5	149	2	-	10	5	-	-	-	-	-
Texas Mexican	16	0.1	15	-	-	-	-	1	-	-	-	-
Term RR Assn Of St. Louis	13	0.1	13	-	-	-	-	-	-	-	-	-
Econo Rail Corporation	5	0.0	5	-	-	-	-	-	-	-	-	-
Union Pacific	1,877	17.1	1,462	9	-	196	151	14	16	-	-	29
Union RR (Pittsburgh)	25	0.2	25	-	-	-	-	-	-	-	-	-
Wisconsin Central Ltd.	121	1.1	84	-	-	34	2	-	1	-	-	-
Wheeling & Lake Erie	15	0.1	9	-	-	-	5	1	-	-	-	-
Other Railroads	1,012	9.2	824	4	37	66	18	39	13	4	-	7
Total	10,985	100	7,815	209	746	1,152	627	168	215	4	49	

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
 E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
 J - Nontrespasser, off rr property*

TABLE 3-5 NONFATAL CONDITIONS BY TYPE PERSON AND STATE, 2001

			Type Person codes									
	Total	%	A	B	C	D	E	F	G	H	J	
Alabama	142	1.3	107	2	-	22	7	-	3	-	1	
Alaska	102	0.9	85	2	10	-	2	2	1	-	-	
Arizona	173	1.6	111	2	5	15	10	1	3	-	26	
Arkansas	231	2.1	183	-	-	35	7	5	1	-	-	
California	718	6.5	494	17	63	26	61	18	38	-	1	
Colorado	167	1.5	135	2	16	7	4	2	1	-	-	
Connecticut	169	1.5	141	2	9	10	4	2	1	-	-	
Delaware	48	0.4	38	2	2	2	4	-	-	-	-	
Dist Of Columbia	87	0.8	67	4	8	3	2	-	3	-	-	
Florida	299	2.7	182	7	44	14	45	3	4	-	-	
Georgia	231	2.1	148	6	5	25	29	11	6	1	-	
Hawaii	1	0.0	1	-	-	-	-	-	-	-	-	
Idaho	60	0.5	50	-	1	6	2	-	1	-	-	
Illinois	1,103	10.0	669	25	149	135	49	19	52	-	5	
Indiana	240	2.2	172	3	5	32	26	-	-	-	2	
Iowa	220	2.0	133	12	37	33	5	-	-	-	-	
Kansas	198	1.8	145	5	3	17	15	7	5	1	-	
Kentucky	136	1.2	94	-	-	26	12	3	-	1	-	
Louisiana	252	2.3	151	-	2	84	9	2	3	-	1	
Maine	33	0.3	27	-	-	2	3	1	-	-	-	
Maryland	113	1.0	97	-	4	8	3	-	1	-	-	
Massachusetts	205	1.9	166	9	8	10	11	1	-	-	-	
Michigan	246	2.2	185	7	3	28	9	11	3	-	-	
Minnesota	261	2.4	221	6	3	24	7	-	-	-	-	
Mississippi	115	1.0	56	-	4	43	10	2	-	-	-	
Missouri	233	2.1	180	5	12	22	9	2	2	-	1	
Montana	109	1.0	100	2	2	2	2	-	1	-	-	
Nebraska	241	2.2	211	9	2	14	3	1	1	-	-	
Nevada	32	0.3	26	-	3	-	2	1	-	-	-	
New Hampshire	6	0.1	6	-	-	-	-	-	-	-	-	
New Jersey	438	4.0	305	5	41	37	12	23	15	-	-	
New Mexico	76	0.7	48	-	12	6	4	2	4	-	-	
New York	1,132	10.3	831	17	117	116	27	5	17	-	2	
North Carolina	113	1.0	63	1	13	16	17	1	2	-	-	
North Dakota	76	0.7	65	-	3	4	4	-	-	-	-	
Ohio	247	2.2	185	6	2	21	28	1	4	-	-	
Oklahoma	109	1.0	77	1	-	20	9	1	1	-	-	
Oregon	140	1.3	100	2	10	15	6	2	5	-	-	
Pennsylvania	540	4.9	395	4	65	35	25	10	4	-	2	
Rhode Island	20	0.2	18	1	-	-	1	-	-	-	-	
South Carolina	83	0.8	49	-	5	15	13	1	-	-	-	
South Dakota	31	0.3	23	3	-	4	-	-	1	-	-	
Tennessee	173	1.6	114	1	1	27	19	7	4	-	-	
Texas	750	6.8	505	10	27	99	80	8	17	1	3	
Utah	102	0.9	70	8	15	7	2	-	-	-	-	
Vermont	19	0.2	18	-	1	-	-	-	-	-	-	
Virginia	154	1.4	84	8	19	19	15	7	1	-	1	
Washington	229	2.1	183	9	11	13	4	-	9	-	-	
West Virginia	88	0.8	69	1	-	10	5	3	-	-	-	
Wisconsin	202	1.8	151	2	4	39	1	-	1	-	4	
Wyoming	92	0.8	81	1	-	4	3	3	-	-	-	
Total	10,985	100.0	7,815	209	746	1,152	627	168	215	4	49	

A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
J - Nontrespasser, off rr property

TABLE 3-6 REPORTABLE CONDITIONS, ALL TYPE PERSONS, 2001

Condition	Cnt	%	Type of Person *									
			A	B	C	D	E	F	G	H	I	J
Bruise/contusion	1,924	16.1	1,145	44	233	292	131	30	42	-	-	7
Occ. Illness	176	1.5	167	5	-	-	-	3	-	1	-	-
Sprain/Str.,arm/hand	450	3.8	404	10	16	6	2	4	8	-	-	-
Sprain/Str.,leg/foot	1,309	10.9	1,145	35	61	39	-	13	16	-	-	-
Sprain/Str.,head/face	374	3.1	279	15	41	26	5	1	6	-	-	1
Sprain/Str.,torso	2,383	19.9	2,154	35	84	52	6	22	29	-	-	1
Sprain/Str., other	76	0.6	43	5	3	17	3	2	2	-	-	1
Cut/abrasion	1,348	11.3	846	17	117	179	92	49	43	1	-	4
Puncture wound	170	1.4	146	5	3	7	5	4	-	-	-	-
Electric shock/burn	50	0.4	40	-	-	1	6	3	-	-	-	-
Other burn	93	0.8	81	-	3	1	2	3	3	-	-	-
Dislocation	95	0.8	71	3	3	7	6	1	4	-	-	-
Fracture,arm/hand	403	3.4	286	6	33	27	27	10	14	-	-	-
Fracture,leg/foot	390	3.3	194	13	35	68	49	12	18	1	-	-
Fracture,head/face	63	0.5	23	-	5	22	11	1	-	-	-	1
Fracture,torso	199	1.7	97	6	19	47	25	-	5	-	-	-
Fracture,multiple	39	0.3	4	-	-	27	8	-	-	-	-	-
Fracture,other	6	0.1	1	-	3	1	1	-	-	-	-	-
Dental related	44	0.4	32	1	7	4	-	-	-	-	-	-
Amputation,arm/hand	56	0.5	35	-	-	-	18	1	2	-	-	-
Amputation,leg/foot	66	0.6	8	-	2	1	55	-	-	-	-	-
Amputation,head/face	1	0.0	-	-	-	1	-	-	-	-	-	-
Amputation,other	2	0.0	-	-	-	-	2	-	-	-	-	-
Fatality	971	8.1	22	-	3	269	673	2	2	-	-	-
Object in eye	176	1.5	165	3	4	-	-	-	4	-	-	-
Hernia	67	0.6	66	-	-	-	-	-	1	-	-	-
Concussion	72	0.6	35	4	1	18	9	1	4	-	-	-
Nervous shock	1	0.0	-	-	1	-	-	-	-	-	-	-
Internal injury	60	0.5	14	-	2	30	12	-	2	-	-	-
Loss of eye	1	0.0	-	-	1	-	-	-	-	-	-	-
Skin reaction	71	0.6	43	1	1	-	-	-	-	-	-	26
One-time exp. to noise	13	0.1	12	-	-	-	-	1	-	-	-	-
Unspecified injury	696	5.8	173	1	68	277	152	4	12	1	-	8
One-time exp.-fumes	111	0.9	106	-	-	2	-	3	-	-	-	-
Total	11,956	100.0	7,837	209	749	1,421	1,300	170	217	4	49	

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
J - Nontrespasser, off rr property*

**TABLE 3-7 TOTAL CASUALTIES BY AGE OF INDIVIDUAL, 2001
AND TYPE OF PERSON**

Age		Total		Type of Person *									
		Cnt	%	A	B	C	D	E	F	G	H	I	J
Kld	Unk	102	0.9	-	-	1	12	89	-	-	-	-	-
	> 60	113	0.9	1	-	1	50	61	-	-	-	-	-
	1-5	9	0.1	-	-	-	6	3	-	-	-	-	-
	6-10	9	0.1	-	-	-	9	-	-	-	-	-	-
	11-15	35	0.3	-	-	-	10	25	-	-	-	-	-
	16-20	74	0.6	-	-	-	23	51	-	-	-	-	-
	21-25	122	1.0	-	-	-	30	90	-	2	-	-	-
	26-30	86	0.7	1	-	1	23	61	-	-	-	-	-
	31-35	78	0.7	2	-	-	19	56	1	-	-	-	-
	36-40	93	0.8	2	-	-	20	71	-	-	-	-	-
	41-45	92	0.8	2	-	-	24	65	1	-	-	-	-
	46-50	75	0.6	6	-	-	17	52	-	-	-	-	-
	51-55	55	0.5	6	-	-	16	33	-	-	-	-	-
	56-60	28	0.2	2	-	-	10	16	-	-	-	-	-
	Total	971	8.1	22	-	3	269	673	2	2	-	-	-
Nonfatal	Unk	392	3.3	3	-	157	146	59	2	23	-	-	2
	> 60	586	4.9	215	4	181	138	32	5	6	1	4	4
	1-5	48	0.4	-	-	10	25	10	-	-	-	3	3
	6-10	39	0.3	-	-	2	20	10	-	-	-	7	7
	11-15	81	0.7	-	-	11	31	37	-	-	-	2	2
	16-20	283	2.4	50	-	17	131	66	8	9	-	2	2
	21-25	707	5.9	401	5	15	114	107	33	24	1	7	7
	26-30	1,070	8.9	824	15	25	83	60	28	30	-	5	5
	31-35	1,210	10.1	922	17	40	104	62	28	32	-	5	5
	36-40	1,204	10.1	918	32	42	93	68	21	27	-	3	3
	41-45	1,493	12.5	1,241	29	56	77	45	19	23	-	3	3
	46-50	1,661	13.9	1,390	45	70	76	42	15	22	-	1	1
	51-55	1,377	11.5	1,178	34	67	61	20	4	10	2	1	1
	56-60	834	7.0	673	28	53	53	9	5	9	-	4	4
	Total	10,985	91.9	7,815	209	746	1,152	627	168	215	4	49	49
Total		11,956	100.0	7,837	209	749	1,421	1,300	170	217	4	49	49

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
 E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
 J - Nontrespasser, off rr property*

TABLE 3-8 TOTAL CASUALTIES BY MONTH AND TYPE PERSON, 2001

Month		Total	Type of Person *									
		Cnt	A	B	C	D	E	F	G	H	I	J
Kld	January	71	2	-	-	25	44	-	-	-	-	-
	February	77	1	-	-	27	49	-	-	-	-	-
	March	73	3	-	1	28	41	-	-	-	-	-
	April	73	1	-	-	14	58	-	-	-	-	-
	May	90	-	-	-	28	62	-	-	-	-	-
	June	83	1	-	-	24	58	-	-	-	-	-
	July	91	2	-	-	23	66	-	-	-	-	-
	August	97	2	-	-	15	80	-	-	-	-	-
	September	77	-	-	1	17	58	-	1	-	-	-
	October	74	3	-	-	18	52	1	-	-	-	-
	November	74	4	-	1	17	51	1	-	-	-	-
	December	91	3	-	-	33	54	-	1	-	-	-
	Total	971	22	-	3	269	673	2	2	-	-	-
Nonfatal	January	1,024	699	30	67	128	40	17	15	-	28	-
	February	926	657	25	75	89	39	22	18	-	1	-
	March	997	670	20	84	122	66	14	19	-	2	-
	April	839	601	16	35	95	57	11	20	-	4	-
	May	943	679	12	66	104	43	17	21	-	1	-
	June	948	666	20	72	84	60	25	20	1	-	-
	July	990	720	9	89	81	64	7	19	-	1	-
	August	1,027	717	20	74	114	59	11	26	1	5	-
	September	894	649	20	53	91	50	14	13	1	3	-
	October	924	677	18	59	88	46	13	20	1	2	-
	November	769	571	6	33	80	57	12	10	-	-	-
	December	704	509	13	39	76	46	5	14	-	2	-
	Total	10,985	7,815	209	746	1,152	627	168	215	4	49	-
Total		11,956	7,837	209	749	1,421	1,300	170	217	4	49	-

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
 E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
 J - Nontrespasser, off rr property*

**TABLE 3-9 TOTAL CASUALTIES BY TIME OF DAY
AND TYPE OF PERSON, 2001**

Time	Total		Type of Person *									
	Cnt	%	A	B	C	D	E	F	G	H	I	J
AM	1	387	3.2	248	8	14	29	81	2	5	-	-
	2	306	2.6	210	2	4	25	55	2	8	-	-
	3	286	2.4	227	-	4	10	40	1	4	-	-
	4	255	2.1	173	7	11	11	51	1	1	-	-
	5	266	2.2	171	15	23	15	31	3	8	-	-
	6	304	2.5	174	23	19	45	36	2	5	-	-
	7	522	4.4	315	13	55	81	45	7	6	-	-
	8	781	6.5	547	5	48	90	33	14	15	-	29
	9	843	7.1	626	11	35	83	54	16	18	-	-
	10	919	7.7	712	3	35	75	49	22	21	1	1
	11	838	7.0	580	12	60	96	45	21	19	-	5
	12	290	2.4	179	1	11	18	70	1	8	-	2
	Total	5,997	50.2	4,162	100	319	578	590	92	118	1	37
PM	1	707	5.9	501	7	28	91	52	14	13	1	-
	2	658	5.5	473	4	26	86	47	9	13	-	-
	3	595	5.0	345	17	43	105	61	9	13	1	1
	4	552	4.6	319	11	55	84	61	12	8	-	2
	5	487	4.1	270	10	34	96	65	3	7	-	2
	6	452	3.8	259	7	31	74	69	4	6	-	2
	7	445	3.7	229	3	40	72	88	6	7	-	-
	8	361	3.0	233	5	19	53	45	2	4	-	-
	9	358	3.0	226	6	14	40	64	3	5	-	-
	10	304	2.5	204	8	7	27	50	5	3	-	-
	11	364	3.0	207	20	41	31	57	2	4	-	2
	12	676	5.7	409	11	92	84	51	9	16	1	3
	Total	5,959	49.8	3,675	109	430	843	710	78	99	3	12
Total		11,956	100	7,837	209	749	1,421	1,300	170	217	4	49

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser
E - Trespasser, F - Worker on duty(contractor), G - Contractor(other), H - Worker on duty(volunteer), I - Volunteer
J - Nontrespasser, off rr property*

CHAPTER 4

EMPLOYEE ON DUTY CASUALTIES

The work environment is the physical location, equipment, materials processed or used, and activities of a railroad employee associated with his or her work, whether on or off the railroad's property. There are no stated exclusions of place or circumstance. All activities of a Worker on Duty--Employee (Class A) while in the work environment are presumed to be work-related for accident/incident reporting purposes.

An employee is in the work environment:

1. While engaged in work activity or apprenticeship/vocational training required by the employer.
2. While on break, in the rest room, or in storage areas when located on the employer's premises.
3. While performing work for pay or compensation at home, pursuant to the employer's instructions, if the injury or illness is directly related to the performance of work rather than the general home environment or setting.
4. While traveling on business, including to and from customer contacts. Employees in travel status (i.e., traveling on company business) should be considered engaged in work-related activities during all of their time spent in the "interest of their company". This includes, but is not limited to, travel to and from customer contacts, conducting job tasks, and entertaining or being entertained for the purpose of transacting, discussing, or promoting business.
5. While employee is engaged in work activity where a vehicle is considered the work environment (e.g., truck, taxi).
6. While at conferences where attendance is expected or required by the employer.
7. Some workplaces provide living quarters for employees on their premises. In these workplaces, injuries or illnesses are presumed to be work-related if the employee is on-duty or engaged in a work activity. The injury or illness is also considered work-related if the employee was harmed as a result of a serious workplace accident such as a chemical release, fire, explosion, derailment, collision, or building collapse. All other injuries and illnesses occurring during off-duty hours while in living quarters are considered non-work-related. The worker should be classified as an "employee not on duty" in these cases if a reportable condition occurs.

Employees present in the work environment, but for reasons unconnected with their employment, generally are not reportable as Worker on Duty--Employee (Class A) should they be injured. These individuals are more appropriately classified as employees not on duty, nontrespassers on railroad property, passengers on train, etc., and if hurt should be identified as such. The following are examples:

1. Injuries or illnesses that occur to employees present at their employer's establishment as a member of the general public rather than as a worker.
2. Injuries or illnesses that are solely the result of employees doing personal tasks (unrelated to their employment) at the establishment outside of normal working hours.
3. Injuries or illnesses occurring on company parking lots and access roads while employees are arriving at or leaving work.
4. An injury or illness solely associated with participation in voluntary community or civic projects, e.g., Operation Lifesaver presentations; unless the employee was under pay status.

Injury/Illness Distinction. The distinction between occupational illnesses and injuries is based primarily on the event or exposure that precipitated the employee's condition. Injuries are generally the result of instantaneous events; for example, an employee is struck by an object and sustains a cut or a bruise. Illnesses, on the other hand, are usually the result of an exposure that occurs over time; such as hearing impairment caused by working in a noisy environment. Exceptions to this general rule are muscular sprains, strains, or soreness, occurring after work activity for which no single movement or event can be isolated as the primary causal factor. Physical conditions of this type are to be recorded as injuries when the condition is attributable to activity of limited duration--typically no more than a single work shift.

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TABLE 4-1 REPORTABLE CONDITIONS TO RR EMPLOYEES ON DUTY, 2001

Condition	Total		Days Absent			Absent Cases 1/		Term./ Trans. 2/	Days Restricted			Hazmat Exp. 3/
	Cnt	%	Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.	Cnt
Bruise/contusion	1,145	14.6	59,178	13.9	52	837	15.5	3	8,592	13.3	8	2
Occ. Illness	167	2.1	5,648	1.3	34	111	2.1	-	1,540	2.4	9	-
Sprain/Str.,arm/hand	404	5.2	20,904	4.9	52	270	5.0	2	3,921	6.1	10	1
Sprain/Str.,leg/foot	1,145	14.6	65,984	15.6	58	891	16.5	5	11,788	18.3	10	-
Sprain/Str.,head/face	279	3.6	25,799	6.1	92	213	3.9	1	3,503	5.4	13	1
Sprain/Str.,torso	2,154	27.5	157,312	37.1	73	1,662	30.7	13	20,624	32.0	10	-
Sprain/Str., other	43	0.5	3,725	0.9	87	36	0.7	-	93	0.1	2	-
Cut/abrasion	846	10.8	14,492	3.4	17	358	6.6	2	2,691	4.2	3	-
Puncture wound	146	1.9	1,004	0.2	7	39	0.7	-	451	0.7	3	-
Electric shock/burn	40	0.5	1,166	0.3	29	32	0.6	-	138	0.2	3	-
Other burn	81	1.0	1,253	0.3	15	44	0.8	-	95	0.1	1	5
Dislocation	71	0.9	5,349	1.3	75	58	1.1	1	710	1.1	10	-
Fracture,arm/hand	286	3.6	11,258	2.7	39	173	3.2	2	4,560	7.1	16	-
Fracture,leg/foot	194	2.5	15,435	3.6	80	168	3.1	1	2,751	4.3	14	-
Fracture,head/face	23	0.3	1,903	0.4	83	19	0.4	-	51	0.1	2	-
Fracture,torso	97	1.2	9,104	2.1	94	82	1.5	-	1,381	2.1	14	-
Fracture,multiple	4	0.1	1,283	0.3	321	4	0.1	-	0	0.0	0	-
Fracture,other	1	0.0	365	0.1	365	1	0.0	-	0	0.0	0	-
Dental related	32	0.4	50	0.0	2	9	0.2	-	25	0.0	1	-
Amputation,arm/hand	35	0.4	1,887	0.4	54	29	0.5	-	369	0.6	11	-
Amputation,leg/foot	8	0.1	2,163	0.5	270	8	0.1	-	0	0.0	0	-
Fatality	22	0.3	0	0.0	0	-	-	3	0	0.0	0	-
Object in eye	165	2.1	768	0.2	5	57	1.1	1	7	0.0	0	-
Hernia	66	0.8	3,445	0.8	52	63	1.2	-	417	0.6	6	-
Concussion	35	0.4	2,459	0.6	70	26	0.5	-	141	0.2	4	-
Internal injury	14	0.2	749	0.2	54	9	0.2	-	0	0.0	0	-
Skin reaction	43	0.5	484	0.1	11	18	0.3	-	9	0.0	0	19
One-time exp. to noise	12	0.2	480	0.1	40	8	0.1	-	0	0.0	0	-
Unspecified injury	173	2.2	8,409	2.0	49	110	2.0	1	631	1.0	4	3
One-time exp.-fumes	106	1.4	2,245	0.5	21	74	1.4	-	42	0.1	0	15
Total	7,837	100	424,301	100	54	5,409	100	35	64,530	100	8	46

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-2 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY RAILROAD, 2001

RR	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Cnt	Cnt	%	Avg.	Cnt
ALS	8	0.1	-	0.0	8	0.1	275	0.1	34	8	0.1	-	0	0.0	0	-
ARR	50	0.6	-	0.0	50	0.6	487	0.1	10	28	0.5	-	248	0.4	5	1
ATK	881	11.2	1	4.5	880	11.3	34,213	8.1	39	651	12.0	-	2,338	3.6	3	-
BAR	15	0.2	-	0.0	15	0.2	302	0.1	20	13	0.2	-	47	0.1	3	-
BLE	7	0.1	-	0.0	7	0.1	208	0.0	30	4	0.1	-	121	0.2	17	-
BNSF	1,067	13.6	5	22.7	1,062	13.6	45,163	10.6	42	594	11.0	-	37,438	58.0	35	7
BRC	10	0.1	-	0.0	10	0.1	167	0.0	17	5	0.1	-	22	0.0	2	-
CRSH	28	0.4	-	0.0	28	0.4	2,068	0.5	74	20	0.4	-	0	0.0	0	-
CSX	806	10.3	2	9.1	804	10.3	77,751	18.3	96	679	12.6	1	165	0.3	0	-
DH	49	0.6	-	0.0	49	0.6	701	0.2	14	37	0.7	-	23	0.0	0	-
DME	16	0.2	-	0.0	16	0.2	437	0.1	27	8	0.1	-	123	0.2	8	-
DMIR	32	0.4	-	0.0	32	0.4	1,105	0.3	35	18	0.3	2	108	0.2	3	-
DWP	1	0.0	-	0.0	1	0.0	49	0.0	49	1	0.0	-	0	0.0	0	-
EJE	36	0.5	-	0.0	36	0.5	1,833	0.4	51	20	0.4	-	579	0.9	16	-
FEC	15	0.2	-	0.0	15	0.2	353	0.1	24	9	0.2	-	13	0.0	1	-
GRS	11	0.1	-	0.0	11	0.1	174	0.0	16	9	0.2	-	0	0.0	0	-
GTW	84	1.1	2	9.1	82	1.0	5,346	1.3	64	71	1.3	6	97	0.2	1	-
GWWR	8	0.1	-	0.0	8	0.1	321	0.1	40	5	0.1	-	119	0.2	15	-
IC	132	1.7	1	4.5	131	1.7	6,193	1.5	47	87	1.6	8	111	0.2	1	-
IHB	39	0.5	-	0.0	39	0.5	2,927	0.7	75	32	0.6	-	118	0.2	3	-
IMRL	27	0.3	-	0.0	27	0.3	417	0.1	15	19	0.4	-	147	0.2	5	1
KCS	64	0.8	-	0.0	64	0.8	3,398	0.8	53	39	0.7	-	986	1.5	15	6
LI	303	3.9	-	0.0	303	3.9	4,841	1.1	16	299	5.5	-	3,235	5.0	11	-
MACZ	3	0.0	-	0.0	3	0.0	6	0.0	2	1	0.0	-	9	0.0	3	-
MBTA	91	1.2	-	0.0	91	1.2	2,837	0.7	31	68	1.3	-	35	0.1	0	-
MNCW	347	4.4	-	0.0	347	4.4	11,268	2.7	32	195	3.6	-	3,439	5.3	10	-
MRL	37	0.5	-	0.0	37	0.5	940	0.2	25	26	0.5	-	458	0.7	12	-
NICD	13	0.2	-	0.0	13	0.2	296	0.1	23	10	0.2	-	60	0.1	5	-
NIRC	180	2.3	-	0.0	180	2.3	5,708	1.3	32	130	2.4	-	582	0.9	3	-
NJTR	163	2.1	1	4.5	162	2.1	4,248	1.0	26	129	2.4	1	49	0.1	0	5
NS	399	5.1	4	18.2	395	5.1	49,124	11.6	123	298	5.5	-	326	0.5	1	5
PAL	4	0.1	1	4.5	3	0.0	53	0.0	13	2	0.0	-	0	0.0	0	2
PATH	108	1.4	-	0.0	108	1.4	2,018	0.5	19	103	1.9	-	317	0.5	3	-
PCMZ	18	0.2	-	0.0	18	0.2	1,088	0.3	60	11	0.2	-	210	0.3	12	-
PTRA	9	0.1	-	0.0	9	0.1	501	0.1	56	7	0.1	-	1	0.0	0	-
SCAX	8	0.1	-	0.0	8	0.1	39	0.0	5	5	0.1	-	19	0.0	2	-
SEPA	178	2.3	1	4.5	177	2.3	2,789	0.7	16	124	2.3	-	95	0.1	1	2
SOO	150	1.9	1	4.5	149	1.9	6,439	1.5	43	109	2.0	-	382	0.6	3	-
TM	15	0.2	-	0.0	15	0.2	619	0.1	41	14	0.3	-	65	0.1	4	-
TRRA	13	0.2	-	0.0	13	0.2	591	0.1	45	8	0.1	-	151	0.2	12	-
TXTX	5	0.1	-	0.0	5	0.1	41	0.0	8	3	0.1	-	13	0.0	3	-
UP	1,464	18.7	2	9.1	1,462	18.7	136,006	32.1	93	1,025	18.9	1	7,415	11.5	5	8
URR	25	0.3	-	0.0	25	0.3	496	0.1	20	13	0.2	-	210	0.3	8	1
WC	84	1.1	-	0.0	84	1.1	2,312	0.5	28	47	0.9	1	939	1.5	11	-
WE	9	0.1	-	0.0	9	0.1	136	0.0	15	6	0.1	1	335	0.5	37	-
XXXX	825	10.5	1	4.5	824	10.5	8,017	1.9	10	419	7.7	14	3,382	5.2	4	8
Tot.	7,837	100	22	100	7,815	100	424,301	100	54	5,409	100	35	64,530	100	8	46

XXXX = All other railroads

TABLE 4-3 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY STATE, 2001

	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Trans.	Cnt	%	Avg.	Exp. Cnt
AL	108	1.4	1	4.5	107	1.4	8,624	2.0	80	79	1.5	-	389	0.6	4	-
AK	85	1.1	-	0.0	85	1.1	791	0.2	9	50	0.9	-	290	0.4	3	1
AZ	111	1.4	-	0.0	111	1.4	5,188	1.2	47	61	1.1	1	1,960	3.0	18	-
AR	183	2.3	-	0.0	183	2.3	17,965	4.2	98	138	2.6	-	1,031	1.6	6	1
CA	494	6.3	-	0.0	494	6.3	31,923	7.5	65	312	5.8	-	6,714	10.4	14	3
CO	135	1.7	-	0.0	135	1.7	4,537	1.1	34	76	1.4	3	2,391	3.7	18	-
CT	141	1.8	-	0.0	141	1.8	3,320	0.8	24	72	1.3	-	935	1.4	7	-
DE	39	0.5	1	4.5	38	0.5	906	0.2	23	18	0.3	-	62	0.1	2	-
DC	67	0.9	-	0.0	67	0.9	3,149	0.7	47	52	1.0	-	134	0.2	2	-
FL	182	2.3	-	0.0	182	2.3	11,467	2.7	63	137	2.5	-	607	0.9	3	-
GA	148	1.9	-	0.0	148	1.9	15,363	3.6	104	111	2.1	-	268	0.4	2	-
HI	1	0.0	-	0.0	1	0.0	0	0.0	0	-	-	-	0	0.0	0	-
ID	50	0.6	-	0.0	50	0.6	2,377	0.6	48	30	0.6	1	366	0.6	7	-
IL	672	8.6	3	13.6	669	8.6	33,501	7.9	50	474	8.8	4	3,222	5.0	5	-
IN	172	2.2	-	0.0	172	2.2	13,398	3.2	78	121	2.2	1	622	1.0	4	-
IA	133	1.7	-	0.0	133	1.7	6,330	1.5	48	74	1.4	1	1,615	2.5	12	-
KS	146	1.9	1	4.5	145	1.9	5,489	1.3	38	73	1.3	-	1,745	2.7	12	-
KY	95	1.2	1	4.5	94	1.2	8,933	2.1	94	77	1.4	-	7	0.0	0	2
LA	153	2.0	2	9.1	151	1.9	13,107	3.1	86	101	1.9	2	987	1.5	6	10
ME	27	0.3	-	0.0	27	0.3	493	0.1	18	18	0.3	-	52	0.1	2	1
MD	97	1.2	-	0.0	97	1.2	4,901	1.2	51	71	1.3	1	312	0.5	3	-
MA	166	2.1	-	0.0	166	2.1	6,320	1.5	38	128	2.4	-	117	0.2	1	-
MI	187	2.4	2	9.1	185	2.4	10,943	2.6	59	126	2.3	7	363	0.6	2	-
MN	222	2.8	1	4.5	221	2.8	8,287	2.0	37	141	2.6	2	2,812	4.4	13	2
MS	56	0.7	-	0.0	56	0.7	3,673	0.9	66	42	0.8	1	872	1.4	16	-
MO	180	2.3	-	0.0	180	2.3	12,496	2.9	69	108	2.0	-	3,039	4.7	17	2
MT	100	1.3	-	0.0	100	1.3	3,798	0.9	38	58	1.1	-	2,379	3.7	24	-
NE	211	2.7	-	0.0	211	2.7	10,893	2.6	52	135	2.5	-	3,785	5.9	18	2
NV	26	0.3	-	0.0	26	0.3	2,215	0.5	85	20	0.4	-	0	0.0	0	-
NH	6	0.1	-	0.0	6	0.1	55	0.0	9	4	0.1	1	65	0.1	11	-
NJ	306	3.9	1	4.5	305	3.9	8,568	2.0	28	254	4.7	1	376	0.6	1	5
NM	49	0.6	1	4.5	48	0.6	1,759	0.4	36	27	0.5	-	1,151	1.8	23	-
NY	831	10.6	-	0.0	831	10.6	24,936	5.9	30	684	12.6	-	5,919	9.2	7	-
NC	64	0.8	1	4.5	63	0.8	6,698	1.6	105	52	1.0	1	55	0.1	1	-
ND	65	0.8	-	0.0	65	0.8	757	0.2	12	34	0.6	-	879	1.4	14	-
OH	186	2.4	1	4.5	185	2.4	17,262	4.1	93	141	2.6	2	581	0.9	3	-
OK	78	1.0	1	4.5	77	1.0	3,490	0.8	45	51	0.9	-	1,406	2.2	18	2
OR	101	1.3	1	4.5	100	1.3	5,016	1.2	50	60	1.1	-	689	1.1	7	-
PA	397	5.1	2	9.1	395	5.1	14,989	3.5	38	263	4.9	-	1,294	2.0	3	7
RI	18	0.2	-	0.0	18	0.2	589	0.1	33	17	0.3	-	0	0.0	0	-
SC	49	0.6	-	0.0	49	0.6	4,400	1.0	90	42	0.8	-	1	0.0	0	-
SD	23	0.3	-	0.0	23	0.3	253	0.1	11	13	0.2	-	563	0.9	24	-
TN	114	1.5	-	0.0	114	1.5	8,282	2.0	73	82	1.5	3	716	1.1	6	-
TX	505	6.4	-	0.0	505	6.5	44,204	10.4	88	370	6.8	1	5,710	8.8	11	3
UT	70	0.9	-	0.0	70	0.9	4,845	1.1	69	43	0.8	-	200	0.3	3	1
VT	18	0.2	-	0.0	18	0.2	131	0.0	7	9	0.2	-	52	0.1	3	-
VA	85	1.1	1	4.5	84	1.1	7,169	1.7	84	65	1.2	-	82	0.1	1	-
WA	183	2.3	-	0.0	183	2.3	5,268	1.2	29	105	1.9	-	4,964	7.7	27	2
WV	69	0.9	-	0.0	69	0.9	5,852	1.4	85	54	1.0	-	139	0.2	2	-
WI	151	1.9	-	0.0	151	1.9	3,364	0.8	22	80	1.5	2	1,312	2.0	9	-
WY	82	1.0	1	4.5	81	1.0	6,027	1.4	74	56	1.0	-	1,300	2.0	16	2
Tot.	7,837	100	22	100	7,815	100	424,301	100	54	5,409	100	35	64,530	100	8	46

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT,2001

Event	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Aggravated pre-existing condition	121	1.5	6,603	1.6	90	1.7	3	1,974	3.1	-
Apprehending/removing from property	11	0.1	695	0.2	8	0.1	-	302	0.5	-
Assaulted by other	42	0.5	1,632	0.4	38	0.7	1	56	0.1	1
Assaulted by coworker	13	0.2	1,176	0.3	11	0.2	1	19	0.0	-
Bitten/stung by bee, spider, other insect	80	1.0	293	0.1	29	0.5	-	83	0.1	-
Bitten by animal	7	0.1	325	0.1	2	0.0	-	0	0.0	-
Bodily function/sudden movement, e.g.,sneeze	169	2.2	7,950	1.9	108	2.0	1	2,860	4.4	-
Caught in/compressed by hand tools	34	0.4	300	0.1	8	0.1	-	484	0.8	-
Caught in/compressed by other machinery	63	0.8	2,378	0.6	32	0.6	-	452	0.7	-
Caught in/crushed by materials	76	1.0	1,791	0.4	34	0.6	-	903	1.4	-
Caught in/crushed in excavation, land slide	1	0.0	222	0.1	1	0.0	-	0	0.0	-
Caught in/compressed by powered hand tools	12	0.2	277	0.1	3	0.1	-	216	0.3	-
Cave in, slide, etc.	6	0.1	533	0.1	5	0.1	-	8	0.0	1
Climatic conditions, other (e.g., high wind	35	0.4	353	0.1	14	0.3	-	5	0.0	-
Climatic condition, exposure to environment	24	0.3	221	0.1	17	0.3	-	11	0.0	-
Collision - between on track equipment	150	1.9	15,271	3.6	114	2.1	3	651	1.0	2
Collision/impact - auto, truck, bus, van, e	198	2.5	11,207	2.6	145	2.7	-	1,450	2.2	-
Defective/malfunctioning equipment	118	1.5	10,513	2.5	82	1.5	-	1,588	2.5	-
Derailment	80	1.0	7,529	1.8	72	1.3	-	957	1.5	-
Electrical shock while operating welding e	3	0.0	243	0.1	3	0.1	-	0	0.0	-
Electrical shock due to contact with 3rd ra	14	0.2	365	0.1	13	0.2	-	121	0.2	-
Electrical shock, other (explain in narrati	16	0.2	393	0.1	10	0.2	-	8	0.0	-
Electrical shock from hand tool	7	0.1	20	0.0	3	0.1	-	0	0.0	-
Exposure to fumes - inhalation	124	1.6	3,236	0.8	83	1.5	-	43	0.1	25
Exposure to chemicals - external	43	0.5	503	0.1	26	0.5	-	34	0.1	15
Exposure to poisonous plants	6	0.1	48	0.0	3	0.1	-	0	0.0	-
Exposure to noise over time	2	0.0	0	0.0	-	-	-	0	0.0	-
Exposure to noise - single incident	10	0.1	477	0.1	7	0.1	-	292	0.5	-
Exposure to welding light	9	0.1	39	0.0	6	0.1	-	0	0.0	-
Highway-rail collision/impact	98	1.3	10,108	2.4	76	1.4	-	602	0.9	-
Horseplay, practical joke, etc.	4	0.1	10	0.0	2	0.0	1	0	0.0	-
Lost balance	263	3.4	15,600	3.7	201	3.7	2	2,447	3.8	-
Missed handhold, grabiron, step, etc.	65	0.8	4,635	1.1	52	1.0	-	562	0.9	-
Needle puncture/prick/stick	16	0.2	55	0.0	2	0.0	-	17	0.0	-
Other impacts - on track equipment	23	0.3	1,085	0.3	15	0.3	-	355	0.6	-
Overexertion	1,312	16.7	87,231	20.6	986	18.2	5	9,370	14.5	-
Pushed/shoved into/against	53	0.7	1,867	0.4	33	0.6	-	584	0.9	-
Pushed/shoved onto	9	0.1	520	0.1	7	0.1	-	58	0.1	-
Pushed/shoved from	5	0.1	848	0.2	4	0.1	-	4	0.0	-
Ran into on-track equipment	13	0.2	1,203	0.3	9	0.2	2	160	0.2	-
Ran into object/equipment	27	0.3	2,062	0.5	14	0.3	-	53	0.1	-
Repetitive motion - work processes	122	1.6	4,821	1.1	76	1.4	-	2,606	4.0	-
Repetitive motion - typing, keyboard, etc.	9	0.1	145	0.0	4	0.1	-	50	0.1	-
Repetitive motion - tools	24	0.3	678	0.2	15	0.3	-	244	0.4	-
Repetitive motion - other (describe in narr	16	0.2	146	0.0	9	0.2	-	43	0.1	-
Rubbed, abraded, etc.	22	0.3	402	0.1	6	0.1	-	53	0.1	-
Slack action, draft, compressive buff/coupl	60	0.8	5,781	1.4	51	0.9	-	625	1.0	-
Slipped,fell,stumbled,etc. due to irregular	275	3.5	15,047	3.5	208	3.8	-	3,360	5.2	-
Slipped, fell, stumbled, etc. due to climat	296	3.8	18,509	4.4	237	4.4	2	2,931	4.5	-
Slipped,fell,stumbled,etc. on oil, grease,e	182	2.3	13,950	3.3	143	2.6	1	2,192	3.4	-
Slipped,fell,stumbled,etc. due to object,ba	531	6.8	40,201	9.5	430	7.9	-	5,988	9.3	-
Stabbing, knifing, etc.	11	0.1	11	0.0	4	0.1	-	74	0.1	-
Stepped on object	108	1.4	5,463	1.3	73	1.3	-	904	1.4	-
Struck by thrown or propelled object	121	1.5	3,139	0.7	49	0.9	-	537	0.8	-

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT,2001

Event	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Struck by object	477	6.1	11,702	2.8	248	4.6	1	1,668	2.6	-
Struck by on-track equipment	52	0.7	6,467	1.5	36	0.7	1	815	1.3	-
Struck by falling object	172	2.2	5,405	1.3	108	2.0	-	1,448	2.2	-
Struck against object	334	4.3	8,575	2.0	199	3.7	1	1,939	3.0	-
Sudden release of air	17	0.2	290	0.1	7	0.1	-	0	0.0	-
Sudden/unexpected movement of material	126	1.6	4,484	1.1	68	1.3	-	974	1.5	-
Sudden/unexpected movement of on-track equ	111	1.4	7,918	1.9	96	1.8	-	633	1.0	-
Sudden/unexpected movement of vehicle	53	0.7	6,850	1.6	43	0.8	-	447	0.7	-
Sustained viewing	3	0.0	37	0.0	2	0.0	-	21	0.0	-
Caught, crushed, pinched, other	282	3.6	4,737	1.1	163	3.0	-	2,393	3.7	-
On track equipment, other incidents	28	0.4	2,136	0.5	21	0.4	1	647	1.0	-
Slipped, fell, stumbled, other	444	5.7	34,277	8.1	366	6.8	3	4,480	6.9	-
Sudden, unexpected movement, other	212	2.7	14,010	3.3	145	2.7	-	1,264	2.0	-
Other (describe in narrative)	387	4.9	9,303	2.2	234	4.3	6	1,465	2.3	2
Total	7,837	100	424,301	100	5,409	100	35	64,530	100	46

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY LOCATION, 2001

Location	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Main/branch	2,239	28.6	127,879	30.1	1,547	28.6	10	17,805	27.6	11
Yard	2,672	34.1	169,504	39.9	1,930	35.7	9	20,712	32.1	28
Siding	217	2.8	14,407	3.4	150	2.8	2	1,780	2.8	1
Industry	377	4.8	27,299	6.4	277	5.1	3	4,380	6.8	3
Repair	225	2.9	5,950	1.4	114	2.1	1	3,085	4.8	-
Break/lunch room	20	0.3	782	0.2	11	0.2	-	119	0.2	-
Freight terminal	43	0.5	2,914	0.7	36	0.7	3	134	0.2	-
Highway/roadway	220	2.8	14,892	3.5	159	2.9	-	1,255	1.9	-
Loading dock	43	0.5	1,619	0.4	27	0.5	-	308	0.5	-
Lodging facility	3	0.0	24	0.0	2	0.0	-	55	0.1	-
Office environment	182	2.3	5,855	1.4	96	1.8	-	1,101	1.7	-
Parking lot	70	0.9	3,261	0.8	48	0.9	1	1,312	2.0	-
Passenger terminal	451	5.8	13,296	3.1	363	6.7	-	2,446	3.8	1
Repair shop	802	10.2	28,101	6.6	500	9.2	5	8,305	12.9	1
Storage facility	78	1.0	2,854	0.7	50	0.9	1	599	0.9	-
Sidewalk/walkway	35	0.4	1,436	0.3	20	0.4	-	319	0.5	-
Other, (off site location	60	0.8	1,710	0.4	26	0.5	-	572	0.9	-
Other (explain in narrati	48	0.6	1,169	0.3	28	0.5	-	162	0.3	-
Other location (describe	52	0.7	1,349	0.3	25	0.5	-	81	0.1	1
Total	7,837	100	424,301	100	5,409	100	35	64,530	100	46

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-6 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2001

Activity	Total		Days Absent		Absent Cases		Term./	Days Restricted		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp. Cnt
Adjusting coupler	26	0.3	1,666	0.4	14	0.3	-	454	0.7	-
Adjusting drawbar	34	0.4	2,835	0.7	29	0.5	-	70	0.1	-
Adjusting, other	87	1.1	4,034	1.0	53	1.0	1	350	0.5	-
Applying rail anchor/fastener	8	0.1	276	0.1	4	0.1	-	4	0.0	-
Bending, stooping	130	1.7	3,170	0.7	82	1.5	-	1,656	2.6	-
Carrying	49	0.6	2,096	0.5	34	0.6	1	378	0.6	-
Chaining, cabling car or locomotive	8	0.1	89	0.0	5	0.1	-	54	0.1	-
Cleaning	98	1.3	2,989	0.7	52	1.0	-	596	0.9	3
Climbing over/on	136	1.7	7,830	1.8	102	1.9	-	914	1.4	-
Closing	107	1.4	4,350	1.0	69	1.3	-	628	1.0	-
Coupling electric cables	10	0.1	438	0.1	6	0.1	-	8	0.0	-
Coupling air hose	61	0.8	3,192	0.8	40	0.7	-	603	0.9	-
Crossing over	31	0.4	2,109	0.5	23	0.4	1	427	0.7	-
Crossing or crawling under	6	0.1	246	0.1	3	0.1	-	118	0.2	-
Crossing between	7	0.1	317	0.1	4	0.1	-	0	0.0	-
Cutting rail	17	0.2	696	0.2	9	0.2	1	402	0.6	-
Cutting vegetation	24	0.3	117	0.0	11	0.2	-	15	0.0	-
Cutting, other	67	0.9	331	0.1	14	0.3	-	243	0.4	-
Digging, excavating	31	0.4	1,787	0.4	18	0.3	-	225	0.3	-
Driving (motor vehicle, forklift, flagging)	150	1.9	8,645	2.0	89	1.6	-	866	1.3	-
Flagging	4	0.1	150	0.0	4	0.1	-	100	0.2	-
Fueling	8	0.1	14	0.0	2	0.0	-	13	0.0	1
Getting on	121	1.5	10,939	2.6	99	1.8	1	486	0.8	-
Getting off	311	4.0	21,481	5.1	253	4.7	3	3,339	5.2	-
Grinding	23	0.3	493	0.1	7	0.1	-	57	0.1	-
Handling baggage	37	0.5	1,391	0.3	27	0.5	-	39	0.1	-
Handling car parts	31	0.4	1,140	0.3	18	0.3	-	229	0.4	-
Handling material, general	112	1.4	2,233	0.5	86	1.6	-	857	1.3	-
Handling locomotive parts	47	0.6	1,856	0.4	34	0.6	1	446	0.7	-
Handling wheels/trucks	7	0.1	41	0.0	2	0.0	-	64	0.1	-
Handling, other	152	1.9	5,505	1.3	107	2.0	-	940	1.5	1
Handling other track material/supp	50	0.6	1,598	0.4	24	0.4	-	686	1.1	-
Handling poles	1	0.0	0	0.0	-	-	-	0	0.0	-
Handling tie plates	13	0.2	541	0.1	7	0.1	-	80	0.1	-
Handling ties	48	0.6	2,073	0.5	32	0.6	1	276	0.4	-
Handling rail	26	0.3	1,025	0.2	14	0.3	-	221	0.3	-
Inspecting	82	1.0	4,432	1.0	54	1.0	-	658	1.0	-
Installing	95	1.2	3,223	0.8	50	0.9	-	925	1.4	-
Jumping from	51	0.7	5,778	1.4	39	0.7	-	557	0.9	-
Jumping onto	7	0.1	859	0.2	6	0.1	-	20	0.0	-
Laying	10	0.1	549	0.1	6	0.1	-	11	0.0	-
Lifting other material	182	2.3	7,939	1.9	118	2.2	1	1,459	2.3	-
Lifting equipment (tools, parts, e	171	2.2	8,149	1.9	120	2.2	1	2,450	3.8	-
Lining switches	290	3.7	25,769	6.1	229	4.2	4	2,637	4.1	-
Lining, other	14	0.2	523	0.1	8	0.1	-	263	0.4	-
Loading/unloading	102	1.3	3,135	0.7	69	1.3	2	708	1.1	-
Maintaining	31	0.4	358	0.1	16	0.3	-	217	0.3	-
Opening	140	1.8	5,015	1.2	105	1.9	-	952	1.5	1
Opening/closing angle cock	35	0.4	2,192	0.5	23	0.4	-	584	0.9	-
Operating	299	3.8	18,196	4.3	220	4.1	3	1,876	2.9	4
Pulling pin lifter/operating uncou	98	1.3	4,845	1.1	76	1.4	-	1,610	2.5	-
Pulling	189	2.4	10,775	2.5	126	2.3	-	1,153	1.8	-
Pushing	74	0.9	2,805	0.7	43	0.8	-	1,233	1.9	-
Reaching	73	0.9	1,341	0.3	44	0.8	-	1,233	1.9	-

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-6 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2001

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Removing rail anchors/fasteners	28	0.4	906	0.2	13	0.2	-	65	0.1	-
Repairing	147	1.9	3,750	0.9	67	1.2	-	514	0.8	-
Riding	423	5.4	38,414	9.1	333	6.2	2	2,515	3.9	4
Running	38	0.5	1,697	0.4	26	0.5	-	63	0.1	-
Sitting	208	2.7	13,577	3.2	145	2.7	-	1,338	2.1	4
Spiking (installation/removal)	84	1.1	1,380	0.3	37	0.7	-	438	0.7	1
Standing	387	4.9	18,065	4.3	272	5.0	4	2,609	4.0	5
Stepping up	81	1.0	4,237	1.0	56	1.0	-	1,191	1.8	-
Stepping down	350	4.5	20,968	4.9	272	5.0	-	2,954	4.6	-
Stepping over	69	0.9	3,835	0.9	45	0.8	-	1,373	2.1	-
Uncoupling air hose	11	0.1	1,177	0.3	8	0.1	-	54	0.1	-
Uncoupling electric cables	8	0.1	388	0.1	5	0.1	-	0	0.0	-
Using hand signals	1	0.0	0	0.0	-	-	-	0	0.0	-
Using hand tool	269	3.4	7,651	1.8	121	2.2	1	3,219	5.0	-
Using, other	34	0.4	1,115	0.3	18	0.3	-	198	0.3	-
Walking	1,250	15.9	78,902	18.6	974	18.0	5	11,443	17.7	17
Welding (includes field welding)	39	0.5	390	0.1	16	0.3	-	251	0.4	-
Handbrakes, applying	109	1.4	11,681	2.8	81	1.5	-	742	1.1	1
Handbrakes, releasing	75	1.0	6,681	1.6	62	1.1	-	706	1.1	-
Handbrakes, other	5	0.1	762	0.2	5	0.1	-	0	0.0	-
Derail, applying	3	0.0	24	0.0	2	0.0	-	24	0.0	-
Derail, removing	6	0.1	944	0.2	6	0.1	-	0	0.0	-
Derail, other	4	0.1	506	0.1	4	0.1	-	4	0.0	-
Other (Narrative must be provided)	187	2.4	3,675	0.9	112	2.1	2	439	0.7	4
Total	7,837	100	424,301	100	5,409	100	35	64,530	100	46

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2001

Executives, Officials, and Staff Assistants

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Executives, officials, and staff assistants (miscellaneous)	-	2	1	20	0
Executives and general officers	-	4	-	7	0
Corporate staff managers	-	4	1	143	32
Regional/division officers, assistants and staff assistants	-	11	-	179	0
Transportation officers/managers	-	9	-	480	15
Total	-	30	2	829	47

Professional and Administrative

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Professional and administrative (miscellaneous)	-	3	1	9	0
Professional	-	9	2	8	30
Subprofessionals	-	9	2	31	9
Auditors, traveling auditors or accountants	-	2	-	3	0
General and administrative supervisors	-	20	-	61	26
Sales and traffic representatives and agents	-	17	-	31	0
Freight and other claim agents and investigators	-	1	-	5	0
Lieutenants and sergeants of police	-	7	-	74	79
Police officers, watchmen, guards (except crossing & bridge)	-	40	-	1,033	477
Inspectors, (except MOW & MOE), other investigators, etc	-	1	2	0	0
Buyers, and sales agents	-	2	-	0	241
Clerical technicians and clerical specialists	-	28	3	176	94
Office machine and data equipment operators	-	11	-	508	36
Secretaries, stenographers, and typists	-	7	4	181	40
General/other clerks (except yd clerk and crew dispatcher)	-	81	5	2,810	466
Building and office attendants	-	26	2	885	323
Messengers and office persons	-	2	-	53	0
Motor vehicle operators	-	55	-	2,686	825
Total	-	321	21	8,554	2,646

Maintenance of Way and Structures

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of way and structures (miscellaneous)	-	20	-	158	136
Supervisors, MOW, structures, communication & signls	-	42	-	898	437
MOW, structures, comm. & signals, & scale inspectors	-	57	-	3,637	476
Bridge and building gang foreman	-	28	-	1,139	254
Bridge and building carpenters	-	63	-	2,376	825
Bridge and building ironworkers	-	23	-	547	168
Bridge and building painters	-	8	-	227	26
Masons, bricklayers, plasterers, and plumbers	-	101	3	4,106	399
Bridge and building helpers and apprentices	-	25	-	278	77
Bridge/building gang and bridge/building dept laborers	1	54	4	2,416	1,168
Track gang foremen (extra gang work train laborers)	-	67	1	3,612	249
Gang or section foreman	1	114	-	4,145	1,250
Extra gang laborers	-	170	6	5,547	1,717
Section laborers	2	342	4	9,801	2,730
Machine operators	1	317	9	18,035	1,774
Gang foremen, communications and signals	-	22	1	707	164
Signalmen and signal maintainers	1	247	2	10,791	2,382

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2001

Maintenance of Way and Structures

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Linemen and groundmen and communications craftsman	1	73	1	1,918	805
Assistant signalmen and assistant signal maintainers	-	30	2	633	105
Signal helpers and signal maintainer helpers	-	16	-	475	52
Camp car cooks	-	6	-	483	155
Total	7	1,825	33	71,929	15,349

Maintenance of Equipment and Stores

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of equipment and stores (miscellaneous)	-	19	-	220	39
Supervisors and general foremen, maintenance of equipment	-	24	-	1,213	146
Supervisors and general foremen, materials and stores	-	2	-	262	2
Equipment, shop, electrical inspectors	-	6	-	288	0
Materials and supplies inspectors	-	4	-	234	0
Storekeeper	-	15	1	368	10
Gang foremen, maintenance of equipment	-	36	-	1,188	293
Blacksmiths	-	9	-	334	55
Boilermakers	-	25	-	1,005	73
Carmen (freight)	1	315	6	14,690	3,149
Carmen (other)	-	215	4	6,828	1,911
Electrical workers (A)	-	283	2	9,790	2,763
Electrical workers (B)	-	16	-	94	2
Electrical workers (C)	-	6	-	11	32
Machinists	-	290	6	10,117	4,369
Sheet metal workers	-	63	-	4,127	247
Skilled trades, helpers, maintenance of equipment and stores	-	45	3	1,100	489
Apprentices, maintenance of equipment and stores	-	11	-	49	14
Coach cleaners	-	139	2	5,808	418
Laborers: shops, enginehouses and power plants	-	132	1	5,525	1,112
Equipment operators/general laborers, materials and stores	-	25	1	453	179
Stationary engineers	-	4	1	53	149
Stationary firemen	-	2	-	64	0
Total	1	1,686	27	63,821	15,452

Transportation, Other Than Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, other than train and engine (miscellaneous)	-	2	1	1	10
Transportation supervisor and chief train dispatcher	-	4	-	231	2
Train dispatchers	-	11	1	151	103
Station, freight and passenger agents	-	11	2	224	46
Clerk operators, towerman, train directors	-	9	-	408	2
Station masters & assts, super bag. agents, bag. agents, etc	-	2	-	2	0
Baggage, parcel room and station attendants	-	39	-	1,372	183
Gen/asst gnrl foremen,stations,warehouses,grain elev., docks	-	6	-	106	58
Gang foreman, stations, warehouses, grain elevators, docks	-	1	-	32	0
Grain elevator, and dock laborers	-	5	-	50	2
Station, and warehouse laborers	-	10	-	305	45
Truckers (station, warehouse and platforms)	-	9	-	321	56
Food and lodging manager, supervisors	-	2	-	0	0

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2001

Transportation, Other Than Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Waiters and kitchen helpers (restaurant and dining car)	-	4	-	14	0
Chefs and cooks (restaurant and dining car)	-	38	-	650	72
Train attendants	-	122	1	3,167	131
Bridge operators and helpers	-	3	-	102	156
Bridge and crossing flagmen and gatemen	-	2	-	30	0
Yards clerks	-	18	1	1,935	124
Crew dispatchers	-	5	-	44	0
Yardmasters and assistant yardmasters	-	14	-	956	46
Total	-	317	6	10,101	1,036

Transportation, Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, train and engine (miscellaneous)	-	14	-	529	78
Switchtenders	-	24	-	3,062	1
Outside hostlers	-	18	-	1,099	260
Outside hostler helpers	-	12	-	573	300
Inside hostler	-	6	-	163	0
Road passenger conductors	-	272	14	9,985	396
Assistant road passenger conductors and ticket collectors	-	125	2	5,638	133
Road freight conductors (through freight)	3	539	11	56,253	8,274
Road freight conductors (local and way freight)	2	387	3	30,430	3,252
Road passenger baggageperson	-	2	-	8	8
Road Passenger brakemen and flagmen	-	27	-	406	662
Road freight brakemen and flagmen (through freight)	-	71	-	6,870	1,270
Road freight brakemen and flagmen (local and way freight)	1	259	1	23,077	2,821
Yard conductors and yard foremen	1	413	5	27,765	2,592
Yard brakemen and yard helpers	2	436	6	32,821	4,356
Road passenger engineers and motormen	-	147	22	5,664	466
Road freight engineers (through freight)	4	358	8	35,273	3,106
Road freight engineers (local and way freight)	1	162	2	14,502	517
Yard engineers	-	182	4	14,132	1,508
Road passenger firemen and helpers	-	4	-	44	0
Road freight firemen and helpers (through freight)	-	5	-	218	0
Road freight firemen and helpers (local and way freight)	-	4	-	480	0
Yard firemen and helpers	-	2	-	75	0
Total	14	3,469	78	269,067	30,000

TABLE 4-8 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, 2001

Illness	Total		Kld	Nonfatal	Days Absent	Absent Cases	Term./ Trans.	Days Restricted	Hazmat Exp.
	Cnt	%							
Dermatitis	4	2.4	-	4	0	-	-	2	-
Rashes	4	2.4	-	4	8	1	-	0	-
Pneumoconioses, other	1	0.6	-	1	207	1	-	0	-
Misc. respiratory conditions	4	2.4	-	4	10	4	-	1	-
Heat/sun stroke	5	3.0	-	5	10	4	-	0	-
Heat exhaustion	11	6.6	-	11	15	6	-	3	-
Misc. disorders, physical agents	2	1.2	-	2	35	1	-	0	-
Noise induced hearing loss	1	0.6	-	1	0	-	-	0	-
Synovitis	1	0.6	-	1	0	-	-	13	-
Tenosynovitis	10	6.0	-	10	125	1	-	351	-
Bursitis	1	0.6	-	1	321	1	-	44	-
Carpal tunnel syndrome	33	19.8	-	33	819	17	-	464	-
Misc. repeated trauma condition	23	13.8	-	23	1,817	17	-	525	-
Stress related syndromes	19	11.4	-	19	935	18	-	0	-
Misc. illnesses, unclassified	12	7.2	-	12	137	5	-	118	-
Emotional trauma/nervous shock	36	21.6	-	36	1,209	35	-	19	-
Total	167	100	-	167	5,648	111	-	1,540	-

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-9 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, BY RAILROAD, 2001

RR	Total		Kld	Nonfatal	Days Absent			Absent Cases		Term./ Trans.	Days Restricted			Hazmat Exp.
	Cnt	%			Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.	
ARR	1	0.6	-	1	0	0.0	0	-	-	-	5	0.3	5	-
ATK	18	10.8	-	18	312	5.5	17	17	15.3	-	4	0.3	0	-
BNSF	39	23.4	-	39	2,440	43.2	63	24	21.6	-	1,207	78.4	31	-
CSX	2	1.2	-	2	0	0.0	0	-	-	-	0	0.0	0	-
DH	2	1.2	-	2	5	0.1	3	1	0.9	-	0	0.0	0	-
DMIR	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
IC	2	1.2	-	2	0	0.0	0	-	-	-	3	0.2	2	-
IHB	2	1.2	-	2	69	1.2	35	2	1.8	-	0	0.0	0	-
LI	4	2.4	-	4	155	2.7	39	4	3.6	-	244	15.8	61	-
MBTA	1	0.6	-	1	8	0.1	8	1	0.9	-	0	0.0	0	-
MNCW	1	0.6	-	1	47	0.8	47	1	0.9	-	0	0.0	0	-
NIRC	19	11.4	-	19	93	1.6	5	7	6.3	-	31	2.0	2	-
NJTR	1	0.6	-	1	1	0.0	1	1	0.9	-	0	0.0	0	-
NS	1	0.6	-	1	307	5.4	307	1	0.9	-	0	0.0	0	-
PATH	26	15.6	-	26	594	10.5	23	26	23.4	-	0	0.0	0	-
SCAX	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
SEPA	6	3.6	-	6	18	0.3	3	1	0.9	-	0	0.0	0	-
SOO	2	1.2	-	2	50	0.9	25	1	0.9	-	2	0.1	1	-
UP	15	9.0	-	15	1,308	23.2	87	14	12.6	-	32	2.1	2	-
WC	4	2.4	-	4	0	0.0	0	-	-	-	10	0.6	3	-
XXXX	19	11.4	-	19	241	4.3	13	10	9.0	-	2	0.1	0	-
Tot.	167	100	-	167	5,648	100	34	111	100	-	1,540	100	9	-

1/ The number of cases that resulted in employee being absent for work at least one day

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

CHAPTER 5

TRAIN ACCIDENTS

Collisions, derailments, fires, explosions, acts of God, or other events involving the operation of railroad on-track equipment (standing or moving) and causing reportable damages greater than the reporting threshold for the year in which the accident/incident occurred must be reported using Form FRA F 6180.54. The reporting threshold for calendar years 1992-1996 was \$6,300. The reporting threshold for calendar year 1997 was \$6,500, and in 1998 it was \$6,600.

Reportable damage includes labor costs and all other costs to repair or replace in kind damaged on-track equipment, signals, track, track structures, or roadbed. Reportable damage does not include the cost of clearing a wreck; however, additional damage to the above listed items caused while clearing the wreck is to be included in your damage estimate.

Examples of other costs included in reportable damage are: (1) rental and/or operation of machinery such as cranes, bulldozers, including the services of contractors, to replace or repair the track right-of-way and associated structures; and (2) costs associated with the repair or replacement of roller bearings on units that were derailed or submerged in water. (Replacement costs include the labor costs resulting from a wheel set change out.)

If the property of more than one railroad is involved in an accident/incident, the reporting threshold is calculated by including the damages suffered by all of the railroads involved. When total reportable damage to all railroads directly involved in an accident/incident exceeds the reporting threshold, a report is required even though an individual railroad's damages were below the threshold.

The tables displaying train accidents counts by railroad, are the number of events that a railroad was involved in, regardless of whether or not that railroad's operations were the primary reason the accident occurred. This is done because all railroads are required to report the extent of their involvement in the accident, no matter whether there is agreement on the cause of the accident.

A form must be completed for each consist involved in an accident. The railroad responsible for the on-track equipment at the time of the accident, and only that railroad, will report the consist.

In joint operations, if the railroad having track maintenance responsibility did not also have ontrack rail equipment involved, a report containing the track information must be forwarded.

Track information for accidents occurring on industry track of a non-reporting company is to be reported by the railroad operating the on-track equipment. Damages to industry track and ontrack equipment are included in reportable damage.

A railroad need not report the following:

1. Cars derailed on industry tracks by non-railroad employees or non-railroad employee vandalism, providing there is no involvement of railroad employees;

2. Damage to out-of-service cars resulting from high water or flooding, e.g., empties placed on storage or repair track. This exclusion does not apply if such cars are placed into a moving consist and as a result of this damage, a reportable rail equipment accident results.

An equipment consist is a train, locomotive(s), cut of cars, or a single car not coupled to another car or locomotive.

Car. A unit of on-track equipment, either

- (1) Equipment designed to be hauled by locomotives, or
- (2) Equipment such as a track motorcar, highway-rail vehicle, push car, crane, or ballast tamping machine.

Locomotive. A locomotive is a piece of on-track equipment, other than hi-rail or specialized maintenance equipment,

- (1) With one or more propelling motors designed for moving other equipment;
- (2) With one or more propelling motors designed to carry freight or passenger traffic, or both; or
- (3) Without propelling motors but with one or more control stands.

Motorcar. A self-propelled unit of equipment, designed to carry freight or passenger traffic. (Does not include track motorcars or similar work equipment.)

Train. For purposes of accident/incident reporting, a train is a locomotive or locomotives coupled with or without cars, and with or without markers displayed. This definition includes trains consisting entirely of self-propelled units designed to carry passengers, freight traffic, or both.

Yard switching trains. Those trains operated primarily within yards for the purpose of switching other equipment. Examples include the making up or breaking up of trains, service industrial tracks within yard limits, storing or classifying cars, and other similar operations.

Note: Switching performed by a road crew that is incidental to the road operation is not included.

Work trains are non-revenue trains used for the administration and upkeep service of the railroad. Examples are: official trains; inspection trains; special trains running with company fire apparatus to save the railroad's property from destruction; trains that transport the railroad's employees to and from work when no transportation charge is made; construction and upkeep trains run in connection with maintenance and improvement work; and material and supply trains run in connection with operations.

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TABLE 5-1 TRAIN ACCIDENTS BY RR, TYPE AND MAJOR CAUSE, 2001

Railroad	Total		Type of Accident				Reportable Damage	Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr		Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Alton & Southern	11	0.3	1	5	-	5	288,077	-	1	-	-	5	-	1	5
Alaska RR Corp.	1	0.0	-	1	-	-	24,300	-	-	-	-	1	-	-	-
Amtrak	192	5.4	8	77	42	65	19,036,559	27	183	26	42	33	25	1	65
Bangor & Aroostook	3	0.1	-	1	1	1	483,878	-	1	1	1	-	-	-	1
Bessemer & Lake Erie RR	2	0.1	-	2	-	-	10,157	-	-	1	-	-	-	-	1
Burlington Northern Santa Fe	668	18.8	15	487	45	121	69,020,940	5	47	112	45	221	84	9	197
Belt Rwy Of Chicago	15	0.4	-	8	-	7	208,816	-	-	2	-	8	2	-	3
Conrail Shared Assets	34	1.0	7	25	1	1	1,214,287	-	1	-	1	23	1	1	8
CSX Transportation	419	11.8	85	261	30	43	31,674,235	1	22	31	30	175	73	2	108
Delaware & Hudson	8	0.2	1	7	-	-	1,620,927	-	1	-	-	4	1	-	3
Dakota,Minnesota & Eastern	15	0.4	-	15	-	-	1,443,748	-	-	-	-	1	1	-	13
Duluth,Missabe & Iron Range	4	0.1	-	3	-	1	116,355	-	2	1	-	2	-	-	1
Duluth,Winnipeg & Pacific	2	0.1	-	2	-	-	896,000	-	-	-	-	1	-	-	1
Elgin, Joliet & Eastern	11	0.3	1	8	-	2	202,046	-	-	-	-	4	-	-	7
Florida East Coast	16	0.5	-	15	1	-	299,101	-	-	4	1	5	-	-	6
Guilford Rail System	4	0.1	-	3	1	-	411,370	-	1	-	1	1	-	-	2
Grand Trunk Western RR	16	0.5	3	9	1	3	1,163,811	2	2	1	1	6	3	1	4
Gateway Western	12	0.3	1	9	-	2	2,173,981	-	2	2	-	5	-	-	5
Illinois Central	73	2.1	4	42	7	20	6,832,518	2	5	7	7	28	7	1	23
Indiana Harbor Belt	24	0.7	3	20	-	1	477,413	-	-	1	-	14	1	-	8
I & M Rail Link, LLC	36	1.0	2	26	-	8	1,862,097	-	-	4	-	15	1	-	16
Kansas City Southern	98	2.8	8	63	6	21	6,485,657	1	7	8	6	49	3	-	32
Long Island Rail Road	20	0.6	2	10	1	7	4,416,397	2	17	3	1	5	4	-	7
Mass Bay Transit Auth.	5	0.1	-	-	3	2	27,847	-	1	-	3	1	1	-	-
Metro North Commuter	56	1.6	3	3	1	49	2,071,721	-	7	31	1	8	9	-	7
Montana Rail Link	20	0.6	2	14	1	3	1,713,927	-	1	5	1	10	1	-	3
Northern IN Comm Trans	1	0.0	-	1	-	-	34,803	-	-	-	-	1	-	-	-
Northeast IL Reg Comm	9	0.3	1	4	2	2	523,222	-	-	1	2	6	-	-	-
New Jersey Transit Rail	25	0.7	1	10	-	14	1,258,134	-	22	4	-	8	4	-	9
Norfolk Southern Corp.	257	7.2	22	192	18	25	9,591,881	3	13	51	18	69	40	7	72
Paducah & Louisville	6	0.2	1	4	1	-	635,550	-	-	-	1	2	2	-	1
Port Auth Trans Hudson	3	0.1	-	1	-	2	16,959,283	-	16	1	-	1	1	-	-
Peninsula Comm San Mateo Cnty	1	0.0	-	-	-	1	8,000	-	-	-	-	1	-	-	-
Port Terminal RR Assn	18	0.5	1	2	-	15	470,477	-	-	-	-	17	-	-	1
Southern CA Reg Rail Auth.	8	0.2	-	2	5	1	236,115	-	2	-	5	1	1	-	1
Southeastern PA Trans.	10	0.3	3	-	-	7	287,861	-	-	3	-	1	6	-	-
Soo Line	35	1.0	1	18	4	12	797,674	-	6	6	4	11	6	-	8
Texas Mexican	14	0.4	-	13	-	1	1,542,060	-	-	1	-	3	3	-	7
Term RR Assn Of St. Louis	9	0.3	-	8	-	1	450,919	-	-	1	-	-	-	-	8
Econo Rail Corporation	3	0.1	1	2	-	-	88,310	-	-	1	-	1	-	-	1
Union Pacific	977	27.5	48	719	81	129	112,533,107	9	72	112	81	277	115	20	372
Union RR (Pittsburgh)	2	0.1	-	1	-	1	23,623	-	-	-	-	1	-	-	1
Wisconsin Central Ltd.	40	1.1	3	21	6	10	2,591,196	2	2	8	6	13	5	1	7
Wheeling & Lake Erie	10	0.3	-	10	-	-	253,266	-	-	1	-	2	1	-	6
Other Railroads	355	10.0	16	302	9	28	20,293,512	2	13	28	9	79	30	-	209

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-2 TRAIN ACCIDENTS BY STATE, TYPE AND MAJOR CAUSE, 2001

State	Total		Type of Accident				Reportable Damage		Casualties		Causes						
	Accs	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Alabama	82	2.5	7	63	6	6	4,059,281	1.3	2	3	7	6	17	7	1	44	
Alaska	1	0.0	-	1	-	-	24,300	0.0	-	-	-	-	1	-	-	-	
Arizona	43	1.3	1	37	-	5	5,775,612	1.8	-	1	9	-	16	4	-	14	
Arkansas	74	2.3	4	48	12	10	4,040,891	1.3	2	12	10	12	19	8	3	22	
California	205	6.3	4	149	23	29	20,937,326	6.5	14	24	18	23	67	18	3	76	
Colorado	62	1.9	3	48	3	8	7,851,157	2.4	1	4	15	3	20	6	-	18	
Connecticut	36	1.1	2	8	-	26	2,429,990	0.8	-	7	15	-	8	4	-	9	
Delaware	12	0.4	3	4	-	5	175,797	0.1	-	1	4	-	5	-	-	3	
Dist Of Columbi	21	0.6	1	15	-	5	1,055,489	0.3	-	1	4	-	9	1	-	7	
Florida	54	1.7	3	39	11	1	3,801,111	1.2	3	7	5	11	15	3	-	20	
Georgia	64	2.0	9	44	6	5	6,479,452	2.0	-	15	8	6	20	12	1	17	
Idaho	22	0.7	-	17	4	1	3,278,782	1.0	-	3	4	4	6	2	-	6	
Illinois	243	7.5	24	159	14	46	14,146,591	4.4	-	18	25	14	107	19	2	76	
Indiana	96	3.0	16	70	6	4	4,608,436	1.4	2	7	15	6	27	17	-	31	
Iowa	95	2.9	4	76	4	11	12,495,273	3.9	3	54	8	4	28	7	-	48	
Kansas	107	3.3	1	82	7	17	7,937,558	2.5	2	3	10	7	29	13	1	47	
Kentucky	35	1.1	4	25	3	3	2,047,896	0.6	-	1	1	3	16	8	-	7	
Louisiana	122	3.8	13	79	9	21	7,115,853	2.2	1	12	8	9	43	9	2	51	
Maine	9	0.3	-	6	2	1	701,797	0.2	-	2	2	2	2	1	-	2	
Maryland	31	1.0	7	12	2	10	3,628,478	1.1	1	1	5	2	12	3	-	9	
Massachusetts	27	0.8	1	13	3	10	1,046,796	0.3	-	2	3	3	10	4	-	7	
Michigan	39	1.2	3	26	4	6	2,224,825	0.7	3	2	2	4	14	4	1	14	
Minnesota	74	2.3	1	54	4	15	7,544,030	2.3	-	4	12	4	20	9	-	29	
Mississippi	53	1.6	1	34	4	14	4,645,301	1.4	1	6	4	4	23	2	-	20	
Missouri	93	2.9	6	71	3	13	30,465,492	9.4	-	23	15	3	27	8	1	39	
Montana	30	0.9	3	22	1	4	4,142,016	1.3	-	1	7	1	10	3	-	9	
Nebraska	104	3.2	4	77	5	18	13,868,200	4.3	-	5	21	5	19	20	6	33	
Nevada	14	0.4	3	8	-	3	4,321,401	1.3	-	1	1	-	6	5	-	2	
New Hampshire	1	0.0	-	-	-	1	20,480	0.0	-	-	-	-	-	1	-	-	
New Jersey	53	1.6	5	29	1	18	2,560,173	0.8	-	21	7	1	25	4	-	16	
New Mexico	35	1.1	2	20	3	10	3,598,713	1.1	3	2	6	3	16	5	-	5	
New York	134	4.1	16	62	2	54	27,125,957	8.4	2	81	25	2	48	23	1	35	
North Carolina	31	1.0	6	22	2	1	1,780,321	0.6	-	1	8	2	9	3	-	9	
North Dakota	29	0.9	-	24	3	2	2,252,434	0.7	-	5	6	3	3	4	-	13	
Ohio	100	3.1	13	72	3	12	3,932,215	1.2	1	5	10	3	28	15	3	41	
Oklahoma	78	2.4	1	56	10	11	7,142,684	2.2	3	4	10	10	19	7	4	28	
Oregon	53	1.6	3	37	-	13	2,151,041	0.7	-	-	8	-	19	2	-	24	
Pennsylvania	94	2.9	9	66	2	17	3,709,865	1.1	1	-	14	2	23	20	2	33	
Rhode Island	2	0.1	-	-	-	2	32,000	0.0	-	-	-	-	-	1	-	1	
South Carolina	29	0.9	4	20	5	-	3,219,378	1.0	1	4	2	5	10	6	-	6	
South Dakota	15	0.5	-	13	1	1	1,351,494	0.4	-	1	2	1	3	1	-	8	
Tennessee	65	2.0	1	52	1	11	3,173,114	1.0	-	7	7	1	12	20	3	22	
Texas	399	12.3	18	275	36	70	44,057,363	13.7	5	57	35	36	136	51	7	134	
Utah	36	1.1	2	31	-	3	7,909,218	2.5	-	25	7	-	16	3	-	10	
Vermont	7	0.2	-	7	-	-	1,742,046	0.5	-	-	-	-	-	2	-	5	
Virginia	36	1.1	1	30	1	4	2,196,910	0.7	-	-	8	1	13	3	-	11	
Washington	54	1.7	3	39	1	11	3,873,695	1.2	2	5	7	1	20	6	-	20	
West Virginia	24	0.7	4	18	1	1	3,042,870	0.9	-	1	3	1	5	5	-	10	
Wisconsin	64	2.0	2	38	8	16	4,513,997	1.4	2	6	12	8	18	8	1	17	
Wyoming	53	1.6	2	36	1	14	12,520,059	3.9	1	2	12	1	16	11	-	13	
Total	3,240	100	220	2,234	217	569	322,755,158	100.0	56	447	427	217	1,035	398	42	1,121	

TABLE 5-3 TRAIN ACCIDENTS BY MONTH, TYPE AND MAJOR CAUSE,, 2001

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
January	292	9.0	17	209	21	45	23,606,457	7.3	3	19	33	21	87	36	3	112	
February	281	8.7	14	201	24	42	25,285,034	7.8	6	59	46	24	72	29	5	105	
March	287	8.9	21	205	15	46	28,826,835	8.9	2	64	32	15	103	38	5	94	
April	254	7.8	19	179	14	42	23,513,608	7.3	-	27	33	14	86	35	4	82	
May	266	8.2	17	183	15	51	22,063,038	6.8	6	32	36	15	86	37	4	88	
June	266	8.2	21	179	14	52	22,729,632	7.0	3	36	33	14	82	38	2	97	
July	298	9.2	16	220	16	46	38,818,646	12.0	8	39	44	16	78	33	6	121	
August	309	9.5	22	215	20	52	28,671,946	8.9	6	24	49	20	97	33	5	105	
September	256	7.9	16	158	18	64	41,344,869	12.8	2	82	28	18	92	32	3	83	
October	250	7.7	18	173	23	36	14,283,809	4.4	2	20	34	23	76	34	1	82	
November	230	7.1	21	146	18	45	17,466,226	5.4	7	26	24	18	93	24	2	69	
December	251	7.7	18	166	19	48	36,145,058	11.2	11	19	35	19	83	29	2	83	
Total	3,240	100	220	2,234	217	569	322,755,158	100.0	56	447	427	217	1,035	398	42	1,121	

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-4 TRAIN ACCIDENTS BY DAY, TYPE AND MAJOR CAUSE, 2001

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Sunday	414	12.8	25	303	14	72	56,014,705	17.4	5	34	48	14	145	53	7	147
Monday	485	15.0	29	343	39	74	39,629,363	12.3	4	85	54	39	147	51	4	190
Tuesday	488	15.1	34	327	32	95	57,922,481	17.9	5	68	65	32	145	61	5	180
Wednesday	490	15.1	35	332	35	88	44,727,760	13.9	16	69	60	35	170	59	5	161
Thursday	450	13.9	37	315	30	68	46,286,224	14.3	6	76	65	30	132	53	9	161
Friday	504	15.6	35	337	38	94	41,809,269	13.0	12	43	67	38	165	76	2	156
Saturday	409	12.6	25	277	29	78	36,365,356	11.3	8	72	68	29	131	45	10	126
Total	3,240	100	220	2,234	217	569	322,755,158	100.0	56	447	427	217	1,035	398	42	1,121

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-5 TRAIN ACCIDENTS BY TIME OF DAY, TYPE AND MAJOR CAUSE,2001

Time	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
AM 1	129	4.0	8	89	7	25	15,809,941	4.9	5	25	20	7	48	16	4	34
2	135	4.2	11	104	1	19	11,777,926	3.6	-	-	16	1	48	14	2	54
3	117	3.6	11	87	2	17	12,179,276	3.8	1	5	18	2	45	12	1	39
4	132	4.1	8	96	3	25	17,531,018	5.4	-	5	19	3	51	19	5	35
5	125	3.9	10	83	3	29	25,354,979	7.9	2	36	22	3	46	15	2	37
6	116	3.6	8	83	8	17	9,738,220	3.0	2	10	19	8	30	15	-	44
7	88	2.7	6	50	11	21	5,845,689	1.8	2	13	19	11	23	6	1	28
8	138	4.3	9	88	18	23	28,281,259	8.8	3	37	21	18	34	9	4	52
9	158	4.9	12	103	16	27	13,449,426	4.2	4	33	21	16	48	18	3	52
10	146	4.5	15	86	19	26	12,461,770	3.9	6	17	11	19	44	15	4	53
11	142	4.4	7	98	12	25	8,728,010	2.7	1	51	17	12	52	17	1	43
12	115	3.5	14	74	3	24	11,441,011	3.5	-	13	9	3	45	20	2	36
Sub	1,541	47.6	119	1,041	103	278	172,598,525	53.5	26	245	212	103	514	176	29	507
PM 1	153	4.7	6	108	13	26	9,941,126	3.1	1	7	19	13	38	26	1	56
2	150	4.6	11	102	15	22	15,714,731	4.9	4	13	20	15	38	20	-	57
3	153	4.7	9	113	14	17	16,424,480	5.1	9	30	26	14	36	13	-	64
4	161	5.0	7	116	15	23	16,785,754	5.2	-	35	19	15	41	21	-	65
5	152	4.7	14	105	11	22	9,697,083	3.0	1	14	21	11	47	18	-	55
6	143	4.4	9	107	8	19	12,231,122	3.8	4	13	12	8	53	17	2	51
7	151	4.7	7	96	10	38	10,159,026	3.1	3	14	16	10	50	24	4	47
8	133	4.1	10	88	8	27	12,510,655	3.9	2	10	21	8	47	11	-	46
9	111	3.4	4	76	4	27	11,760,722	3.6	-	1	16	4	40	15	2	34
10	130	4.0	5	95	3	27	10,063,854	3.1	-	4	16	3	44	22	3	42
11	126	3.9	11	89	4	22	17,005,753	5.3	3	57	13	4	45	15	1	48
12	136	4.2	8	98	9	21	7,862,327	2.4	3	4	16	9	42	20	-	49
Sub	1,699	52.4	101	1,193	114	291	150,156,633	46.5	30	202	215	114	521	222	13	614
Total	3,240	100	220	2,234	217	569	322,755,158	100	56	447	427	217	1035	398	42	1121

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-6 TRAIN ACCIDENTS BY TYPE AND MAJOR CAUSE, 2001

Type Accident	Total		Reportable Damage		Casualties		Causes						
	Cnt	%	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Derailments	2,234	69.0	236,572,759	73.3	1	113	316	-	560	252	28	1,078	
Head on collision	9	0.3	5,710,837	1.8	3	11	-	-	7	2	-	-	
Rear end collision	34	1.0	17,079,701	5.3	1	65	1	-	30	2	-	1	
Side collision	117	3.6	17,945,607	5.6	-	65	1	-	102	12	-	2	
Raking collision	45	1.4	1,227,418	0.4	-	3	5	-	26	10	2	2	
Broken train coll.	15	0.5	621,336	0.2	-	1	1	-	9	5	-	-	
Highway-rail Impact	217	6.7	8,289,748	2.6	50	137	-	217	-	-	-	-	
Obstruction impact	74	2.3	4,125,647	1.3	1	5	9	-	14	47	1	3	
Explosion/detonation	2	0.1	16,948,000	5.3	-	16	-	-	-	1	-	1	
Fire/violent rupture	32	1.0	1,723,456	0.5	-	5	22	-	-	10	-	-	
Other impacts	320	9.9	8,415,810	2.6	-	22	18	-	242	40	11	9	
Other events	141	4.4	4,094,839	1.3	-	4	54	-	45	17	-	25	
Total	3,240	100	322,755,158	100	56	447	427	217	1,035	398	42	1,121	

EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track, HRC =highway-rail crossing

TABLE 5-7 TRAIN ACCIDENTS BY SUBCAUSE AND TYPE, 2001

Causes	Total		Type of Accident				Reportable Damage		Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal
Brakes	35	1.1	2	24	-	9	1,395,066	0.4	-	-
Trailer/Container on Flatcar	1	0.0	-	1	-	-	73,600	0.0	-	-
Body	30	0.9	2	23	-	5	2,521,297	0.8	-	1
Coupler & Draft System	53	1.6	2	38	-	13	2,098,636	0.7	-	-
Truck Components	66	2.0	1	64	-	1	16,479,978	5.1	-	2
Axles & Journal Bearings	64	2.0	-	60	-	4	15,639,089	4.8	-	-
Wheels	85	2.6	-	84	-	1	13,622,883	4.2	-	-
Locomotives	67	2.1	1	10	-	56	3,860,795	1.2	-	2
Doors	10	0.3	-	7	-	3	774,170	0.2	-	-
Other Mechanical	16	0.5	-	5	-	11	502,957	0.2	-	2
Brakes, Use of	127	3.9	20	41	-	66	5,198,425	1.6	-	4
Employee Physical Condition	6	0.2	4	-	-	2	1,445,481	0.4	-	30
Flagging, Fixed, Hand & Radio	44	1.4	18	12	-	14	24,514,191	7.6	1	83
General Switching Rules	333	10.3	58	143	-	132	12,774,422	4.0	-	12
Main Track Authority	45	1.4	21	6	-	18	2,355,916	0.7	-	18
Train Handling/Makeup	146	4.5	5	132	-	9	8,800,039	2.7	-	1
Speed	75	2.3	18	31	-	26	5,277,634	1.6	-	12
Switches, Use of	225	6.9	23	179	-	23	11,436,335	3.5	1	7
Cab Signals	1	0.0	-	1	-	-	153,268	0.0	-	-
Miscellaneous Human Factors	33	1.0	7	15	-	11	2,085,727	0.6	-	3
Environmental Conditions	35	1.1	1	26	-	8	2,676,217	0.8	-	18
Loading Procedures	51	1.6	4	44	-	3	4,674,601	1.4	-	1
Highway-Rail Incidents	217	6.7	-	-	217	-	8,289,748	2.6	50	137
Unusual Operational Situations	183	5.6	15	102	-	66	13,058,350	4.0	1	8
Other Miscellaneous Causes	129	4.0	11	80	-	38	35,015,017	10.8	2	42
Signal Defects	42	1.3	2	28	-	12	1,360,955	0.4	-	-
Roadbed	45	1.4	-	43	-	2	15,023,573	4.7	-	3
Track Geometry	445	13.7	2	439	-	4	35,866,007	11.1	-	5
Rail, Joint Bar & Anchors	345	10.6	1	343	-	1	64,224,006	19.9	1	56
Frogs, Switches, Appliances	251	7.7	2	242	-	7	10,258,579	3.2	-	-
Other Track Defects	35	1.1	-	11	-	24	1,298,196	0.4	-	-
Total	3,240	100	220	2,234	217	569	322,755,158	100.0	56	447

EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track, HRC =highway-rail crossing

TABLE 5-8 TRAIN ACCIDENTS WITH CONTRIBUTING CAUSE, 2001

Contributing Cause	Total		Type of Accident				Type of Track				
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry	Other
Brakes	2	0.4	1	1	-	-	1	-	-	1	-
Body	2	0.4	-	2	-	-	1	1	-	-	-
Coupler & Draft System	2	0.4	-	2	-	-	1	1	-	-	-
Truck Components	11	2.4	-	11	-	-	8	-	2	-	1
Axles & Journal Bearings	4	0.9	-	4	-	-	4	-	-	-	-
Wheels	19	4.1	-	19	-	-	6	9	-	4	-
Locomotives	2	0.4	-	1	-	1	1	-	1	-	-
Doors	3	0.6	-	2	-	1	2	-	-	1	-
Other Mechanical	2	0.4	-	1	-	1	1	-	-	1	-
Brakes, Use of	7	1.5	-	2	-	5	-	5	1	1	-
Employee Physical Condition	4	0.9	2	2	-	-	2	1	-	1	-
Flagging, Fixed, Hand & Radio	11	2.4	5	5	-	1	3	2	2	4	-
General Switching Rules	56	12.0	10	23	-	23	7	39	4	6	-
Main Track Authority	11	2.4	6	1	-	4	3	5	-	3	-
Train Handling/Makeup	27	5.8	2	24	-	1	11	12	1	1	2
Speed	23	4.9	2	12	1	8	12	7	1	3	-
Switches, Use of	31	6.7	-	25	-	6	8	17	1	4	1
Miscellaneous Human Factors	8	1.7	3	3	1	1	3	5	-	-	-
Environmental Conditions	17	3.6	1	13	-	3	6	9	1	1	-
Loading Procedures	11	2.4	1	10	-	-	7	3	-	1	-
Highway-Rail Incidents	18	3.9	-	-	18	-	18	-	-	-	-
Unusual Operational Situations	13	2.8	-	9	1	3	6	5	-	2	-
Other Miscellaneous Causes	19	4.1	2	13	-	4	7	3	-	9	-
Signal Defects	2	0.4	-	1	-	1	1	1	-	-	-
Roadbed	21	4.5	-	21	-	-	5	10	3	3	-
Track Geometry	71	15.2	-	69	-	2	36	25	2	8	-
Rail, Joint Bar & Anchors	34	7.3	-	33	-	1	15	8	2	8	1
Frogs, Switches, Appliances	31	6.7	-	30	-	1	9	19	-	3	-
Other Track Defects	4	0.9	-	1	-	3	4	-	-	-	-
Total	466	100	35	340	21	70	188	187	21	65	5

EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track, HRC =highway-rail crossing

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2001

MAJOR CAUSE= Human Factors

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Bottling the Air	4	0.1	1	1	2	1	1	2	854,762	-	-
Failure to secure engine- rr empl	12	0.4	3	3	6	3	8	1	640,414	-	-
Fail to secure car hnd brk -rr emp	48	1.5	3	14	31	5	34	9	1,417,502	-	-
Fail to release hand brk - rr emp	5	0.2	-	3	2	-	4	1	138,863	-	-
Fail to apply suff. hand brakes -rr emp	34	1.0	11	12	11	1	29	4	1,008,506	-	1
Fail to apply car hnd brks -rr emp	9	0.3	1	2	6	-	7	2	421,003	-	-
Fail to secure equip - not rr emp	5	0.2	1	1	3	-	3	2	269,915	-	3
Fail to ctrl car spd use hnd brk-r emp	5	0.2	-	2	3	1	3	1	168,214	-	-
Use of brakes, other	5	0.2	-	3	2	2	3	-	279,246	-	-
Employee asleep	6	0.2	4	-	2	2	3	1	1,445,481	-	30
Fixed signal, failure to comply	7	0.2	2	2	3	5	2	-	2,061,530	-	8
Hand signal, failure to comply	3	0.1	-	-	3	1	2	-	64,836	-	-
Hand signal, failure to give/receive	1	0.0	1	-	-	-	1	-	155,000	-	-
Radio communication, failure to comply	9	0.3	2	6	1	3	5	1	228,524	-	1
Radio communication, improper	5	0.2	2	1	2	1	3	1	129,932	-	-
Radio comm., failure to give/receive	4	0.1	1	1	2	1	1	2	199,449	-	-
Block signal, failure to comply	8	0.2	6	-	2	8	-	-	19,516,147	1	30
Interlocking signal, failure to comply	6	0.2	4	1	1	6	-	-	2,139,910	-	44
Fail to obs hand sig at wayside insp	1	0.0	-	1	-	1	-	-	18,863	-	-
Car(s) shoved out & left out of clear	9	0.3	2	1	6	-	5	4	224,789	-	1
Cars left foul	47	1.5	10	4	33	-	45	2	1,635,822	-	1
Derail, failure to apply or remove	28	0.9	-	27	1	2	18	8	1,067,603	-	-
Instruction to trn/yd crew improper	13	0.4	4	5	4	2	11	-	594,481	-	-
Shoving movement, absence of man	111	3.4	26	53	32	3	83	25	3,883,037	-	7
Shoving movement, failure to control	33	1.0	8	7	18	5	23	5	3,333,039	-	3
Skate, failure to remove or place	3	0.1	-	1	2	-	3	-	99,890	-	-
Failure to stretch cars before shoving	3	0.1	-	-	3	-	3	-	95,212	-	-
Failure to couple	15	0.5	-	4	11	-	14	1	287,332	-	-
Moving cars-load ramp,etc, not in pos	2	0.1	-	1	1	-	1	1	66,930	-	-
Passed couplers	36	1.1	1	25	10	-	36	-	818,844	-	-
Retarder, improper manual operation	7	0.2	3	3	1	-	7	-	154,085	-	-
Retarder yard skate improperly applied	1	0.0	1	-	-	-	-	1	22,006	-	-
Portable derail, improperly applied	1	0.0	-	1	-	-	-	1	41,000	-	-
Other general switching rules	24	0.7	3	11	10	3	17	4	450,352	-	-
Failure to stop train in clear	15	0.5	9	2	4	3	9	3	466,423	-	1
Motor car/on-trk rules, fail to comply	16	0.5	4	2	10	12	3	1	967,991	-	15
Movement without authority - rr emp	2	0.1	1	-	1	2	-	-	29,839	-	-
Fail to comply with trn order, etc.	4	0.1	3	-	1	3	1	-	370,863	-	2
Other main track authority causes	8	0.2	4	2	2	4	3	1	520,800	-	-
Buff/slack action excess, trn handling	54	1.7	3	47	4	14	34	6	3,458,388	-	-
Buff/slack action excess, trn make-up	9	0.3	-	9	-	3	6	-	355,166	-	-
Lat DB force on curve excess trn hndng	9	0.3	-	9	-	2	5	2	552,777	-	-
Lat DB force on curve excess, make-up	4	0.1	-	4	-	1	2	1	64,657	-	-
Lat drawbar force-short/long car combo	12	0.4	-	12	-	-	10	2	168,637	-	-
Improper train make-up	2	0.1	-	2	-	1	1	-	55,790	-	-
Improper train inspection	3	0.1	1	2	-	3	-	-	600,621	-	-
Automatic brake, insufficient	1	0.0	-	1	-	-	-	1	31,822	-	-
Automatic brake, other improper use	3	0.1	-	3	-	1	1	1	183,965	-	-
Fail to allow air brks to release	3	0.1	-	3	-	1	2	-	150,702	-	-
Dynamic brake, excessive	2	0.1	-	2	-	1	1	-	405,192	-	-
Dynamic brake, too rapid adjustment	2	0.1	-	2	-	2	-	-	242,282	-	-
Dynamic brake, excessive axles	1	0.0	-	1	-	1	-	-	524,839	-	-
Dynamic brake, other improper use	1	0.0	-	1	-	-	1	-	151,101	-	-
Throttle (power), improper use	9	0.3	-	8	1	4	5	-	412,404	-	-
Throttle (power), too rapid adjustment	1	0.0	-	1	-	-	1	-	43,764	-	-
Excessive horsepower	9	0.3	1	8	-	2	6	1	413,060	-	1
Independent brake, improper use	12	0.4	-	12	-	5	6	1	586,710	-	-

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2001

MAJOR CAUSE= Human Factors

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Failure to actuate off independent brk	2	0.1	-	2	-	2	-	-	263,242	-	-
Other train handling/makeup	7	0.2	-	3	4	1	5	1	134,920	-	-
Coupling speed excessive	29	0.9	3	12	14	6	21	2	825,103	-	3
Switch movement, excessive speed	6	0.2	1	4	1	2	4	-	227,799	-	-
Train inside yard limits, excess speed	5	0.2	1	2	2	3	2	-	275,738	-	1
Train outside yd limits, excess speed	1	0.0	-	1	-	1	-	-	15,345	-	-
Failure to comply with restricted speed	24	0.7	9	6	9	12	11	1	2,863,541	-	8
Train outside yd limits(nonblk),exc spd	2	0.1	-	2	-	2	-	-	198,007	-	-
Speed, other	8	0.2	4	4	-	3	4	1	872,101	-	-
Spring Switch not clear before reverse	2	0.1	-	2	-	1	1	-	98,710	-	-
Switch improperly lined	156	4.8	23	113	20	19	116	21	9,018,500	1	7
Switch not latched or locked	25	0.8	-	25	-	3	20	2	863,824	-	-
Switch previously run through	37	1.1	-	34	3	3	30	4	1,384,087	-	-
Use of switches, other	5	0.2	-	5	-	1	3	1	71,214	-	-
Automatic cab signal, fail to comply	1	0.0	-	1	-	-	1	-	153,268	-	-
Tampering - safety/protective device	1	0.0	-	-	1	-	-	1	27,900	-	-
Human factors - track	9	0.3	1	7	1	5	2	2	729,061	-	-
Human factors - signal	1	0.0	-	1	-	-	1	-	18,371	-	-
Human factors -motive power & equipment	6	0.2	3	-	3	3	2	1	220,234	-	3
Other train operation/human factors	16	0.5	3	7	6	6	9	1	1,090,161	-	-
Total	1,035	31.9	174	560	301	194	704	137	74,041,438	2	170

MAJOR CAUSE= Signal Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Block signal displayed false proceed	1	0.0	1	-	-	-	1	-	10,000	-	-
Classyard autocontrol sys switch fail	6	0.2	-	5	1	-	6	-	172,386	-	-
Class yd auto ctrl sys retarder fail	21	0.6	-	12	9	-	21	-	460,269	-	-
Power device interlocking failure	1	0.0	1	-	-	-	-	1	163,581	-	-
Power switch failure	5	0.2	-	5	-	-	4	1	211,511	-	-
Other communication equipment failure	1	0.0	-	-	1	-	1	-	9,084	-	-
Other signal failures	7	0.2	-	6	1	-	7	-	334,124	-	-
Total	42	1.3	2	28	12	-	40	2	1,360,955	-	-

MAJOR CAUSE= Track Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Roadbed settled or soft	29	0.9	-	29	-	9	14	6	3,959,780	-	-
Washout/rain/slide/etc. dmg -track	10	0.3	-	9	1	8	2	-	10,736,038	-	3
Other roadbed defects	6	0.2	-	5	1	2	3	1	327,755	-	-
Cross level of track irregular(joints)	26	0.8	-	26	-	10	10	6	2,909,685	-	2
Cross level track irreg.(not at joints)	39	1.2	1	38	-	23	12	4	3,363,506	-	-
Deviate frm uniform top of rail profile	2	0.1	-	2	-	1	1	-	29,000	-	-
Superelevation improper, excessive,etc.	4	0.1	-	4	-	2	1	1	1,606,448	-	-
Superelevation runoff improper	1	0.0	-	1	-	1	-	-	468,567	-	-
Trk alignmnt irreg-not buckled/sunkink	23	0.7	1	20	2	15	7	1	1,627,447	-	-
Track alignment irreg(buckled/sunkink)	44	1.4	-	44	-	39	3	2	9,392,793	-	-
Wide gage(defective/missing crossties)	231	7.1	-	231	-	45	125	61	9,080,186	-	1
Wide gage(spikes/other rail fasteners)	33	1.0	-	31	2	9	16	8	4,208,209	-	1
Wide gage(loose,broke, etc, gage rods)	6	0.2	-	6	-	-	4	2	1,015,450	-	-
Wide gage (due to worn rails)	21	0.6	-	21	-	4	9	8	933,534	-	-

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2001

MAJOR CAUSE= Track Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Other track geometry defects	15	0.5	-	15	-	6	8	1	1,231,182	-	1
Bolt hole crack or break	11	0.3	-	11	-	4	6	1	5,877,329	-	-
Broken base of rail	36	1.1	-	36	-	11	16	9	4,269,293	-	-
Broken weld (plant)	2	0.1	-	2	-	2	-	-	81,650	-	-
Broken weld (field)	6	0.2	-	6	-	4	1	1	1,076,745	-	-
Defective or missing crossties	17	0.5	-	17	-	3	13	1	1,177,867	-	-
Defect/missing spike-oth rail fastener	2	0.1	-	2	-	1	1	-	524,330	-	-
Detail fracture - shelling/head check	44	1.4	-	44	-	25	15	4	11,033,546	-	-
Head and web sep(outside jt bar limit)	28	0.9	-	28	-	11	14	3	2,901,133	-	-
Head & web separation-in jt bar limit	3	0.1	-	3	-	2	1	-	3,790,299	-	-
Horizontal split head	14	0.4	-	14	-	5	8	1	2,454,670	-	2
Joint bar broken (compromise)	2	0.1	-	2	-	2	-	-	423,567	-	-
Joint bar broken (insulated)	2	0.1	-	2	-	2	-	-	1,191,664	-	2
Joint bar broken (noninsulated)	7	0.2	-	7	-	3	3	1	1,258,523	-	-
Joint bolts, broken, or missing	3	0.1	-	3	-	1	-	2	21,382	-	-
Mismatched rail-head contour	9	0.3	-	9	-	1	7	1	747,721	-	-
Transverse/compound fissure	79	2.4	1	78	-	36	31	12	17,455,483	1	52
Vertical split head	56	1.7	-	56	-	23	25	8	6,870,521	-	-
Worn rail	12	0.4	-	12	-	4	4	4	759,972	-	-
Other rail and joint bar defects	12	0.4	-	11	1	2	7	3	2,308,311	-	-
Derail, defective	3	0.1	-	3	-	1	1	1	79,036	-	-
Guard rail loose/broken or mislocated	4	0.1	-	4	-	2	2	-	103,678	-	-
Retarder worn, broken, malfunctioning	10	0.3	2	3	5	-	10	-	328,528	-	-
Spring/power swtch mech. malfunction	5	0.2	-	4	1	2	3	-	296,859	-	-
Stock rail worn, broken, disconnected	7	0.2	-	7	-	1	6	-	272,711	-	-
Switch (hand op) stand mechanism defect	10	0.3	-	10	-	1	7	2	332,937	-	-
Swtch connect/operate rod broke/defect	4	0.1	-	4	-	-	2	2	109,169	-	-
Switch damaged or out of adjustment	33	1.0	-	32	1	5	23	5	1,474,968	-	-
Switch lug/crank broken	2	0.1	-	2	-	1	-	1	106,750	-	-
Switch out of adj. insuff. anchoring	3	0.1	-	3	-	-	2	1	45,081	-	-
Switch point worn or broken	101	3.1	-	101	-	17	69	15	4,153,739	-	-
Switch rod worn, bent, broken, etc.	4	0.1	-	4	-	3	1	-	143,232	-	-
Turnout frog (rigid) worn, or broken	4	0.1	-	4	-	1	3	-	85,907	-	-
Turnout frog(self guarded)-worn/broken	1	0.0	-	1	-	-	1	-	9,151	-	-
Turnout frog (spring) worn, or broken	3	0.1	-	3	-	1	1	1	99,445	-	-
Switch pt gap(btw swt pt & stock rail)	42	1.3	-	42	-	3	29	10	1,694,150	-	-
Oth frog, switch, trk appliance defect	15	0.5	-	15	-	2	9	4	923,238	-	-
Bridge misalignment or failure	3	0.1	-	3	-	3	-	-	185,604	-	-
Flangeway clogged	3	0.1	-	3	-	-	-	3	47,666	-	-
Engineering design or construction	2	0.1	-	2	-	-	1	1	87,117	-	-
Other way and structure defect	27	0.8	-	3	24	24	2	1	977,809	-	-
Total	1,121	34.6	5	1,078	38	383	539	199	126,670,361	1	64

MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Air hose uncoupled or burst	2	0.1	-	2	-	1	1	-	84,396	-	-
Oth brk component dmg,worn,broke,etc.	3	0.1	-	2	1	1	1	1	83,816	-	-
Brk valve malf. (undesired emergency)	1	0.0	-	-	1	1	-	-	7,000	-	-
Brake valve malf. (stuck brake, etc.)	7	0.2	-	6	1	5	1	1	345,641	-	-
Brk valve malf.(stuck brk, etc.)-loco	1	0.0	1	-	-	-	1	-	150,098	-	-
Rigging down or dragging	10	0.3	-	9	1	5	5	-	452,777	-	-
Hand brk broken or defective	3	0.1	-	1	2	-	2	1	65,070	-	-
Other brake defects, cars	5	0.2	1	2	2	2	2	1	136,512	-	-

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2001

MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Hnd brk link and/or connect defect	2	0.1	-	1	1	-	2	-	51,756	-	-
Hnd brk linkage/connect defect-loco	1	0.0	-	1	-	-	-	1	18,000	-	-
Broken or defective container	1	0.0	-	1	-	1	-	-	73,600	-	-
Center sill broken or bent	7	0.2	1	5	1	6	1	-	144,683	-	-
Draft sill broken or bent	2	0.1	-	2	-	2	-	-	18,200	-	-
Center plate broken or defective	5	0.2	-	5	-	3	2	-	1,158,665	-	-
Ctr plate disengaged from truck	3	0.1	-	3	-	2	1	-	833,423	-	-
Center pin broken or missing	1	0.0	-	-	1	-	1	-	21,136	-	-
Center plate attachment defective	1	0.0	-	1	-	-	-	1	90,658	-	1
Side sill broken	3	0.1	-	3	-	3	-	-	67,842	-	-
Other body defects, (CAR)	8	0.2	1	4	3	2	5	1	186,690	-	-
Knuckle broken or defective	9	0.3	1	3	5	2	7	-	544,565	-	-
Coupler mismatch, high/low	3	0.1	-	2	1	-	3	-	51,629	-	-
Coupler drawhead broken or defective	1	0.0	-	-	1	1	-	-	8,723	-	-
Coupler retainer pin/cross key missing	10	0.3	-	9	1	9	1	-	507,043	-	-
Draft gear/mechanism broke/defective	3	0.1	-	2	1	1	1	1	256,715	-	-
Coupler carrier broken or defective	2	0.1	-	2	-	2	-	-	291,783	-	-
Oth coupler/draft system defects-car	25	0.8	1	20	4	2	22	1	438,178	-	-
Side bearing clearance insufficient	10	0.3	1	9	-	5	3	2	833,910	-	-
Side bearing clearance excessive	4	0.1	-	4	-	4	-	-	1,091,667	-	-
Side bearing(s) broken	2	0.1	-	2	-	2	-	-	24,198	-	-
Truck bolster broken	3	0.1	-	2	1	3	-	-	304,524	-	-
Side frame broken	2	0.1	-	2	-	1	1	-	1,343,346	-	-
Truck bolster stiff	25	0.8	-	25	-	16	7	2	4,130,468	-	2
Truck bolster stiff (LOCO)	1	0.0	-	1	-	-	1	-	10,158	-	-
Defective snubbing	3	0.1	-	3	-	3	-	-	1,716,413	-	-
Other truck component defects, (CAR)	5	0.2	-	5	-	4	1	-	3,435,033	-	-
Other truck component defects, (LOCO)	1	0.0	-	1	-	1	-	-	40,247	-	-
Truck hunting	10	0.3	-	10	-	10	-	-	3,550,014	-	-
Broken/bent axle between wheel seats	4	0.1	-	4	-	4	-	-	1,483,073	-	-
Broke/bent axle btwn wheel seats-loco	1	0.0	-	1	-	1	-	-	24,000	-	-
Journal (plain) failure from overheat	7	0.2	-	6	1	7	-	-	810,994	-	-
Journal (roller bearing) overheating	46	1.4	-	43	3	43	-	3	12,632,153	-	-
Journal fractured, new cold break	3	0.1	-	3	-	3	-	-	597,269	-	-
Oth axle/journal bearing defect-car	3	0.1	-	3	-	3	-	-	91,600	-	-
Broken flange	11	0.3	-	11	-	9	1	1	2,271,556	-	-
Broken flange (LOCOMOTIVE)	1	0.0	-	1	-	1	-	-	7,762	-	-
Broken rim	10	0.3	-	10	-	10	-	-	1,529,334	-	-
Broken plate	7	0.2	-	6	1	7	-	-	931,640	-	-
Broken plate (LOCOMOTIVE)	-	-	-	-	-	-	-	-	250,000	-	-
Worn Flange	16	0.5	-	16	-	5	8	3	1,069,111	-	-
Worn flange (LOCOMOTIVE)	5	0.2	-	5	-	-	5	-	120,472	-	-
Damaged flange or tread (flat)	2	0.1	-	2	-	1	-	1	69,500	-	-
Damaged flange or tread (build up)	14	0.4	-	14	-	10	4	-	2,675,240	-	-
Loose wheel	5	0.2	-	5	-	4	1	-	677,241	-	-
Other wheel defects (CAR)	10	0.3	-	10	-	7	3	-	3,767,745	-	-
Other wheel defects (LOCOMOTIVE)	3	0.1	-	3	-	1	2	-	226,944	-	-
Thermal crack, flange or tread (LOCO)	1	0.0	-	1	-	-	-	1	26,338	-	-
Running gear failure (LOCOMOTIVE)	1	0.0	-	-	1	1	-	-	797,846	-	-
Traction motor failure (LOCOMOTIVE)	5	0.2	-	4	1	4	-	1	150,301	-	-
Crank case or air box explosion (LOCO)	1	0.0	-	-	1	1	-	-	12,000	-	-
Oil or fuel fire (LOCOMOTIVE)	5	0.2	-	-	5	5	-	-	648,131	-	-
Electrically caused fire (LOCOMOTIVE)	13	0.4	-	-	13	10	2	1	640,052	-	1
Current collector system (LOCOMOTIVE)	21	0.6	-	-	21	20	1	-	890,129	-	1
Other locomotive defects	21	0.6	1	6	14	16	3	2	722,336	-	-
Box car plug door open	2	0.1	-	-	2	2	-	-	42,213	-	-
Box car door, other than plug, open	1	0.0	-	1	-	1	-	-	7,032	-	-

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2001

MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Bottom outlet car door open	5	0.2	-	4	1	3	1	1	685,702	-	-
Bottom outlet door attachment defect	2	0.1	-	2	-	1	1	-	39,223	-	-
Other mechanical/electrical failures	10	0.3	-	3	7	9	1	-	326,667	-	2
Other mechanical/electrical fail(LOCO)	6	0.2	-	2	4	6	-	-	176,290	-	-
Total	427	13.2	8	316	103	295	105	27	56,968,471	-	7

MAJOR CAUSE= Miscellaneous

Causes	Total		Type of Accident				Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Other		Kld	Nonfatal
Snow,ice,mud,gravel,coal,etc. on trk	21	0.6	-	19	-	2	9	6	6	828,043	-	2
Extreme environmental - TORNADO	4	0.1	-	1	-	3	2	2	-	306,259	-	-
Extreme environmental - FLOOD	1	0.0	-	1	-	-	1	-	-	214,131	-	16
Extreme wind velocity	5	0.2	-	4	-	1	5	-	-	1,228,246	-	-
Other extreme environmental conditions	4	0.1	1	1	-	2	2	2	-	99,538	-	-
Load shifted	10	0.3	-	10	-	-	4	3	3	1,220,020	-	-
Load fell from car	1	0.0	-	1	-	-	1	-	-	47,427	-	-
Overloaded car	5	0.2	-	5	-	-	2	2	1	246,817	-	-
Improperly loaded car	23	0.7	3	19	-	1	11	4	8	889,649	-	-
Improperly loaded contain/trail on car	5	0.2	1	4	-	-	3	1	1	1,973,610	-	-
Miscellaneous loading procedures	7	0.2	-	5	-	2	4	1	2	297,078	-	1
Hwy user impairment-drug/alcohol use	2	0.1	-	-	2	-	2	-	-	28,999	-	2
Highway user inattentiveness	92	2.8	-	-	92	-	90	-	2	4,673,196	28	60
Hwy user misjudgement	23	0.7	-	-	23	-	23	-	-	1,042,550	5	7
Highway user cited for violation	19	0.6	-	-	19	-	19	-	-	537,761	2	16
Highway user unable to stop, weather	1	0.0	-	-	1	-	1	-	-	11,379	-	1
Malf.,improper op. of trn act. warning	1	0.0	-	-	1	-	1	-	-	21,116	2	3
Other causes (highway-rail collisions)	79	2.4	-	-	79	-	77	1	1	1,974,747	13	48
Emergency brke appl. to avoid accident	4	0.1	-	4	-	-	3	-	1	405,867	-	-
Object/equipment (mtr veh) on track	15	0.5	-	1	-	14	13	1	1	270,523	1	-
Livestock on track	2	0.1	-	-	-	2	2	-	-	28,571	-	-
Obj/equip on/fouling track, other	27	0.8	2	7	-	18	15	10	2	2,041,211	-	2
Harmonic rock off, etc.	72	2.2	1	69	-	2	21	44	7	7,010,745	-	-
Fire, other than vandalism	8	0.2	-	-	-	8	8	-	-	388,765	-	1
Auto hump retarder failed to slow car	33	1.0	9	10	-	14	-	33	-	792,115	-	-
Yard skate slid and failed to stop car	18	0.6	3	7	-	8	-	18	-	385,072	-	-
Lading chains/straps fouling switches	4	0.1	-	4	-	-	2	2	-	1,735,481	-	5
Interference(not vandals)with RR op.	16	0.5	1	11	-	4	3	3	10	18,856,145	-	36
Vandalism of on-track equipment	19	0.6	2	11	-	6	7	9	3	778,443	-	-
Vandalism of track or track appliances	36	1.1	1	26	-	9	16	18	2	3,268,906	-	1
Fail by non-rr empto control spd of car	14	0.4	1	8	-	5	-	1	13	209,008	-	1
Cause under investigation	5	0.2	1	3	-	1	3	2	-	7,348,041	2	2
Other miscellaneous causes	39	1.2	5	21	-	13	16	19	4	4,554,474	-	2
Total	615	19.0	31	252	217	115	366	182	67	63,713,933	53	206

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-10 TRAIN ACCIDENTS BY TYPE TRACK AND CLASS, 2001

Track & Class		Total		Type of Accident				Reportable Damage	Casualties		Causes						
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Main	1	184	5.7	11	148	3	22	14,101,607	1	7	20	3	48	25	-	88	
	2	201	6.2	7	169	8	17	27,151,550	2	8	38	8	34	24	-	97	
	3	231	7.1	12	147	33	39	57,197,112	3	51	59	33	33	35	-	71	
	4	449	13.9	19	208	132	90	96,477,391	31	260	127	132	61	48	-	81	
	5	115	3.5	7	52	35	21	48,072,987	19	76	39	35	14	15	-	12	
	6	11	0.3	2	-	-	9	144,507	-	-	5	-	-	1	-	5	
	?	16	0.5	-	4	-	12	751,586	-	-	7	-	1	2	-	6	
	X	31	1.0	-	29	2	-	2,061,038	-	5	-	2	3	3	-	23	
	-Sub	1,238	38.2	58	757	213	210	245,957,778	56	407	295	213	194	153	-	383	
Yard	1	1,412	43.6	129	1,017	-	266	49,496,747	-	22	94	-	641	162	34	481	
	2	106	3.3	9	64	-	33	3,509,651	-	7	8	-	43	17	6	32	
	3	6	0.2	-	5	-	1	163,654	-	-	-	-	3	-	-	3	
	4	5	0.2	-	4	1	-	90,059	-	-	1	1	2	-	-	1	
	6	1	0.0	-	1	-	-	26,000	-	-	-	-	-	-	-	1	
	?	1	0.0	-	1	-	-	27,000	-	-	-	-	-	-	-	1	
	X	39	1.2	4	31	-	4	1,053,379	-	-	2	-	15	2	-	20	
	-Sub	1,570	48.5	142	1,123	1	304	54,366,490	-	29	105	1	704	181	40	539	
Siding	1	66	2.0	2	57	-	7	3,517,286	-	-	2	-	23	3	-	38	
	2	20	0.6	1	16	-	3	1,209,153	-	1	4	-	7	5	-	4	
	3	13	0.4	1	10	-	2	1,576,015	-	-	4	-	5	2	-	2	
	4	3	0.1	-	3	-	-	1,212,414	-	1	1	-	-	-	1	1	
	5	1	0.0	-	1	-	-	126,620	-	-	1	-	-	-	-	-	
	X	8	0.2	1	7	-	-	394,096	-	-	-	-	2	1	-	5	
	-Sub	111	3.4	5	94	-	12	8,035,584	-	2	12	-	37	11	1	50	
Industry	1	242	7.5	11	195	1	35	8,156,800	-	6	9	1	76	41	1	114	
	2	15	0.5	3	9	1	2	746,968	-	-	2	1	4	5	-	3	
	3	1	0.0	-	1	-	-	23,860	-	-	-	-	-	-	-	1	
	X	35	1.1	1	30	-	4	1,149,562	-	1	1	-	11	7	-	16	
	-Sub	293	9.0	15	235	2	41	10,077,190	-	7	12	2	91	53	1	134	
Other	?	28	0.9	-	25	1	2	4,318,116	-	2	3	1	9	-	-	15	
	-Sub	28	0.9	-	25	1	2	4,318,116	-	2	3	1	9	-	-	15	
Total		3,240	100	220	2,234	217	569	322,755,158	56	447	427	217	1,035	398	42	1,121	

Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track

TABLE 5-11 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST SPEED, 2001

Track - Spd Rng		Total		Type of Accident				Reportable Damage	Casualties		Causes						
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Main	?	29	0.9	-	4	2	23	18,500,631	2	21	13	2	1	10	-	3	
	1 - 9	249	7.7	10	209	3	27	14,467,330	-	12	36	3	79	20	-	111	
	10-19	245	7.6	17	188	12	28	27,327,871	-	18	41	12	59	39	-	94	
	20-29	177	5.5	11	129	21	16	35,728,242	3	36	47	21	23	17	-	69	
	30-39	149	4.6	7	85	37	20	37,382,368	3	38	41	37	17	17	-	37	
	40-49	183	5.6	7	82	63	31	59,061,425	13	101	58	63	11	12	-	39	
	50-59	98	3.0	3	48	30	17	32,877,850	10	109	35	30	3	17	-	13	
	60-69	52	1.6	1	11	18	22	11,839,336	3	24	12	18	-	13	-	9	
	>= 70	56	1.7	2	1	27	26	8,772,725	22	48	12	27	1	8	-	8	
	-Sub	1,238	38.2	58	757	213	210	245,957,778	56	407	295	213	194	153	-	383	
Yard	?	14	0.4	1	2	-	11	639,690	-	-	3	-	4	6	-	1	
	1 - 9	1,376	42.5	125	996	-	255	44,744,039	-	22	92	-	617	143	35	489	
	10-19	170	5.2	16	118	-	36	8,538,068	-	7	9	-	80	29	5	47	
	20-29	7	0.2	-	5	1	1	128,501	-	-	1	1	2	3	-	-	
	30-39	3	0.1	-	2	-	1	316,192	-	-	-	-	1	-	-	2	
	-Sub	1,570	48.5	142	1,123	1	304	54,366,490	-	29	105	1	704	181	40	539	
Siding	?	1	0.0	-	-	-	1	24,135	-	-	1	-	-	-	-	-	
	1 - 9	77	2.4	3	65	-	9	3,904,760	-	-	3	-	30	5	-	39	
	10-19	20	0.6	1	17	-	2	1,661,827	-	1	1	-	6	5	1	7	
	20-29	13	0.4	1	12	-	-	2,444,862	-	1	7	-	1	1	-	4	
	-Sub	111	3.4	5	94	-	12	8,035,584	-	2	12	-	37	11	1	50	
Industry	?	3	0.1	-	1	-	2	44,192	-	-	-	-	2	1	-	-	
	1 - 9	265	8.2	12	217	2	34	7,798,968	-	1	11	2	81	45	1	125	
	10-19	23	0.7	2	16	-	5	946,667	-	4	1	-	6	7	-	9	
	30-39	1	0.0	1	-	-	-	760,413	-	2	-	-	1	-	-	-	
	40-49	1	0.0	-	1	-	-	526,950	-	-	-	-	1	-	-	-	
	-Sub	293	9.0	15	235	2	41	10,077,190	-	7	12	2	91	53	1	134	
Other	1 - 9	23	0.7	-	21	-	2	1,364,209	-	-	1	-	9	-	-	13	
	10-19	1	0.0	-	1	-	-	34,408	-	-	-	-	-	-	-	1	
	40-49	3	0.1	-	3	-	-	2,906,986	-	-	2	-	-	-	-	1	
	50-59	1	0.0	-	-	1	-	12,513	-	2	-	1	-	-	-	-	
	-Sub	28	0.9	-	25	1	2	4,318,116	-	2	3	1	9	-	-	15	
Total		3,240	100	220	2,234	217	569	322,755,158	56	447	427	217	1,035	398	42	1,121	

Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track

TABLE 5-12 TRAIN ACCIDENTS BY WEATHER CONDITION, 2001

Conditions		Total		Type of Accident				Reportable Damage	Casualties		Causes					
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Dawn	Clear	75	2.3	7	49	3	16	5,133,633	-	2	18	3	26	8	-	20
	Cloudy	34	1.0	1	24	2	7	1,917,004	-	4	8	2	5	4	-	15
	Rain	6	0.2	-	6	-	-	1,148,885	-	-	1	-	-	-	-	5
	Fog	5	0.2	1	3	-	1	2,674,330	-	1	1	-	2	-	-	2
	Snow	1	0.0	-	1	-	-	27,100	-	-	-	-	1	-	-	-
	-- Sub	121	3.7	9	83	5	24	10,900,952	-	7	28	5	34	12	-	42
Day	Clear	1,202	37.1	79	808	122	193	106,055,111	30	196	161	122	335	145	8	431
	Cloudy	347	10.7	20	248	28	51	30,886,480	6	18	39	28	100	36	7	137
	Rain	66	2.0	2	47	5	12	9,604,640	2	5	4	5	21	6	-	30
	Fog	6	0.2	-	4	1	1	140,670	-	1	1	1	1	-	-	3
	Sleet	1	0.0	-	1	-	-	9,462	-	-	-	-	-	-	-	1
	Snow	26	0.8	3	15	4	4	3,430,123	-	42	4	4	8	5	-	5
	-- Sub	1,648	50.9	104	1,123	160	261	150,126,486	38	262	209	160	465	192	15	607
Dusk	Clear	88	2.7	8	55	9	16	5,977,064	3	11	10	9	35	8	2	24
	Cloudy	36	1.1	1	23	-	12	1,600,843	-	3	4	-	13	6	-	13
	Rain	10	0.3	1	7	-	2	416,854	-	-	-	-	2	2	-	6
	Fog	3	0.1	-	3	-	-	623,300	-	-	1	-	1	-	-	1
	Snow	1	0.0	-	1	-	-	32,550	-	-	-	-	-	-	-	1
	-- Sub	138	4.3	10	89	9	30	8,650,611	3	14	15	9	51	16	2	45
Dark	Clear	817	25.2	66	567	27	157	87,665,565	9	125	119	27	310	102	11	248
	Cloudy	332	10.2	18	245	8	61	37,219,005	5	13	35	8	113	44	7	125
	Rain	116	3.6	9	76	4	27	22,212,967	-	22	8	4	40	22	4	38
	Fog	40	1.2	3	26	4	7	3,745,520	1	4	9	4	13	5	1	8
	Sleet	1	0.0	-	1	-	-	17,078	-	-	-	-	-	1	-	-
	Snow	27	0.8	1	24	-	2	2,216,974	-	-	4	-	9	4	2	8
	-- Sub	1,333	41.1	97	939	43	254	153,077,109	15	164	175	43	485	178	25	427
Total		3,240	100	220	2,234	217	569	322,755,158	56	447	427	217	1,035	398	42	1,121

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track*

TABLE 5-13 TRAIN ACCIDENTS BY CONSIST LENGTH, 2001

Length	Consists		Type of Accident				Equipment Damage		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Eqp	HRC	Hmn	Othr	Sig	Trk	
???	1	0.0	-	1	-	-	3,495	0.0	1	-	-	-	-	-	-
1	247	6.7	59	52	6	130	4,387,234	2.1	12	6	152	48	10	19	
2-5	373	10.1	65	159	16	133	7,228,078	3.5	22	16	204	53	13	65	
6-10	346	9.3	37	143	20	146	16,891,719	8.1	57	20	120	45	4	100	
11-15	211	5.7	25	127	14	45	4,173,034	2.0	17	14	89	19	2	70	
16-20	191	5.2	27	113	15	36	10,495,571	5.1	18	15	69	21	-	68	
21-25	154	4.2	19	99	5	31	9,875,242	4.8	6	5	75	18	3	47	
26-30	151	4.1	10	112	3	26	4,442,653	2.1	13	3	50	19	3	63	
31-35	133	3.6	11	94	7	21	4,835,623	2.3	12	7	54	16	1	43	
36-40	137	3.7	7	109	8	13	4,014,305	1.9	11	8	52	12	2	52	
41-45	119	3.2	14	86	4	15	2,946,231	1.4	8	4	50	14	4	39	
46-50	107	2.9	10	76	10	11	3,261,942	1.6	7	10	39	12	1	38	
51-60	195	5.3	13	145	16	21	7,531,917	3.6	17	16	64	20	-	78	
61-70	215	5.8	12	166	7	30	12,582,113	6.1	30	7	59	32	3	84	
71-80	190	5.1	19	137	13	21	12,822,550	6.2	25	13	57	30	2	63	
81-90	171	4.6	14	126	16	15	16,873,552	8.1	31	16	38	17	-	69	
91-100	183	4.9	24	135	9	15	14,744,298	7.1	38	9	62	20	2	52	
101-110	184	5.0	14	138	16	16	18,431,628	8.9	45	16	38	18	-	67	
111-120	177	4.8	12	137	16	12	21,968,416	10.6	32	16	42	17	1	69	
121-130	113	3.1	10	84	9	10	10,002,913	4.8	24	9	27	16	1	36	
131-140	67	1.8	6	52	5	4	16,609,430	8.0	13	5	12	6	-	31	
141-150	16	0.4	1	13	-	2	1,922,129	0.9	3	-	6	1	-	6	
>= 151	22	0.6	2	16	2	2	1,239,798	0.6	6	2	7	4	-	3	
Total	3,703	100	411	2,320	217	755	207,283,871	100.0	448	217	1,366	458	52	1,162	

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
 EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track
 Counts are higher since multiple consists may be involved.*

TABLE 5-14 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST, 2001

Track - Equipment		Consists		Type of Accident					Primary Cause					
		Cnt	%	Avg Len.	Coll	Der	HRC	Othr	Eqp	HRC	Hmn	Othr	Sig	Trk
Main	Freight Train	993	26.8	81	38	656	149	71	224	149	138	97	-	306
	Psgr Train	153	4.1	10	6	15	16	79	41	16	6	26	-	27
	Commuter Train	37	1.0	7	-	2	9	16	6	9	-	6	-	6
	Work Train	6	0.2	19	-	4	1	1	2	1	-	1	-	2
	Single Car	3	0.1	1	-	-	-	-	-	-	-	-	-	-
	Cut of Cars	9	0.2	25	1	2	1	3	1	1	2	3	-	-
	Yard/ Switch	49	1.3	43	2	29	1	5	5	1	9	3	-	19
	Light loco(s)	22	0.6	2	1	7	1	6	-	1	9	1	-	4
	Maint/ Insp car	51	1.4	1	8	6	5	13	5	5	20	2	-	-
	-Sub total	1,323	35.7	64	56	721	183	194	284	183	184	139	-	364
Yard	Freight Train	529	14.3	66	30	386	1	34	23	1	166	42	3	216
	Psgr Train	26	0.7	13	3	15	-	3	3	-	7	1	1	9
	Commuter Train	12	0.3	7	1	7	-	3	1	-	7	-	-	3
	Work Train	10	0.3	41	-	7	-	1	-	-	1	1	-	6
	Single Car	125	3.4	1	13	10	-	46	1	-	34	22	8	4
	Cut of Cars	155	4.2	18	20	30	-	44	5	-	60	20	5	4
	Yard/ Switch	933	25.2	37	62	570	-	141	61	-	354	86	21	251
	Light loco(s)	113	3.1	2	12	49	-	22	5	-	47	5	2	24
	Maint/ Insp car	5	0.1	1	-	1	-	4	1	-	4	-	-	-
	-Sub total	1,908	51.5	39	141	1,075	1	298	100	1	680	177	40	517
Siding	Freight Train	88	2.4	56	3	72	-	7	11	-	22	7	1	41
	Psgr Train	1	0.0	6	-	-	-	1	-	-	1	-	-	-
	Work Train	2	0.1	42	-	2	-	-	-	-	-	-	-	2
	Single Car	1	0.0	1	-	-	-	-	-	-	-	-	-	-
	Cut of Cars	7	0.2	19	1	3	-	1	-	-	2	2	-	1
	Yard/ Switch	13	0.4	47	-	8	-	3	-	-	8	-	-	3
	Light loco(s)	5	0.1	2	-	3	-	-	-	-	1	-	-	2
	Maint/ Insp car	3	0.1	6	1	1	-	-	1	-	-	1	-	-
	-Sub total	120	3.2	48	5	89	-	12	12	-	34	10	1	49
Industry	Freight Train	145	3.9	57	5	116	1	12	5	1	32	30	-	66
	Psgr Train	2	0.1	39	-	2	-	-	-	-	1	-	-	1
	Work Train	1	0.0	21	-	1	-	-	-	-	-	-	-	1
	Single Car	8	0.2	1	2	4	1	-	-	1	2	3	-	1
	Cut of Cars	24	0.6	11	1	6	-	5	-	-	7	4	-	1
	Yard/ Switch	131	3.5	30	6	96	-	21	5	-	40	16	1	61
	Light loco(s)	7	0.2	3	1	5	-	1	-	-	5	-	-	2
	Maint/ Insp car	3	0.1	1	-	-	-	2	1	-	1	-	-	-
	-Sub total	321	8.7	39	15	230	2	41	11	2	88	53	1	133
Other	Freight Train	18	0.5	89	-	15	1	2	3	1	6	-	-	8
	Cut of Cars	2	0.1	48	-	-	-	-	-	-	-	-	-	-
	Yard/ Switch	9	0.2	50	-	8	-	-	-	-	2	-	-	6
	Light loco(s)	2	0.1	3	-	2	-	-	-	-	1	-	-	1
Total		3,703	100	48	217	2,140	187	547	410	187	995	379	42	1,078

*Coll = collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track
Counts are higher since multiple consists may be involved.*

TABLE 5-15 TRAIN ACCIDENTS BY CONSIST LENGTH AND TYPE CONSIST,2001

Length	Freight Train	Psgr Train	Commuter Train	Work Train	Single Car	Cut of Cars	Yard/ Switch	Light loco(s)	Maint/ Insp car
???	-	-	-	-	-	-	-	1	-
1	-	1	-	-	137	-	-	56	53
2-5	29	28	12	5	-	88	124	81	6
6-10	52	95	33	-	-	35	118	11	2
11-15	56	32	4	-	-	10	108	-	1
16-20	65	13	-	-	-	13	100	-	-
21-25	47	5	-	2	-	9	91	-	-
26-30	62	1	-	2	-	8	78	-	-
31-35	61	4	-	3	-	4	61	-	-
36-40	77	1	-	1	-	5	53	-	-
41-45	60	-	-	-	-	3	56	-	-
46-50	54	-	-	1	-	4	48	-	-
51-60	125	1	-	2	-	5	62	-	-
61-70	147	-	-	2	-	2	64	-	-
71-80	146	-	-	1	-	3	40	-	-
81-90	133	-	-	-	-	1	37	-	-
91-100	150	-	-	-	-	2	31	-	-
101-110	152	1	-	-	-	2	29	-	-
111-120	161	-	-	-	-	1	15	-	-
121-130	98	-	-	-	-	2	13	-	-
131-140	65	-	-	-	-	-	2	-	-
141-150	14	-	-	-	-	-	2	-	-
>= 151	19	-	-	-	-	-	3	-	-
Total	1,773	182	49	19	137	197	1,135	149	62

*Coll =collision, Der = derailment, HRC = highway-rail crossing, Othr = other
EQP = equipment(ontrack), HMN = human factor, SIG = signal, TRK = track
Counts are higher since multiple consists may be involved.*

TABLE 5-16 INVOLVEMENT IN TRAIN ACCIDENTS BY TYPE CONSIST, 2001

Type Equipment	Total		Type of Accident				Type of Track					Causes						
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry	Other	Eqp	HRC	Hmn	Othr	Sig	Trk	
Freight Train	1,725	48.6	110	1,319	155	141	959	517	87	144	18	278	155	423	189	4	676	
Psgr Train	180	5.1	13	36	40	91	152	25	1	2	-	45	40	20	33	1	41	
Commuter Train	48	1.4	1	10	12	25	36	12	-	-	-	11	12	8	8	-	9	
Work Train	19	0.5	-	16	1	2	6	10	2	1	-	2	1	2	2	-	12	
Single Car	123	3.5	26	21	1	75	3	111	1	8	-	1	1	69	34	9	9	
Cut of Cars	185	5.2	41	57	1	86	9	147	7	20	2	6	1	118	39	8	13	
Yard/ Switch	1,077	30.4	101	756	1	219	48	877	13	130	9	77	1	495	118	28	358	
Light loco(s)	142	4.0	26	72	1	43	22	106	5	7	2	5	1	89	7	2	38	
Maint/ Insp car	49	1.4	12	8	5	24	40	5	2	2	-	8	5	33	3	-	-	
Total	3,548	100	330	2,295	217	706	1,275	1,810	118	314	31	433	217	1,257	433	52	1,156	

If more than one consist of same type in accident, then only one is counted. For example, a collision between two freight trains would be counted as one freight train.

TABLE 5-17 DAMAGE BY TRACK TYPE, 2001

Track	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Main	245,957,778	167,546	159,482,089	108,639	86,475,689	58,907
Yard	54,366,490	27,156	34,102,700	17,034	20,263,790	10,122
Siding	8,035,584	62,778	4,293,498	33,543	3,742,086	29,235
Industry	10,077,190	30,723	7,321,575	22,322	2,755,615	8,401
Other	4,318,116	75,756	2,084,009	36,562	2,234,107	39,195
Total	322,755,158	81,033	207,283,871	52,042	115,471,287	28,991

TABLE 5-18 DAMAGE BY CONSIST TYPE, 2001

Type Equipment	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Freight Train	224,164,581	126,432	147,220,751	83,035	76,943,830	43,398
Psgr Train	22,176,693	121,850	19,322,565	106,168	2,854,128	15,682
Commuter Train	3,192,094	65,145	2,914,382	59,477	277,712	5,668
Work Train	1,432,862	75,414	945,559	49,766	487,303	25,648
Single Car	2,156,334	15,740	2,041,101	14,899	115,233	841
Cut of Cars	20,148,954	102,279	9,930,907	50,411	10,218,047	51,868
Yard/ Switch	32,270,628	28,432	20,429,661	18,000	11,840,967	10,433
Light loco(s)	3,045,295	20,438	2,728,346	18,311	316,949	2,127
Maint/ Insp car	1,937,877	31,256	1,750,599	28,235	187,278	3,021
Other	12,229,840	43,678	0	0	12,229,840	43,678
Total	322,755,158	81,033	207,283,871	52,042	115,471,287	28,991

CHAPTER 6

TRAIN ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIAL

Hazardous Material is any substance or material, including a hazardous substance, which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, or property when transported in commerce, and which has been so designated.

An incident resulting in damage to cars transporting hazardous material, or causing a release of the hazardous material, is not of and by itself a basis for reporting to FRA under the accident/incident rules. First, the incident must satisfy the criteria for train accident reporting described in the previous chapter. Namely, there must be total reportable damage to the rail equipment and track above the threshold. In 1997 the threshold was \$6,500, and in 1998 it was \$6,600.

All evacuations, including precautionary ones, in response to a potential release of hazardous material are required to be reported even if an actual release did not occur.

Additional information concerning any unintentional release of hazardous material during transportation by rail or other modes, is available through the Research and Special Programs Administration within the U. S. Department of Transportation.

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CHAPTER 6

TRAIN ACCIDENTS/INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

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TABLE 6-1 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD, 2001

Railroad	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Alton & Southern	1	1	-	80	1	1	-	-	-
Bangor & Aroostook	2	1	-	99	23	1	-	-	-
Burlington Northern Santa Fe	265	133	9	15,833	2,395	305	19	6	469
Belt Rwy Of Chicago	1	1	-	29	6	3	-	-	-
Conrail Shared Assets	10	10	-	338	60	27	-	-	-
CSX Transportation	94	36	7	5,538	754	73	12	1	50,000
Delaware & Hudson	4	2	-	202	10	5	-	-	-
Duluth, Winnipeg & Pacific	1	-	-	151	18	-	-	-	-
Elgin, Joliet & Eastern	1	1	-	42	2	2	-	-	-
Florida East Coast	1	1	-	8	2	1	-	-	-
Guilford Rail System	2	-	-	75	11	-	-	-	-
Grand Trunk Western RR	6	4	-	353	21	7	-	2	1,438
Gateway Western	7	5	1	239	31	13	1	-	-
Illinois Central	28	19	2	1,932	332	83	5	1	200
Indiana Harbor Belt	3	1	-	132	11	1	-	-	-
I & M Rail Link, LLC	14	7	-	858	68	16	-	-	-
Kansas City Southern	31	19	1	1,784	190	30	1	-	-
Montana Rail Link	10	5	-	548	98	10	-	-	-
Norfolk Southern Corp.	53	25	2	3,119	365	45	4	-	-
Port Terminal RR Assn	10	8	-	268	20	15	-	-	-
Soo Line	5	-	-	350	29	-	-	-	-
Texas Mexican	7	2	-	592	23	3	-	-	-
Term RR Assn Of St. Louis	1	-	-	122	6	-	-	-	-
Econo Rail Corporation	1	1	-	22	3	3	-	-	-
Union Pacific	184	90	8	13,108	2,129	233	12	1	13
Wisconsin Central Ltd.	11	2	-	836	106	3	-	-	-
Wheeling & Lake Erie	2	1	-	98	38	6	-	-	-
Other Railroads	44	26	2	1,379	221	54	3	1	500
Total	799	401	32	48,135	6,973	940	57	12	52,620

TABLE 6-2 CONSISTS TRANSPORTING HAZMAT, BY STATE, 2001

States	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Alabama	23	13	3	1,275	144	32	5	1	500
Arizona	16	6	2	1,141	246	26	5	-	-
Arkansas	15	7	-	791	156	29	-	-	-
California	46	25	1	2,477	436	56	2	-	-
Colorado	16	6	-	1,056	277	14	-	-	-
Delaware	2	1	-	91	22	2	-	-	-
Dist Of Columb	2	-	-	208	9	-	-	-	-
Florida	5	3	-	160	11	4	-	-	-
Georgia	14	7	3	677	75	13	3	-	-
Idaho	10	3	-	994	111	13	-	-	-
Illinois	56	25	1	3,661	396	53	1	-	-
Indiana	14	8	-	970	93	10	-	-	-
Iowa	21	7	1	1,450	128	19	4	-	-
Kansas	31	19	1	1,772	160	40	3	1	140
Kentucky	8	5	-	401	26	8	-	-	-
Louisiana	53	33	3	3,389	887	124	6	1	200
Maine	4	2	-	195	52	2	-	-	-
Maryland	7	5	2	473	61	14	5	1	50,000
Massachusetts	3	1	-	146	6	1	-	-	-
Michigan	11	8	-	589	69	14	-	2	1,438
Minnesota	16	4	-	1,309	125	5	-	-	-
Mississippi	18	11	-	1,224	116	20	-	-	-
Missouri	29	15	1	1,999	241	38	1	-	-
Montana	12	6	-	660	129	12	-	-	-
Nebraska	18	7	-	1,358	109	18	-	1	13
Nevada	4	1	1	445	29	1	1	-	-
New Jersey	8	7	-	393	56	22	-	-	-
New Mexico	19	9	1	931	144	21	1	-	-
New York	19	10	1	799	124	23	2	-	-
North Carolina	7	2	-	363	59	2	-	-	-
North Dakota	3	1	-	234	40	1	-	-	-
Ohio	21	5	1	1,285	180	14	2	-	-
Oklahoma	28	15	1	1,674	228	36	2	-	-
Oregon	15	8	-	581	59	11	-	-	-
Pennsylvania	16	7	-	768	128	17	-	-	-
South Carolina	4	2	-	74	9	3	-	-	-
South Dakota	2	1	-	162	13	7	-	-	-
Tennessee	18	9	-	979	117	14	-	-	-
Texas	140	80	8	8,146	1,290	175	12	5	329
Utah	1	-	-	75	3	-	-	-	-
Virginia	2	1	-	98	16	2	-	-	-
Washington	13	4	-	644	62	4	-	-	-
West Virginia	5	-	-	274	92	-	-	-	-
Wisconsin	13	4	-	1,019	156	6	-	-	-
Wyoming	11	8	1	725	83	14	2	-	-
Total	799	401	32	48,135	6,973	940	57	12	52,620

TABLE 6-3 CONSISTS TRANSPORTING HAZMAT, BY SUBCAUSE, 2001

Causes	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Brakes	9	3	-	658	78	3	-	-	-
Trailer/Container on Flatcar	1	-	-	99	3	-	-	-	-
Body	13	3	1	960	109	10	1	1	2
Coupler & Draft System	13	5	-	838	122	8	-	-	-
Truck Components	27	14	2	1,905	346	59	2	1	200
Axles & Journal Bearings	24	8	-	2,100	331	28	-	-	-
Wheels	24	10	-	1,836	343	19	-	-	-
Locomotives	9	1	-	841	120	2	-	-	-
Doors	1	-	-	68	5	-	-	-	-
Other Mechanical	3	-	-	273	20	-	-	-	-
Brakes, Use of	36	27	1	929	118	44	2	-	-
Employee Physical Condition	1	-	-	24	1	-	-	-	-
Flagging, Fixed, Hand & Radio	18	9	1	1,237	234	18	1	-	-
General Switching Rules	97	66	-	3,586	595	119	-	-	-
Main Track Authority	9	3	-	552	99	6	-	-	-
Train Handling/Makeup	48	20	-	4,176	530	42	-	-	-
Speed	20	9	1	1,146	105	11	2	1	16
Switches, Use of	64	33	1	3,315	500	65	1	-	-
Miscellaneous Human Factors	7	3	-	538	55	5	-	-	-
Environmental Conditions	9	3	-	631	146	10	-	-	-
Loading Procedures	12	4	1	912	119	7	2	-	-
Highway-Rail Incidents	35	1	-	2,389	281	9	-	-	-
Unusual Operational Situations	45	23	1	2,580	381	43	1	-	-
Other Miscellaneous Causes	24	11	4	1,415	221	25	10	4	51,578
Signal Defects	7	6	-	183	32	11	-	-	-
Roadbed	10	4	2	707	104	13	4	2	542
Track Geometry	99	52	3	5,787	884	171	7	1	38
Rail, Joint Bar & Anchors	89	54	14	6,339	700	154	24	2	244
Frogs, Switches, Appliances	44	29	-	2,104	390	58	-	-	-
Other Track Defects	1	-	-	7	1	-	-	-	-
Total	799	401	32	48,135	6,973	940	57	12	52,620

TABLE 6-4 CONSISTS TRANSPORTING HAZMAT, BY ACCIDENT TYPE, 2001

Type Accident	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Derailments	564	286	28	37,122	5,325	744	51	9	51,042
Head on collision	4	3	-	296	54	4	-	2	1,438
Rear end collision	11	4	1	815	146	7	1	-	-
Side collision	38	16	1	2,052	347	28	1	-	-
Raking collision	13	9	-	525	66	18	-	-	-
Broken train coll.	4	1	-	194	19	1	-	-	-
Highway-rail Impact	35	1	-	2,389	281	9	-	-	-
Obstruction impact	13	3	1	745	192	11	3	1	140
Explosion/detonation	1	-	-	14	8	-	-	-	-
Fire/violent rupture	3	-	-	324	34	-	-	-	-
Other impacts	96	74	1	2,443	373	114	1	-	-
Other events	17	4	-	1,216	128	4	-	-	-
Total	799	401	32	48,135	6,973	940	57	12	52,620

CHAPTER 7

HIGHWAY-RAIL INCIDENTS

Any impact, regardless of severity, between a railroad on-track equipment consist and any user of a public or private crossing site, is to be reported on Form FRA F 6180.57. The crossing site includes sidewalks and pathways at, or associated with, the crossing.

In addition, whenever a highway-rail grade crossing accident/incident results in reportable damages greater than the current reporting threshold used for Rail Equipment Accident/Incident reporting, a Form FRA F 6180.54 must be completed. The reporting threshold for accidents for 1997 was \$6,500, and in 1998 it was \$6,600.

Highway users include but are not limited to: automobiles, buses, trucks, motorcycles, bicycles, recreational vehicles, farm vehicles, construction vehicles, roadway maintenance vehicles, and pedestrians.

Suicides or attempted suicides, as determined by a coroner or other public authority, at highwayrail crossing sites are not reportable. However, the event may be reportable under other criteria. For example, reportable conditions to others must be recorded on Form FRA F 6180.55a, e.g., the engineer sustained a fractured arm. Likewise, if the event caused reportable damage above the current monetary threshold for Rail Equipment Accidents/Incidents, a Form FRA F 6180.54 must be prepared. In these situations, the type of accident is coded as an "Obstruction".

Incidents involving highway users who have unsuccessfully attempted to avoid striking or being struck by a railroad consist at a crossing site are to be reported, regardless of where the actual impact between the consist and the highway user occurred.

Each reportable casualty resulting from a highway-rail crossing impact must also be reported on Form FRA F 6180.55a.

If the accident/incident satisfies the reporting requirements for rail equipment accidents (e.g., reportable railroad damage exceeds threshold), Form FRA F 6180.54 must also be completed by all railroads involved, including the railroad with track maintenance responsibility.

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TABLE 7-1 TOTAL HIGHWAY-RAIL INCIDENTS BY RAILROAD, 2001

Railroads	At Public Crossing									At Private Crossing								
	Totals			Motor Vehicle			Other			Motor Vehicle			Other					
	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Alaska RR Corp.	4	-	1	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Amtrak	162	69	84	114	40	62	26	21	8	21	7	14	1	1	-	-	-	-
Bangor & Aroostook	2	-	1	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-
Burlington Northern Santa Fe	473	55	181	383	42	150	27	9	10	58	3	19	5	1	2	-	-	-
Belt Rwy Of Chicago	4	-	1	3	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Conrail Shared Assets	19	2	6	17	2	6	-	-	-	2	-	-	-	-	-	-	-	-
CSX Transportation	521	63	206	454	56	183	17	5	6	45	1	17	5	1	-	-	-	-
Delaware & Hudson	4	2	1	2	2	-	-	-	-	2	-	1	-	-	-	-	-	-
Dakota,Minnesota & Eastern	12	-	1	9	-	1	-	-	-	3	-	-	-	-	-	-	-	-
Duluth,Missabe & Iron Range	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duluth,Winnipeg & Pacific	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	5	-	2	3	-	1	-	-	-	2	-	1	-	-	-	-	-	-
Florida East Coast	22	3	3	19	2	2	2	1	1	1	-	-	-	-	-	-	-	-
Guilford Rail System	4	-	2	3	-	2	-	-	-	1	-	-	-	-	-	-	-	-
Grand Trunk Western RR	24	1	9	22	-	9	1	1	-	1	-	-	-	-	-	-	-	-
Gateway Western	4	-	1	2	-	1	1	-	-	1	-	-	-	-	-	-	-	-
Illinois Central	90	21	47	80	19	44	2	-	1	8	2	2	-	-	-	-	-	-
Indiana Harbor Belt	10	-	2	8	-	2	-	-	-	2	-	-	-	-	-	-	-	-
I & M Rail Link, LLC	36	4	18	31	4	17	1	-	-	4	-	1	-	-	-	-	-	-
Kansas City Southern	120	15	60	108	15	51	5	-	3	7	-	6	-	-	-	-	-	-
Long Island Rail Road	5	4	1	3	2	1	2	2	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	6	-	1	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana Rail Link	11	1	2	9	-	1	1	-	1	1	1	-	-	-	-	-	-	-
Northern IN Comm Trans	4	-	2	3	-	2	-	-	-	1	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	31	9	15	25	4	14	6	5	1	-	-	-	-	-	-	-	-	-
New Jersey Transit Rail	13	6	1	9	2	1	4	4	-	-	-	-	-	-	-	-	-	-
Norfolk Southern Corp.	507	67	129	419	57	104	13	3	4	69	7	19	6	-	2	-	-	-
Paducah & Louisville	8	-	4	5	-	1	-	-	-	3	-	3	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	6	4	-	2	-	-	4	4	-	-	-	-	-	-	-	-	-	-
Port Terminal RR Assn	8	-	3	6	-	3	-	-	-	2	-	-	-	-	-	-	-	-
Southern CA Reg Rail Auth.	10	1	6	6	-	3	3	1	2	1	-	1	-	-	-	-	-	-
Soo Line	33	2	17	26	-	14	1	1	-	6	1	3	-	-	-	-	-	-
Texas Mexican	6	-	-	3	-	-	1	-	-	1	-	-	1	-	-	-	-	-
Term RR Assn Of St. Louis	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Econo Rail Corporation	4	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
Union Pacific	629	72	227	534	49	203	21	13	2	69	8	22	5	2	-	-	-	-
Wisconsin Central Ltd.	79	10	35	76	9	34	3	1	1	-	-	-	-	-	-	-	-	-
Wheeling & Lake Erie	12	-	5	10	-	5	1	-	-	1	-	-	-	-	-	-	-	-
Other Railroads	345	10	83	286	10	75	6	-	3	51	-	5	2	-	-	-	-	-
Total	3,237	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4	-	-	-

TABLE 7-2 TOTAL HIGHWAY-RAIL INCIDENTS BY STATE, 2001

States	Totals			At Public Crossing						At Private Crossing					
				Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Alabama	103	9	28	89	8	23	4	-	3	10	1	2	-	-	-
Alaska	4	-	1	4	-	1	-	-	-	-	-	-	-	-	-
Arizona	29	6	10	24	4	8	4	2	2	1	-	-	-	-	-
Arkansas	87	9	39	80	8	37	3	-	1	4	1	1	-	-	-
California	180	54	49	135	29	37	28	21	7	14	3	5	3	1	-
Colorado	34	3	10	28	3	7	-	-	-	6	-	3	-	-	-
Connecticut	3	-	2	-	-	-	1	-	1	2	-	1	-	-	-
Delaware	7	1	-	6	1	-	-	-	-	1	-	-	-	-	-
Florida	114	15	36	94	9	28	5	4	3	14	1	5	1	1	-
Georgia	122	19	50	116	16	50	2	2	-	3	1	-	1	-	-
Hawaii	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Idaho	20	1	7	17	1	7	-	-	-	3	-	-	-	-	-
Illinois	212	31	89	167	16	79	20	13	4	24	2	6	1	-	-
Indiana	165	19	62	145	17	55	8	1	3	11	1	4	1	-	-
Iowa	110	16	35	94	14	34	6	1	1	9	1	-	1	-	-
Kansas	63	5	20	54	5	19	2	-	-	7	-	1	-	-	-
Kentucky	79	10	31	58	8	21	2	-	1	19	2	9	-	-	-
Louisiana	161	22	93	146	20	85	1	-	1	14	2	7	-	-	-
Maine	9	-	4	7	-	4	-	-	-	2	-	-	-	-	-
Maryland	17	1	9	13	1	6	1	-	-	3	-	3	-	-	-
Massachusetts	17	-	4	15	-	4	-	-	-	1	-	-	1	-	-
Michigan	96	11	36	87	8	35	5	2	1	3	1	-	1	-	-
Minnesota	82	9	25	68	5	23	5	3	-	9	1	2	-	-	-
Mississippi	102	22	47	93	21	42	3	-	2	6	1	3	-	-	-
Missouri	64	4	22	53	3	19	2	1	-	7	-	2	2	-	1
Montana	16	1	4	13	-	2	2	-	2	1	1	-	-	-	-
Nebraska	50	3	17	38	3	11	1	-	1	11	-	5	-	-	-
Nevada	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-
New Jersey	36	8	11	26	4	10	5	4	-	5	-	1	-	-	-
New Mexico	24	8	8	18	4	6	2	2	1	3	1	1	1	1	-
New York	32	8	5	20	4	3	2	2	-	8	1	2	2	1	-
North Carolina	79	6	21	62	2	17	3	4	1	13	-	3	1	-	-
North Dakota	17	2	8	14	1	5	1	1	-	2	-	3	-	-	-
Ohio	140	22	40	120	22	39	3	-	1	16	-	-	1	-	-
Oklahoma	69	9	19	63	7	19	2	1	-	3	-	-	1	1	-
Oregon	43	6	13	23	4	7	2	1	1	18	1	5	-	-	-
Pennsylvania	68	8	15	59	6	8	-	-	-	7	2	5	2	-	2
South Carolina	65	4	23	57	4	21	1	-	1	7	-	1	-	-	-
South Dakota	20	1	4	16	1	3	-	-	-	3	-	-	1	-	1
Tennessee	97	10	39	78	10	35	3	-	1	15	-	3	1	-	-
Texas	362	39	132	301	34	112	12	2	2	48	3	18	1	-	-
Utah	20	2	8	17	1	7	1	-	1	2	1	-	-	-	-
Virginia	44	1	18	30	-	12	1	-	-	12	1	6	1	-	-
Washington	38	5	7	28	2	4	2	2	-	8	1	3	-	-	-
West Virginia	20	1	9	13	1	7	-	-	-	7	-	2	-	-	-
Wisconsin	104	10	43	99	8	42	3	2	1	2	-	-	-	-	-
Wyoming	8	-	4	3	-	1	-	-	-	4	-	3	1	-	-
Total	3,237	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

TABLE 7-3 TOTAL HRC CASUALTIES BY STATE AND AGE GROUP, 2001

States	Deaths						Nonfatal Cases					
	Age Group				Total		Age Group				Total	
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	-	-	1	8	9	2.1	2	1	6	19	28	2.4
Alaska	-	-	-	-	0	0.0	-	-	-	1	1	0.1
Arizona	1	-	-	5	6	1.4	5	1	-	4	10	0.9
Arkansas	-	-	-	9	9	2.1	2	4	10	23	39	3.4
California	7	3	3	41	54	12.8	6	-	1	42	49	4.2
Colorado	1	-	-	2	3	0.7	3	-	1	6	10	0.9
Connecticut	-	-	-	-	0	0.0	-	-	-	2	2	0.2
Delaware	-	-	-	1	1	0.2	-	-	-	-	0	0.0
Florida	2	-	3	10	15	3.6	2	2	3	29	36	3.1
Georgia	-	2	2	15	19	4.5	1	6	15	28	50	4.3
Idaho	-	-	-	1	1	0.2	-	-	2	5	7	0.6
Illinois	3	1	4	23	31	7.4	5	5	9	70	89	7.7
Indiana	1	1	1	16	19	4.5	2	7	12	41	62	5.4
Iowa	-	1	3	12	16	3.8	6	1	11	17	35	3.0
Kansas	1	1	-	3	5	1.2	4	1	1	14	20	1.7
Kentucky	-	1	1	8	10	2.4	1	4	6	20	31	2.7
Louisiana	-	5	2	15	22	5.2	12	11	19	51	93	8.0
Maine	-	-	-	-	0	0.0	2	-	-	2	4	0.3
Maryland	-	-	-	1	1	0.2	-	-	4	5	9	0.8
Massachusetts	-	-	-	-	0	0.0	-	-	1	3	4	0.3
Michigan	1	-	1	9	11	2.6	-	3	17	16	36	3.1
Minnesota	1	-	2	6	9	2.1	4	2	2	17	25	2.2
Mississippi	1	2	3	16	22	5.2	6	4	12	25	47	4.1
Missouri	1	-	-	3	4	1.0	3	2	4	13	22	1.9
Montana	-	-	-	1	1	0.2	-	1	1	2	4	0.3
Nebraska	1	-	1	1	3	0.7	2	-	3	12	17	1.5
New Jersey	-	-	-	8	8	1.9	-	-	4	7	11	1.0
New Mexico	1	-	-	7	8	1.9	4	-	-	4	8	0.7
New York	2	-	3	3	8	1.9	1	-	1	3	5	0.4
North Carolina	3	-	-	3	6	1.4	1	-	3	17	21	1.8
North Dakota	-	-	-	2	2	0.5	1	1	-	6	8	0.7
Ohio	-	4	3	15	22	5.2	-	3	13	24	40	3.5
Oklahoma	-	-	-	9	9	2.1	6	1	5	7	19	1.6
Oregon	-	3	-	3	6	1.4	2	2	1	8	13	1.1
Pennsylvania	1	-	-	7	8	1.9	-	4	2	9	15	1.3
South Carolina	1	-	1	2	4	1.0	1	1	4	17	23	2.0
South Dakota	-	-	-	1	1	0.2	3	-	-	1	4	0.3
Tennessee	-	-	-	10	10	2.4	1	2	10	26	39	3.4
Texas	1	3	4	31	39	9.3	18	15	7	92	132	11.4
Utah	-	-	2	-	2	0.5	-	2	1	5	8	0.7
Virginia	-	-	-	1	1	0.2	-	3	4	11	18	1.6
Washington	-	-	2	3	5	1.2	1	-	1	5	7	0.6
West Virginia	-	-	-	1	1	0.2	-	-	1	8	9	0.8
Wisconsin	-	-	3	7	10	2.4	-	2	8	33	43	3.7
Wyoming	-	-	-	-	0	0.0	2	-	-	2	4	0.3
Total	30	27	45	319	421	100.0	109	91	205	752	1,157	100.0

TABLE 7-4 TOTAL HIGHWAY-RAIL INCIDENTS BY MONTH, 2001

Railroads	Totals			At Public Crossing						At Private Crossing					
				Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
January	297	40	102	252	30	91	9	6	2	34	3	9	2	1	-
February	273	36	75	227	31	65	8	1	2	37	4	7	1	-	1
March	295	39	108	247	27	98	14	8	5	31	3	4	3	1	1
April	244	28	95	194	19	77	13	6	4	35	2	14	2	1	-
May	266	38	105	221	32	93	13	4	3	29	1	9	3	1	-
June	272	34	82	225	25	74	16	6	3	26	3	5	5	-	-
July	249	38	85	204	28	72	16	9	4	28	1	9	1	-	-
August	290	32	110	234	18	94	18	10	4	36	4	11	2	-	1
September	267	25	96	226	19	81	10	5	4	30	1	11	1	-	-
October	273	35	102	220	25	79	7	5	1	45	5	22	1	-	-
November	237	26	106	204	20	90	13	3	5	19	2	11	1	1	-
December	274	50	91	241	41	81	11	8	6	19	1	3	3	-	1
Total	3,237	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

TABLE 7-5 TOTAL HIGHWAY-RAIL INCIDENTS BY DAY, 2001

Rail Equip Struck Highway User

Day	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	230	7.11	60	76	185	47	65	15	10	4	29	3	7	1	-	-
Monday	371	11.46	33	149	304	21	128	23	10	6	39	2	15	5	-	-
Tuesday	390	12.05	51	132	321	40	115	11	6	1	55	4	16	3	1	-
Wednesday	390	12.05	53	147	298	39	115	30	10	11	58	3	19	4	1	2
Thursday	395	12.20	52	128	317	32	96	21	12	4	52	5	28	5	3	-
Friday	428	13.22	55	147	339	38	118	19	9	8	66	8	20	4	-	1
Saturday	347	10.72	61	100	288	46	88	20	12	4	37	3	7	2	-	1
Total	2,551	78.81	365	879	2,052	263	725	139	69	38	336	28	112	24	5	4

Highway User Struck Rail Equip

Day	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	65	2.01	3	22	64	3	21	1	-	1	-	-	-	-	-	-
Monday	89	2.75	8	44	81	6	41	1	-	1	7	2	2	-	-	-
Tuesday	101	3.12	7	42	94	6	41	1	1	-	6	-	1	-	-	-
Wednesday	106	3.27	11	37	103	11	37	-	-	-	3	-	-	-	-	-
Thursday	108	3.34	5	55	103	5	55	-	-	-	5	-	-	-	-	-
Friday	118	3.65	9	39	108	9	39	1	-	-	8	-	-	1	-	-
Saturday	99	3.06	13	39	90	12	36	5	1	3	4	-	-	-	-	-
Total	686	21.19	56	278	643	52	270	9	2	5	33	2	3	1	-	-

Grand Total

Day	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	295	9.11	63	98	249	50	86	16	10	5	29	3	7	1	-	-
Monday	460	14.21	41	193	385	27	169	24	10	7	46	4	17	5	-	-
Tuesday	491	15.17	58	174	415	46	156	12	7	1	61	4	17	3	1	-
Wednesday	496	15.32	64	184	401	50	152	30	10	11	61	3	19	4	1	2
Thursday	503	15.54	57	183	420	37	151	21	12	4	57	5	28	5	3	-
Friday	546	16.87	64	186	447	47	157	20	9	8	74	8	20	5	-	1
Saturday	446	13.78	74	139	378	58	124	25	13	7	41	3	7	2	-	1
Total	3,237	100.0	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

TABLE 7-6 TOTAL HIGHWAY-RAIL INCIDENTS BY HOUR OF DAY, 2001

Hour of Day	Total Incidents		At Public Crossing									At Private Crossing					
			Total		Motor Vehicle			Other				Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
AM	1	97	3.00	19	36	80	14	32	9	4	3	7	-	1	1	1	-
	2	76	2.35	12	19	62	11	16	3	1	2	11	-	1	-	-	-
	3	73	2.26	6	10	67	4	9	2	1	1	4	1	-	-	-	-
	4	52	1.61	2	13	47	2	13	-	-	-	5	-	-	-	-	-
	5	59	1.82	6	8	53	6	7	1	-	1	5	-	-	-	-	-
	6	82	2.53	7	27	66	3	22	3	1	1	12	3	3	1	-	1
	7	129	3.99	27	51	102	16	44	9	7	1	17	4	6	1	-	-
	8	170	5.25	16	65	138	12	51	5	2	1	24	2	12	3	-	1
	9	186	5.75	14	77	145	11	65	5	1	2	31	1	10	5	1	-
	10	190	5.87	21	66	160	17	52	5	3	1	25	1	13	-	-	-
	11	207	6.39	23	73	165	18	58	9	2	3	30	3	11	3	-	1
	12	78	2.41	7	14	64	4	12	6	3	2	8	-	-	-	-	-
	Total	1,399	43.22	160	459	1,149	118	381	57	25	18	179	15	57	14	2	3
PM	1	173	5.34	24	76	139	18	64	4	2	-	27	2	12	3	2	-
	2	206	6.36	27	71	168	19	64	13	5	3	24	3	4	1	-	-
	3	194	5.99	36	79	163	30	68	9	2	3	20	3	7	2	1	1
	4	179	5.53	30	62	150	22	52	12	7	3	17	1	7	-	-	-
	5	190	5.87	28	66	162	21	58	11	7	2	17	-	6	-	-	-
	6	152	4.70	22	64	130	15	58	11	7	-	10	-	6	1	-	-
	7	136	4.20	26	58	113	24	51	4	1	3	19	1	4	-	-	-
	8	114	3.52	16	47	99	15	41	4	-	2	9	1	4	2	-	-
	9	105	3.24	21	36	90	13	32	7	6	4	8	2	-	-	-	-
	10	103	3.18	7	24	88	5	23	3	2	1	12	-	-	-	-	-
	11	98	3.03	9	40	85	6	34	5	2	3	7	1	3	1	-	-
	12	188	5.81	15	75	159	9	69	8	5	1	20	1	5	1	-	-
	Total	1,838	56.78	261	698	1,546	197	614	91	46	25	190	15	58	11	3	1
Total	3,237	100.0	421	1157	2,695	315	995	148	71	43	369	30	115	25	5	4	

TABLE 7-7 TOTAL HIGHWAY-RAIL INCIDENTS BY TYPE HIGHWAY USER, 2001

Rail Equip Struck Highway User

Highway User	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	1,147	35.43	145	399	1,044	134	368	-	-	-	103	11	31	-	-	-
Truck	276	8.53	35	117	227	34	100	-	-	-	49	1	17	-	-	-
Trk& Trail	422	13.04	19	117	316	13	82	-	-	-	106	6	35	-	-	-
Pickup Trk	380	11.74	60	135	326	53	114	-	-	-	54	7	21	-	-	-
Van	94	2.90	23	43	86	22	37	-	-	-	8	1	6	-	-	-
Bus	7	0.22	-	6	6	-	6	-	-	-	1	-	-	-	-	-
School Bus	3	0.09	-	1	2	-	1	-	-	-	1	-	-	-	-	-
Motorcycle	4	0.12	1	2	4	1	2	-	-	-	-	-	-	-	-	-
Oth Mtr V.	55	1.70	8	17	41	6	15	-	-	-	14	2	2	-	-	-
Pedestrian	91	2.81	66	31	-	-	-	87	63	30	-	-	-	4	3	1
Other	72	2.22	8	11	-	-	-	52	6	8	-	-	-	20	2	3
Total	2,551	78.81	365	879	2,052	263	725	139	69	38	336	28	112	24	5	4

Highway User Struck Rail Equip

Highway User	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	369	11.40	29	146	358	29	145	-	-	-	11	-	1	-	-	-
Truck	74	2.29	5	32	66	5	30	-	-	-	8	-	2	-	-	-
Trk& Trail	43	1.33	1	15	37	1	15	-	-	-	6	-	-	-	-	-
Pickup Trk	143	4.42	16	65	138	14	65	-	-	-	5	2	-	-	-	-
Van	35	1.08	3	10	32	3	10	-	-	-	3	-	-	-	-	-
Motorcycle	2	0.06	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Oth Mtr V.	10	0.31	-	5	10	-	5	-	-	-	-	-	-	-	-	-
Pedestrian	1	0.03	1	-	-	-	-	1	1	-	-	-	-	-	-	-
Other	9	0.28	1	5	-	-	-	8	1	5	-	-	-	1	-	-
Total	686	21.19	56	278	643	52	270	9	2	5	33	2	3	1	-	-

Grand Total

Highway User	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	1,516	46.83	174	545	1,402	163	513	-	-	-	114	11	32	-	-	-
Truck	350	10.81	40	149	293	39	130	-	-	-	57	1	19	-	-	-
Trk& Trail	465	14.37	20	132	353	14	97	-	-	-	112	6	35	-	-	-
Pickup Trk	523	16.16	76	200	464	67	179	-	-	-	59	9	21	-	-	-
Van	129	3.99	26	53	118	25	47	-	-	-	11	1	6	-	-	-
Bus	7	0.22	-	6	6	-	6	-	-	-	1	-	-	-	-	-
School Bus	3	0.09	-	1	2	-	1	-	-	-	1	-	-	-	-	-
Motorcycle	6	0.19	1	2	6	1	2	-	-	-	-	-	-	-	-	-
Oth Mtr V.	65	2.01	8	22	51	6	20	-	-	-	14	2	2	-	-	-
Pedestrian	92	2.84	67	31	-	-	-	88	64	30	-	-	-	4	3	1
Other	81	2.50	9	16	-	-	-	60	7	13	-	-	-	21	2	3
Total	3,237	100.0	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

TABLE 7-8 HIGHWAY-RAIL INCIDENTS BY USERS, 2001

Rail Equip Struck Highway User

Highway User	Total		Freight Train	Psgr Train	Commuter Train	Work Train	Single Car	Yard/ Switch	Light loco(s)	Maint Insp car
	Cnt	%								
Car	1,147	35.4	861	76	31	7	2	73	71	26
Truck	276	8.5	215	11	4	3	-	21	19	3
Trk& Trail	422	13.0	322	20	4	4	-	41	29	2
Pickup Trk	380	11.7	293	27	2	5	1	19	25	8
Van	94	2.9	62	8	1	-	-	10	12	1
Bus	7	0.2	5	-	1	-	-	1	-	-
School Bus	3	0.1	1	-	-	-	-	1	1	-
Motorcycle	4	0.1	2	2	-	-	-	-	-	-
Oth Mtr V.	55	1.7	44	2	1	-	-	2	6	-
Pedestrian	91	2.8	48	29	11	-	-	2	-	1
Other	72	2.2	62	4	1	2	-	3	-	-
Total	2,551	78.8	1,915	179	56	21	3	173	163	41

Highway User Struck Rail Equip

Highway User	Total		Freight Train	Psgr Train	Commuter Train	Work Train	Single Car	Cut of Cars	Yard/ Switch	Light loco(s)	Maint Insp car
	Cnt	%									
Car	369	11.4	255	13	6	1	2	1	49	28	14
Truck	74	2.3	51	2	-	1	-	2	11	4	3
Trk& Trail	43	1.3	27	1	1	-	-	-	10	3	1
Pickup Trk	143	4.4	108	6	1	-	-	-	16	9	3
Van	35	1.1	24	-	-	1	-	-	5	3	2
Motorcycle	2	0.1	2	-	-	-	-	-	-	-	-
Oth Mtr V.	10	0.3	8	1	-	-	-	-	-	1	-
Pedestrian	1	0.0	-	1	-	-	-	-	-	-	-
Other	9	0.3	8	-	-	-	-	-	-	-	1
Total	686	21.2	483	24	8	3	2	3	91	48	24

Grand Total

Highway User	Total		Freight Train	Psgr Train	Commuter Train	Work Train	Single Car	Cut of Cars	Yard/ Switch	Light loco(s)	Maint Insp car
	Cnt	%									
Car	1,516	46.8	1,116	89	37	8	4	1	122	99	40
Truck	350	10.8	266	13	4	4	-	2	32	23	6
Trk& Trail	465	14.4	349	21	5	4	-	-	51	32	3
Pickup Trk	523	16.2	401	33	3	5	1	-	35	34	11
Van	129	4.0	86	8	1	1	-	-	15	15	3
Bus	7	0.2	5	-	1	-	-	-	1	-	-
School Bus	3	0.1	1	-	-	-	-	-	1	1	-
Motorcycle	6	0.2	4	2	-	-	-	-	-	-	-
Oth Mtr V.	65	2.0	52	3	1	-	-	-	2	7	-
Pedestrian	92	2.8	48	30	11	-	-	-	2	-	1
Other	81	2.5	70	4	1	2	-	-	3	-	1
Total	3,237	100.0	2,398	203	64	24	5	3	264	211	65

TABLE 7-9 TOTAL HIGHWAY-RAIL INCIDENTS BY WARNING DEVICE, 2001

Warning	Total Incidents				At Public Crossing						At Private Crossing					
			Total		Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Gates	914	28.24	161	259	809	96	232	93	64	24	9	-	2	3	1	1
Flashing lights	620	19.15	69	251	583	62	237	23	6	12	12	1	2	2	-	-
HWTS,WW,Bells	43	1.33	1	11	39	1	11	1	-	-	3	-	-	-	-	-
Watchman	36	1.11	-	8	26	-	7	-	-	-	10	-	1	-	-	-
Stop signs	405	12.51	50	163	279	35	119	1	-	-	120	13	44	5	2	-
Cross bucks	1,103	34.07	134	439	933	120	387	30	1	7	130	11	43	10	2	2
Other	14	0.43	-	2	8	-	1	-	-	-	6	-	1	-	-	-
None	102	3.15	6	24	18	1	1	-	-	-	79	5	22	5	-	1
Total	3,237	100.0	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

TABLE 7-10 TOTAL HIGHWAY-RAIL INCIDENTS BY WEATHER, 2001

Rail Equip Struck Highway User

Type Weather	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Clear	1,840	56.84	269	689	1,470	198	568	106	46	33	244	20	85	20	5	3
Cloudy	469	14.49	58	142	383	38	116	19	14	3	64	6	22	3	-	1
Rain	178	5.50	34	38	144	24	32	13	9	1	20	1	5	1	-	-
Fog	35	1.08	2	7	29	1	6	1	-	1	5	1	-	-	-	-
Sleet	5	0.15	1	-	5	1	-	-	-	-	-	-	-	-	-	-
Snow	24	0.74	1	3	21	1	3	-	-	-	3	-	-	-	-	-
Total	2,551	78.81	365	879	2,052	263	725	139	69	38	336	28	112	24	5	4

Highway User Struck Rail Equip

Type Weather	Total Incidents				At Public Crossing							At Private Crossing					
					Total		Motor Vehicle			Other		Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal			Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld
Clear	450	13.90	35	175	424	31	170	8	2	4	17	2	1	1	-	-	
Cloudy	128	3.95	14	47	116	14	46	-	-	-	12	-	1	-	-	-	
Rain	66	2.04	6	32	61	6	30	1	-	1	4	-	1	-	-	-	
Fog	21	0.65	1	18	21	1	18	-	-	-	-	-	-	-	-	-	
Sleet	2	0.06	-	-	2	-	-	-	-	-	-	-	-	-	-	-	
Snow	19	0.59	-	6	19	-	6	-	-	-	-	-	-	-	-	-	
Total	686	21.19	56	278	643	52	270	9	2	5	33	2	3	1	-	-	

Grand total

Type Weather	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Clear	2,290	70.74	304	864	1,894	229	738	114	48	37	261	22	86	21	5	3
Cloudy	597	18.44	72	189	499	52	162	19	14	3	76	6	23	3	-	1
Rain	244	7.54	40	70	205	30	62	14	9	2	24	1	6	1	-	-
Fog	56	1.73	3	25	50	2	24	1	-	1	5	1	-	-	-	-
Sleet	7	0.22	1	-	7	1	-	-	-	-	-	-	-	-	-	-
Snow	43	1.33	1	9	40	1	9	-	-	-	3	-	-	-	-	-
Total	3,237	100.0	421	1,157	2,695	315	995	148	71	43	369	30	115	25	5	4

CHAPTER 8

HIGHWAY-RAIL INCIDENTS AT PUBLIC CROSSINGS THAT INVOLVE MOTOR VEHICLES

FRA's reporting rules define any contact between a rail and highway user at a crossing site as a highway-rail incident. The following are situations that occur at or near crossing locations that do not qualify as highway-rail crossing incidents, but may require reporting under other provisions of the rule, e.g., train accident or casualty reporting.

- Q1. A man driving a truck did not see a train occupying a highway-rail crossing and lost control of his vehicle when he slammed on the brakes to avoid a collision. His truck ended up in the ditch with considerable damage, and he broke his arm. What reports are required?
- A1. Since an impact did not occur between a highway and a rail user, you do not need to prepare a highway-rail accident/incident report (form 6180.57). The motorist did sustain a reportable injury arising from the operation of a railroad. Therefore, an injury report (form 6180.55a) must be completed. If the motorist had struck the consist, a form 6180.57 would be required even if the impact did not occur on the crossing site.
- Q2. A highway user hits a signal stand at a highway crossing and was injured, but there was no on-track equipment present, nor were railroad employees in the vicinity. Is this reportable?
- A2. No. The regulation exempts the reporting of motor vehicle accidents at highway-rail crossing sites when they do not involve the presence of on-track equipment or railroad employees.
- Q3. A motorist in an off-road vehicle was waiting behind several automobiles at a crossing site where the gates were down and a standing train was occupying the track. He apparently became impatient and drove his vehicle off the highway and parallel to the track to a point where he could cross over the track behind the train. His vehicle stalled on a parallel set of tracks, and he was unable to start it. He exited his truck just before a train on the adjacent track hit it. Should this be reported as a highwayrail accident/incident or any other type?
- A3. An event such as this would not qualify as a highway-rail crossing collision since the motor vehicle operator had left the highway of his own choosing and his vehicle was struck at a location other than a designated crossing site. The event would be reportable as an obstruction accident on form 6180.54 if reportable damage was in excess of the threshold. If the motorist or employees were hurt in connection with this event, then an injury report (form 6180.55a) would need to be completed.

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TABLE 8-1 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS,2001

States	Accidents				Deaths				Nonfatal			
		Per	Per	Per		Per	Per	Per		Per	Per	Per
	Cnt	100	100K	100K	Cnt	100	100K	100K	Cnt	100	100K	100K
	Xings	Vehicles	ADT	Xings	Vehicles	ADT	Xings	ADT	Xings	Vehicles	ADT	
Alabama	89	2.60	2.07	1.29	8	0.23	0.19	0.12	23	0.67	5.36	0.03
Alaska	4	1.79	0.65	0.83	.	.	.	.	1	0.45	1.63	0.02
Arizona	24	2.55	0.58	0.80	4	0.43	0.10	0.13	8	0.85	1.92	0.03
Arkansas	80	2.53	4.23	2.08	8	0.25	0.42	0.21	37	1.17	19.54	0.10
California	135	1.72	0.46	0.33	29	0.37	0.10	0.07	37	0.47	1.26	0.01
Colorado	28	1.44	0.58	0.70	3	0.15	0.06	0.07	7	0.36	1.45	0.02
Connecticut	.	.	.	.	.	.	.	.	.	.	.	.
Delaware	6	1.96	0.90	0.56	1	0.33	0.15	0.09	.	.	.	.
Dist Of Columbia	.	.	.	.	.	.	.	.	.	.	.	.
Florida	94	2.37	0.64	0.49	9	0.23	0.06	0.05	28	0.71	1.91	0.01
Georgia	116	1.97	1.57	1.27	16	0.27	0.22	0.18	50	0.85	6.76	0.05
Hawaii	1	12.50	.	3.70	.	.	.	.	.	.	.	.
Idaho	17	1.27	1.25	0.99	1	0.07	0.07	0.06	7	0.52	5.14	0.04
Illinois	167	2.02	1.65	0.94	16	0.19	0.16	0.09	79	0.96	7.81	0.04
Indiana	145	2.28	2.52	1.09	17	0.27	0.30	0.13	55	0.87	9.56	0.04
Iowa	94	1.84	2.72	1.77	14	0.27	0.41	0.26	34	0.66	9.84	0.06
Kansas	54	0.82	2.27	1.13	5	0.08	0.21	0.10	19	0.29	7.97	0.04
Kentucky	58	2.31	1.58	1.45	8	0.32	0.22	0.20	21	0.84	5.72	0.05
Louisiana	146	4.15	3.99	2.05	20	0.57	0.55	0.28	85	2.41	23.23	0.12
Maine	7	0.83	0.67	0.35	.	.	.	.	4	0.48	3.81	0.02
Maryland	13	1.87	0.33	0.53	1	0.14	0.03	0.04	6	0.86	1.50	0.02
Massachusetts	15	1.33	0.28	0.36	.	.	.	.	4	0.35	0.75	0.01
Michigan	87	1.61	1.01	0.57	8	0.15	0.09	0.05	35	0.65	4.04	0.02
Minnesota	68	1.34	0.15	1.02	5	0.10	0.01	0.07	23	0.45	0.50	0.03
Mississippi	93	3.39	4.70	1.91	21	0.76	1.06	0.43	42	1.53	21.21	0.09
Missouri	53	1.12	1.24	1.08	3	0.06	0.07	0.06	19	0.40	4.45	0.04
Montana	13	0.87	1.23	0.99	.	.	.	.	2	0.13	1.89	0.02
Nebraska	38	1.00	2.29	1.55	3	0.08	0.18	0.12	11	0.29	6.64	0.04
Nevada	2	0.66	0.15	0.22	.	.	.	.	.	.	.	.
New Hampshire	1	0.25	0.09	0.10	.	.	.	.	.	.	.	.
New Jersey	26	1.40	0.39	0.24	4	0.22	0.06	0.04	10	0.54	1.49	0.01
New Mexico	18	2.33	1.24	2.02	4	0.52	0.27	0.45	6	0.78	4.12	0.07
New York	20	0.67	0.19	0.27	4	0.13	0.04	0.05	3	0.10	0.29	0.00
North Carolina	62	1.37	0.99	0.67	2	0.04	0.03	0.02	17	0.38	2.71	0.02
North Dakota	14	0.32	1.93	1.11	1	0.02	0.14	0.08	5	0.12	6.89	0.04
Ohio	120	1.86	1.11	0.84	22	0.34	0.20	0.15	39	0.60	3.60	0.03
Oklahoma	63	1.47	1.88	1.35	7	0.16	0.21	0.15	19	0.44	5.66	0.04
Oregon	23	0.99	0.74	0.51	4	0.17	0.13	0.09	7	0.30	2.25	0.02
Pennsylvania	59	1.09	0.60	0.36	6	0.11	0.06	0.04	8	0.15	0.81	0.00
Rhode Island	.	.	.	.	.	.	.	.	.	.	.	.
South Carolina	57	1.92	1.78	0.97	4	0.13	0.13	0.07	21	0.71	6.56	0.04
South Dakota	16	0.75	1.92	1.26	1	0.05	0.12	0.08	3	0.14	3.59	0.02
Tennessee	78	2.42	1.49	1.16	10	0.31	0.19	0.15	35	1.08	6.70	0.05
Texas	301	2.53	2.07	1.06	34	0.29	0.23	0.12	112	0.94	7.69	0.04
Utah	17	1.77	0.95	0.92	1	0.10	0.06	0.05	7	0.73	3.91	0.04
Vermont	.	.	.	.	.	.	.	.	.	.	.	.
Virginia	30	1.46	0.48	0.51	.	.	.	.	12	0.59	1.92	0.02
Washington	28	1.01	0.53	0.54	2	0.07	0.04	0.04	4	0.14	0.75	0.01
West Virginia	13	0.82	0.88	0.73	1	0.06	0.07	0.06	7	0.44	4.73	0.04
Wisconsin	99	2.34	2.11	1.05	8	0.19	0.17	0.08	42	0.99	8.97	0.04
Wyoming	3	0.70	0.51	0.92	.	.	.	.	1	0.23	1.68	0.03
Total...	2,695	1.75	0.98	0.82	315	0.20	0.11	0.10	995	0.65	3.61	0.03

TABLE 8-2 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS BY WARNING DEVICE, 2001

Type Warning	Accidents			Deaths			Nonfatal			Number of Crossings
	Cnt	Per 100 Xings	Per 100K ADT	Cnt	Per 100 Xings	Per 100K ADT	Cnt	Per 100 Xings	Per 100K ADT	
Unknown	18	0.01	0.01	1	0.00	0.00	1	0.00	0.00	154,202
Other	8	.	.	.	.	.	1	.	.	.
Cross bucks	933	.	.	120	.	.	387	.	.	.
Stop signs	279	.	.	35	.	.	119	.	.	.
Special warning	26	.	.	.	.	.	7	.	.	.
HWTS, WW, Bells	39	.	.	1	.	.	11	.	.	.
Flashing lights	583	.	.	62	.	.	237	.	.	.
Gates	809	.	.	96	.	.	232	.	.	.
Total	2,695	1.75	0.82	315	0.20	0.10	995	0.65	0.30	154,202

**TABLES 8-3 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY RAILROAD AND TYPE WARNING**

Railroads	Types of Warning								Type Incident	
	Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	Other	None	Rail Equip Struck Highway User	Highway User Struck Rail Equip
Alaska RR Corp.	-	3	-	-	-	1	-	-	1	3
Amtrak	75	17	-	-	7	15	-	-	98	16
Bangor & Aroostook	-	1	-	-	-	-	-	-	1	-
Burlington Northern Santa Fe	138	55	2	5	19	162	-	2	295	88
Belt Rwy Of Chicago	2	1	-	-	-	-	-	-	1	2
Conrail Shared Assets	3	6	-	1	1	3	-	3	9	8
CSX Transportation	141	120	11	2	53	119	4	4	370	84
Delaware & Hudson	1	-	-	-	-	1	-	-	1	1
Dakota,Minnesota & Eastern	1	3	-	-	-	5	-	-	3	6
Duluth,Missabe & Iron Range	-	-	-	-	-	1	-	-	-	1
Duluth,Winnipeg & Pacific	-	1	-	-	-	-	-	-	-	1
Elgin, Joliet & Eastern	2	-	-	-	-	1	-	-	-	3
Florida East Coast	18	1	-	-	-	-	-	-	17	2
Guilford Rail System	1	1	-	-	-	1	-	-	2	1
Grand Trunk Western RR	10	6	-	-	5	1	-	-	13	9
Gateway Western	-	-	-	-	-	2	-	-	2	-
Illinois Central	8	23	-	-	11	38	-	-	60	20
Indiana Harbor Belt	4	2	-	-	1	1	-	-	5	3
I & M Rail Link, LLC	5	4	-	-	8	13	-	1	28	3
Kansas City Southern	12	25	4	-	8	59	-	-	80	28
Long Island Rail Road	3	-	-	-	-	-	-	-	2	1
Mass Bay Transit Auth.	6	-	-	-	-	-	-	-	6	-
Metro North Commuter	1	-	-	-	-	-	-	-	1	-
Montana Rail Link	-	1	1	1	1	5	-	-	6	3
Northern IN Comm Trans	-	2	-	-	1	-	-	-	2	1
Northeast IL Reg Comm	23	2	-	-	-	-	-	-	21	4
New Jersey Transit Rail	9	-	-	-	-	-	-	-	8	1
Norfolk Southern Corp.	121	104	3	6	41	140	1	3	336	83
Paducah & Louisville	-	4	-	-	-	1	-	-	5	-
Peninsula Comm San Mateo Cnty	2	-	-	-	-	-	-	-	2	-
Port Terminal RR Assn	2	1	-	-	1	2	-	-	4	2
Southern CA Reg Rail Auth.	6	-	-	-	-	-	-	-	5	1
Soo Line	6	8	-	-	8	4	-	-	18	8
Texas Mexican	1	1	-	-	-	1	-	-	2	1
Term RR Assn Of St. Louis	-	1	-	-	-	-	-	-	1	-
Union Pacific	168	102	6	4	61	187	2	4	422	112
Wisconsin Central Ltd.	11	24	-	1	18	22	-	-	50	26
Wheeling & Lake Erie	-	2	-	-	-	8	-	-	3	7
Other Railroads	29	62	12	6	35	140	1	1	172	114
Total	809	583	39	26	279	933	8	18	2,052	643

**TABLES 8-4 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY STATE AND TYPE WARNING**

States	Type of Warning							
	Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	Other	None
Alabama	17	15	2	1	18	36	-	-
Alaska	-	3	-	-	-	1	-	-
Arizona	12	10	-	-	2	-	-	-
Arkansas	7	16	4	1	9	43	-	-
California	93	18	2	4	1	15	1	1
Colorado	7	6	1	1	1	12	-	-
Delaware	2	3	-	1	-	-	-	-
Florida	62	16	2	1	2	11	-	-
Georgia	31	19	1	-	28	36	-	1
Hawaii	-	-	1	-	-	-	-	-
Idaho	2	5	-	1	7	2	-	-
Illinois	79	38	1	-	1	47	-	1
Indiana	43	40	-	-	31	31	-	-
Iowa	11	19	3	-	9	49	2	1
Kansas	17	4	-	-	2	31	-	-
Kentucky	14	24	1	-	1	17	-	1
Louisiana	17	45	3	-	18	63	-	-
Maine	-	4	-	-	-	3	-	-
Maryland	5	3	2	-	-	3	-	-
Massachusetts	7	6	1	-	-	1	-	-
Michigan	20	31	1	-	21	14	-	-
Minnesota	10	16	1	2	15	24	-	-
Mississippi	12	25	2	2	16	36	-	-
Missouri	11	7	1	1	1	32	-	-
Montana	1	1	1	1	1	8	-	-
Nebraska	13	3	-	-	-	21	-	1
Nevada	-	-	-	-	1	1	-	-
New Hampshire	-	1	-	-	-	-	-	-
New Jersey	15	3	-	1	1	2	-	4
New Mexico	7	3	-	-	1	7	-	-
New York	12	4	-	-	-	2	1	1
North Carolina	22	9	-	1	2	27	1	-
North Dakota	5	-	1	-	3	5	-	-
Ohio	37	20	-	1	4	57	1	-
Oklahoma	10	6	1	-	7	39	-	-
Oregon	5	-	-	1	7	10	-	-
Pennsylvania	12	14	2	1	2	26	1	1
South Carolina	15	19	1	1	7	13	-	1
South Dakota	-	4	-	-	1	11	-	-
Tennessee	20	27	1	-	1	28	-	1
Texas	114	47	2	-	23	114	-	1
Utah	4	1	-	-	8	3	-	1
Virginia	14	8	1	1	-	6	-	-
Washington	11	3	-	-	4	9	-	1
West Virginia	5	2	-	-	-	4	1	1
Wisconsin	8	32	-	3	23	33	-	-
Wyoming	-	3	-	-	-	-	-	-
Total	809	583	39	26	279	933	8	18

**TABLE 8-5 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING, 2001
BY TYPE CONSIST AND CONSIST SPEED**

Rail Equip Struck Highway User

Consist Speed								Whistle Ban?		
	Total	Freight Train	Psgr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	Yes	No	Unk
Unknown	1	1	-	-	-	-	-	-	-	1
1-9	348	172	11	2	16	93	54	16	311	21
10-19	246	152	10	3	15	27	39	26	217	3
20-29	344	289	14	7	7	5	22	20	317	7
30-39	369	342	13	4	-	3	7	9	352	8
40-49	401	376	16	-	2	1	6	6	386	9
50-59	214	187	22	1	-	-	4	10	201	3
>= 60	129	53	76	-	-	-	-	6	119	4
Total	2,052	1,572	162	17	40	129	132	93	1,903	56

Highway User Struck Rail Equip

Consist Speed								Whistle Ban?		
	Total	Freight Train	Psgr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	Yes	No	Unk
Unknown	72	44	-	1	7	16	4	3	64	5
1-9	169	86	1	-	11	50	21	7	158	4
10-19	119	80	4	1	7	13	14	5	112	2
20-29	93	81	3	1	1	3	4	2	90	1
30-39	67	62	3	-	-	1	1	1	64	2
40-49	65	61	2	-	-	1	1	1	63	1
50-59	35	30	4	-	-	-	1	-	35	-
>= 60	23	10	13	-	-	-	-	1	21	1
Total	643	454	30	3	26	84	46	20	607	16

Grand Total

Consist Speed								Whistle Ban?		
	Total	Freight Train	Psgr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	Yes	No	Unk
Unknown	73	45	-	1	7	16	4	3	64	6
1-9	517	258	12	2	27	143	75	23	469	25
10-19	365	232	14	4	22	40	53	31	329	5
20-29	437	370	17	8	8	8	26	22	407	8
30-39	436	404	16	4	-	4	8	10	416	10
40-49	466	437	18	-	2	2	7	7	449	10
50-59	249	217	26	1	-	-	5	10	236	3
>= 60	152	63	89	-	-	-	-	7	140	5
Total	2,695	2,026	192	20	66	213	178	113	2,510	72

**TABLE 8-6 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE WARNING, MOTORIST ACTION, AND WARNING LOCATION**

Rail Equip Struck Highway User

Type Warning	Total		Motorist					Warning Location			
	Cnt	%	Drove around thru gate	Stopped then proceed	Did not stop	Other	Unknown	Not reported	Both sides	Veh Apr	Opp. Veh Apr
Gates	663	24.6	195	23	60	279	106	-	652	10	1
Flashing lights	397	14.7	-	36	238	112	11	-	382	14	1
HWTS, WW, Bells	23	0.9	-	1	11	10	1	-	22	1	-
Watchman	14	0.5	-	2	11	1	-	-	12	1	1
Stop signs	232	8.6	-	33	140	57	2	-	224	8	-
Cross bucks	701	26.0	-	49	453	186	13	-	678	17	6
Other	8	0.3	-	1	4	3	-	-	7	1	-
None	14	0.5	-	2	9	2	1	13	-	1	-
Total	2,052	76.1	195	147	926	650	134	13	1,977	53	9

Highway User Struck Rail Equip

Type Warning	Total		Motorist					Warning Location			
	Cnt	%	Drove around thru gate	Stopped then proceed	Did not stop	Other	Unknown	Not reported	Both sides	Veh Apr	Opp. Veh Apr
Gates	146	5.4	86	6	44	1	9	-	143	3	-
Flashing lights	186	6.9	-	11	169	1	5	-	174	12	-
HWTS, WW, Bells	16	0.6	-	2	14	-	-	-	15	-	1
Watchman	12	0.4	-	3	9	-	-	-	10	2	-
Stop signs	47	1.7	-	2	45	-	-	-	46	1	-
Cross bucks	232	8.6	-	6	218	2	6	-	218	14	-
None	4	0.1	-	-	4	-	-	2	2	-	-
Total	643	23.9	86	30	503	4	20	2	608	32	1

Grand Total

Type Warning	Total		Motorist					Warning Location			
	Cnt	%	Drove around thru gate	Stopped then proceed	Did not stop	Other	Unknown	Not reported	Both sides	Veh Apr	Opp. Veh Apr
Gates	809	30.0	281	29	104	280	115	-	795	13	1
Flashing lights	583	21.6	-	47	407	113	16	-	556	26	1
HWTS, WW, Bells	39	1.4	-	3	25	10	1	-	37	1	1
Watchman	26	1.0	-	5	20	1	-	-	22	3	1
Stop signs	279	10.4	-	35	185	57	2	-	270	9	-
Cross bucks	933	34.6	-	55	671	188	19	-	896	31	6
Other	8	0.3	-	1	4	3	-	-	7	1	-
None	18	0.7	-	2	13	2	1	15	2	1	-
Total	2,695	100.0	281	177	1,429	654	154	15	2,585	85	10

**TABLE 8-7 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE VEHICLE, VEHICLE SPEED AND DRIVER GENDER**

Rail Equip Struck Highway User

Vehicle Speed									Driver Gender	
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	64	41	6	11	4	-	2	2	34	28
Stopped	741	412	175	100	30	4	20	30	530	181
1-9	505	226	141	108	15	3	12	8	380	117
10-19	350	163	112	55	15	-	5	16	249	85
20-29	214	102	72	22	13	1	4	3	158	53
30-39	102	56	28	12	5	-	1	3	72	27
40-49	46	30	12	2	2	-	-	1	33	12
50-59	22	10	7	3	2	-	-	1	16	5
>= 60	8	4	-	3	-	-	1	-	7	1
Total	2,052	1,044	553	316	86	8	45	64	1,479	509

Highway User Struck Rail Equip

Vehicle Speed								Driver Gender		
				Trk& Trail	Van	Oth Mtr V.				
	Total	Car	Trucks				?	M	F	
Unknown	35	15	12	4	3	1	2	24	9	
Stopped	5	4	-	1	-	-	-	3	2	
1-9	163	92	51	12	6	2	6	110	47	
10-19	148	91	41	7	6	3	5	113	30	
20-29	105	55	36	6	5	3	2	80	23	
30-39	67	35	24	1	5	2	-	51	16	
40-49	68	40	22	2	3	1	-	51	17	
50-59	40	19	13	4	4	-	-	31	9	
>= 60	12	7	5	-	-	-	-	10	2	
Total	643	358	204	37	32	12	15	473	155	

Grand Total

Grand Total:										
Vehicle Speed									Driver Gender	
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	99	56	18	15	7	-	3	4	58	37
Stopped	746	416	175	101	30	4	20	30	533	183
1-9	668	318	192	120	21	3	14	14	490	164
10-19	498	254	153	62	21	-	8	21	362	115
20-29	319	157	108	28	18	1	7	5	238	76
30-39	169	91	52	13	10	-	3	3	123	43
40-49	114	70	34	4	5	-	1	1	84	29
50-59	62	29	20	7	6	-	-	1	47	14
>= 60	20	11	5	3	-	-	1	-	17	3
Total	2,695	1,402	757	353	118	8	57	79	1,952	664

**TABLE 8-8 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY VEHICLE SPEED, WEATHER AND CONDITION OF DRIVER**

Rail Equip Struck Highway User

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	64	38	15	9	2	-	-	-	4	11	49
Stopped	741	535	131	47	16	4	8	1	29	87	624
1-9	505	360	93	38	6	-	8	-	53	126	326
10-19	350	264	66	13	4	-	3	-	48	95	207
20-29	214	146	43	24	-	1	-	-	30	65	119
30-39	102	74	18	8	-	-	2	-	13	32	57
40-49	46	36	7	3	-	-	-	-	7	19	20
50-59	22	12	7	2	1	-	-	-	3	9	10
>= 60	8	5	3	-	-	-	-	-	1	1	6
Total	2,052	1,470	383	144	29	5	21	1	188	445	1,418

Highway User Struck Rail Equip

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	35	26	2	4	2	-	1	1	3	15	16
Stopped	5	5	-	-	-	-	-	-	-	-	5
1-9	163	101	36	16	3	1	6	-	7	34	122
10-19	148	100	25	10	7	1	5	-	4	32	112
20-29	105	69	23	10	1	-	2	-	2	31	72
30-39	67	44	9	7	4	-	3	-	5	22	40
40-49	68	45	15	6	1	-	1	-	6	31	31
50-59	40	27	4	5	3	-	1	-	7	16	17
>= 60	12	7	2	3	-	-	-	-	4	5	3
Total	643	424	116	61	21	2	19	1	38	186	418

Grand Total

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	99	64	17	13	4	-	1	1	7	26	65
Stopped	746	540	131	47	16	4	8	1	29	87	629
1-9	668	461	129	54	9	1	14	-	60	160	448
10-19	498	364	91	23	11	1	8	-	52	127	319
20-29	319	215	66	34	1	1	2	-	32	96	191
30-39	169	118	27	15	4	-	5	-	18	54	97
40-49	114	81	22	9	1	-	1	-	13	50	51
50-59	62	39	11	7	4	-	1	-	10	25	27
>= 60	20	12	5	3	-	-	-	-	5	6	9
Total	2,695	1,894	499	205	50	7	40	2	226	631	1,836

**TABLE 8-9 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY DRIVER AGE, GENDER, AND TYPE VEHICLE**

Age	Total		Type Vehicle										Driver Gender	
	Cnt	%	Car	Truck	Trk& Pickup	Van	Bus	School Bus	Motorcycle	Oth Mtr	?	M	F	
					Trail Trk					V.				
Unknown	353	13.1	197	31	48	51	20	-	-	1	5	75	231	47
11-15	9	0.3	6	-	-	1	-	-	-	-	2	-	6	3
16-20	263	9.8	170	19	5	51	9	-	-	1	8	1	169	93
21-25	393	14.6	233	40	38	67	11	-	-	-	4	-	305	88
26-30	274	10.2	138	31	33	57	11	2	-	-	2	1	205	68
31-35	243	9.0	101	46	34	46	8	-	1	-	7	-	182	61
36-40	246	9.1	112	28	41	38	19	-	-	2	6	-	187	59
41-45	198	7.3	82	18	44	40	9	-	-	1	4	-	150	48
46-50	184	6.8	79	27	41	25	7	1	-	1	3	2	139	43
51-55	150	5.6	57	22	25	26	15	1	-	-	4	-	115	35
56-60	91	3.4	38	10	15	23	4	1	-	-	-	-	69	22
61-65	76	2.8	35	7	19	10	3	-	-	-	2	-	54	22
66-70	63	2.3	42	2	7	9	1	1	1	-	-	-	42	21
Other	152	5.6	112	12	3	20	1	-	-	-	4	-	98	54
Total	2,695	100.0	1,402	293	353	464	118	6	2	6	51	79	1,952	664

**TABLE 8-10 MOTOR VEHICLES THAT STRUCK CONSIST AT PUBLIC CROSSINGS, 2001
BY CONSIST LENGTH, PORTION OF TRAIN STRUCK AND WARNING TYPE**

Consist Length	Position of Consist Struck						Type of Warning						
	Total	1st car/ loco	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	None
1	45	44	1	-	-	-	15	9	3	1	3	13	1
2-5	96	78	1	5	4	8	18	32	3	4	8	29	2
6-10	56	37	4	10	4	1	8	19	1	1	3	24	-
11-15	36	28	4	2	1	1	8	14	1	2	1	10	-
16-20	25	16	3	2	1	3	6	5	-	-	2	12	-
21-25	26	14	4	2	4	2	4	7	-	2	3	10	-
26-30	20	8	5	-	4	3	3	6	3	-	1	6	1
31-35	28	12	5	5	3	3	5	8	2	-	1	12	-
36-40	12	3	3	-	2	4	3	3	-	-	-	6	-
41-45	23	11	4	4	1	3	3	5	-	-	3	12	-
46-50	22	11	3	3	2	3	6	9	-	-	1	6	-
51-60	32	21	3	4	2	2	6	10	-	-	1	15	-
61-70	32	18	4	3	2	5	8	10	-	2	2	10	-
71-80	32	16	6	4	3	3	8	8	-	-	5	11	-
81-90	26	13	9	-	2	2	8	9	-	-	3	6	-
91-100	25	13	9	1	1	1	5	9	2	-	1	8	-
> 100	107	43	18	14	19	13	32	23	1	-	9	42	-
-Total	643	386	86	59	55	57	146	186	16	12	47	232	4

**TABLE 8-11 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY CONSIST LENGTH, TYPE CONSIST, AND DRIVER GENDER**

Rail Equip Struck Highway User

Consist Length								Driver Gender		
			Psgm							
	Total	Freight Train	Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	?	M	F
1	109	-	-	-	36	-	73	1	77	31
2-5	216	66	41	9	3	41	56	9	147	60
6-10	183	79	65	-	1	35	3	3	127	53
11-15	107	56	27	2	-	22	-	4	76	27
16-20	97	62	18	2	-	15	-	3	68	26
21-25	73	70	1	1	-	1	-	3	57	13
26-30	74	66	4	-	-	4	-	1	52	21
31-35	67	59	5	-	-	3	-	4	46	17
36-40	68	65	1	1	-	1	-	2	52	14
41-45	53	52	-	-	-	1	-	-	45	8
46-50	67	66	-	-	-	1	-	2	48	17
51-60	142	139	-	1	-	2	-	6	103	33
61-70	121	120	-	-	-	1	-	5	86	30
71-80	117	117	-	-	-	-	-	5	83	29
81-90	107	107	-	-	-	-	-	3	82	22
91-100	119	118	-	1	-	-	-	2	92	25
> 100	332	330	-	-	-	2	-	11	238	83
Total	2,052	1,572	162	17	40	129	132	64	1,479	509

Highway User Struck Rail Equip

Consist Length								Driver Gender		
	Total	Freight Train	Psgrr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	?	M	F
1	45	-	-	-	23	-	22	1	25	19
2-5	96	36	9	1	-	26	24	1	71	24
6-10	56	31	9	1	-	15	-	1	34	21
11-15	36	18	7	1	-	10	-	2	27	7
16-20	25	14	1	-	-	10	-	1	21	3
21-25	26	18	3	-	1	4	-	-	22	4
26-30	20	17	1	-	-	2	-	-	16	4
31-35	28	26	-	-	-	2	-	-	23	5
36-40	12	10	-	-	-	2	-	-	7	5
41-45	23	22	-	-	-	1	-	-	19	4
46-50	22	21	-	-	-	1	-	-	16	6
51-60	32	29	-	-	-	3	-	1	26	5
61-70	32	29	-	-	1	2	-	-	22	10
71-80	32	29	-	-	-	3	-	1	22	9
81-90	26	26	-	-	-	-	-	4	20	2
91-100	25	23	-	-	1	1	-	-	23	2
> 100	107	105	-	-	-	2	-	3	79	25
Total	643	454	30	3	26	84	46	15	473	155

**TABLE 8-12 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE CONSIST, NUMBER OF PEOPLE ON TRAIN, AND TYPE PERSON HURT**

Consist	People on Train		Total		Hwy User		RR Employees		Others	
	Total	Avg	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
Freight Train	4,546	2	245	758	245	718	0	40	0	0
Psgr Train	19,407	136	45	74	45	52	0	12	0	10
Commuter Train	7,769	159	5	18	5	10	0	2	0	6
Work Train	44	2	-	9	0	6	0	3	0	0
Single Car	3	1	-	1	0	1	0	0	0	0
Cut of Cars	5	2	3	2	3	2	0	0	0	0
Yard/ Switch	577	3	5	59	5	56	0	3	0	0
Light loco(s)	442	2	10	48	10	44	0	4	0	0
Maint Insp car	76	1	2	26	2	20	0	6	0	0
Total	32,869	12	315	995	315	909	0	70	0	16

**TABLE 8-13 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE VEHICLE, NUMBER OF OCCUPANTS, AND VEHICLE DAMAGE**

Vehicle	People in Vehicles		Reported Vehicle Damage		Total		Hwy User		RR Employees		Others	
	Total	Avg	Total	Avg	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
Car	1,678	1	4,559,949	3,252	163	513	163	495	0	8	0	10
Truck	336	1	2,115,250	7,219	39	130	39	117	0	12	0	1
Trk& Trail	372	1	4,308,265	12,205	14	97	14	60	0	36	0	1
Pickup Trk	551	1	2,303,238	4,964	67	179	67	173	0	5	0	1
Van	164	1	505,350	4,283	25	47	25	40	0	5	0	2
Bus	24	4	214,400	35,733	-	6	0	5	0	1	0	0
School Bus	2	1	2,500	1,250	-	1	0	1	0	0	0	0
Motorcycle	5	1	15,800	2,633	1	2	1	2	0	0	0	0
Oth Mtr V.	48	1	520,651	10,209	6	20	6	16	0	3	0	1
Total	3,180	1	14,545,403	5,397	315	995	315	909	0	70	0	16

**TABLE 8-14 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE WARNING, POSITION ON CROSSING AND IF HAZMAT WAS RELEASED**

Rail Equip Struck Highway User

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Both	Neither
Gates	663	24.6	110	246	275	32	3	138	4	518
Flashing lights	397	14.7	22	98	274	3	3	70	2	322
HWTS, WW, Bells	23	0.9	3	7	13	-	-	5	-	18
Watchman	14	0.5	-	1	13	-	-	1	-	13
Stop signs	232	8.6	12	46	173	1	1	51	3	177
Cross bucks	701	26.0	39	151	505	6	3	159	3	536
Other	8	0.3	2	1	5	-	-	1	-	7
None	14	0.5	1	2	11	-	-	1	-	13
Total	2,052	76.1	189	552	1,269	42	10	426	12	1,604

Highway User Struck Rail Equip

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Neither	
Gates	146	5.4	-	1	144	1	3	29	114	
Flashing lights	186	6.9	-	1	184	1	-	34	152	
HWTS, WW, Bells	16	0.6	-	1	15	-	-	1	15	
Watchman	12	0.4	-	-	12	-	-	-	12	
Stop signs	47	1.7	-	-	47	-	-	6	41	
Cross bucks	232	8.6	1	2	229	-	1	46	185	
None	4	0.1	-	-	4	-	-	-	4	
Total	643	23.9	1	5	635	2	4	116	523	

Grand Total

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Both	Neither
Gates	809	30.0	110	247	419	33	6	167	4	632
Flashing lights	583	21.6	22	99	458	4	3	104	2	474
HWTS, WW, Bells	39	1.4	3	8	28	-	-	6	-	33
Watchman	26	1.0	-	1	25	-	-	1	-	25
Stop signs	279	10.4	12	46	220	1	1	57	3	218
Cross bucks	933	34.6	40	153	734	6	4	205	3	721
Other	8	0.3	2	1	5	-	-	1	-	7
None	18	0.7	1	2	15	-	-	1	-	17
Total	2,695	100.0	190	557	1,904	44	14	542	12	2,127

**TABLE 8-15 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, 2001
BY TYPE VEHICLE AND WARNING**

Rail Equip Struck Highway User

Type Vehicle	Total		Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	Other	None
	Cnt	%								
Car	1,044	38.7	392	210	12	6	101	312	6	5
Truck	227	8.4	57	47	5	2	35	78	1	2
Trk& Trail	316	11.7	85	59	5	4	47	111	1	4
Pickup Trk	326	12.1	75	57	1	-	39	153	-	1
Van	86	3.2	33	21	-	1	5	24	-	2
Bus	6	0.2	4	-	-	-	-	2	-	-
School Bus	2	0.1	1	-	-	-	-	1	-	-
Motorcycle	4	0.1	4	-	-	-	-	-	-	-
Oth Mtr V.	41	1.5	12	3	-	1	5	20	-	-
Total	2,052	76.1	663	397	23	14	232	701	8	14

Highway User Struck Rail Equip

Type Vehicle	Total		Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	None
	Cnt	%							
Car	358	13.3	94	102	11	9	23	116	3
Truck	66	2.4	11	19	2	2	6	26	-
Trk& Trail	37	1.4	10	15	1	1	1	9	-
Pickup Trk	138	5.1	19	42	2	-	14	61	-
Van	32	1.2	11	7	-	-	1	12	1
Motorcycle	2	0.1	-	-	-	-	-	2	-
Oth Mtr V.	10	0.4	1	1	-	-	2	6	-
Total	643	23.9	146	186	16	12	47	232	4

Grand Total

Type Vehicle	Total		Gates	Flashing lights	HWTS, WW, Bells	Watchman	Stop signs	Cross bucks	Other	None
	Cnt	%								
Car	1,402	52.0	486	312	23	15	124	428	6	8
Truck	293	10.9	68	66	7	4	41	104	1	2
Trk& Trail	353	13.1	95	74	6	5	48	120	1	4
Pickup Trk	464	17.2	94	99	3	-	53	214	-	1
Van	118	4.4	44	28	-	1	6	36	-	3
Bus	6	0.2	4	-	-	-	-	2	-	-
School Bus	2	0.1	1	-	-	-	-	1	-	-
Motorcycle	6	0.2	4	-	-	-	-	2	-	-
Oth Mtr V.	51	1.9	13	4	-	1	7	26	-	-
Total	2,695	100.0	809	583	39	26	279	933	8	18

**TABLE 8-16 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING, 2001
BY WARNING STATUS FOR ACCIDENTS OCCURRING AT CROSSINGS
WITH TRAIN ACTIVATED DEVICES BY TYPE VEHICLE**

Rail Equip Struck Highway User

Type Vehicle	Status of Warning System								
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm < 20 Secs.	Confirm No Warning
Car	614	3	575	14	8	8	1	2	3
Truck	109	-	104	1	3	1	-	-	-
Trk& Trail	149	-	142	6	1	-	-	-	-
Pickup Trk	133	-	126	3	1	-	-	-	3
Van	54	1	51	1	-	-	-	-	1
Bus	4	-	2	2	-	-	-	-	-
School Bus	1	-	1	-	-	-	-	-	-
Motorcycle	4	-	4	-	-	-	-	-	-
Oth Mtr V.	15	-	15	-	-	-	-	-	-
Total	1,083	4	1,020	27	13	9	1	2	7

Highway User Struck Rail Equip

Type Vehicle	Status of Warning System							
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	207	3	197	-	2	1	1	3
Truck	32	-	30	1	-	1	-	-
Trk& Trail	26	-	25	1	-	-	-	-
Pickup Trk	63	-	61	-	-	-	-	2
Van	18	-	17	-	-	-	-	1
Oth Mtr V.	2	-	2	-	-	-	-	-
Total	348	3	332	2	2	2	1	6

Grand Total

Type Vehicle	Status of Warning System								
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm < 20 Secs.	Confirm No Warning
Car	821	6	772	14	10	9	2	2	6
Truck	141	-	134	2	3	2	-	-	-
Trk& Trail	175	-	167	7	1	-	-	-	-
Pickup Trk	196	-	187	3	1	-	-	-	5
Van	72	1	68	1	-	-	-	-	2
Bus	4	-	2	2	-	-	-	-	-
School Bus	1	-	1	-	-	-	-	-	-
Motorcycle	4	-	4	-	-	-	-	-	-
Oth Mtr V.	17	-	17	-	-	-	-	-	-
Total	1,431	7	1,352	29	15	11	2	2	13

CHAPTER 9

HIGHWAY-RAIL CROSSING INVENTORY

The Federal-Aid Highway Act of 1973 (Section 203) required that each State highway agency maintain an inventory of all crossings. According to the implementing instructions contained in the Federal-Aid Policy Guide, maintaining the National Inventory will satisfy the legislative requirement for a State Inventory. A primary purpose of the National Inventory is to provide for the existence of a uniform inventory database, which can be merged with accident/incident files and used to analyze information for planning and implementation of crossing improvement programs.

Railroads, with direction and guidance from the Association of American Railroads and the American Short Line Association, were assigned the responsibility for making a site-specific inventory of each highway-rail crossing and for installing a unique identifying number at each location. The railroads were also identified as being responsible for periodic updating of certain inventory information and maintenance of the crossing number.

The State highway-departments assisted in the project by providing site-specific highway location and use data. State public utility commissions and other State and local governmental agencies also participated in the project. The responsibility for the updating of certain highway information data items was determined to be the responsibility of the State and/or local governmental agencies.

The Inventory Data File is a record of grade crossing location, physical, and operational characteristics to provide information for the administration and statistical analysis of crossings. This information is reported on a voluntary basis to the FRA on the U.S. DOT-AAR Crossing Inventory Form.

The information contained on highway-rail incident reports is routinely merged with inventory data and the consolidated file is used for the development of Federal programs, funding alternatives for crossing improvement, studies related to railroad safety programs, effectiveness of warning devise, and for other safety programs and issues.

Although the inventory contains information on grade separated crossings, the counts appearing in this section are only for at-grade crossings, i.e., the locations where the potential exists for an impact between a rail and a highway user.

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TABLE 9-1 AT-GRADE HIGHWAY-RAIL CROSSINGS BY RAILROAD, 2001

Railroads	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alton & Southern	42	0.0	-	-	26	0.0	16	0.0
Alaska RR Corp.	337	0.1	8	0.0	109	0.0	220	0.1
Amtrak	297	0.1	13	0.0	61	0.0	223	0.1
Bangor & Aroostook	504	0.2	5	0.0	341	0.1	158	0.1
Bessemer & Lake Erie RR	238	0.1	2	0.0	96	0.0	140	0.1
Burlington Northern Santa Fe	34,774	13.7	253	0.1	13,471	5.3	21,050	8.3
Belt Rwy Of Chicago	120	0.0	-	-	76	0.0	44	0.0
Consolidated Rail Corp.	5,019	2.0	58	0.0	1,607	0.6	3,354	1.3
Conrail Shared Assets	89	0.0	-	-	27	0.0	62	0.0
CSX Transportation	30,362	11.9	324	0.1	10,334	4.1	19,704	7.7
Delaware & Hudson	710	0.3	16	0.0	411	0.2	283	0.1
Dakota, Minnesota & Eastern	1,368	0.5	2	0.0	554	0.2	812	0.3
Duluth, Missabe & Iron Range	270	0.1	1	0.0	129	0.1	140	0.1
Duluth, Winnipeg & Pacific	101	0.0	-	-	20	0.0	81	0.0
Elgin, Joliet & Eastern	286	0.1	8	0.0	93	0.0	185	0.1
Florida East Coast	851	0.3	11	0.0	110	0.0	730	0.3
Guilford Rail System	1,713	0.7	13	0.0	609	0.2	1,091	0.4
Grand Trunk Western RR	1,224	0.5	9	0.0	380	0.1	835	0.3
Gateway Western	572	0.2	4	0.0	246	0.1	322	0.1
Illinois Central	5,610	2.2	65	0.0	2,132	0.8	3,413	1.3
Indiana Harbor Belt	123	0.0	2	0.0	46	0.0	75	0.0
I & M Rail Link, LLC	927	0.4	6	0.0	441	0.2	480	0.2
Kansas City Southern	4,271	1.7	11	0.0	1,644	0.6	2,616	1.0
Long Island Rail Road	395	0.2	9	0.0	83	0.0	303	0.1
Mass Bay Transit Auth.	163	0.1	3	0.0	48	0.0	112	0.0
Metro North Commuter	128	0.1	1	0.0	64	0.0	63	0.0
Montana Rail Link	1,160	0.5	3	0.0	707	0.3	450	0.2
Northern IN Comm Trans	153	0.1	7	0.0	24	0.0	122	0.0
Northeast IL Reg Comm	229	0.1	22	0.0	36	0.0	171	0.1
New Jersey Transit Rail	458	0.2	26	0.0	89	0.0	343	0.1
Norfolk Southern Corp.	33,321	13.1	139	0.1	12,887	5.1	20,295	8.0
Paducah & Louisville	451	0.2	3	0.0	186	0.1	262	0.1
Port Auth Trans Hudson	2	0.0	-	-	2	0.0	-	-
Port Terminal RR Assn	163	0.1	1	0.0	97	0.0	65	0.0
Southern CA Reg Rail Auth.	393	0.2	17	0.0	46	0.0	330	0.1
Southeastern PA Trans.	289	0.1	8	0.0	48	0.0	233	0.1
Soo Line	2,608	1.0	15	0.0	1,336	0.5	1,257	0.5
Texas Mexican	427	0.2	-	-	196	0.1	231	0.1
Term RR Assn Of St. Louis	126	0.0	-	-	11	0.0	115	0.0
Union Pacific	50,514	19.9	321	0.1	19,898	7.8	30,295	11.9
Union RR (Pittsburgh)	59	0.0	6	0.0	39	0.0	14	0.0
Wisconsin Central Ltd.	3,974	1.6	48	0.0	1,474	0.6	2,452	1.0
Wheeling & Lake Erie	972	0.4	9	0.0	402	0.2	561	0.2
Other Railroads	68,662	27.0	515	0.2	27,653	10.9	40,494	15.9
Total	254,455	100.0	1,964	0.8	98,289	38.6	154,202	60.6

TABLE 9-2 AT-GRADE HIGHWAY-RAIL CROSSINGS BY STATE, 2001

States	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	5,327	2.1	20	0.0	1,879	0.7	3,428	1.3
Alaska	341	0.1	8	0.0	109	0.0	224	0.1
Arizona	1,643	0.6	7	0.0	695	0.3	941	0.4
Arkansas	4,688	1.8	9	0.0	1,516	0.6	3,163	1.2
California	12,776	5.0	160	0.1	4,773	1.9	7,843	3.1
Colorado	3,305	1.3	22	0.0	1,338	0.5	1,945	0.8
Connecticut	649	0.3	8	0.0	277	0.1	364	0.1
Delaware	456	0.2	2	0.0	148	0.1	306	0.1
Dist Of Columbia	42	0.0	11	0.0	8	0.0	23	0.0
Florida	5,326	2.1	59	0.0	1,302	0.5	3,965	1.6
Georgia	8,433	3.3	39	0.0	2,510	1.0	5,884	2.3
Hawaii	8	0.0	-	-	-	-	8	0.0
Idaho	2,558	1.0	12	0.0	1,210	0.5	1,336	0.5
Illinois	13,409	5.3	278	0.1	4,880	1.9	8,251	3.2
Indiana	8,832	3.5	68	0.0	2,407	0.9	6,357	2.5
Iowa	9,239	3.6	44	0.0	4,076	1.6	5,119	2.0
Kansas	10,761	4.2	32	0.0	4,124	1.6	6,605	2.6
Kentucky	5,065	2.0	39	0.0	2,516	1.0	2,510	1.0
Louisiana	6,742	2.6	36	0.0	3,186	1.3	3,520	1.4
Maine	1,684	0.7	9	0.0	835	0.3	840	0.3
Maryland	1,394	0.5	7	0.0	692	0.3	695	0.3
Massachusetts	1,663	0.7	18	0.0	514	0.2	1,131	0.4
Michigan	8,024	3.2	66	0.0	2,557	1.0	5,401	2.1
Minnesota	8,200	3.2	50	0.0	3,059	1.2	5,091	2.0
Mississippi	4,731	1.9	16	0.0	1,968	0.8	2,747	1.1
Missouri	8,031	3.2	70	0.0	3,248	1.3	4,713	1.9
Montana	3,514	1.4	16	0.0	2,007	0.8	1,491	0.6
Nebraska	6,581	2.6	16	0.0	2,749	1.1	3,816	1.5
Nevada	571	0.2	3	0.0	267	0.1	301	0.1
New Hampshire	637	0.3	10	0.0	224	0.1	403	0.2
New Jersey	2,494	1.0	50	0.0	586	0.2	1,858	0.7
New Mexico	1,353	0.5	1	0.0	578	0.2	774	0.3
New York	6,029	2.4	69	0.0	2,970	1.2	2,990	1.2
North Carolina	7,831	3.1	55	0.0	3,255	1.3	4,521	1.8
North Dakota	6,353	2.5	19	0.0	2,003	0.8	4,331	1.7
Ohio	9,700	3.8	30	0.0	3,222	1.3	6,448	2.5
Oklahoma	5,908	2.3	15	0.0	1,611	0.6	4,282	1.7
Oregon	5,240	2.1	91	0.0	2,836	1.1	2,313	0.9
Pennsylvania	8,717	3.4	119	0.0	3,191	1.3	5,407	2.1
Rhode Island	190	0.1	1	0.0	71	0.0	118	0.0
South Carolina	4,282	1.7	11	0.0	1,297	0.5	2,974	1.2
South Dakota	3,495	1.4	6	0.0	1,349	0.5	2,140	0.8
Tennessee	5,091	2.0	25	0.0	1,837	0.7	3,229	1.3
Texas	18,017	7.1	35	0.0	6,108	2.4	11,874	4.7
Utah	1,682	0.7	3	0.0	721	0.3	958	0.4
Vermont	1,176	0.5	44	0.0	636	0.2	496	0.2
Virginia	4,841	1.9	44	0.0	2,746	1.1	2,051	0.8
Washington	5,757	2.3	59	0.0	2,919	1.1	2,779	1.1
West Virginia	3,595	1.4	57	0.0	1,953	0.8	1,585	0.6
Wisconsin	6,887	2.7	93	0.0	2,568	1.0	4,226	1.7
Wyoming	1,187	0.5	2	0.0	758	0.3	427	0.2
Total	254,455	100.0	1,964	0.8	98,289	38.6	154,202	60.6

TABLE 9-3 PUBLIC AT GRADE BY WARNING DEVICE AND RAILROAD, 2001

Railroads	Total									
	Cnt	%	Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates
Alton & Southern	16	0.01	-	-	3	-	-	-	7	6
Alaska RR Corp.	220	0.14	8	2	95	27	7	-	30	51
Amtrak	223	0.14	4	3	4	4	5	-	4	199
Bangor & Aroostook	158	0.10	-	-	57	4	5	-	87	5
Bessemer & Lake Erie RR	140	0.09	2	-	70	-	2	-	29	37
Burlington Northern Santa Fe	21,050	13.65	428	29	11,362	915	178	118	2,591	5,429
Belt Rwy Of Chicago	44	0.03	5	-	14	-	1	-	8	16
Consolidated Rail Corp.	3,354	2.18	394	133	920	58	602	66	885	296
Conrail Shared Assets	62	0.04	15	-	8	-	23	-	12	4
CSX Transportation	19,704	12.78	480	9	5,859	1,626	410	97	4,292	6,931
Delaware & Hudson	283	0.18	2	-	46	4	1	3	40	187
Dakota, Minnesota & Eastern	812	0.53	31	-	602	47	-	3	101	28
Duluth, Missabe & Iron Range	140	0.09	1	3	73	32	2	-	16	13
Duluth, Winnipeg & Pacific	81	0.05	-	-	42	14	1	-	9	15
Elgin, Joliet & Eastern	185	0.12	-	-	23	2	7	2	53	98
Florida East Coast	730	0.47	9	-	46	3	27	-	31	614
Guilford Rail System	1,091	0.71	46	2	258	33	174	24	321	233
Grand Trunk Western RR	835	0.54	6	-	39	200	26	3	165	396
Gateway Western	322	0.21	-	-	181	9	-	15	89	28
Illinois Central	3,413	2.21	150	51	1,427	294	48	19	811	613
Indiana Harbor Belt	75	0.05	2	-	5	-	15	-	20	33
I & M Rail Link, LLC	480	0.31	3	-	276	41	12	4	104	40
Kansas City Southern	2,616	1.70	111	11	1,476	166	2	7	461	382
Long Island Rail Road	303	0.20	-	1	8	-	-	-	-	294
Mass Bay Transit Auth.	112	0.07	1	-	2	-	26	1	18	64
Metro North Commuter	63	0.04	2	-	3	-	1	1	36	20
Montana Rail Link	450	0.29	6	-	267	45	-	1	64	67
Northern IN Comm Trans	122	0.08	1	-	5	27	-	7	42	40
Northeast IL Reg Comm	171	0.11	1	-	4	1	-	1	14	150
New Jersey Transit Rail	343	0.22	7	-	28	1	10	1	79	217
Norfolk Southern Corp.	20,295	13.16	654	98	7,286	1,756	454	105	3,830	6,112
Paducah & Louisville	262	0.17	3	1	121	9	1	3	104	20
Port Terminal RR Assn	65	0.04	5	-	25	1	-	-	11	23
Southern CA Reg Rail Auth.	330	0.21	-	-	31	4	-	-	20	275
Southeastern PA Trans.	233	0.15	45	10	27	9	17	21	63	41
Soo Line	1,257	0.82	56	-	659	173	9	2	158	200
Texas Mexican	231	0.15	7	-	137	6	10	-	53	18
Term RR Assn Of St. Louis	115	0.07	1	-	11	2	41	-	17	43
Union Pacific	30,295	19.65	1,202	48	14,438	1,808	276	377	4,290	7,856
Union RR (Pittsburgh)	14	0.01	-	-	-	-	-	10	1	3
Wisconsin Central Ltd.	2,452	1.59	17	-	1,090	359	18	14	661	293
Wheeling & Lake Erie	561	0.36	10	-	275	22	1	3	140	110
Other Railroads	40,494	26.26	1,470	238	22,658	3,803	1,178	434	6,791	3,922
Total	154,202	100.0	5,185	639	69,961	11,505	3,590	1,342	26,558	35,422

TABLE 9-4 PUBLIC AT GRADE BY WARNING DEVICE AND STATE, 2001

States	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates	AADT
	Cnt	%									
Alabama	3,428	2.22	108	10	1,458	684	24	14	610	520	6,887,780
Alaska	224	0.15	9	2	98	27	7	-	30	51	479,358
Arizona	941	0.61	24	-	349	101	11	5	66	385	2,994,009
Arkansas	3,163	2.05	123	1	1,932	206	68	29	430	374	3,848,487
California	7,843	5.09	174	19	2,855	325	42	274	998	3,156	40,996,053
Colorado	1,945	1.26	66	3	930	231	34	37	246	398	4,009,344
Connecticut	364	0.24	13	-	29	45	26	5	142	104	1,275,237
Delaware	306	0.20	15	-	48	4	21	1	168	49	1,071,492
Dist Of Columbia	23	0.01	8	-	1	3	9	-	2	-	179,150
Florida	3,965	2.57	55	5	826	155	90	10	557	2,267	19,134,870
Georgia	5,884	3.82	169	7	2,444	1,099	111	14	307	1,733	9,139,826
Hawaii	8	0.01	-	1	6	1	-	-	-	-	27,000
Idaho	1,336	0.87	14	-	452	555	2	4	174	135	1,711,986
Illinois	8,251	5.35	198	1	3,247	57	118	79	2,236	2,315	17,719,136
Indiana	6,357	4.12	121	7	2,135	944	74	88	1,484	1,504	13,294,447
Iowa	5,119	3.32	78	1	2,922	373	38	28	985	694	5,319,794
Kansas	6,605	4.28	115	12	4,533	254	69	45	600	977	4,791,848
Kentucky	2,510	1.63	118	1	1,072	53	51	15	790	410	4,003,416
Louisiana	3,520	2.28	216	15	1,740	256	36	26	653	578	7,110,360
Maine	840	0.54	4	-	273	12	70	5	401	75	1,991,034
Maryland	695	0.45	28	1	257	38	27	23	213	108	2,471,228
Massachusetts	1,131	0.73	50	2	193	9	175	29	408	265	4,163,931
Michigan	5,401	3.50	151	5	1,173	1,624	96	30	1,378	944	15,132,591
Minnesota	5,091	3.30	99	3	2,956	698	17	12	570	736	6,674,280
Mississippi	2,747	1.78	176	124	1,079	539	47	8	526	248	4,858,481
Missouri	4,713	3.06	217	4	2,658	121	93	53	913	654	4,927,454
Montana	1,491	0.97	52	-	984	88	10	3	164	190	1,311,516
Nebraska	3,816	2.47	111	11	2,570	202	4	9	260	649	2,446,133
Nevada	301	0.20	5	-	132	10	1	1	23	129	895,881
New Hampshire	403	0.26	2	2	110	39	80	10	125	35	1,039,669
New Jersey	1,858	1.20	121	2	398	19	234	17	659	408	10,995,200
New Mexico	774	0.50	8	4	415	21	1	6	104	215	890,336
New York	2,990	1.94	78	20	623	21	171	48	490	1,539	7,527,882
North Carolina	4,521	2.93	191	7	1,962	63	148	17	704	1,429	9,192,266
North Dakota	4,331	2.81	148	-	3,563	68	1	-	65	486	1,265,746
Ohio	6,448	4.18	91	10	2,658	170	72	31	1,123	2,293	14,214,092
Oklahoma	4,282	2.78	65	7	2,778	123	64	23	616	606	4,671,620
Oregon	2,313	1.50	123	43	863	437	90	44	136	577	4,537,462
Pennsylvania	5,407	3.51	440	282	1,801	118	612	104	1,304	746	16,318,702
Rhode Island	118	0.08	22	1	7	4	22	22	24	16	547,375
South Carolina	2,974	1.93	21	-	1,127	385	117	2	467	855	5,853,383
South Dakota	2,140	1.39	75	-	1,819	29	-	1	197	19	1,271,486
Tennessee	3,229	2.09	197	2	1,533	165	174	16	700	442	6,748,271
Texas	11,874	7.70	499	10	5,906	322	99	67	1,569	3,402	28,281,432
Utah	958	0.62	68	5	402	49	82	5	159	188	1,852,480
Vermont	496	0.32	6	-	196	25	42	3	193	31	736,535
Virginia	2,051	1.33	47	1	504	10	56	9	472	952	5,839,437
Washington	2,779	1.80	275	2	1,387	102	45	27	382	559	5,200,273
West Virginia	1,585	1.03	129	6	713	25	17	5	464	226	1,772,977
Wisconsin	4,226	2.74	46	-	1,698	579	91	37	1,197	578	9,422,141
Wyoming	427	0.28	16	-	146	17	1	1	74	172	326,459
Total	154,202	100.0	5,185	639	69,961	11,505	3,590	1,342	26,558	35,422	327,371,346

TABLE 9-5 PRIVATE/PEDESTRIAN AT GRADE BY DEVELOPMENT AND RAILROAD,2001

Railroads	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alton & Southern	26	0.03	-	8	5	-	13
Alaska RR Corp.	109	0.11	-	4	15	5	85
Amtrak	61	0.06	-	32	13	2	14
Bangor & Aroostook	341	0.35	-	148	33	45	115
Bessemer & Lake Erie RR	96	0.10	-	38	12	2	44
Burlington Northern Santa Fe	13,471	13.70	2	9,393	932	151	2,993
Belt Rwy Of Chicago	76	0.08	-	-	-	-	76
Consolidated Rail Corp.	1,607	1.63	-	666	155	51	735
Conrail Shared Assets	27	0.03	-	-	1	1	25
CSX Transportation	10,335	10.51	394	5,533	1,863	189	2,356
Delaware & Hudson	411	0.42	-	275	48	36	52
Dakota,Minnesota & Eastern	554	0.56	-	477	8	1	68
Duluth,Missabe & Iron Range	129	0.13	-	24	17	1	87
Duluth,Winnipeg & Pacific	20	0.02	-	4	4	7	5
Elgin, Joliet & Eastern	93	0.09	-	38	1	-	54
Florida East Coast	112	0.11	85	4	3	-	20
Guilford Rail System	610	0.62	-	207	64	21	318
Grand Trunk Western RR	380	0.39	-	277	26	6	71
Gateway Western	246	0.25	-	216	2	1	27
Illinois Central	2,132	2.17	-	1,441	224	14	453
Indiana Harbor Belt	46	0.05	1	-	2	-	43
I & M Rail Link, LLC	441	0.45	-	294	81	15	51
Kansas City Southern	1,644	1.67	-	1,086	199	10	349
Long Island Rail Road	83	0.08	1	67	4	3	8
Mass Bay Transit Auth.	48	0.05	-	15	8	6	19
Metro North Commuter	64	0.07	-	14	9	7	34
Montana Rail Link	707	0.72	-	488	64	16	139
Northern IN Comm Trans	24	0.02	-	8	1	-	15
Northeast IL Reg Comm	36	0.04	-	12	8	1	15
New Jersey Transit Rail	89	0.09	-	35	16	4	34
Norfolk Southern Corp.	12,887	13.11	902	7,097	2,334	200	2,354
Paducah & Louisville	186	0.19	-	118	30	1	37
Port Auth Trans Hudson	2	0.00	-	1	-	-	1
Port Terminal RR Assn	97	0.10	-	1	-	-	96
Southern CA Reg Rail Auth.	46	0.05	-	13	6	3	24
Southeastern PA Trans.	48	0.05	-	20	12	2	14
Soo Line	1,336	1.36	-	1,084	60	12	180
Texas Mexican	196	0.20	1	118	18	2	57
Term RR Assn Of St. Louis	11	0.01	-	3	-	-	8
Union Pacific	19,899	20.24	190	12,936	1,588	215	4,970
Union RR (Pittsburgh)	39	0.04	-	-	-	-	39
Wisconsin Central Ltd.	1,474	1.50	-	853	152	45	424
Wheeling & Lake Erie	402	0.41	-	216	36	6	144
Other Railroads	27,659	28.14	171	16,983	3,532	541	6,432
Total	98,300	100.0	1,747	60,247	11,586	1,622	23,098

TABLE 9-6 PRIVATE/PEDESTRIAN AT GRADE BY TYPE DEVELOPMENT AND STATE, 2001

States	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alabama	1,879	1.91	5	1,080	322	31	441
Alaska	109	0.11	-	4	15	5	85
Arizona	695	0.71	1	400	24	12	258
Arkansas	1,516	1.54	-	998	225	20	273
California	4,774	4.86	9	2,101	339	122	2,203
Colorado	1,338	1.36	2	812	242	16	266
Connecticut	277	0.28	1	54	39	35	148
Delaware	148	0.15	-	82	37	4	25
Dist Of Columbia	8	0.01	-	-	-	-	8
Florida	1,311	1.33	215	423	185	25	463
Georgia	2,510	2.55	-	1,376	601	32	501
Idaho	1,210	1.23	1	769	51	9	380
Illinois	4,880	4.96	1	3,192	425	70	1,192
Indiana	2,406	2.45	5	1,584	291	28	498
Iowa	4,076	4.15	-	3,042	330	50	654
Kansas	4,124	4.20	-	3,508	197	7	412
Kentucky	2,516	2.56	-	1,464	681	16	355
Louisiana	3,186	3.24	-	1,738	490	21	937
Maine	835	0.85	-	348	113	73	301
Maryland	692	0.70	-	394	72	16	210
Massachusetts	514	0.52	-	168	63	38	245
Michigan	2,557	2.60	-	1,319	374	123	741
Minnesota	3,059	3.11	1	2,191	242	52	573
Mississippi	1,968	2.00	2	1,302	391	7	266
Missouri	3,248	3.30	1	2,310	338	25	574
Montana	2,007	2.04	-	1,573	106	25	303
Nebraska	2,749	2.80	-	2,426	83	13	227
Nevada	267	0.27	191	28	3	8	37
New Hampshire	225	0.23	2	112	32	23	56
New Jersey	586	0.60	1	195	63	11	316
New Mexico	578	0.59	-	427	28	2	121
New York	2,970	3.02	5	2,007	330	96	532
North Carolina	3,255	3.31	1	1,608	829	30	787
North Dakota	2,003	2.04	-	1,786	25	10	182
Ohio	3,222	3.28	-	2,110	286	37	789
Oklahoma	1,611	1.64	-	1,206	149	10	246
Oregon	2,837	2.89	-	1,352	335	41	1,109
Pennsylvania	3,191	3.25	4	1,376	470	148	1,193
Rhode Island	71	0.07	-	7	18	9	37
South Carolina	1,297	1.32	-	655	303	20	319
South Dakota	1,349	1.37	-	1,126	81	4	138
Tennessee	1,837	1.87	-	1,071	386	25	355
Texas	6,108	6.21	3	4,050	517	34	1,504
Utah	721	0.73	-	473	35	16	197
Vermont	636	0.65	-	441	63	27	105
Virginia	2,746	2.79	1,293	965	192	18	278
Washington	2,919	2.97	-	1,411	373	54	1,081
West Virginia	1,953	1.99	1	854	596	42	460
Wisconsin	2,568	2.61	1	1,677	184	81	625
Wyoming	758	0.77	1	652	12	1	92
Total	98,300	100.0	1,747	60,247	11,586	1,622	23,098

CHAPTER 10

TRESPASSERS, NOT AT HIGHWAY-RAIL CROSSINGS

A “trespasser” is defined as any person who is on that part of railroad property used in railroad operation and whose presence is prohibited, forbidden, or unlawful. Employees who are trespassing on railroad property are to be reported as “Trespassers” (Class E).

A person on a highway-rail crossing should not be classified as a trespasser unless the crossing is protected by gates, or other similar barriers that were closed when the person went on the crossing, or unless the person attempted to pass over, under, or between cars or locomotives of a consist occupying the crossing. Although these individuals are identified as “trespassers” on form FRA F 6180.55a, they are excluded from this chapter because the incident is defined as a highway-rail incident. These casualties can be found in Chapters 7 and 8 that summarize highway-rail crossing incidents.

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TABLE 10-1 REPORTABLE CONDITIONS TO TRESPASSERS NOT AT HRC, 2001

Condition	Age of Trespasser															>
	Tot	Unk	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	60	
Bruise/contusion	63	14	1	-	3	6	5	7	4	9	5	4	3	2	-	-
Sprain/Str.,arm/hand	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Sprain/Str.,head/fac	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
Sprain/Str.,torso	3	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-
Sprain/Str., other	2	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Cut/abrasion	64	2	1	2	4	8	11	6	10	3	6	6	2	-	3	-
Puncture wound	3	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
Electric shock/burn	6	1	-	-	-	4	1	-	-	-	-	-	-	-	-	-
Dislocation	3	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-
Fracture,arm/hand	21	3	-	-	1	1	5	-	4	2	-	4	1	-	-	-
Fracture,leg/foot	42	2	-	1	3	6	7	7	4	7	1	2	1	1	-	-
Fracture,head/face	7	-	-	-	1	1	-	1	-	3	-	1	-	-	-	-
Fracture,torso	20	2	-	-	1	1	1	4	2	1	5	1	1	1	-	-
Fracture,multiple	6	-	-	-	2	-	1	-	-	1	1	1	-	-	-	-
Fracture,other	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Amputation,arm/hand	18	2	-	-	-	2	3	1	4	2	1	1	-	1	1	-
Amputation,leg/foot	50	3	-	3	7	4	9	7	4	4	2	5	1	-	1	-
Amputation,other	2	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-
Fatality	511	70	3	-	23	43	62	51	45	59	47	40	28	9	31	-
Concussion	7	1	-	-	-	2	1	1	1	-	1	-	-	-	-	-
Internal injury	9	-	-	-	1	1	-	1	-	3	-	1	-	1	1	-
Unspecified injury	73	6	1	-	3	7	20	3	9	7	5	5	2	-	5	-
Total	915	106	6	6	50	87	131	91	87	104	77	73	40	15	42	-

TABLE 10-2 TRESPASSERS KILLED, BY RAILROAD AND AGE, NOT AT HRC,2001

Railroads	Age of Trespasser														>
	Tot	Unk	1-5	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	60	
Amtrak	67	29	1	3	7	2	2	4	6	4	1	-	1	7	
Burlington Northern Santa Fe	62	15	-	1	1	11	4	5	9	5	4	4	-	3	
Conrail Shared Assets	5	-	-	-	-	-	-	-	2	2	1	-	-	-	
CSX Transportation	78	-	-	2	6	21	4	7	8	12	4	6	2	6	
Delaware & Hudson	3	-	-	-	-	-	-	1	1	-	1	-	-	-	
Florida East Coast	10	5	-	-	-	1	1	-	1	1	1	-	-	-	
Guilford Rail System	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Grand Trunk Western RR	3	1	-	1	-	-	-	-	-	-	-	-	-	1	
Gateway Western	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
Illinois Central	4	-	-	-	1	-	-	-	-	1	1	-	-	1	
I & M Rail Link, LLC	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Kansas City Southern	6	1	-	-	3	-	-	-	-	-	1	-	1	-	
Long Island Rail Road	6	4	-	-	1	-	-	1	-	-	-	-	-	-	
Mass Bay Transit Auth.	10	2	-	-	1	-	-	-	2	2	1	2	-	-	
Metro North Commuter	2	-	-	-	-	-	1	-	-	-	1	-	-	-	
Montana Rail Link	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
Northeast IL Reg Comm	8	2	-	-	-	1	2	-	-	-	-	-	1	2	
New Jersey Transit Rail	25	2	-	2	2	2	2	2	6	2	2	1	1	1	
Norfolk Southern Corp.	55	-	-	9	7	3	7	6	3	5	10	2	-	3	
Port Auth Trans Hudson	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Peninsula Comm San Mateo Cnty	8	3	-	-	-	-	-	-	1	2	1	-	1	-	
Southeastern PA Trans.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Soo Line	3	-	1	-	-	-	-	-	1	-	-	1	-	-	
Union Pacific	132	-	1	4	9	20	26	17	19	9	9	11	1	6	
Wisconsin Central Ltd.	1	-	-	-	-	-	-	-	-	-	1	-	-	-	
Other Railroads	17	6	-	1	1	1	1	2	-	2	1	1	-	1	
Total	511	70	3	23	43	62	51	45	59	47	40	28	9	31	

TABLE 10-3 TRESPASSERS KILLED, BY STATE AND AGE, NOT AT HRC, 2001

States	Age of Trespasser														>
	Tot	Unk	1-5	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	60	
Alabama	12	-	-	2	1	1	1	-	1	1	2	1	-	2	
Arizona	9	2	-	-	1	3	1	1	-	-	1	-	-	-	
Arkansas	7	-	-	-	1	-	-	-	-	1	1	3	-	1	
California	76	21	1	1	3	6	10	6	10	5	5	2	1	5	
Colorado	6	1	-	-	-	-	1	1	1	1	1	-	-	-	
Connecticut	3	1	-	-	-	1	-	-	-	-	1	-	-	-	
Delaware	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
Dist Of Columbia	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
Florida	28	7	1	1	2	4	1	1	3	5	2	-	1	-	
Georgia	8	-	-	-	-	4	-	1	1	-	2	-	-	-	
Idaho	2	-	-	-	1	-	1	-	-	-	-	-	-	-	
Illinois	39	6	-	3	3	5	6	1	3	3	3	1	1	4	
Indiana	9	-	-	1	-	2	-	1	1	-	1	2	-	1	
Iowa	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Kansas	5	1	-	-	-	-	2	-	1	1	-	-	-	-	
Kentucky	4	-	-	1	-	1	1	-	-	-	-	1	-	-	
Louisiana	10	-	-	2	2	2	-	-	1	-	-	1	1	1	
Maryland	6	-	-	-	2	-	-	-	1	-	-	-	-	3	
Massachusetts	13	2	-	-	3	-	-	-	2	2	1	2	-	1	
Michigan	8	1	-	1	-	-	2	-	1	2	1	-	-	-	
Minnesota	5	1	-	-	-	1	-	-	2	-	-	1	-	-	
Mississippi	11	1	-	1	1	1	1	3	1	-	-	-	1	1	
Missouri	12	1	-	-	1	-	2	2	1	2	1	2	-	-	
Montana	2	-	-	-	-	-	-	-	-	-	1	-	1	-	
Nebraska	4	-	-	-	1	-	1	1	-	-	-	1	-	-	
Nevada	3	-	-	-	-	1	1	-	-	-	-	1	-	-	
New Jersey	29	2	-	2	3	2	1	2	8	2	4	1	1	1	
New Mexico	8	2	-	1	1	-	-	1	1	1	-	-	-	1	
New York	18	5	-	-	3	2	3	3	1	1	-	-	-	-	
North Carolina	19	2	-	1	3	1	4	3	-	2	2	-	-	1	
North Dakota	2	1	-	-	-	-	-	-	-	-	1	-	-	-	
Ohio	11	1	-	1	-	1	-	3	-	4	1	-	-	-	
Oklahoma	5	-	-	-	-	1	-	-	1	1	1	-	-	1	
Oregon	7	1	-	-	-	1	2	1	-	-	-	1	1	-	
Pennsylvania	23	2	-	3	4	3	-	1	2	3	3	1	-	1	
Rhode Island	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
South Carolina	8	-	-	-	2	1	-	2	1	-	-	1	-	1	
Tennessee	13	-	-	-	2	3	1	1	-	2	1	2	-	1	
Texas	47	2	-	1	1	6	8	8	11	4	2	3	1	-	
Utah	2	-	-	-	-	1	-	1	-	-	-	-	-	-	
Vermont	1	-	-	-	-	-	-	-	-	-	1	-	-	-	
Virginia	4	-	-	-	1	1	-	-	1	-	-	-	-	1	
Washington	18	5	-	1	-	5	1	1	2	2	-	1	-	-	
West Virginia	4	-	-	-	-	1	-	-	1	2	-	-	-	-	
Wisconsin	5	-	1	-	-	1	-	-	-	-	1	-	-	2	
Wyoming	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
Total	511	70	3	23	43	62	51	45	59	47	40	28	9	31	

TABLE 10-4 TRESPASSERS INJURED, BY RAILROAD AND AGE, NOT AT HRC, 2001

Railroads	Cnt	%	Age of Trespasser														> 60
			Unk	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60		
Alaska RR Corp.	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Amtrak	37	9.2	12	-	-	2	6	3	1	-	3	4	2	3	-	1	
Burlington Northern Santa Fe	47	11.6	14	-	-	2	4	7	1	3	5	3	3	3	2	-	
Conrail Shared Assets	4	1.0	-	-	-	-	-	-	1	1	-	-	1	-	1	-	
CSX Transportation	84	20.8	-	-	1	7	8	19	11	11	8	6	6	2	1	4	
Delaware & Hudson	2	0.5	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
Elgin, Joliet & Eastern	2	0.5	-	-	-	-	-	-	-	-	-	1	-	1	-	-	
Florida East Coast	7	1.7	-	-	-	1	1	-	1	1	1	-	2	-	-	-	
Guilford Rail System	3	0.7	-	-	-	-	-	-	1	-	-	-	-	1	-	1	
Grand Trunk Western RR	2	0.5	-	-	-	-	1	-	-	-	1	-	-	-	-	-	
Illinois Central	3	0.7	-	-	-	1	1	-	-	-	-	-	1	-	-	-	
Indiana Harbor Belt	1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Kansas City Southern	2	0.5	-	-	-	-	-	-	-	-	1	1	-	-	-	-	
Long Island Rail Road	5	1.2	1	-	-	-	-	-	1	-	-	1	2	-	-	-	
Mass Bay Transit Auth.	1	0.2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Metro North Commuter	2	0.5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	
Northeast IL Reg Comm	7	1.7	1	-	-	-	-	2	1	1	1	-	-	1	-	-	
New Jersey Transit Rail	5	1.2	-	-	-	-	1	-	-	1	1	1	1	-	-	-	
Norfolk Southern Corp.	42	10.4	1	-	2	3	5	6	3	4	11	4	2	-	-	1	
Paducah & Louisville	2	0.5	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Port Auth Trans Hudson	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Peninsula Comm San Mateo Cnty	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Southern CA Reg Rail Auth.	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Southeastern PA Trans.	2	0.5	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
Soo Line	2	0.5	-	1	-	-	1	-	-	-	-	-	-	-	-	-	
Union Pacific	127	31.4	-	2	3	10	13	27	18	20	12	6	11	1	1	3	
Wisconsin Central Ltd.	2	0.5	-	-	-	-	-	-	-	-	-	1	1	-	-	-	
Other Railroads	9	2.2	2	-	-	1	2	1	1	-	1	-	-	-	1	-	
Total	404	100	36	3	6	27	44	69	40	42	45	30	33	12	6	11	

TABLE 10-5 TRESPASSERS INJURED, BY STATE AND AGE, NOT AT HRC, 2001

States	Cnt	%	Age of Trespasser														> 60
			Unk	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60		
Alabama	3	0.7	1	-	-	-	-	-	-	1	-	-	1	-	-	-	
Alaska	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arizona	9	2.2	-	-	-	-	1	3	3	-	-	1	1	-	-	-	
Arkansas	6	1.5	1	-	-	1	1	1	1	1	-	-	-	-	-	-	
California	39	9.7	9	-	-	2	5	3	-	6	5	2	4	1	1	1	
Colorado	4	1.0	-	-	1	1	-	1	1	-	-	-	-	-	-	-	
Connecticut	2	0.5	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
Delaware	4	1.0	-	-	-	-	2	-	-	-	-	1	-	-	-	1	
Dist Of Columbia	2	0.5	-	-	-	-	-	1	-	-	-	-	-	1	-	-	
Florida	26	6.4	2	-	-	3	3	5	2	2	2	1	2	2	-	2	
Georgia	9	2.2	-	-	-	1	-	4	-	1	2	-	1	-	-	-	
Idaho	1	0.2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Illinois	27	6.7	3	-	-	3	2	4	1	2	5	4	-	2	1	-	
Indiana	5	1.2	-	-	-	-	-	-	1	-	2	-	1	-	-	1	
Iowa	5	1.2	-	-	1	1	1	1	-	-	-	-	-	-	1	-	
Kansas	12	3.0	-	-	-	-	2	6	1	1	1	-	-	1	-	-	
Kentucky	8	2.0	-	-	-	1	-	-	3	1	1	2	-	-	-	-	
Louisiana	8	2.0	1	-	-	-	1	5	-	1	-	-	-	-	-	-	
Maine	2	0.5	-	-	-	-	-	-	1	-	-	-	-	1	-	-	
Maryland	2	0.5	-	-	-	-	1	-	-	1	-	-	-	-	-	-	
Massachusetts	8	2.0	-	-	-	2	-	1	1	1	1	-	1	-	-	1	
Michigan	4	1.0	-	-	-	1	1	-	-	1	1	-	-	-	-	-	
Minnesota	6	1.5	-	-	-	1	-	-	-	2	1	1	1	-	-	-	
Mississippi	5	1.2	-	-	-	-	1	1	-	-	1	1	1	-	-	-	
Missouri	8	2.0	3	-	-	1	1	-	-	-	1	-	-	1	-	1	
Montana	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Nebraska	1	0.2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Nevada	2	0.5	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
New Jersey	8	2.0	-	-	-	-	1	1	1	2	1	1	1	-	-	-	
New Mexico	3	0.7	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
New York	25	6.2	3	-	-	-	3	5	2	1	3	2	3	-	1	2	
North Carolina	13	3.2	1	-	-	1	1	-	4	1	3	2	-	-	-	-	
North Dakota	3	0.7	-	1	-	-	1	-	-	-	1	-	-	-	-	-	
Ohio	9	2.2	-	-	1	1	3	1	1	1	-	-	1	-	-	-	
Oklahoma	9	2.2	1	-	-	-	1	2	1	-	1	-	3	-	-	-	
Oregon	5	1.2	-	-	-	-	-	1	-	1	-	1	2	-	-	-	
Pennsylvania	19	4.7	2	-	1	-	1	5	1	-	3	2	2	-	1	1	
Rhode Island	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
South Carolina	4	1.0	-	-	1	-	-	-	-	1	2	-	-	-	-	-	
Tennessee	8	2.0	-	-	-	1	1	2	-	1	2	1	-	-	-	-	
Texas	60	14.9	3	1	1	2	7	9	11	9	4	7	4	1	1	-	
Utah	1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Virginia	14	3.5	1	-	-	1	1	5	1	2	-	1	2	-	-	-	
Washington	4	1.0	1	-	-	-	-	-	-	-	-	-	1	2	-	-	
West Virginia	4	1.0	-	-	-	1	-	-	2	1	-	-	-	-	-	-	
Wisconsin	1	0.2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Wyoming	3	0.7	1	1	-	-	-	-	1	-	-	-	-	-	-	-	
Total	404	100	36	3	6	27	44	69	40	42	45	30	33	12	6	11	

TABLE 10-6 TRESPASSERS CASUALTIES NOT AT HRC BY STATE AND AGE GROUP, 2001

States	Deaths				Total Killed		Nonfatal Cases				Total Injured	
	Age Group			Age Group								
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	-	2	2	8	12	2.3	1	-	-	2	3	0.7
Alaska	-	-	-	-	0	0.0	1	-	-	-	1	0.2
Arizona	2	-	2	5	9	1.8	-	-	1	8	9	2.2
Arkansas	-	-	1	6	7	1.4	1	1	1	3	6	1.5
California	21	2	5	48	76	14.9	9	2	6	22	39	9.7
Colorado	1	-	-	5	6	1.2	-	2	-	2	4	1.0
Connecticut	1	-	-	2	3	0.6	-	-	2	-	2	0.5
Delaware	1	-	-	-	1	0.2	-	-	2	2	4	1.0
Dist Of Columbia	-	-	-	1	1	0.2	-	-	1	1	2	0.5
Florida	7	2	5	14	28	5.5	2	3	6	15	26	6.4
Georgia	-	-	2	6	8	1.6	-	1	3	5	9	2.2
Idaho	-	-	1	1	2	0.4	-	1	-	-	1	0.2
Illinois	6	3	4	26	39	7.6	3	3	3	18	27	6.7
Indiana	-	1	1	7	9	1.8	-	-	-	5	5	1.2
Iowa	-	-	1	-	1	0.2	-	2	1	2	5	1.2
Kansas	1	-	-	4	5	1.0	-	-	3	9	12	3.0
Kentucky	-	1	-	3	4	0.8	-	1	-	7	8	2.0
Louisiana	-	2	2	6	10	2.0	1	-	1	6	8	2.0
Maine	-	-	-	-	0	0.0	-	-	-	2	2	0.5
Maryland	-	-	2	4	6	1.2	-	-	1	1	2	0.5
Massachusetts	2	-	3	8	13	2.5	-	2	1	5	8	2.0
Michigan	1	1	-	6	8	1.6	-	1	1	2	4	1.0
Minnesota	1	-	-	4	5	1.0	-	1	-	5	6	1.5
Mississippi	1	1	2	7	11	2.2	-	-	2	3	5	1.2
Missouri	1	-	1	10	12	2.3	3	1	1	3	8	2.0
Montana	-	-	-	2	2	0.4	-	-	-	1	1	0.2
Nebraska	-	-	1	3	4	0.8	-	1	-	-	1	0.2
Nevada	-	-	-	3	3	0.6	-	-	-	2	2	0.5
New Jersey	2	2	4	21	29	5.7	-	-	1	7	8	2.0
New Mexico	2	1	1	4	8	1.6	2	-	-	1	3	0.7
New York	5	-	3	10	18	3.5	3	-	4	18	25	6.2
North Carolina	2	1	3	13	19	3.7	1	1	1	10	13	3.2
North Dakota	1	-	-	1	2	0.4	-	1	1	1	3	0.7
Ohio	1	1	-	9	11	2.2	-	2	4	3	9	2.2
Oklahoma	-	-	-	5	5	1.0	1	-	1	7	9	2.2
Oregon	1	-	-	6	7	1.4	-	-	-	5	5	1.2
Pennsylvania	2	3	5	13	23	4.5	2	1	2	14	19	4.7
Rhode Island	-	-	-	1	1	0.2	-	-	-	1	1	0.2
South Carolina	-	-	3	5	8	1.6	-	1	-	3	4	1.0
Tennessee	-	-	4	9	13	2.5	-	1	2	5	8	2.0
Texas	2	1	1	43	47	9.2	3	4	8	45	60	14.9
Utah	-	-	-	2	2	0.4	-	-	-	1	1	0.2
Vermont	-	-	-	1	1	0.2	-	-	-	-	0	0.0
Virginia	-	-	1	3	4	0.8	1	1	2	10	14	3.5
Washington	5	1	1	11	18	3.5	1	-	-	3	4	1.0
West Virginia	-	-	-	4	4	0.8	-	1	-	3	4	1.0
Wisconsin	-	1	-	4	5	1.0	-	-	-	1	1	0.2
Wyoming	1	-	-	-	1	0.2	1	1	-	1	3	0.7
Total	70	26	61	354	511	100.0	36	36	62	270	404	100.0

TABLE 10-7 TRESPASSERS CASUALTIES, BY MONTH AND DAY, NOT AT HRC,2001

Cond Month		Total		Day Of The Week								Age of Person				
		Cnt	%	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Unk	< 16	16-21	> 21		
Kid	January	29	3.2	5	3	6	1	1	5	8	5	1	4	19		
	February	38	4.2	10	1	8	6	5	6	2	5	1	5	27		
	March	29	3.2	5	-	7	4	4	3	6	5	1	2	21		
	April	44	4.8	8	7	7	6	7	6	3	9	3	10	22		
	May	51	5.6	6	7	5	8	6	6	13	8	4	5	34		
	June	48	5.2	9	5	3	3	4	12	12	5	4	4	35		
	July	50	5.5	7	9	5	10	3	5	11	7	-	7	36		
	August	59	6.4	6	12	4	11	7	7	12	6	1	3	49		
	September	49	5.4	8	5	3	5	5	6	17	7	4	6	32		
	October	34	3.7	10	4	7	1	5	5	2	3	1	2	28		
	November	42	4.6	8	1	3	7	3	11	9	5	2	6	29		
	December	38	4.2	9	3	4	7	-	8	7	5	4	7	22		
Total		511	55.8	91	57	62	69	50	80	102	70	26	61	354		
Nonfatal	January	20	2.2	4	6	3	3	-	2	2	1	1	5	13		
	February	28	3.1	9	3	2	3	1	5	5	1	2	3	22		
	March	48	5.2	7	7	9	4	7	7	7	7	6	11	24		
	April	37	4.0	5	11	1	4	5	4	7	3	7	2	25		
	May	28	3.1	2	10	5	3	1	5	2	1	3	3	21		
	June	44	4.8	8	6	4	3	8	6	9	3	3	6	32		
	July	49	5.4	11	4	8	9	5	7	5	8	2	6	33		
	August	41	4.5	3	7	3	6	8	10	4	4	1	5	31		
	September	31	3.4	7	-	1	2	7	2	12	-	4	4	23		
	October	25	2.7	3	7	3	4	1	3	4	1	2	4	18		
	November	27	3.0	4	6	5	3	5	3	1	6	-	4	17		
	December	26	2.8	4	4	1	1	1	6	9	1	5	9	11		
Total		404	44.2	67	71	45	45	49	60	67	36	36	62	270		
Total		915	100	158	128	107	114	99	140	169	106	62	123	624		

TABLE 10-8 TRESPASSERS CASUALTIES, BY TIME AND DAY, NOT AT HRC,2001

Time	Total	Day Of The Week														
		Sun		Mon		Tue		Wed		Thu		Fri		Sat		
		Cnt	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal		
AM	1	54	9	9	7	2	3	3	4	-	2	2	3	2	5	3
	2	45	6	8	2	2	-	2	3	4	4	1	-	3	6	4
	3	35	3	1	2	6	1	2	5	1	1	-	2	1	8	2
	4	45	10	3	1	1	3	-	5	1	2	4	4	2	5	4
	5	26	4	1	2	2	1	2	-	2	2	1	2	1	4	2
	6	28	3	3	2	1	2	-	2	2	3	2	5	-	2	1
	7	26	3	3	-	1	2	2	2	2	3	2	2	1	2	1
	8	19	1	1	1	2	-	-	1	2	1	2	4	-	3	1
	9	30	3	1	2	2	4	3	1	1	3	2	3	-	3	2
	10	35	5	2	2	2	4	3	2	2	1	1	3	4	4	-
	11	32	2	4	2	2	2	1	3	1	5	2	4	2	1	1
	12	60	4	6	4	4	1	2	3	4	3	3	4	5	7	10
	Total	435	53	42	27	27	23	20	31	22	30	22	36	21	50	31
PM	1	34	3	2	4	2	4	1	2	-	-	3	4	4	3	2
	2	27	2	1	3	1	1	3	2	1	1	3	2	1	5	1
	3	37	6	3	-	4	4	1	3	2	-	-	1	3	6	4
	4	41	6	4	1	3	4	2	2	2	2	2	6	2	1	4
	5	44	1	1	2	5	2	3	6	1	1	4	4	4	7	3
	6	44	2	3	3	5	1	-	5	2	5	2	3	3	7	3
	7	60	5	2	3	6	5	2	7	5	1	1	9	6	5	3
	8	34	3	2	1	4	6	4	1	1	-	1	2	-	3	6
	9	44	3	5	2	3	5	1	-	2	4	1	6	4	4	4
	10	38	4	1	3	4	2	3	1	2	1	4	1	6	4	2
	11	40	1	1	3	1	3	3	4	3	3	4	5	3	3	3
	12	37	2	-	5	6	2	2	5	2	2	2	1	3	4	1
	Total	480	38	25	30	44	39	25	38	23	20	27	44	39	52	36
Total	915	91	67	57	71	62	45	69	45	50	49	80	60	102	67	

TABLE 10-9 TRESPASSERS CASUALTIES, BY LOCATION, NOT AT HRC, 2001

Location	Total		Fatal		Nonfatal		Age of Person				
	Cnt	%	Cnt	%	Cnt	%	Unk	<		>	
								16	16-21	21	
Alongside of on-track equipmen	53	5.8	15	2.9	38	9.4	2	7	3	41	
At work station	1	0.1	-	0.0	1	0.2	-	-	1	-	
Beside track	136	14.9	51	10.0	85	21.0	14	13	17	92	
Between tracks	153	16.7	112	21.9	41	10.1	15	6	15	117	
Between cars/locomotives	33	3.6	7	1.4	26	6.4	1	2	7	23	
In cab or on walkways of locom	2	0.2	-	0.0	2	0.5	1	-	-	1	
In car	10	1.1	1	0.2	9	2.2	-	-	2	8	
In/operating vehicle	9	1.0	1	0.2	8	2.0	1	1	3	4	
In tunnel	2	0.2	-	0.0	2	0.5	-	-	1	1	
On bridge/trestle	31	3.4	22	4.3	9	2.2	2	6	10	13	
On highway-rail crossing	9	1.0	4	0.8	5	1.2	-	-	-	9	
On side of car	23	2.5	3	0.6	20	5.0	1	3	5	14	
On track	417	45.6	282	55.2	135	33.4	67	19	51	280	
On end of car	5	0.5	1	0.2	4	1.0	-	-	2	3	
On pole/signal mast	3	0.3	1	0.2	2	0.5	1	-	1	1	
On platform	4	0.4	2	0.4	2	0.5	1	-	1	2	
Other location on locomotive	1	0.1	-	0.0	1	0.2	-	-	-	1	
Under car	11	1.2	4	0.8	7	1.7	-	3	1	7	
Under locomotive	2	0.2	1	0.2	1	0.2	-	-	-	2	
Other location	10	1.1	4	0.8	6	1.5	-	2	3	5	
Total	915	100	511	100	404	100	106	62	123	624	

TABLE 10-10 TRESPASSERS CASUALTIES, BY EVENT, NOT AT HRC, 2001

Location	Total		Fatal		Nonfatal		Age of Person			
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21
Assaulted by other	2	0.2	2	0.4	-	0.0	-	-	-	2
Bodily function/sudden movement, e.g., sneezing, t	1	0.1	1	0.2	-	0.0	1	-	-	-
Caught in/compressed by other machinery	1	0.1	1	0.2	-	0.0	-	-	-	1
Climatic conditions, other (e.g., high winds)	1	0.1	1	0.2	-	0.0	-	-	-	1
Climatic condition, exposure to environmental co	1	0.1	1	0.2	-	0.0	-	-	-	1
Collision/impact - auto, truck, bus, van, etc.	12	1.3	2	0.4	10	2.5	-	-	3	9
Electrical shock due to contact with 3rd rail, c	9	1.0	4	0.8	5	1.2	3	-	4	2
Electrical shock, other (explain in narrative)	1	0.1	-	0.0	1	0.2	-	-	-	1
Horseplay, practical joke, etc.	1	0.1	1	0.2	-	0.0	-	1	-	-
Lost balance	24	2.6	6	1.2	18	4.5	-	3	6	15
Missed handhold, grabiron, step, etc.	4	0.4	1	0.2	3	0.7	-	-	-	4
Other impacts - on track equipment	6	0.7	3	0.6	3	0.7	1	-	-	5
Pushed/shoved from	2	0.2	-	0.0	2	0.5	-	-	-	2
Ran into on-track equipment	6	0.7	-	0.0	6	1.5	-	-	1	5
Ran into object/equipment	3	0.3	1	0.2	2	0.5	-	2	-	1
Shot	2	0.2	1	0.2	1	0.2	-	-	-	2
Slack action, draft, compressive buff/coupling	1	0.1	-	0.0	1	0.2	-	-	-	1
Slipped, fell, stumbled, etc. due to irregular surf	3	0.3	-	0.0	3	0.7	2	-	-	1
Slipped, fell, stumbled, etc. due to object, ballast	3	0.3	-	0.0	3	0.7	-	-	2	1
Stabbing, knifing, etc.	2	0.2	2	0.4	-	0.0	-	-	-	2
Struck by thrown or propelled object	3	0.3	-	0.0	3	0.7	2	-	-	1
Struck by object	6	0.7	3	0.6	3	0.7	2	-	-	4
Struck by on-track equipment	719	78.6	451	88.3	268	66.3	88	44	87	500
Struck against object	11	1.2	5	1.0	6	1.5	-	-	2	9
Sudden/unexpected movement of material	1	0.1	-	0.0	1	0.2	-	-	-	1
Sudden/unexpected movement of on-track equipmen	5	0.5	1	0.2	4	1.0	-	-	1	4
Thrill seeking	12	1.3	5	1.0	7	1.7	-	4	2	6
Caught, crushed, pinched, other	7	0.8	-	0.0	7	1.7	-	-	1	6
On track equipment, other incidents	2	0.2	-	0.0	2	0.5	-	1	-	1
Slipped, fell, stumbled, other	37	4.0	6	1.2	31	7.7	4	6	6	21
Sudden, unexpected movement, other	1	0.1	-	0.0	1	0.2	-	-	-	1
Other (describe in narrative)	26	2.8	13	2.5	13	3.2	3	1	8	14
Total	915	100	511	100	404	100	106	62	123	624

APPENDIX A**ABBREVIATIONS**

%	Percent of total
AADT	Average annual daily traffic
Acc	Accident, events reported on form 6180-54 (Chapter 6)
Avg	Average
Chg	Change
Cls	Class
Cnt	Count
Coll	Collision between on-track equipment
Comm	Commuter
Der	Derailment
EOD	Railroad employee on duty
Eqp	Equipment
Exp	Exposure
Ftl	Fatality
HRC	Highway-rail crossing
HWTS	Highway traffic signals
Hmn	Human factor
Incs	Incidents
Len	Length
Loco	Locomotive
Mtr V	Motor vehicle
Nonf	Nonfatal cases (injuries and occupational illnesses)
Othr	Other
Psgr	Passenger on train
RR	Railroad
Rng	Range
Sig	Signal
Spd	Speed
Term	Terminated
Trans	Transferred
Tres	Trespasser
Trk	Track
Trn	Train
Unk	Unknown
Veh	Vehicle
WW	Wiwags
w/o	Without

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2001

Railroads whose employees worked < 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
AN Rwy LLC [AN]	3	-	1	2	-	-	-	-	-	1	-	1
Aberdeen & Rockfish RR Co. [AR]	4	-	3	-	-	-	2	-	1	2	-	2
Aberdeen, Carolina & Western RR [ACWR]	3	-	1	-	-	-	2	-	-	1	-	1
Abilene & Smokey Valley RR [AVSX]	1	-	1	-	-	-	-	-	-	1	-	1
Acadiana Rwy Co. [AKDN]	2	-	1	-	-	-	1	-	-	1	-	1
Adirondack Scenic RR [ADCX]	-	-	-	-	-	-	-	-	-	-	-	-
Adrian & Blissfield RR [ADBF]	-	-	-	-	-	-	-	-	-	-	-	-
Akron Barberton Cluster Rwy Co. [AB]	3	-	2	1	-	-	-	-	-	2	-	2
Alabama & Florida Rwy Co. [AF]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Gulf Coast Rwy LLC [AGR]	8	-	6	1	-	-	5	-	4	2	-	2
Alabama RR Co., Inc. [ALAB]	2	-	1	1	-	-	-	-	-	1	-	1
Alameda Belt Line [ABL]	-	-	-	-	-	-	-	-	-	-	-	-
Alamo Gulf Coast RR Co. [AGCR]	1	-	-	1	-	-	-	-	-	-	-	-
Albany & Eastern RR Co. [AERC]	2	-	2	-	-	-	-	-	-	2	-	2
Albany Port RR [APRR]	-	-	-	-	-	-	-	-	-	-	-	-
Alexander RR Co. [ARC]	-	-	-	-	-	-	-	-	-	-	-	-
Algers, Winslow & Western Rwy Co. [AWW]	-	-	-	-	-	-	-	-	-	-	-	-
Aliquippa & Southern RR Co. [ALQS]	-	-	-	-	-	-	-	-	-	-	-	-
Allegheny And Eastern RR [ALY]	3	-	-	-	-	-	3	-	-	-	-	-
Allegheny Valley RR Co. [AVR]	5	-	-	4	-	-	1	-	-	-	-	-
Almanor RR Co. [AL]	-	-	-	-	-	-	-	-	-	-	-	-
Altamont Commuter Express Authority [ACEX]	4	1	2	1	-	-	1	-	1	2	1	1
Amador Foothills RR [AFR]	-	-	-	-	-	-	-	-	-	-	-	-
Amicor Switching Operation [AMIX]	-	-	-	-	-	-	-	-	-	-	-	-
Angelina & Neches River RR Co. [ANR]	1	-	1	-	-	-	-	-	-	1	-	1
Ann Arbor RR [AA]	-	-	-	-	-	-	-	-	-	-	-	-
Apache Rwy Co. [APA]	-	-	-	-	-	-	-	-	-	-	-	-
Appanoose County Community RR Co. [APNC]	-	-	-	-	-	-	-	-	-	-	-	-
Arcade & Attica RR Corp. [ARA]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona & California RR Co. [ARZC]	4	3	-	1	-	-	1	1	-	2	2	-
Arizona Central RR, Inc. [AZCR]	1	-	-	1	-	-	-	-	-	-	-	-
Arizona Eastern RR [AZER]	2	-	1	1	-	-	-	-	-	1	-	1
Arkansas & Missouri RR Co. [AM]	22	-	12	-	-	-	12	-	1	10	-	11
Arkansas Louisiana & Mississippi RR Co. [ALM]	1	-	-	-	-	-	1	-	-	-	-	-
Arkansas Midland RR Co., Inc. [AKMD]	9	1	4	1	-	-	4	1	-	4	-	4
Arkansas-Oklahoma RR Inc. [AOK]	-	-	-	-	-	-	-	-	-	-	-	-
Ashland Rwy Inc. [ASRY]	1	-	1	-	-	-	-	-	-	1	-	1
Ashtubula, Carson & Jefferson RR [ACJR]	-	-	-	-	-	-	-	-	-	-	-	-
Athens Line LLC, The [ABR]	-	-	-	-	-	-	-	-	-	-	-	-
Atlantic & Western Rwy, L.P. [ATW]	1	-	-	1	-	-	-	-	-	-	-	-
Austin & Texas Central RR [ATCX]	1	-	1	-	-	-	-	-	-	1	-	1
Austin Area Term. RR [AUAR]	4	-	2	-	-	-	2	-	-	2	-	2
Austin, Todd & Ladd RR Co. [ATLT]	-	-	-	-	-	-	-	-	-	-	-	-
B&H Rail Corp [BHX]	-	-	-	-	-	-	-	-	-	-	-	-
Ballard Term. RR Co LLC [BDTL]	-	-	-	-	-	-	-	-	-	-	-	-
Batten Kill RR [BKRR]	3	-	1	-	-	-	2	-	-	1	-	1
Battleground, Yacolt & Chelatchie Prarie RR [	-	-	-	-	-	-	-	-	-	-	-	-
Bauxite & Northern Rwy Co. [BXN]	-	-	-	-	-	-	-	-	-	-	-	-
Bay Colony RR [BCLR]	4	-	3	-	-	-	2	-	1	2	-	2
Bay Line RR, L.L.C., The [BAYL]	4	-	2	-	-	-	4	-	2	-	-	-
Beaufort & Morehead Rwy Inc. [BMH]	-	-	-	-	-	-	-	-	-	-	-	-
Belfast & Moosehead Lake RR Co. [BML]	3	-	3	-	-	-	-	-	-	3	-	3
Bellefonte Historical RR Society [BHRX]	-	-	-	-	-	-	-	-	-	-	-	-
Big South Fork Scenic Rwy [BSFX]	1	-	1	-	-	-	-	-	-	1	-	1

Highway-Rail Counts Are Excluded From Other Categories

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2001

Railroads whose employees worked < 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Bighorn Divide & Wyoming RR, Inc. [BDW]	-	-	-	-	-	-	-	-	-	-	-	-
Birmingham Southern RR Co. [BS]	12	-	9	1	-	-	2	-	-	9	-	9
Black Hills Central RR [BHC]	-	-	-	-	-	-	-	-	-	-	-	-
Black River & Western RR [BRW]	-	-	-	-	-	-	-	-	-	-	-	-
Blacklands RR, The [BLR]	-	-	-	-	-	-	-	-	-	-	-	-
Bloomer Shippers Connecting RR Co. [BLOL]	-	-	-	-	-	-	-	-	-	-	-	-
Blue Rock Transportation Co. [BRTR]	-	-	-	-	-	-	-	-	-	-	-	-
Bluegrass RR Museum, Inc. [BRMI]	-	-	-	-	-	-	-	-	-	-	-	-
Boone Scenic Valley [BSV]	-	-	-	-	-	-	-	-	-	-	-	-
Border Pacific RR [BOP]	-	-	-	-	-	-	-	-	-	-	-	-
Brandon Corp. [BRAN]	-	-	-	-	-	-	-	-	-	-	-	-
Brandywine Valley RR Co. [BVRY]	1	-	1	-	-	-	-	-	-	1	-	1
Brownsville & Rio Grande International RR [BR	6	-	4	-	-	-	2	-	-	4	-	4
Buckeye Central Scenic RR [BCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Buckingham Branch RR Co. [BB]	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo & Pittsburgh RR, Inc. [BPRR]	9	-	3	4	-	-	2	-	-	3	-	3
Buffalo Southern RR, Inc. [BSOR]	-	-	-	-	-	-	-	-	-	-	-	-
Burlington Junction Rwy [BJRY]	-	-	-	-	-	-	-	-	-	-	-	-
C & NC RR Corp. [CNUR]	3	-	-	1	-	-	2	-	-	-	-	-
C&S RR Corp. [CSKR]	-	-	-	-	-	-	-	-	-	-	-	-
CMC RR Inc. [CMC]	1	-	1	-	-	-	-	-	-	1	-	1
Caddo Valley RR Co. [CVYR]	2	-	2	-	-	-	-	-	-	2	-	2
Caldwell County RR Co. [CWCY]	-	-	-	-	-	-	-	-	-	-	-	-
California Northern RR Co. [CFNR]	3	-	-	2	-	-	1	-	-	-	-	-
California State RR Museum [CSRM]	-	-	-	-	-	-	-	-	-	-	-	-
California Western RR [CWR]	15	-	14	-	-	-	1	-	-	14	-	14
Camas Prairie Railnet Inc [CSP]	1	-	-	-	-	-	1	-	-	-	-	-
Camp Chase Industrial RR Corp [CCRA]	5	-	3	2	-	-	-	-	-	3	-	3
Canadian American RR Co. [CDAC]	7	-	5	2	-	-	-	-	-	5	-	5
Caney Fork & Western RR [CFWR]	-	-	-	-	-	-	-	-	-	-	-	-
Canon City And Royal Gorge RR, LLC [CRRX]	3	-	3	-	-	-	-	-	-	3	-	3
Canton RR Co. [CTN]	-	-	-	-	-	-	-	-	-	-	-	-
Cape Cod Central [CCCX]	-	-	-	-	-	-	-	-	-	-	-	-
Cape Fear Rwy, Inc. [CF]	1	-	1	-	-	-	-	-	-	1	-	1
Cape May Seashore Lines, Inc. [CMSX]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Coastal Rwy, Inc. [CLNA]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Rail Services Co. [CRIJ]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Southern RR Co., The [CALA]	-	-	-	-	-	-	-	-	-	-	-	-
Carrizo Gorge Rwy Inc. [CZRY]	-	-	-	-	-	-	-	-	-	-	-	-
Carthage, Knightstown & Shirley RR [CKSI]	-	-	-	-	-	-	-	-	-	-	-	-
Cascade & Columbia River RR [CSCD]	-	-	-	-	-	-	-	-	-	-	-	-
Cass Scenic [CASS]	8	-	8	-	-	-	-	-	-	8	-	8
Catskill Mountain RR [CMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Rapids & Iowa City Rwy Co. [CIC]	13	1	8	2	-	-	3	1	-	8	-	8
Central California Traction Co. [CCT]	4	-	1	3	-	-	-	-	-	1	-	1
Central Columbiana & Pennsylvania Rwy Inc. [CQ	-	-	-	-	-	-	-	-	-	-	-	-
Central Indiana & Western RR Co. [CEIW]	1	-	1	-	-	-	-	-	-	1	-	1
Central Kansas Rwy, Inc. [CKRY]	9	-	9	5	-	-	-	-	-	4	-	9
Central Michigan Rwy Co. [CMGN]	15	-	9	5	-	-	1	-	-	9	-	9
Central Montana RR [CM]	1	-	1	-	-	-	-	-	-	1	-	1
Central Oregon & Pacific RR, Inc. [CORP]	8	-	-	3	-	-	5	-	-	-	-	-
Central RR Co. Of Indiana [CIND]	1	-	1	-	-	-	1	-	1	-	-	-
Central RR Co. Of Indianapolis [CERA]	-	-	-	-	-	-	-	-	-	-	-	-
Chattahoochee Industrial RR [CIRR]	2	-	2	-	-	-	-	-	-	2	-	2

Highway-Rail Counts Are Excluded From Other Categories

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Railroads whose employees worked < 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Chattooga & Chickamauga RR [CKKY]	1	-	1	-	-	-	-	-	-	1	-	1
Chehalis & Centralia RR Association [CHCX]	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake & Albemarle RR Co. [CA]	-	-	-	-	-	-	-	-	-	-	-	-
Chestnut Ridge Rwy Co. [CHR]	-	-	-	-	-	-	-	-	-	-	-	-
Chicago Rail Link [CRL]	4	-	2	2	-	-	-	-	-	2	-	2
Chicago Short Line Rwy Co. [CSL]	1	-	1	-	-	-	-	-	-	1	-	1
Chicago-Chemung RR Corp. [CCUO]	-	-	-	-	-	-	-	-	-	-	-	-
Chillicothe-Brunswick Rail Maintenance Author	-	-	-	-	-	-	-	-	-	-	-	-
Cimarron Valley RR L C [CVR]	14	-	9	3	-	-	3	-	1	8	-	8
City Of Prineville Rwy [COP]	3	-	3	-	-	-	-	-	-	3	-	3
Claremont Concord RR Corp. [CCRR]	1	-	2	-	-	-	-	-	-	1	-	2
Clarendon & Pittsford RR Co. [CLP]	1	-	1	-	-	-	-	-	-	1	-	1
Clinton Term. RR Co. [CTR]	-	-	-	-	-	-	-	-	-	-	-	-
Coe Rail Inc. [CRLE]	-	-	-	-	-	-	-	-	-	-	-	-
Colorado & Wyoming Rwy Co. [CW]	11	-	9	2	-	-	-	-	-	9	-	9
Colorado Central RR [CCEX]	-	-	-	-	-	-	-	-	-	-	-	-
Colorado Kansas and Pacific [CKP]	-	-	-	-	-	-	-	-	-	-	-	-
Columbia & Cowlitz Rwy Co. [CLC]	4	-	4	-	-	-	-	-	-	4	-	4
Columbia Basin RR Co. Inc. [CBRW]	12	-	11	1	-	-	1	-	1	10	-	10
Columbia Business Center [CBCX]	-	-	-	-	-	-	-	-	-	-	-	-
Columbia Term. RR Co. [CT]	1	-	1	-	-	-	1	-	1	-	-	-
Columbus & Greenville Rwy Co. [CAGY]	18	-	7	6	-	-	6	-	1	6	-	6
Columbus & Ohio River RR [CUOH]	-	-	-	-	-	-	-	-	-	-	-	-
Commonwealth Rwy, Inc. [CWRY]	-	-	-	-	-	-	-	-	-	-	-	-
Conecuh Valley RR [COEH]	-	-	-	-	-	-	-	-	-	-	-	-
Conemaugh & Black Lick RR Co. [CBL]	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut Department Of Transportation [CDO	8	1	7	1	-	2	1	-	-	6	1	5
Connecticut Southern RR Inc. [CSO]	3	-	1	2	-	-	-	-	-	1	-	1
Consolidated Grain & Barge Co. [CGBX]	-	-	-	-	-	-	-	-	-	-	-	-
Conway Scenic RR [CONW]	2	-	2	-	-	-	-	-	-	2	-	2
Coopersville & Marne RR [CMRX]	-	-	-	-	-	-	-	-	-	-	-	-
Copper Basin Rwy, Inc. [CBRY]	3	-	-	3	-	-	-	-	-	-	-	-
Cornhusker Rail Car Services, Inc. [CRCX]	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi Term. RR Inc. [CCPN]	1	-	-	1	-	-	-	-	-	-	-	-
Corydon 1883 Scenic RR [CSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Council Bluffs Rwy Co. [CBGR]	-	-	-	-	-	-	-	-	-	-	-	-
Crab Orchard & Egyptian RR [COER]	1	-	1	-	-	-	-	-	-	1	-	1
Cumbres & Toltec Scenic RR [CTSR]	7	-	7	-	-	-	-	-	-	7	-	7
Cuyahoga Valley Rwy Co. [CUVA]	9	-	7	2	-	-	-	-	-	7	-	7
Cuyahoga Valley Scenic Rwy [CVSX]	1	-	1	-	-	-	-	-	-	1	-	1
D & I RR Co. [DAIR]	3	-	-	2	-	-	1	-	-	-	-	-
Dakota Southern Rwy Co. [DSRC]	-	-	-	-	-	-	-	-	-	-	-	-
Dakota, Missouri Valley & Western RR, Inc. [D	9	-	7	2	-	-	-	-	-	7	-	7
Dallas, Garland & Northeastern RR [DGNO]	19	-	1	6	-	-	12	-	-	1	-	1
Dardanelle & Russellville RR [DR]	-	-	-	-	-	-	-	-	-	-	-	-
DeQueen & Eastern RR Co. [DQE]	7	-	5	1	-	-	1	-	-	5	-	5
Decatur Junction Rwy Co. [DT]	1	-	-	1	-	-	-	-	-	-	-	-
Delaware & Ulster Rail Ride [DURR]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Lackawanna RR [DL]	-	-	-	-	-	-	-	-	-	-	-	-
Delray Connecting RR Co. [DC]	10	-	10	-	-	-	-	-	-	10	-	10
Delta Southern RR Co. [DSRR]	3	-	3	-	-	-	-	-	-	3	-	3
Delta Valley & Southern Rwy Co. [DVS]	-	-	-	-	-	-	-	-	-	-	-	-
Denver Rock Island RR [DRIR]	-	-	-	-	-	-	-	-	-	-	-	-
Denver Union Term. Rwy [DUT]	-	-	-	-	-	-	-	-	-	-	-	-

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Depew, Lancaster & Western RR Co., Inc. [DLWR]	-	-	-	-	-	-	-	-	-	-	-	-
Dubois County RR [DCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Duluth & Northeastern RR Co. [DNE]	5	-	5	-	-	-	-	-	-	5	-	5
Durango & Silverton Narrow Gauge RR Co. [DSNG]	21	1	20	-	-	-	1	-	-	20	1	20
East Camden & Highland RR Co. [EACH]	2	-	2	-	-	-	-	-	-	2	-	2
East Cooper & Berkeley RR [ECBR]	-	-	-	-	-	-	-	-	-	-	-	-
East Erie Commercial RR [EEC]	1	-	1	-	-	-	-	-	-	1	-	1
East Jersey RR & Term. Co. [EJR]	2	-	2	-	-	-	-	-	-	2	-	2
East Tennessee Rwy, L.P. [ETRY]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Alabama Rwy Co. [EARY]	5	-	4	1	-	-	-	-	-	4	-	4
Eastern Idaho RR [EIRR]	7	-	4	2	-	-	3	-	2	2	-	2
Eastern Illinois RR Co. [EIRC]	2	-	2	-	-	-	2	-	2	-	-	-
Eastern Maine RR Co. [EMRY]	2	-	2	-	-	-	-	-	-	2	-	2
Eastern Shore RR Inc. [ESHR]	8	-	6	1	-	-	1	-	-	6	-	6
Effingham RR Co. [EFRR]	1	-	-	1	-	-	-	-	-	-	-	-
El Dorado & Wesson Rwy Co. [EDW]	1	-	-	1	-	-	-	-	-	-	-	-
Elk River RR, Inc. [ELKR]	-	-	-	-	-	-	-	-	-	-	-	-
Ellis & Eastern Co. [EERZ]	-	-	-	-	-	-	-	-	-	-	-	-
Erie Western Rwy [EWR]	-	-	-	-	-	-	-	-	-	-	-	-
Escanaba & Lake Superior RR Co. [ELS]	25	-	19	1	-	-	7	-	2	17	-	17
Eureka Springs & North Arkansas RR [EKNA]	-	-	-	-	-	-	-	-	-	-	-	-
Everett RR Co. [EV]	3	-	3	-	-	-	-	-	-	3	-	3
Falls Road RR Co. Inc. [FRR]	-	-	-	-	-	-	-	-	-	-	-	-
Farmrail Corp. [FMRC]	2	-	2	-	-	-	-	-	-	2	-	2
Fillmore And Western [FMWX]	-	-	-	-	-	-	-	-	-	-	-	-
Finger Lakes Rwy Corp. [FGLK]	-	-	-	-	-	-	-	-	-	-	-	-
Flats Industrial RR [FIR]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Central RR Co. [FCEN]	7	-	4	-	-	-	3	-	-	4	-	4
Florida Midland RR Co., Inc. [FMID]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Northern RR Co., Inc. [FNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Florida West Coast Rwy [FWCR]	-	-	-	-	-	-	-	-	-	-	-	-
Fordyce & Princeton RR Co. [FP]	1	-	-	1	-	-	-	-	-	-	-	-
Fore River Transportation Corp. [FRVT]	-	-	-	-	-	-	-	-	-	-	-	-
Fort Smith RR Co. [FSR]	3	1	-	-	-	-	2	-	-	1	1	-
Fort Worth & Western RR [FWWR]	10	1	4	3	-	-	3	1	-	4	-	4
Fremont & Elkhorn Valley RR [FEVR]	-	-	-	-	-	-	-	-	-	-	-	-
Fremont, West Point & Pacific Rwy [FWPP]	-	-	-	-	-	-	-	-	-	-	-	-
Galveston RR, L.P. [GVSR]	5	-	4	1	-	-	-	-	-	4	-	4
Garden City Western Rwy Co. [GCW]	1	-	-	-	-	-	1	-	-	-	-	-
Gateway Eastern RR Co. [GWWE]	1	-	-	1	-	-	-	-	-	-	-	-
Georgetown RR Co. [GRR]	-	-	-	-	-	-	-	-	-	-	-	-
Georgia & Florida Railnet [GFRR]	8	-	3	1	-	-	4	-	-	3	-	3
Georgia Central Rwy, L.P. [GC]	6	-	-	3	-	-	3	-	-	-	-	-
Georgia Northeastern RR Co. [GNRR]	1	-	1	-	-	-	-	-	-	1	-	1
Georgia Southwestern RR Division [GSWR]	2	-	-	1	-	-	1	-	-	-	-	-
Georgia Woodlands RR [GWRC]	1	-	1	-	-	-	-	-	-	1	-	1
Gettysburg RR Co. [GBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Gettysburg Scenic Rail Tour [GSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Gettysburg and Northern RR [GET]	1	-	1	-	-	-	-	-	-	1	-	1
Gloster Southern RR [GLSR]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Isles Term. RR, Inc. [GITM]	1	-	-	1	-	-	-	-	-	-	-	-
Golden Triangle RR Co. [GTRA]	-	-	-	-	-	-	-	-	-	-	-	-
Grafton & Upton RR Co. [GU]	-	-	-	-	-	-	-	-	-	-	-	-
Grainbelt Corp. [GNBC]	3	-	2	-	-	-	1	-	-	2	-	2

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	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Grand Canyon Rwy [GCRX]	43	-	43	-	-	-	-	-	-	43	-	43
Grand Rapids Eastern RR Inc. [GR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Miami & Scioto Rwy Co. [GMRY]	-	-	-	-	-	-	-	-	-	-	-	-
Great River RR [GTR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Smoky Mountains Rwy, The [GSM]	-	-	-	-	-	-	-	-	-	-	-	-
Great Walton RR Co. [GRWR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Western Rwy Co. [GWR]	-	-	-	-	-	-	-	-	-	-	-	-
Green Mountain RR Corp. [GMRC]	2	-	2	-	-	-	-	-	-	2	-	2
Gulf, Colorado San Saba Rwy Corp. [GCSR]	3	-	-	3	-	-	-	-	-	-	-	-
H & S RR Co., Inc. [HS]	-	-	-	-	-	-	-	-	-	-	-	-
Hampton & Branchville RR Co. [HB]	1	-	1	-	-	-	-	-	-	1	-	1
Hardin Southern RR, Inc. [HSRR]	1	-	-	-	-	-	1	-	-	-	-	-
Hartwell RR Co. [HRT]	-	-	-	-	-	-	-	-	-	-	-	-
Hawaiian Rwy Society [HRSX]	-	-	-	-	-	-	-	-	-	-	-	-
Heart of Georgia RR, Inc. [HOG]	2	-	1	1	-	-	-	-	-	1	-	1
Heber Valley RR Utah [HVRX]	-	-	-	-	-	-	-	-	-	-	-	-
High Point, Thomasville & Denton RR Co. [HPTD]	-	-	-	-	-	-	-	-	-	-	-	-
Hollis & Eastern RR Co. [HE]	-	-	-	-	-	-	-	-	-	-	-	-
Honey Creek RR, Inc. [HCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hoosier Southern RR [HOS]	1	-	-	1	-	-	-	-	-	-	-	-
Housatonic RR Co., Inc. [HRRC]	8	-	8	1	-	-	-	-	-	7	-	8
Huntsville & Madison county RR Authority [HMC]	-	-	-	-	-	-	-	-	-	-	-	-
Huron & Eastern Rwy [HESR]	4	-	4	-	-	-	-	-	-	4	-	4
Hutchinson & Northern Rwy Co. [HN]	-	-	-	-	-	-	-	-	-	-	-	-
Idaho Northern & Pacific RR Co. [INPR]	12	-	8	3	-	-	2	-	1	7	-	7
Illinois & Midland RR Inc. [IMRR]	8	1	3	2	-	-	3	-	1	3	1	2
Illinois Railnet Inc. [IR]	1	-	-	-	-	-	1	-	-	-	-	-
Illinois Rwy Museum [IRYM]	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Western RR Co. [ILW]	-	-	-	-	-	-	-	-	-	-	-	-
In-Term. Services Corp. [ISCZ]	1	-	-	1	-	-	-	-	-	-	-	-
Indian Creek RR Co. [ICRK]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana & Ohio Central RR, Inc. [IOCR]	1	-	-	-	-	-	1	-	-	-	-	-
Indiana & Ohio Rail Passenger [IORX]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana & Ohio Rwy [IORY]	9	-	3	2	-	-	5	-	1	2	-	2
Indiana Northeastern RR Co., Incorporated [IN	3	-	3	-	-	-	-	-	-	3	-	3
Indiana Rail Road Co. [INRD]	12	1	6	4	-	-	3	1	1	5	-	5
Indiana Rwy Museum [IRM]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Southern RR Co., Inc. [ISRR]	3	-	1	1	-	-	1	-	-	1	-	1
Indiana Southwestern Rwy Co. [ISW]	2	-	2	-	-	-	-	-	-	2	-	2
Indiana Transportation Museum [ITMZ]	1	-	-	-	-	-	1	-	-	-	-	-
Intermodal Transfer, LLC [RSIX]	3	-	1	-	-	-	3	-	1	-	-	-
Iowa Interstate RR [IAIS]	22	-	7	6	-	-	12	-	3	4	-	4
Iowa Northern Rwy Co. [IANR]	7	-	2	4	-	-	2	-	1	1	-	1
Iowa Traction RR Co. [IATR]	-	-	-	-	-	-	-	-	-	-	-	-
Iss Rail, Inc. [ISSR]	-	-	-	-	-	-	-	-	-	-	-	-
Jefferson Warrior RR [JEFW]	1	-	1	-	-	-	-	-	-	1	-	1
Joppa & Eastern RR Co. [JERX]	1	-	-	1	-	-	-	-	-	-	-	-
Juniata Valley RR Co. [JVRR]	-	-	-	-	-	-	-	-	-	-	-	-
K.W.T. Rwy, Inc. [KWT]	1	-	-	-	-	-	1	-	-	-	-	-
Kankakee, Beaverville & Southern RR Co. [KBSR]	2	-	-	2	-	-	-	-	-	-	-	-
Kansas City Term. Rwy Co. [KCT]	1	-	-	1	-	-	-	-	-	-	-	-
Kansas and Oklahoma RR [KO]	15	-	4	11	-	-	-	-	-	4	-	4
Kendallville Term. Rwy Co. [KTR]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky & Tennessee Rwy [KT]	-	-	-	-	-	-	-	-	-	-	-	-

Highway-Rail Counts Are Excluded From Other Categories

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2001

Railroads whose employees worked < 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Kentucky Rwy Museum [KRM]	1	-	1	-	-	-	-	-	-	1	-	1
Keokuk Junction Rwy [KJRY]	2	-	2	-	-	-	-	-	-	2	-	2
Kettle Moraine Rwy [KMRY]	-	-	-	-	-	-	-	-	-	-	-	-
Kiamichi RR Co. LLC [KRR]	6	-	1	3	-	-	2	-	-	1	-	1
Kiski Junction RR [KJR]	-	-	-	-	-	-	-	-	-	-	-	-
Klamath Northern Rwy Co. [KNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Knox & Kane RR Co. [KKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Knoxville & Holston River RR Co., Inc. [KXHR]	4	-	1	-	-	-	4	-	1	-	-	-
Kyle RR Co. [KYLE]	12	-	5	6	-	-	1	-	-	5	-	5
Lahaina Kaanapoli And Pacific [LKP]	2	-	1	-	-	-	1	-	-	1	-	1
Lake County RR [LCR]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Shore Rwy [LSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Lake State Rwy Co. [LSRC]	16	-	16	1	-	-	1	-	2	14	-	14
Lake Superior & Ishpeming RR Co. [LSI]	12	-	11	1	-	-	-	-	-	11	-	11
Lake Superior & Mississippi RR [LSMR]	1	-	-	-	-	-	1	-	-	-	-	-
Lake Superior RR Museum [LSMT]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Term. RR Co. [LT]	1	-	-	1	-	-	-	-	-	-	-	-
Lancaster & Chester Rwy Co. [LC]	3	-	1	2	-	-	-	-	-	1	-	1
Landisville Term. & Transfer Co. [LNVTT]	-	-	-	-	-	-	-	-	-	-	-	-
Laona & Northern Rwy [LNO]	-	-	-	-	-	-	-	-	-	-	-	-
Laurinburg & Southern RR Co. [LRS]	-	-	-	-	-	-	-	-	-	-	-	-
Leadville, Colorado & Southern RR, Co. [LCSR]	-	-	-	-	-	-	-	-	-	-	-	-
Lewis & Clark RR Co. [LINC]	-	-	-	-	-	-	-	-	-	-	-	-
Lexington & Ohio RR Co. Inc. [LXOH]	-	-	-	-	-	-	-	-	-	-	-	-
Litchfield Industrial RR [LFIZ]	1	-	1	-	-	-	-	-	-	1	-	1
Little Kanawha River Rail [LKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Little River RR [LRR]	-	-	-	-	-	-	-	-	-	-	-	-
Little Rock & Western Rwy, L.P. [LRWN]	1	-	-	-	-	-	1	-	-	-	-	-
Little Rock Port RR Co. [LRPA]	-	-	-	-	-	-	-	-	-	-	-	-
Livonia, Avon & Lakeville RR Corp. [LAL]	1	-	1	-	-	-	-	-	-	1	-	1
Logansport & Eel River Short Line Co., Inc. [	-	-	-	-	-	-	-	-	-	-	-	-
Longview Switching [LS]	2	-	1	1	-	-	-	-	-	1	-	1
Los Angeles Junction Rwy Co. [LAJ]	5	-	4	1	-	-	-	-	-	4	-	4
Louisiana & Delta RR [LDRR]	5	-	1	-	-	-	4	-	-	1	-	1
Louisiana & North West RR Co. [LNW]	5	-	3	2	-	1	1	-	-	2	-	2
Louisville & Indiana RR Co. [LIRC]	10	-	5	2	-	-	3	-	-	5	-	5
Louisville & Wadley Rwy Co. [LW]	-	-	-	-	-	-	-	-	-	-	-	-
Louisville, New Albany & Corydon RR [LNAL]	-	-	-	-	-	-	-	-	-	-	-	-
Lowville & Beaver River RR Co. [LBR]	-	-	-	-	-	-	-	-	-	-	-	-
Luxapalila Valley RR Inc. [LXVR]	-	-	-	-	-	-	-	-	-	-	-	-
Luzerne & Susquehanna Rwy Co. [LSX]	-	-	-	-	-	-	-	-	-	-	-	-
Lycoming Valley RR Co. [LVRR]	4	-	3	-	-	-	1	-	-	3	-	3
M & B RR LLC [MNBR]	1	-	-	-	-	-	1	-	-	-	-	-
Madison RR Division [CMPA]	-	-	-	-	-	-	-	-	-	-	-	-
Magma Arizona RR Co. [MAA]	-	-	-	-	-	-	-	-	-	-	-	-
Mahoning Valley RR Co. [MVRY]	-	-	-	-	-	-	-	-	-	-	-	-
Manitou & Pike's Peak RR Co. [MPP]	3	-	3	-	-	-	-	-	-	3	-	3
Manufacturers' Junction Rwy Co. [MJ]	-	-	-	-	-	-	-	-	-	-	-	-
Manufacturers' Rwy Co. [MRS]	4	-	4	-	-	-	-	-	-	4	-	4
Maryland & Delaware RR Co. [MDDE]	4	-	3	-	-	-	1	-	-	3	-	3
Maryland Midland Rwy, Inc. [MMID]	1	-	-	-	-	-	1	-	-	-	-	-
Massachusetts Central RR Corp. [MCER]	2	-	2	-	-	-	-	-	-	2	-	2
Massena Term. RR Co. [MSTR]	-	-	-	-	-	-	-	-	-	-	-	-
Maumee & Western RR Corp. [MAW]	1	-	1	-	-	-	-	-	-	1	-	1

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Mccloud Rwy Co. [MCR]	3	-	3	-	-	-	-	-	-	3	-	3
Mckeesport Connecting RR Co. [MKC]	1	-	-	1	-	-	-	-	-	-	-	-
Meeker Southern RR [MSN]	-	-	-	-	-	-	-	-	-	-	-	-
Meridian Southern Rwy LLC [MDS]	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Shore RR [MS]	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Southern RR Co., Inc. [MSO]	1	-	1	-	-	-	-	-	-	1	-	1
Michigan State Trust For Rwy Preservation [MS	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Continent Rwy [MCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Michigan RR Co. [MMRR]	2	-	2	-	-	-	-	-	-	2	-	2
Middletown & Hummelstown RR Co. [MIDH]	1	-	1	-	-	-	-	-	-	1	-	1
Middletown & New Jersey Rwy Co., Inc. [MNJ]	-	-	-	-	-	-	-	-	-	-	-	-
Midland Term. Co. [MDLR]	4	-	4	-	-	-	-	-	-	4	-	4
Midlands Rwy [MDRY]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota & Manitoba RR [MMR]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Commercial Rwy [MNNR]	30	-	20	2	-	-	8	-	-	20	-	20
Minnesota Northern RR Inc. [MNN]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Southern Rwy, Inc. [MSWY]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Transportation Museum [MNTM]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Zephyr, Limited [MZL]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota, Dakota & Western Rwy Co. [MDW]	1	-	1	-	-	-	-	-	-	1	-	1
Mississippi & Skuna Valley RR Co. [MSV]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi & Tennessee Railnet RR [MT]	2	-	-	-	-	-	2	-	-	-	-	-
Mississippi Central RR Co. [MSCI]	1	-	-	-	-	-	1	-	-	-	-	-
Mississippi Delta RR [MSDR]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Export RR Co. [MSE]	5	-	4	-	-	-	1	-	-	4	-	4
Mississippian Rwy Cooperative, Inc. [MSRW]	-	-	-	-	-	-	-	-	-	-	-	-
Missouri & Northern Arkansas RR Co., Inc. [MN	13	1	11	1	-	-	6	1	5	6	-	6
Missouri Central RR [MOC]	-	-	-	-	-	-	-	-	-	-	-	-
Modesto & Empire Traction Co. [MET]	9	-	8	1	-	-	-	-	-	8	-	8
Mohawk, Adirondack & Northern RR Corp. [MHWA]	-	-	-	-	-	-	-	-	-	-	-	-
Monongahela Connecting RR Co. [MCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Montana Western Rwy Co. [MWRR]	-	-	-	-	-	-	-	-	-	-	-	-
Monticello Rwy Museum [MRMZ]	-	-	-	-	-	-	-	-	-	-	-	-
Morristown & Erie Rwy, Inc. [ME]	-	-	-	-	-	-	-	-	-	-	-	-
Moscow, Camden & San Augustine RR [MCSA]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Dora, Tavares, Eustis RR [MDTX]	1	-	-	-	-	-	1	-	-	-	-	-
Mount Hood Rwy Co. [MH]	1	-	1	-	-	-	-	-	-	1	-	1
Mount Rainier Scenic RR [MRSR]	1	-	1	-	-	-	-	-	-	1	-	1
Mount Vernon Term. Rwy, Inc. [MVT]	-	-	-	-	-	-	-	-	-	-	-	-
Municipality Of East Troy [METW]	-	-	-	-	-	-	-	-	-	-	-	-
N C Transportation Museum Foundation [NCMX]	-	-	-	-	-	-	-	-	-	-	-	-
NWPY	1	-	1	-	-	-	-	-	-	1	-	1
Napa Valley RR [NVRR]	10	-	8	-	-	-	2	-	-	8	-	8
Nash County RR [NCYR]	-	-	-	-	-	-	-	-	-	-	-	-
Nashville & Eastern RR [NERR]	3	-	3	-	-	-	-	-	-	3	-	3
Nashville & Western RR Corp. [NWR]	1	-	1	-	-	-	-	-	-	1	-	1
Nebkota Rwy, Inc. [NRI]	1	-	1	-	-	-	-	-	-	1	-	1
Nebraska Central RR [NCRC]	4	1	3	-	-	-	1	1	-	3	-	3
Nebraska Northeastern Rwy Co. [NENE]	3	-	-	3	-	-	-	-	-	-	-	-
Nebraska, Kansas, Colorado Railnet [NKCR]	6	-	1	5	-	-	-	-	-	1	-	1
Nevada Northern Rwy [NNRX]	-	-	-	-	-	-	-	-	-	-	-	-
New England Central RR [NECR]	9	-	3	5	-	-	1	-	-	3	-	3
New England Southern RR Co., Inc. [NEGS]	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire Central RR, Inc. [NHCR]	-	-	-	-	-	-	-	-	-	-	-	-

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	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
New Hampshire North Coast RR [NHN]	-	-	-	-	-	-	-	-	-	-	-	-
New Hope & Ivyland Rail Road [NHRR]	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans & Gulf Coast Rwy Co. Inc. [NOGC]	4	-	-	-	-	-	4	-	-	-	-	-
New Orleans Public Belt RR [NOPB]	15	-	12	3	-	1	1	-	-	11	-	11
New York & Atlantic Rwy Co. [NYA]	6	-	2	3	-	-	1	-	-	2	-	2
New York & Lake Erie [NYLE]	1	-	1	-	-	-	-	-	-	1	-	1
New York & Ogdensburg Rwy Co. Inc. [NYOG]	-	-	-	-	-	-	-	-	-	-	-	-
New York Cross Harbor RR Term. Corp. [NYCH]	-	-	-	-	-	-	-	-	-	-	-	-
New York, Susquehanna & Western RR Co. [NYSW]	22	-	19	4	-	-	2	-	3	16	-	16
Newburgh & South Shore RR [NSR]	-	-	-	-	-	-	-	-	-	-	-	-
Niles Canyon Rwy [NICX]	-	-	-	-	-	-	-	-	-	-	-	-
Nimishillen & Tuscarawas, LLC [NTRY]	4	-	4	-	-	-	-	-	-	4	-	4
Nittany & Bald Eagle [NBER]	3	-	1	-	-	-	2	-	-	1	-	1
Norfolk & Portsmouth Belt Line RR Co. [NPB]	5	-	4	-	-	-	1	-	-	4	-	4
North Carolina & Virginia RR Co. [NCVA]	1	-	-	1	-	-	-	-	-	-	-	-
North Shore RR [NSHR]	-	-	-	-	-	-	-	-	-	-	-	-
North Shore Scenic RR [NSSR]	-	-	-	-	-	-	-	-	-	-	-	-
Northern Central Rwy Inc. [NCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Northern Ohio & Western Rwy, LTD. [NOW]	2	-	-	1	-	-	1	-	-	-	-	-
Northern Plains RR, Inc. [NPR]	7	-	7	-	-	-	3	-	3	4	-	4
Northwestern Oklahoma RR Co. [NOKL]	-	-	-	-	-	-	-	-	-	-	-	-
Oakland Term. Rwy [OTR]	1	-	1	-	-	-	-	-	-	1	-	1
Ogeechee Rwy Co. [OGEE]	-	-	-	-	-	-	-	-	-	-	-	-
Ohi Rail Corp. [OHIC]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio & Pennsylvania RR Co. [OHPA]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Central RR Co. [OHCR]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Rwy Museum [ORY]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Southern RR Co. [OSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Oil Creek & Titusville Lines [OCTL]	3	-	3	-	-	-	-	-	-	3	-	3
Old Augusta RR Co. [OAR]	-	-	-	-	-	-	-	-	-	-	-	-
Omaha, Lincoln & Beatrice Rwy Co. [OLB]	-	-	-	-	-	-	-	-	-	-	-	-
OmniTrax Switching Services [OMTX]	3	-	2	1	-	-	-	-	-	2	-	2
Ontario Central RR Corp. [ONCT]	-	-	-	-	-	-	-	-	-	-	-	-
Ontario Midland RR Corp. [OMID]	-	-	-	-	-	-	-	-	-	-	-	-
Oregon Eastern RR [OERR]	-	-	-	-	-	-	-	-	-	-	-	-
Oregon Pacific RR Co. [OPR]	-	-	-	-	-	-	-	-	-	-	-	-
Orlando & Mount Dora Rwy Co. [OMDX]	-	-	-	-	-	-	-	-	-	-	-	-
Otter Tail Valley RR Co., Inc. [OTVR]	1	-	-	1	-	-	-	-	-	-	-	-
Ouachita RR [OUCH]	-	-	-	-	-	-	-	-	-	-	-	-
Owego & Harford Rwy, Inc. [OHRY]	-	-	-	-	-	-	-	-	-	-	-	-
Pacific & Arctic RR & Navigation Co. [PARN]	45	-	45	-	-	-	-	-	-	45	-	45
Pacific Harbor Line Inc. [PHL]	13	-	5	6	-	-	2	-	-	5	-	5
Pacific SW Rwy Museum [PSRM]	-	-	-	-	-	-	-	-	-	-	-	-
Paducah & Illinois RR Co. [PI]	-	-	-	-	-	-	-	-	-	-	-	-
Palouse River & Coulee City RR Inc. [PCC]	5	-	-	5	-	-	-	-	-	-	-	-
Panhandle Northern RR Co. [PNR]	3	-	-	2	-	-	1	-	-	-	-	-
Patapsco & Back Rivers RR Co. [PBR]	13	-	12	1	-	-	-	-	-	12	-	12
Pearl River Valley RR Co. [PRV]	-	-	-	-	-	-	-	-	-	-	-	-
Pecos Valley Southern Rwy Co. [PVS]	-	-	-	-	-	-	-	-	-	-	-	-
Pend Oreille Valley RR, Inc. [POVA]	2	-	2	-	-	-	-	-	-	2	-	2
Peninsula Term. Co. [PT]	1	-	1	-	-	-	-	-	-	1	-	1
Penn Eastern Rail Lines Inc. [PRL]	-	-	-	-	-	-	-	-	-	-	-	-
Penn Jersey Rail Lines Inc. [PJRL]	-	-	-	-	-	-	-	-	-	-	-	-
Peoria & Pekin Union Rwy Co. [PPU]	14	-	11	3	-	-	-	-	-	11	-	11

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Peoria, Peoria Heights & Western RR [PPHW]	-	-	-	-	-	-	-	-	-	-	-	-
Philadelphia, Bethlehem & New England RR [PBN]	1	-	-	1	-	-	-	-	-	-	-	-
Pickens Rwy Co. [PICK]	1	-	1	-	-	-	-	-	-	1	-	1
Pine Belt Southern RR [PBRR]	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Industrial Rwy Co. [PRY]	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Valley RR Co., Inc. [PVRR]	-	-	-	-	-	-	-	-	-	-	-	-
Pittsburg & Shawmut RR Co. [PS]	4	-	2	1	-	-	1	-	-	2	-	2
Pittsburgh & Conneaut Dock Co., The [PCDX]	1	-	1	-	-	-	-	-	-	1	-	1
Pittsburgh & Ohio Central RR Co., The [POHC]	-	-	-	-	-	-	-	-	-	-	-	-
Pittsburgh, Allegheny & McKees Rocks RR [PAM]	-	-	-	-	-	-	-	-	-	-	-	-
Plymouth & Lincoln [PLL]	-	-	-	-	-	-	-	-	-	-	-	-
Point Comfort & Northern Rwy Co. [PCN]	2	-	2	-	-	-	-	-	-	2	-	2
Port Bienville RR [PBVR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Catoosa Term. RR [POCA]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Manatee [MAUP]	2	-	-	-	-	-	2	-	-	-	-	-
Port Of Palm Beach Term. [PPBD]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Tillamook Bay RR [POTB]	2	1	1	-	-	-	-	-	-	2	1	1
Port Royal RR [PRYL]	-	-	-	-	-	-	-	-	-	-	-	-
Port Term. RR Of South Carolina [PTR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Utilities Commission Of Charleston, S.C.	-	-	-	-	-	-	-	-	-	-	-	-
Portland & Western RR, Inc. [PNWR]	15	1	3	1	-	-	12	-	2	2	1	1
Portland Term. [PTO]	2	-	1	1	-	-	-	-	-	1	-	1
Potomac Eagle Scenic Rail Excursion [PEX]	-	-	-	-	-	-	-	-	-	-	-	-
Prescott & Northwestern RR Co. [PNW]	-	-	-	-	-	-	-	-	-	-	-	-
Progressive Rail Inc [PGR]	1	-	-	-	-	-	1	-	-	-	-	-
Providence & Worcester RR Co. [PW]	11	-	6	4	-	-	1	-	-	6	-	6
Puget Sound & Pacific RR Co. [PSAP]	1	-	1	-	-	-	-	-	-	1	-	1
Quincy RR Co. [QRR]	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Pennsylvania Lines, Inc.	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Corp./Bardstown Line [RJCR]	1	-	-	-	-	-	1	-	-	-	-	-
R. J. Corman, Western Ohio Line [RJCW]	3	-	-	-	-	-	3	-	-	-	-	-
Rail Link Inc. [RLIX]	1	-	-	1	-	-	-	-	-	-	-	-
Rail Serve [RASX]	2	-	1	-	-	-	1	-	-	1	-	1
Rail Tours, Inc. [RTI]	-	-	-	-	-	-	-	-	-	-	-	-
Railroad Switching Service Of Missouri, Inc.	-	-	-	-	-	-	-	-	-	-	-	-
Railtown 1897 RR [RTRX]	-	-	-	-	-	-	-	-	-	-	-	-
Raritan Central Rwy LLC [RCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Rarus Rwy Co. [RARW]	-	-	-	-	-	-	-	-	-	-	-	-
Reading Blue Mountain & Northern RR Commision	5	-	3	1	-	-	1	-	-	3	-	3
Red River Valley & Western RR [RRVW]	19	-	12	7	-	-	-	-	-	12	-	12
Redmont Rwy Co., Inc. [RRC]	-	-	-	-	-	-	-	-	-	-	-	-
Richmond Pacific RR Corp. [RPRC]	1	-	1	-	-	-	-	-	-	1	-	1
Rio Valley Switching Co. [RVSC]	7	-	4	1	-	-	2	-	-	4	-	4
River Term. Rwy Co. [RT]	16	-	6	7	-	-	3	-	-	6	-	6
Rochester Southern RR, Inc. [RSR]	3	-	1	2	-	-	-	-	-	1	-	1
Rock & Rail Inc [RRRR]	1	1	-	-	-	-	-	-	-	1	1	-
Rockdale, Sandow & Southern RR Co. [RSS]	1	-	1	-	-	-	-	-	-	1	-	1
SCTRR, LLC [SCTR]	2	-	1	-	-	-	1	-	-	1	-	1
SF&L Rwy, Inc. [SFLR]	-	-	-	-	-	-	-	-	-	-	-	-
SMS Rail Service, Inc. [SLRS]	2	-	1	1	-	-	-	-	-	1	-	1
Sabine River & Northern RR Co. [SRN]	-	-	-	-	-	-	-	-	-	-	-	-
Safe Handling Rail Inc. [SRP]	3	-	1	1	-	-	1	-	-	1	-	1
Saginaw Valley Rwy Co., Inc. [SGVY]	-	-	-	-	-	-	-	-	-	-	-	-
Salt Lake City Southern RR Co., Inc. [SL]	1	-	1	-	-	-	-	-	-	1	-	1

Highway-Rail Counts Are Excluded From Other Categories

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Salt Lake, Garfield & Western Rwy Co. [SLGW]	-	-	-	-	-	-	-	-	-	-	-	-
San Diego & Imperial Valley [SDIY]	-	-	-	-	-	-	-	-	-	-	-	-
San Diego Northern Rwy [SDNX]	5	4	1	-	-	-	-	-	-	5	4	1
San Francisco Belt RR [SFBR]	-	-	-	-	-	-	-	-	-	-	-	-
San Joaquin Valley RR Co. [SJVR]	14	-	11	2	-	-	4	-	3	8	-	8
San Luis Central RR Co. [SLC]	1	-	1	-	-	-	-	-	-	1	-	1
San Manuel Arizona RR Co. [SMA]	-	-	-	-	-	-	-	-	-	-	-	-
San Pedro & Southwestern Rwy Co. [SWKR]	-	-	-	-	-	-	-	-	-	-	-	-
Sand Springs Rwy Co. [SS]	1	-	-	-	-	-	1	-	-	-	-	-
Sandersville RR Co. [SAN]	2	-	2	-	-	-	1	-	1	1	-	1
Santa Cruz, Big Tree & Pacific RR [SCBG]	2	-	3	-	-	-	-	-	-	2	-	3
Santa Fe Southern Rwy, Inc. [SFS]	4	-	3	-	-	-	2	-	1	2	-	2
Santa Maria Valley RR Co. [SMV]	-	-	-	-	-	-	-	-	-	-	-	-
Saracuse Binghamton And New York RR [SBNX]	-	-	-	-	-	-	-	-	-	-	-	-
Savannah Port Term. RR, Inc. [SAPT]	-	-	-	-	-	-	-	-	-	-	-	-
Seminole Gulf RR [SGLR]	10	-	3	4	-	-	3	-	-	3	-	3
Semo Port RR, Inc. [SE]	-	-	-	-	-	-	-	-	-	-	-	-
Sequatchie Valley RR [SQVR]	-	-	-	-	-	-	-	-	-	-	-	-
Shamokin Valley RR Co. [SVRR]	-	-	-	-	-	-	-	-	-	-	-	-
Shawnee Term. Rwy Co. [STR]	-	-	-	-	-	-	-	-	-	-	-	-
Shelbyville Industrial RR [SVIZ]	1	-	-	-	-	-	1	-	-	-	-	-
Sidney & Lowe RR Inc. [SLGG]	-	-	-	-	-	-	-	-	-	-	-	-
Sierra RR Co. [SERA]	1	-	1	-	-	-	-	-	-	1	-	1
Sisseton Milbank RR [SMRR]	3	-	3	-	-	-	-	-	-	3	-	3
Smokey Hill Rwy [SHRX]	-	-	-	-	-	-	-	-	-	-	-	-
Snoqualmie Valley RR [SNVX]	-	-	-	-	-	-	-	-	-	-	-	-
Somerset RR Co. [SOM]	-	-	-	-	-	-	-	-	-	-	-	-
Souder Commuter Rail [SCR]	1	-	1	-	-	-	-	-	-	1	-	1
South Branch Valley RR [SBVR]	1	-	1	-	-	-	-	-	-	1	-	1
South Buffalo Rwy Co. [SB]	11	-	2	8	-	-	1	-	-	2	-	2
South Carolina Central RR Co., Inc. [SCRF]	3	-	-	-	-	-	3	-	-	-	-	-
South Central Florida Express, Inc. [SCXF]	12	-	9	2	-	-	1	-	-	9	-	9
South Kansas & Oklahoma RR Co. [SKOL]	12	-	3	7	-	-	3	-	1	2	-	2
South Orient RR Co., Ltd. [SO]	-	-	-	-	-	-	-	-	-	-	-	-
South Plains Lamesa RR, Ltd. [SLAL]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Alabama RR Co., Inc. [SUAB]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Electric RR [SERX]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Freight Logistics, Inc. [SFLX]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Indiana Rwy, Inc. [SIND]	1	-	1	-	-	-	1	-	1	-	-	-
Southern Michigan RR Society [SMRS]	1	-	-	-	-	-	1	-	-	-	-	-
Southern New Jersey Lite Rail System [SNJX]	16	-	16	-	-	-	-	-	-	16	-	16
Southern RR Co. Of New Jersey [SRNJ]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Switching Co. [SSC]	-	-	-	-	-	-	-	-	-	-	-	-
Southwest Pennsylvania RR Co. [SWP]	5	-	-	4	-	-	1	-	-	-	-	-
Southwestern RR Co., Inc. [SW]	2	-	-	2	-	-	-	-	-	-	-	-
St. Croix Valley RR Co. [SCXY]	1	-	1	-	-	-	-	-	-	1	-	1
St. Lawrence & Atlantic RR Co. [SLR]	12	-	7	2	-	-	5	-	2	5	-	5
St. Louis Steam Train Association [SLST]	-	-	-	-	-	-	-	-	-	-	-	-
St. Louis, Iron Mountain, & Southern [SLOI]	-	-	-	-	-	-	-	-	-	-	-	-
St. Maries River RR Co. [STMA]	1	-	1	-	-	-	-	-	-	1	-	1
St. Marys RR Co. [SM]	2	-	2	-	-	-	-	-	-	2	-	2
Steamtown National Historic Site [SNCX]	-	-	-	-	-	-	-	-	-	-	-	-
Steelton & Highspire RR [SH]	1	-	1	-	-	-	-	-	-	1	-	1
Stillwater Central RR Co., Inc. [SLWC]	1	-	-	-	-	-	1	-	-	-	-	-

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Stockton Term. & Eastern RR [STE]	1	-	-	-	-	-	1	-	-	-	-	-
Stone Mountain Park [SMPX]	2	-	2	-	-	-	-	-	-	2	-	2
Stourbridge RR Co. [SBRR]	-	-	-	-	-	-	-	-	-	-	-	-
Strasburg RR Co. [SRC]	1	-	1	-	-	-	-	-	-	1	-	1
Sumpter Valley RR [SUVX]	-	-	-	-	-	-	-	-	-	-	-	-
Sunflour RR, Inc. [SNR]	-	-	-	-	-	-	-	-	-	-	-	-
Sweetwater Central RR [SWCX]	1	-	1	-	-	-	-	-	-	1	-	1
Tacoma Municipal Belt Line Rwy [TMBL]	11	-	6	2	-	-	3	-	-	6	-	6
Tacoma Rail Mountain Division [TRMW]	1	-	-	1	-	-	-	-	-	-	-	-
Talley Rand Term. RR [TTR]	1	-	1	-	-	-	-	-	-	1	-	1
Tennessee Southern RR Co., Inc. [TSRR]	4	-	2	1	-	-	1	-	-	2	-	2
Tennessee Valley RR [TVRM]	-	-	-	-	-	-	-	-	-	-	-	-
Tennken RR Co. Inc. [TKEN]	5	-	8	1	-	-	1	-	5	3	-	3
Terminal Rwy Alabama State Docks [TASD]	42	-	16	25	-	-	2	-	1	15	-	15
Texas & New Mexico RR Co. [TNMR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas & Northern Rwy Co. [TN]	1	-	1	-	-	-	-	-	-	1	-	1
Texas City Term. Rwy Co. [TCT]	1	-	-	1	-	-	-	-	-	-	-	-
Texas Northwestern Rwy Co. [TXNW]	2	-	2	-	-	-	-	-	-	2	-	2
Texas Pacifico Transportation Limited [TXPF]	1	-	1	-	-	-	-	-	-	1	-	1
Texas Rock Crusher Rwy Co. [TXR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas South-Eastern RR Co. [TSE]	-	-	-	-	-	-	-	-	-	-	-	-
Texas State RR [TSR]	3	-	3	-	-	-	-	-	-	3	-	3
Texas, Gonzales & Northern Rwy Co. [TXGN]	5	-	2	2	-	-	1	-	-	2	-	2
Texas, Oklahoma & Eastern RR Co [TOE]	4	-	3	1	-	-	-	-	-	3	-	3
The Youngstown Belt RR Co. [YB]	-	-	-	-	-	-	-	-	-	-	-	-
Thermal Belt Rwy [TBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Three Notch RR [TNHR]	-	-	-	-	-	-	-	-	-	-	-	-
Timberrock RR Co., Inc. [TIBR]	1	-	1	-	-	-	-	-	-	1	-	1
Tioga Central RR [TIOC]	-	-	-	-	-	-	-	-	-	-	-	-
Tishomingo RR Co., Inc. [TISH]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo Lake Erie & Western RR [TLEW]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo, Peoria & Western Rwy Corp. [TPW]	13	-	6	4	-	-	3	-	-	6	-	6
Tomahawk Rwy, L.P. [TR]	-	-	-	-	-	-	-	-	-	-	-	-
Toppenish Simcoe & Western [TSWR]	-	-	-	-	-	-	-	-	-	-	-	-
Towanda Monroeton Shippers Lifeline, Inc. [TM]	-	-	-	-	-	-	-	-	-	-	-	-
Transkentucky Transportation RR, Inc. [TTIS]	2	-	1	-	-	-	1	-	-	1	-	1
Tri-City RR Co. [TCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Tri-county Commuter Rail Authority [TCCX]	21	3	14	-	-	-	10	1	4	11	2	10
Trinity Industries, Inc./Trinity Rail Svcs [T	-	-	-	-	-	-	-	-	-	-	-	-
Trinity Rwy Express [TRE]	4	1	3	1	-	-	2	1	2	1	-	1
Trona Rwy Co. [TRC]	-	-	-	-	-	-	-	-	-	-	-	-
Tulsa-Sapulpa Union Rwy Co. LLC [TSU]	2	-	-	2	-	-	-	-	-	-	-	-
Turtle Creek Industrial RR, Inc. [TCKR]	-	-	-	-	-	-	-	-	-	-	-	-
Tuscola & Saginaw Bay RR Co., Inc. [TSBY]	7	-	7	1	-	-	2	-	3	4	-	4
Twin City & Western RR [TCWR]	7	-	4	2	-	-	1	-	-	4	-	4
Union County Industrial RR Co. [UCIR]	-	-	-	-	-	-	-	-	-	-	-	-
Upper Merion & Plymouth RR Co. [UMP]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Central Rwy Co. [UCRY]	1	-	-	1	-	-	-	-	-	-	-	-
Utah Rwy Co. [UTAH]	16	-	13	2	-	-	2	-	1	12	-	12
Utah Transit Authority [UTAX]	-	-	-	-	-	-	-	-	-	-	-	-
V and S Rwy, Inc. [VSR]	1	-	-	1	-	-	-	-	-	-	-	-
Valdosta Rwy, L.P. [VR]	-	-	-	-	-	-	-	-	-	-	-	-
Valley RR Co. [VALE]	-	-	-	-	-	-	-	-	-	-	-	-
Vandalia RR Co. [VRRRC]	-	-	-	-	-	-	-	-	-	-	-	-

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Ventura County RR Co. [VCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Vermont Rwy, Inc. [VTR]	11	1	7	3	-	-	-	-	-	8	1	7
Virginia Rwy Express [VREX]	2	-	1	1	-	-	-	-	-	1	-	1
Virginia Southern RR [VSRR]	4	-	-	4	-	-	-	-	-	-	-	-
WFEC RR Co. [WFRX]	1	-	-	1	-	-	-	-	-	-	-	-
Wabash Central RR Corp. [WBCR]	-	-	-	-	-	-	-	-	-	-	-	-
Waccamaw Coast Line RR Co. [WCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Walkersville Southern RR, Inc. [WS]	-	-	-	-	-	-	-	-	-	-	-	-
Walking Horse & Eastern RR Co. [WHOE]	-	-	-	-	-	-	-	-	-	-	-	-
Warren & Saline River RR Co. [WSR]	-	-	-	-	-	-	-	-	-	-	-	-
Warren & Trumbull RR Co., The [WTRM]	-	-	-	-	-	-	-	-	-	-	-	-
Washington County RR Corp. [WACR]	2	-	1	1	-	-	-	-	-	1	-	1
Watco Switch Indiana [WI]	3	-	1	1	-	-	1	-	-	1	-	1
Wctu Rwy Co. [WCTR]	1	-	1	-	-	-	-	-	-	1	-	1
Wellsboro & Corning RR Co. [WCOR]	-	-	-	-	-	-	-	-	-	-	-	-
West Isle Line Inc. [WFS]	-	-	-	-	-	-	-	-	-	-	-	-
West Michigan RR Co. [WMI]	-	-	-	-	-	-	-	-	-	-	-	-
West Tennessee RR Corp. [WTNN]	5	-	3	-	-	-	4	-	2	1	-	1
West Texas And Lubbock RR Co. Inc. [WTLR]	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia Central RR [WVC]	-	-	-	-	-	-	-	-	-	-	-	-
Western Kentucky Rwy, LLC [WKRL]	-	-	-	-	-	-	-	-	-	-	-	-
Western Maryland Scenic RR [WMSR]	1	-	1	-	-	-	-	-	-	1	-	1
Western New York & Pennsylvania RR LLC [WNYP]	-	-	-	-	-	-	-	-	-	-	-	-
Western RR Co. [WRRC]	-	-	-	-	-	-	-	-	-	-	-	-
Western Rail Switching [WRAX]	-	-	-	-	-	-	-	-	-	-	-	-
Western Rwy Museum [WRM]	1	-	1	-	-	-	-	-	-	1	-	1
Weyerheuser Co. [WTCX]	2	-	2	-	-	-	-	-	-	2	-	2
Whitewater Valley RR [WVRR]	1	-	-	1	-	-	-	-	-	-	-	-
Wichita Term. Asociation [WTA]	-	-	-	-	-	-	-	-	-	-	-	-
Wichita, Tillman & Jackson Rwy Co., Inc. [WTJ]	-	-	-	-	-	-	-	-	-	-	-	-
Wilkes-Barre Connecting RR Co. [WBC]	-	-	-	-	-	-	-	-	-	-	-	-
Willamette & Pacific RR, Inc. [WPRR]	15	-	8	3	-	-	6	-	2	6	-	6
Willamette Valley Rwy Co. [WVR]	-	-	-	-	-	-	-	-	-	-	-	-
Wilmington & Western RR Co. [WWRC]	-	-	-	-	-	-	-	-	-	-	-	-
Wilmington Term. RR Inc. [WTRY]	1	-	1	-	-	-	-	-	-	1	-	1
Winamac Southern Rwy Co. [WSRY]	-	-	-	-	-	-	-	-	-	-	-	-
Winchester & Western RR Co. [WW]	3	-	2	-	-	-	2	-	1	1	-	1
Winston-Salem Southbound Rwy [WSS]	5	1	4	-	-	-	-	-	-	5	1	4
Wiregrass Central RR Co. [WGCR]	1	1	-	-	-	-	1	1	-	-	-	-
Wisconsin & Southern RR Co. [WSOR]	53	-	36	8	-	-	14	-	5	31	-	31
Wyoming & Colorado RR [WYCO]	-	-	-	-	-	-	-	-	-	-	-	-
Yadkin Valley RR Co. [YVRR]	6	1	4	-	-	-	2	-	1	4	1	3
Yolo Shortline RR Co. [YSLR]	3	-	2	1	-	-	1	-	1	1	-	1
York Rwy Co. [YRC]	5	-	1	1	-	-	3	-	-	1	-	1
Youngstown & Austintown RR [YARR]	-	-	-	-	-	-	-	-	-	-	-	-
Yreka Western RR Co. [YW]	-	-	-	-	-	-	-	-	-	-	-	-

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