

RAILROAD SAFETY STATISTICS

2003 ANNUAL REPORT



U.S. Department of Transportation
Federal Railroad Administration

October 2005

always expect a train

A black and white railroad crossing advance warning sign, featuring a large 'X' with the words 'RAILROAD' and 'CROSSING' written diagonally across it.



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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 2003* 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 2003. Furthermore, selected historical data is included to provide a baseline for understanding the railroad industry’s improving safety performance.

Note: Beginning with 2003 the accident/incident databases will remain open for five year after the end of the calendar year. Counts of accidents/incidents are not expected to change much after the publication of the annual report each year. You are encouraged to visit our safety data web site located at <http://safetydata.fra.dot.gov/officeofsafety> to obtain current data. The counts in this publication were produced on September 6, 2005.

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:

Federal Railroad Administration
Office of Public Affairs (Stop 5)
1120 Vermont Ave., NW
Washington, DC 20590
Phone number (202) 493-6024

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 ontrack 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 2003 was \$6,700)

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 1991. Following this are overall totals for the 5-year period beginning with 1998, 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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OVERVIEW OF ACCIDENT/INCIDENTS AND RATES

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

Category	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
---GRAND TOTAL---												
Accidents/incidents	26,848	24,740	22,466	19,592	17,691	16,699	16,503	16,776	16,918	16,087	14,404	14,263
Rate 1/	24.17	21.82	19.14	16.60	15.05	14.14	13.78	13.72	13.94	13.56	12.18	11.94
Deaths	1,170	1,279	1,226	1,146	1,039	1,063	1,008	932	937	971	951	866
Nonfatal conditions	21,383	19,121	16,812	14,440	12,558	11,767	11,459	11,700	11,643	10,985	11,103	9,169
---TRAIN ACCIDENTS-----												
Rate 2/	3.97	4.25	3.82	3.67	3.64	3.54	3.77	3.89	4.13	4.25	3.76	4.02
Total number	2,359	2,611	2,504	2,459	2,443	2,397	2,575	2,768	2,983	3,023	2,738	2,992
Deaths	6	67	12	14	25	17	4	9	10	6	15	4
Injuries	171	308	262	294	281	183	129	130	275	310	1,884	227
Collisions	207	205	240	235	205	202	168	205	238	220	192	198
Derailments	1,734	1,930	1,825	1,742	1,816	1,741	1,757	1,961	2,112	2,234	1,989	2,113
On main line	874	955	914	912	941	867	934	858	976	1,025	886	962
On yard track	1,209	1,383	1,339	1,279	1,249	1,223	1,306	1,531	1,619	1,569	1,478	1,648
Yard track rate 3/	14.32	15.87	14.91	14.23	14.22	14.41	15.60	17.51	18.21	18.30	18.25	20.17
Other track rate 4/	2.26	2.33	2.06	2.03	2.05	1.98	2.12	1.98	2.15	2.32	1.95	2.03
Track caused	830	963	911	856	905	879	900	995	1,035	1,121	941	969
Track caused rate	1.40	1.57	1.39	1.28	1.35	1.30	1.32	1.40	1.43	1.58	1.29	1.30
Human factor caused	864	865	911	944	783	855	971	1,031	1,147	1,035	1,050	1,214
Equipment caused	353	360	293	279	318	271	307	321	372	427	367	360
Signal caused	19	54	36	27	49	39	38	49	70	42	50	58
Equip Dmg (millions \$)	85.369	121.833	124.850	134.766	160.908	152.092	162.561	164.654	169.172	200.752	173.982	191.389
Track Dmg (millions \$)	33.572	48.816	43.899	54.458	51.407	58.637	71.337	80.435	94.040	113.713	92.550	99.115
Hazmat												
Consists releasing	26	28	34	26	34	31	42	41	35	32	31	27
Cars releasing	32	57	40	48	69	38	66	75	75	57	56	38
People evacuated	21,218	3,207	15,336	2,817	8,547	8,812	2,058	996	5,258	52,620	5,438	2,260
---HIGHWAY-RAIL-----												
Rate 5/	8.27	7.97	7.60	6.92	6.34	5.71	5.14	4.90	4.84	4.55	4.22	4.00
Incidents	4,910	4,892	4,979	4,633	4,257	3,865	3,508	3,489	3,502	3,237	3,077	2,974
Deaths	579	626	615	579	488	461	431	402	425	421	357	333
Injuries	1,975	1,837	1,961	1,894	1,610	1,540	1,303	1,396	1,219	1,157	999	1,029
---OTHER INCIDENTS-----												
Incidents 6/	19,579	17,237	14,983	12,500	10,991	10,437	10,420	10,519	10,433	9,827	8,589	8,297
Deaths	585	586	599	553	526	585	573	521	502	544	579	529
Injuries	19,237	16,976	14,589	12,252	10,667	10,044	10,027	10,174	10,149	9,518	8,220	7,913

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

Category	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
...EMPLOYEE COUNTS.....												
All accidents/incidents												
Rate 1/	6.88	5.93	5.06	4.24	3.66	3.31	3.27	3.39	3.44	3.30	2.94	2.76
Deaths	34	47	31	34	33	37	27	31	24	22	20	19
Nonfatal conditions	17,755	15,363	13,080	10,777	9,199	8,295	8,398	8,622	8,423	7,815	6,644	6,210
Cases with days absent	12,157	10,115	8,758	7,055	5,981	5,371	5,359	5,779	5,788	5,409	4,642	4,376
Percent of total	68.34	65.64	66.80	65.26	64.79	64.46	63.61	66.79	68.52	69.02	69.66	70.25
Sprains/strains	8,674	7,641	6,428	5,203	4,427	3,960	3,945	4,280	4,357	4,025	3,353	3,013
Occupational illnesses	883	544	285	254	157	128	171	141	129	167	120	169
...PASSENGERS ON TRAINS												
Rate 2/	3.01	4.48	3.57	4.18	3.86	4.29	3.69	3.33	4.10	4.78	5.83	4.54
Deaths	3	58	5	0	12	6	4	14	4	3	7	3
Injuries	411	559	497	573	513	601	535	481	658	746	877	705
In Train Accs/Highway-Rail												
Deaths	0	49	2	0	9	1	2	11	0	1	7	1
Rate	0.00	0.36	0.01	0.00	0.07	0.01	0.01	0.07	0.00	0.01	0.05	0.01
Injuries	113	168	154	119	139	94	30	54	95	149	304	147
...TRESPASSER COUNTS...												
Rate 3/	1.81	1.68	1.50	1.43	1.41	1.55	1.54	1.30	1.21	1.29	1.28	1.21
Deaths	533	523	529	494	471	533	536	479	463	511	540	501
Injuries	540	509	452	461	474	516	513	445	414	404	395	396
---OPERATIONS(millions)												
Total train miles 4/	593.704	613.974	655.083	669.823	670.924	676.716	682.895	712.453	722.877	711.550	728.674	743.523
Yard switching miles 5/	84.430	87.122	89.776	89.892	87.823	84.874	83.692	87.459	88.919	85.747	81.002	81.700
Employee hours 6/	517.041	519.673	518.634	510.457	504.599	503.918	514.870	509.997	490.926	475.120	454.102	451.135
Passengers carried 7/	366.904	371.610	393.600	385.827	397.394	408.619	439.958	464.885	501.750	517.249	503.930	494.226

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				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
A - Worker on duty(rr empl)	7	4	4	3	2	106	148	156	157	139
B - Employee not on duty	-	-	-	-	-	7	15	21	-	2
C - Passenger on train	-	-	1	7	-	11	85	129	278	74
D - Nontrespasser	1	3	-	-	-	-	11	1	2	4
E - Trespasser	1	2	1	4	2	-	1	-	3	1
F - Worker on duty(contractor)	-	-	-	-	-	-	-	-	-	3
G - Contractor(other)	-	-	-	-	-	-	2	1	2	2
J - Nontrespasser, off rr prop	-	1	-	1	-	6	13	2	1,442	2
--Total...	9	10	6	15	4	130	275	310	1,884	227

Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities					Nonfatal Conditions				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
A - Worker on duty(rr empl)	2	2	1	1	1	140	100	97	110	76
B - Employee not on duty	-	-	-	-	-	1	3	1	-	-
C - Passenger on train	11	-	-	-	1	43	10	20	26	73
D - Nontrespasser	296	315	258	249	197	995	906	803	636	648
E - Trespasser	91	107	162	106	133	205	192	223	214	226
F - Worker on duty(contractor)	-	-	-	-	1	-	-	1	-	2
G - Contractor(other)	1	-	-	1	-	-	1	2	1	-
J - Nontrespasser, off rr prop	1	1	-	-	-	12	7	10	12	4
--Total...	402	425	421	357	333	1,396	1,219	1,157	999	1,029

Other Incidents, Excluding HRC

Type Person	Fatalities					Nonfatal Conditions				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
A - Worker on duty(rr empl)	22	18	17	16	16	8,376	8,175	7,562	6,377	5,995
B - Employee not on duty	-	1	-	1	1	208	268	187	213	224
C - Passenger on train	3	4	2	-	2	427	563	597	573	558
D - Nontrespasser	7	14	11	17	7	312	347	348	251	365
E - Trespasser	478	461	510	536	499	445	413	404	392	395
F - Worker on duty(contractor)	2	-	2	3	2	172	183	167	181	178
G - Contractor(other)	9	3	2	6	2	212	182	212	191	185
H - Worker on duty(volunteer)	-	-	-	-	-	4	6	4	5	5
I - Volunteer(other)	-	-	-	-	-	1	2	-	-	2
J - Nontrespasser, off rr prop	-	1	-	-	-	17	10	37	37	6
--Total...	521	502	544	579	529	10,174	10,149	9,518	8,220	7,913

GRAND TOTAL

Type Person	Fatalities					Nonfatal Conditions				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
A - Worker on duty(rr empl)	31	24	22	20	19	8,622	8,423	7,815	6,644	6,210
B - Employee not on duty	-	1	-	1	1	216	286	209	213	226
C - Passenger on train	14	4	3	7	3	481	658	746	877	705
D - Nontrespasser	304	332	269	266	204	1,307	1,264	1,152	889	1,017
E - Trespasser	570	570	673	646	634	650	606	627	609	622
F - Worker on duty(contractor)	2	-	2	3	3	172	183	168	181	183
G - Contractor(other)	10	3	2	7	2	212	185	215	194	187
H - Worker on duty(volunteer)	-	-	-	-	-	4	6	4	5	5
I - Volunteer(other)	-	-	-	-	-	1	2	-	-	2
J - Nontrespasser, off rr prop	1	3	-	1	-	35	30	49	1,491	12
--Total...	932	937	971	951	866	11,700	11,643	10,985	11,103	9,169

TABLE 1-4 TOTAL CASUALTIES BY RAILROAD

Railroads	Fatalities					Nonfatal				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
Alton & Southern	-	-	-	-	-	15	22	8	13	11
Alaska RR Corp.	-	1	-	-	-	62	50	57	30	29
Amtrak	105	131	139	126	118	1,161	1,412	1,527	1,484	1,335
Bangor & Aroostook	-	-	-	-	-	28	26	15	15	-
Burlington Northern Santa Fe	130	151	126	149	134	1,495	1,493	1,485	1,242	1,102
Belt Rwy Of Chicago	-	-	-	-	-	7	5	10	10	15
Consolidated Rail Corp.	20	-	-	-	-	225	-	-	-	-
Conrail Shared Assets	2	1	7	2	1	29	56	53	51	51
CSX Transportation	120	124	143	120	134	1,150	1,324	1,119	859	978
Delaware & Hudson	3	4	5	2	1	49	49	52	47	40
Dakota,Minnesota & Eastern	1	1	-	-	2	32	22	17	14	16
Duluth,Missabe & Iron Range	-	-	-	-	-	25	38	32	21	23
Duluth,Winnipeg & Pacific	1	-	-	1	-	3	3	1	13	15
Elgin, Joliet & Eastern	2	-	-	-	-	41	32	39	12	23
Florida East Coast	16	22	13	24	18	52	46	27	34	37
Grand Canyon Railway	-	-	-	-	-	44	28	43	32	21
Guilford Rail System	2	3	1	-	3	24	29	16	7	23
Grand Trunk Western RR	5	4	7	7	6	131	120	96	64	77
Gateway Western	1	4	1	-	-	20	7	10	-	-
Illinois Central	16	17	26	18	9	186	225	183	150	153
Iowa Chicago & Eastern RR	6	6	5	1	3	49	68	43	28	42
Indiana Harbor Belt	-	2	-	-	-	38	43	42	22	33
Kansas City Southern	23	24	21	21	16	142	143	126	137	129
Long Island Rail Road	6	7	10	9	7	534	414	382	323	321
MD Assn. of Rail Comm	2	2	-	-	-	5	5	7	18	7
Mass Bay Transit Auth.	5	11	11	15	5	93	103	113	127	120
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	-	11
Metro North Commuter	5	4	3	6	1	450	476	466	375	430
Montana Rail Link	3	3	2	1	1	24	22	38	26	35
Northern IN Comm Trans	1	-	-	-	-	40	25	16	32	24
Northeast IL Reg Comm	8	5	17	23	16	232	283	388	360	261
New Jersey Transit Rail	18	21	32	16	9	140	174	219	208	226
Norfolk Southern Corp.	104	118	126	126	107	756	778	653	614	662
Paducah & Louisville	-	-	1	1	-	10	16	9	8	8
Port Auth Trans Hudson	1	1	2	1	-	158	199	158	206	170
Peninsula Comm San Mateo Cnty	3	14	12	5	10	11	25	23	31	29
Port Terminal RR Assn	1	-	-	-	-	6	11	11	20	17
Southern CA Reg Rail Auth.	2	1	1	9	13	15	31	24	53	59
Southeastern PA Trans.	7	3	3	4	-	351	279	262	202	232
Soo Line	7	5	6	8	8	203	166	166	1,606	107
Term RR Assn Of St. Louis	-	-	-	-	-	10	8	13	5	6
Union Pacific	278	204	211	221	207	2,356	1,994	1,877	1,566	1,366
Union RR (Pittsburgh)	-	-	-	-	-	34	21	25	16	30
Wisconsin Central Ltd.	6	11	11	8	5	132	161	121	97	95
Wheeling & Lake Erie	1	-	-	1	-	14	19	15	9	18
Wisconsin & Southern RR	-	2	-	-	-	13	38	36	37	32
Other Railroads	21	30	29	26	32	1,105	1,154	962	879	750
Total	932	937	971	951	866	11,700	11,643	10,985	11,103	9,169

TABLE 1-5 TOTAL CASUALTIES BY STATE

States	Fatalities					Nonfatal					5 year Total	
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	Kld	Nonf
Alabama	18	20	22	18	16	151	143	142	123	132	94	691
Alaska	-	2	-	-	-	84	82	102	47	43	2	358
Arizona	15	27	15	16	17	148	147	173	135	112	90	715
Arkansas	27	30	16	28	11	269	225	231	152	142	112	1,019
California	114	101	132	130	118	770	808	718	723	694	595	3,713
Colorado	9	10	9	12	6	150	112	167	123	127	46	679
Connecticut	10	6	3	7	2	166	159	169	127	128	28	749
Delaware	2	2	3	7	3	53	47	48	44	63	17	255
Dist Of Columbia	-	-	1	1	1	78	90	87	75	140	3	470
Florida	44	45	43	54	47	252	303	299	377	259	233	1,490
Georgia	20	23	27	20	31	216	231	231	169	227	121	1,074
Hawaii	-	-	-	-	-	-	-	1	-	1	-	2
Idaho	4	11	3	2	6	56	53	60	50	70	26	289
Illinois	93	69	73	58	58	1,084	1,109	1,103	949	840	351	5,085
Indiana	33	36	28	26	28	321	317	240	201	199	151	1,278
Iowa	20	9	20	22	11	201	211	220	126	118	82	876
Kansas	13	21	11	15	9	214	226	198	129	142	69	909
Kentucky	5	14	15	11	13	174	170	136	124	131	58	735
Louisiana	28	16	35	28	22	242	310	252	214	173	129	1,191
Maine	-	2	-	-	3	49	58	33	32	27	5	199
Maryland	12	9	7	9	8	105	103	113	176	93	45	590
Massachusetts	12	17	14	15	12	187	183	205	219	195	70	989
Michigan	22	23	22	11	15	305	300	246	191	186	93	1,228
Minnesota	24	11	15	17	17	315	303	261	199	172	84	1,250
Mississippi	26	17	33	24	12	145	120	115	95	94	112	569
Missouri	18	29	16	19	20	287	221	233	179	199	102	1,119
Montana	4	4	3	5	6	93	108	109	82	74	22	466
Nebraska	14	8	7	18	8	295	247	241	185	165	55	1,133
Nevada	4	1	3	4	6	47	25	32	26	24	18	154
New Hampshire	-	-	-	-	1	12	15	6	10	3	1	46
New Jersey	21	28	38	23	20	380	432	438	464	444	130	2,158
New Mexico	8	4	17	12	12	82	106	76	75	55	53	394
New York	25	32	28	30	30	1,237	1,168	1,132	956	961	145	5,454
North Carolina	24	24	26	23	21	123	121	113	98	104	118	559
North Dakota	3	9	4	3	6	72	82	76	1,523	61	25	1,814
Ohio	39	28	34	48	26	395	339	247	250	274	175	1,505
Oklahoma	22	22	17	21	20	108	124	109	85	95	102	521
Oregon	10	9	14	7	11	145	152	140	130	95	51	662
Pennsylvania	20	23	35	31	21	663	583	540	481	489	130	2,756
Rhode Island	1	1	1	1	1	17	19	20	19	29	5	104
South Carolina	16	20	12	22	12	80	141	83	101	98	82	503
South Dakota	-	3	1	3	1	48	43	31	20	37	8	179
Tennessee	17	15	24	16	22	153	163	173	143	155	94	787
Texas	84	90	88	83	88	853	777	750	765	555	433	3,700
Utah	7	5	4	5	4	87	88	102	47	37	25	361
Vermont	-	1	1	-	-	33	22	19	30	19	2	123
Virginia	10	13	6	13	13	143	169	154	136	164	55	766
Washington	20	16	23	15	20	195	230	229	179	185	94	1,018
West Virginia	2	9	5	3	10	84	93	88	76	93	29	434
Wisconsin	9	20	15	13	16	219	258	202	180	170	73	1,029
Wyoming	3	2	2	2	5	114	107	92	63	76	14	452
Total	932	937	971	951	866	11,700	11,643	10,985	11,103	9,169	4,657	54,600

TABLE 1-6 TOTAL EMPLOYEE ON DUTY CASES BY RAILROAD

Railroads	1999		2000		2001		2002		2003	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	15	4.56	22	6.62	8	2.33	12	3.44	11	3.21
Alaska RR Corp.	51	7.92	40	6.13	50	7.01	28	3.89	26	3.66
Amtrak	914	4.03	920	4.01	881	4.10	824	4.18	793	4.20
Bangor & Aroostook	25	7.78	26	8.33	15	5.97	15	6.89	-	-
Burlington Northern Santa Fe	1,031	2.39	1,059	2.61	1,067	2.67	854	2.27	731	1.99
Belt Rwy Of Chicago	7	1.06	5	0.80	10	1.83	10	2.11	14	2.70
Consolidated Rail Corp.	194	2.20	-	-	-	-	-	-	-	-
Conrail Shared Assets	25	1.66	32	1.68	28	1.81	33	2.39	33	2.50
CSX Transportation	892	2.70	998	2.89	806	2.44	636	2.00	730	2.29
Delaware & Hudson	44	5.19	40	4.57	49	7.37	47	8.88	38	6.48
Dakota,Minnesota & Eastern	29	8.54	19	5.22	16	4.10	11	3.10	16	4.36
Duluth,Missabe & Iron Range	23	3.34	37	5.56	32	5.77	21	3.76	22	4.64
Duluth,Winnipeg & Pacific	3	1.49	3	1.44	1	0.45	10	4.69	15	6.96
Elgin, Joliet & Eastern	39	5.14	32	4.24	36	4.98	8	1.13	20	2.86
Florida East Coast	30	3.46	26	3.15	15	1.88	22	2.83	14	1.83
Grand Canyon Railway	37	21.14	26	13.20	35	17.58	28	13.28	19	7.86
Guilford Rail System	20	2.02	28	2.91	11	1.20	6	0.70	18	2.15
Grand Trunk Western RR	122	5.52	108	5.79	84	4.37	59	3.25	65	3.57
Gateway Western	19	7.37	2	0.73	8	2.83	-	-	-	-
Illinois Central	118	3.10	159	3.85	132	3.06	113	2.72	121	3.00
Iowa Chicago & Eastern RR	39	5.62	51	7.78	27	3.54	18	1.58	29	5.29
Indiana Harbor Belt	34	3.63	37	4.25	39	5.07	20	2.63	31	4.07
Kansas City Southern	86	3.08	77	2.75	64	2.41	90	3.20	83	2.97
Long Island Rail Road	396	6.68	350	5.59	303	5.12	259	4.17	241	3.50
MD Assn. of Rail Comm	2	1.05	4	1.65	3	1.10	8	2.81	3	1.08
Mass Bay Transit Auth.	83	4.54	80	4.50	91	4.92	104	5.63	94	5.14
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	10	5.00
Metro North Commuter	334	6.26	367	7.00	347	6.50	282	5.20	305	5.41
Montana Rail Link	20	2.07	21	2.19	37	3.97	25	2.90	30	3.15
Northern IN Comm Trans	40	11.33	25	6.46	13	3.17	25	6.30	24	6.10
Northeast IL Reg Comm	93	3.61	132	5.03	180	4.27	121	2.80	64	1.52
New Jersey Transit Rail	130	3.37	141	3.61	163	4.17	158	3.78	150	3.39
Norfolk Southern Corp.	409	1.27	499	1.46	399	1.33	386	1.33	410	1.40
Paducah & Louisville	9	2.87	13	4.29	4	1.40	4	1.43	6	2.20
Port Auth Trans Hudson	86	8.98	105	11.32	108	11.22	108	10.61	78	7.55
Peninsula Comm San Mateo Cnty	4	1.06	22	5.15	18	4.12	23	5.36	20	4.78
Port Terminal RR Assn	4	1.25	8	2.44	9	2.70	19	6.17	16	5.37
Southern CA Reg Rail Auth.	8	2.97	14	4.72	8	2.68	9	2.83	5	1.52
Southeastern PA Trans.	167	9.82	142	8.30	178	10.01	164	9.49	184	10.56
Soo Line	181	5.74	147	5.08	150	4.84	123	3.92	84	2.69
Term RR Assn Of St. Louis	7	2.40	7	2.27	13	4.52	5	1.78	5	1.84
Union Pacific	1,797	3.49	1,532	3.10	1,464	3.01	1,159	2.57	977	2.18
Union RR (Pittsburgh)	34	10.38	21	6.68	25	5.85	15	3.06	30	6.35
Wisconsin Central Ltd.	95	4.12	102	4.35	84	3.84	77	3.98	76	4.17
Wheeling & Lake Erie	10	2.30	16	3.64	9	2.22	6	1.54	9	2.34
Wisconsin & Southern RR	12	6.60	34	18.37	31	16.81	32	16.32	30	14.85
Other Railroads	935	7.29	918	7.24	786	6.45	687	5.90	549	4.74

TABLE 1-7 TRAIN ACCIDENTS BY RAILROAD, EXCLUDING HRC

Railroads	1999		2000		2001		2002		2003	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	13	17.26	6	7.80	11	13.82	15	18.43	14	15.34
Alaska RR Corp.	6	4.68	2	1.49	1	0.70	5	3.46	6	3.81
Amtrak	85	2.35	148	4.10	150	3.89	112	2.82	111	2.81
Bangor & Aroostook	7	5.75	6	5.41	2	2.44	2	3.15	-	-
Burlington Northern Santa Fe	481	2.96	573	3.57	623	3.82	538	3.32	568	3.27
Belt Rwy Of Chicago	44	94.23	20	43.56	15	33.53	18	47.81	19	39.53
Consolidated Rail Corp.	104	5.30	-	-	-	-	-	-	-	-
Conrail Shared Assets	17	10.65	40	15.59	33	14.50	31	14.58	42	18.33
CSX Transportation	423	4.02	484	4.23	389	3.58	354	3.22	514	4.78
Delaware & Hudson	8	3.52	9	3.72	8	3.95	9	4.98	4	2.17
Dakota,Minnesota & Eastern	12	14.85	23	28.63	15	19.40	16	21.25	19	27.26
Duluth,Missabe & Iron Range	7	9.61	7	9.60	4	5.57	12	18.05	2	3.69
Duluth,Winnipeg & Pacific	2	2.92	4	5.70	2	2.62	3	3.83	4	4.75
Elgin, Joliet & Eastern	15	22.21	10	15.37	11	17.23	15	24.38	9	13.46
Florida East Coast	24	7.64	18	6.27	15	5.89	11	4.91	11	4.49
Grand Canyon Railway	-	-	-	-	-	-	-	-	-	-
Guilford Rail System	7	6.71	9	9.06	3	1.77	3	2.03	6	4.09
Grand Trunk Western RR	21	4.05	20	3.71	15	2.94	16	3.32	17	3.76
Gateway Western	13	16.28	9	10.37	12	13.16	-	-	-	-
Illinois Central	60	6.48	71	6.13	66	6.10	60	6.08	66	6.36
Iowa Chicago & Eastern RR	31	15.42	37	18.56	36	18.54	30	10.15	37	10.74
Indiana Harbor Belt	37	21.90	26	17.00	24	18.15	16	11.92	17	12.54
Kansas City Southern	79	9.32	94	11.84	92	12.01	93	10.88	99	11.80
Long Island Rail Road	15	1.83	18	2.19	19	2.31	14	1.71	12	1.46
MD Assn. of Rail Comm	2	1.85	2	1.82	-	-	2	1.65	-	-
Mass Bay Transit Auth.	2	0.55	1	0.26	2	0.52	-	-	2	0.51
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	2	4.56
Metro North Commuter	28	3.62	38	4.63	55	6.55	46	5.33	70	8.10
Montana Rail Link	13	3.93	13	3.75	19	5.40	17	4.83	11	3.00
Northern IN Comm Trans	3	3.45	1	1.14	1	1.14	-	-	-	-
Northeast IL Reg Comm	4	1.12	5	1.39	7	0.80	5	0.56	3	0.34
New Jersey Transit Rail	8	0.98	17	2.02	25	2.95	39	4.82	42	4.95
Norfolk Southern Corp.	238	2.91	275	2.87	239	2.66	232	2.52	315	3.39
Paducah & Louisville	3	4.77	3	5.07	5	8.78	4	6.93	1	1.81
Port Auth Trans Hudson	1	0.50	2	0.99	3	1.48	3	1.35	2	0.96
Peninsula Comm San Mateo Cnty	-	-	2	1.81	1	0.83	1	0.85	-	-
Port Terminal RR Assn	6	4.82	13	10.51	18	14.40	15	12.02	12	9.67
Southern CA Reg Rail Auth.	4	2.32	1	0.57	3	1.65	3	1.50	-	-
Southeastern PA Trans.	8	1.51	16	2.96	10	1.87	22	4.16	15	2.82
Soo Line	46	5.71	23	2.80	31	3.74	17	2.01	27	2.99
Term RR Assn Of St. Louis	18	29.80	7	10.44	9	13.64	13	21.95	11	19.37
Union Pacific	719	4.08	758	4.19	896	5.19	824	4.41	796	4.19
Union RR (Pittsburgh)	4	26.96	7	50.96	2	17.71	5	37.41	6	46.24
Wisconsin Central Ltd.	35	6.70	48	8.27	34	5.44	31	5.21	18	3.37
Wheeling & Lake Erie	1	1.90	8	12.11	10	15.47	12	14.72	13	15.25
Wisconsin & Southern RR	4	16.31	10	41.61	8	31.42	9	34.85	5	17.19
Other Railroads	329	12.99	333	13.28	357	14.61	277	11.08	306	12.21

TABLE 1-8 TRAIN ACCIDENTS BY STATE, EXCLUDING HRC

States	1999		2000		2001		2002		2003		5 year Total	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	45	1.6	51	1.7	76	2.5	54	2.0	77	2.6	303	2.1
Alaska	6	0.2	2	0.1	1	0.0	5	0.2	6	0.2	20	0.1
Arizona	25	0.9	48	1.6	43	1.4	33	1.2	24	0.8	173	1.2
Arkansas	65	2.3	72	2.4	62	2.1	66	2.4	79	2.6	344	2.4
California	154	5.6	183	6.1	182	6.0	184	6.7	173	5.8	876	6.0
Colorado	60	2.2	57	1.9	59	2.0	56	2.0	50	1.7	282	1.9
Connecticut	30	1.1	36	1.2	36	1.2	27	1.0	43	1.4	172	1.2
Delaware	5	0.2	7	0.2	12	0.4	7	0.3	10	0.3	41	0.3
Dist Of Columbia	9	0.3	15	0.5	21	0.7	8	0.3	14	0.5	67	0.5
Florida	61	2.2	66	2.2	43	1.4	52	1.9	49	1.6	271	1.9
Georgia	80	2.9	66	2.2	58	1.9	61	2.2	83	2.8	348	2.4
Idaho	17	0.6	25	0.8	18	0.6	24	0.9	22	0.7	106	0.7
Illinois	288	10.4	231	7.7	229	7.6	241	8.8	260	8.7	1,249	8.6
Indiana	85	3.1	79	2.6	90	3.0	54	2.0	83	2.8	391	2.7
Iowa	86	3.1	82	2.7	91	3.0	90	3.3	73	2.4	422	2.9
Kansas	89	3.2	91	3.1	100	3.3	83	3.0	90	3.0	453	3.1
Kentucky	54	2.0	44	1.5	32	1.1	42	1.5	39	1.3	211	1.5
Louisiana	70	2.5	79	2.6	113	3.7	79	2.9	76	2.5	417	2.9
Maine	15	0.5	13	0.4	7	0.2	5	0.2	7	0.2	47	0.3
Maryland	30	1.1	51	1.7	29	1.0	28	1.0	39	1.3	177	1.2
Massachusetts	18	0.7	23	0.8	24	0.8	18	0.7	25	0.8	108	0.7
Michigan	43	1.6	47	1.6	35	1.2	41	1.5	34	1.1	200	1.4
Minnesota	85	3.1	80	2.7	70	2.3	61	2.2	68	2.3	364	2.5
Mississippi	35	1.3	61	2.0	49	1.6	38	1.4	33	1.1	216	1.5
Missouri	73	2.6	83	2.8	90	3.0	77	2.8	86	2.9	409	2.8
Montana	27	1.0	30	1.0	29	1.0	28	1.0	24	0.8	138	1.0
Nebraska	75	2.7	82	2.7	99	3.3	85	3.1	82	2.7	423	2.9
Nevada	8	0.3	12	0.4	14	0.5	9	0.3	8	0.3	51	0.4
New Hampshire	1	0.0	-	-	1	0.0	1	0.0	-	-	3	0.0
New Jersey	36	1.3	56	1.9	52	1.7	71	2.6	84	2.8	299	2.1
New Mexico	18	0.7	25	0.8	32	1.1	15	0.5	22	0.7	112	0.8
New York	105	3.8	139	4.7	132	4.4	106	3.9	117	3.9	599	4.1
North Carolina	36	1.3	28	0.9	29	1.0	21	0.8	52	1.7	166	1.1
North Dakota	23	0.8	24	0.8	26	0.9	22	0.8	18	0.6	113	0.8
Ohio	98	3.5	120	4.0	97	3.2	82	3.0	150	5.0	547	3.8
Oklahoma	47	1.7	61	2.0	68	2.2	49	1.8	49	1.6	274	1.9
Oregon	53	1.9	41	1.4	53	1.8	59	2.2	55	1.8	261	1.8
Pennsylvania	103	3.7	127	4.3	92	3.0	101	3.7	117	3.9	540	3.7
Rhode Island	-	-	1	0.0	2	0.1	1	0.0	1	0.0	5	0.0
South Carolina	30	1.1	28	0.9	24	0.8	22	0.8	19	0.6	123	0.8
South Dakota	14	0.5	22	0.7	14	0.5	13	0.5	16	0.5	79	0.5
Tennessee	68	2.5	66	2.2	64	2.1	57	2.1	69	2.3	324	2.2
Texas	260	9.4	274	9.2	363	12.0	342	12.5	311	10.4	1,550	10.7
Utah	33	1.2	38	1.3	36	1.2	25	0.9	40	1.3	172	1.2
Vermont	4	0.1	4	0.1	7	0.2	2	0.1	5	0.2	22	0.2
Virginia	48	1.7	44	1.5	35	1.2	42	1.5	57	1.9	226	1.6
Washington	38	1.4	41	1.4	53	1.8	35	1.3	60	2.0	227	1.6
West Virginia	28	1.0	15	0.5	23	0.8	20	0.7	18	0.6	104	0.7
Wisconsin	45	1.6	63	2.1	56	1.9	54	2.0	37	1.2	255	1.8
Wyoming	42	1.5	50	1.7	52	1.7	42	1.5	38	1.3	224	1.5
Total	2,768	100.0	2,983	100.0	3,023	100.0	2,738	100.0	2,992	100.0	14,504	100.0

TABLE 1-9 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD

Railroads	1999			2000			2001			2002			2003		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alton & Southern	-	-	-	1	1	-	1	1	-	2	2	-	2	2	-
Alaska RR Corp.	2	2	2	1	1	1	-	-	-	1	-	-	1	1	-
Amtrak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bangor & Aroostook	3	2	1	2	1	-	2	1	-	-	-	-	-	-	-
Burlington Northern Santa Fe	210	91	10	253	120	7	265	133	9	218	102	5	267	124	4
Belt Rwy Of Chicago	13	5	1	3	3	-	1	1	-	2	1	-	3	1	-
Consolidated Rail Corp.	22	19	3	-	-	-	-	-	-	-	-	-	-	-	-
Conrail Shared Assets	4	4	-	9	6	-	10	10	-	10	6	-	11	2	-
CSX Transportation	110	53	4	116	58	6	94	36	7	98	47	4	147	65	5
Delaware & Hudson	6	1	-	4	3	1	4	2	-	7	5	1	1	1	-
Dakota,Minnesota & Eastern	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
Duluth,Missabe & Iron Range	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Duluth,Winnipeg & Pacific	1	1	-	2	2	-	1	-	-	3	1	-	1	1	-
Elgin, Joliet & Eastern	3	1	-	1	1	-	1	1	-	2	1	-	-	-	-
Florida East Coast	3	-	-	3	1	-	1	1	-	2	2	-	1	1	1
Guilford Rail System	7	5	-	2	-	-	2	-	-	-	-	-	3	2	-
Grand Trunk Western RR	6	4	-	2	1	-	6	4	-	8	5	1	9	5	-
Gateway Western	2	2	-	3	1	-	7	5	1	-	-	-	-	-	-
Illinois Central	26	25	2	21	11	-	28	19	2	23	15	2	23	12	2
Iowa Chicago & Eastern RR	12	6	2	15	7	1	14	7	-	3	2	-	10	4	-
Indiana Harbor Belt	10	4	-	3	1	-	3	1	-	2	1	-	3	1	-
Kansas City Southern	21	10	2	34	18	1	31	19	1	59	33	1	38	19	1
Long Island Rail Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana Rail Link	11	7	2	7	5	-	10	5	-	5	3	1	4	1	-
Northern IN Comm Trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey Transit Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norfolk Southern Corp.	28	13	-	44	22	5	53	25	2	48	27	6	40	15	4
Paducah & Louisville	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-
Port Auth Trans Hudson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Terminal RR Assn	-	-	-	2	1	-	10	8	-	7	5	-	6	5	-
Southern CA Reg Rail Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soo Line	15	4	-	6	3	1	5	-	-	5	2	1	11	1	1
Term RR Assn Of St. Louis	1	1	-	1	1	-	1	-	-	-	-	-	1	-	-
Union Pacific	142	71	9	152	79	8	184	90	8	176	99	7	150	91	8
Union RR (Pittsburgh)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Wisconsin Central Ltd.	11	1	-	20	5	2	11	2	-	10	5	-	8	2	-
Wheeling & Lake Erie	-	-	-	2	1	-	2	1	-	2	1	-	4	3	-
Wisconsin & Southern RR	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Railroads	47	24	4	40	25	2	52	29	2	44	24	2	47	30	1
Total	716	356	42	753	381	35	799	401	32	737	389	31	795	390	27

TABLE 1-10 CONSISTS TRANSPORTING HAZMAT, BY STATE

States	1999			2000			2001			2002			2003		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alabama	15	5	-	19	11	2	23	13	3	13	7	1	20	12	1
Alaska	2	2	2	1	1	1	-	-	-	1	-	-	1	1	-
Arizona	11	8	2	20	9	2	16	6	2	14	8	1	12	8	-
Arkansas	18	8	-	16	9	1	15	7	-	18	10	1	17	10	1
California	43	22	4	46	24	2	46	25	1	64	29	1	47	27	1
Colorado	16	3	-	14	7	-	16	6	-	7	4	-	12	5	1
Connecticut	4	1	1	-	-	-	-	-	-	1	1	-	-	-	-
Delaware	-	-	-	-	-	-	2	1	-	3	2	-	3	2	1
Dist Of Columbia	1	1	-	-	-	-	2	-	-	-	-	-	-	-	-
Florida	10	3	-	13	9	2	5	3	-	13	7	-	11	5	1
Georgia	6	3	1	8	3	1	14	7	3	16	8	1	19	10	1
Idaho	6	3	1	9	4	-	10	3	-	8	1	-	5	2	-
Illinois	68	33	5	54	32	1	56	25	1	65	34	1	68	31	2
Indiana	24	12	-	10	6	1	14	8	-	13	5	1	18	7	1
Iowa	23	8	2	17	10	1	21	7	1	18	9	-	17	5	1
Kansas	18	6	2	26	14	-	31	19	1	23	13	2	28	16	1
Kentucky	17	9	-	9	5	-	8	5	-	11	8	-	9	4	-
Louisiana	30	22	2	45	28	3	53	33	3	41	29	4	28	19	2
Maine	9	6	1	4	1	-	4	2	-	-	-	-	2	1	-
Maryland	5	2	-	9	3	-	7	5	2	10	6	1	7	5	-
Massachusetts	4	2	-	2	-	-	3	1	-	-	-	-	2	1	-
Michigan	7	3	-	14	7	-	11	8	-	14	8	1	11	6	-
Minnesota	20	7	-	22	14	1	16	4	-	16	6	-	24	6	1
Mississippi	11	6	2	15	8	-	18	11	-	17	12	1	12	6	-
Missouri	25	10	1	27	10	-	29	15	1	21	6	-	30	11	1
Montana	19	9	4	16	6	-	12	6	-	11	6	1	9	3	-
Nebraska	16	7	1	18	4	1	18	7	-	7	4	-	22	12	-
Nevada	1	1	-	2	1	-	4	1	1	2	1	-	1	1	1
New Hampshire	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	7	7	-	7	4	-	8	7	-	8	3	-	9	3	-
New Mexico	7	3	-	6	2	-	19	9	1	7	4	-	13	9	-
New York	17	10	1	21	14	2	19	10	1	9	5	1	13	7	-
North Carolina	13	8	1	7	5	2	7	2	-	10	3	-	10	4	-
North Dakota	6	5	-	6	2	-	3	1	-	6	6	1	3	1	-
Ohio	12	5	-	26	14	2	21	5	1	20	10	-	36	13	-
Oklahoma	14	6	-	19	10	-	28	15	1	21	8	-	21	9	-
Oregon	16	4	-	12	6	1	15	8	-	9	3	-	9	3	-
Pennsylvania	14	9	2	26	14	1	16	7	-	20	7	-	29	11	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	11	6	-	8	5	-	4	2	-	6	4	1	3	-	-
South Dakota	-	-	-	-	-	-	2	1	-	2	1	-	1	-	-
Tennessee	26	16	1	25	11	-	18	9	-	23	11	4	30	11	1
Texas	86	46	4	92	40	4	140	80	8	131	82	5	118	74	6
Utah	5	4	1	4	3	1	1	-	-	2	2	-	5	2	-
Vermont	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-
Virginia	6	1	-	3	2	-	2	1	-	4	3	1	6	5	3
Washington	14	6	-	20	7	-	13	4	-	9	2	1	28	12	-
West Virginia	3	3	-	1	-	-	5	-	-	3	2	-	3	-	-
Wisconsin	11	2	-	21	7	2	13	4	-	11	5	-	14	4	-
Wyoming	17	12	1	13	9	1	11	8	1	9	4	-	8	5	-
Total	716	356	42	753	381	35	799	401	32	737	389	31	795	390	27

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

Railroads	At Public Crossing					At Private Crossing				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
Alaska RR Corp.	2	7	4	4	1	1	-	-	-	-
Amtrak	158	168	140	118	130	23	34	22	24	20
Bangor & Aroostook	4	1	1	2	-	2	-	1	-	-
Burlington Northern Santa Fe	446	437	410	408	346	82	99	63	54	61
Belt Rwy Of Chicago	1	-	3	-	-	-	-	1	2	-
Consolidated Rail Corp.	58	-	-	-	-	6	-	-	-	-
Conrail Shared Assets	11	20	17	21	24	2	2	2	-	4
CSX Transportation	383	441	471	481	482	42	49	50	55	57
Delaware & Hudson	3	6	2	3	2	3	1	2	-	1
Dakota,Minnesota & Eastern	11	10	9	9	7	-	1	3	1	1
Duluth,Missabe & Iron Range	2	1	1	2	1	-	-	-	-	-
Duluth,Winnipeg & Pacific	2	2	1	2	1	-	-	-	-	-
Elgin, Joliet & Eastern	6	4	3	6	-	1	1	2	3	4
Florida East Coast	20	13	21	18	19	2	1	1	-	1
Grand Canyon Railway	1	-	-	-	-	-	-	-	-	-
Guilford Rail System	4	4	3	5	9	-	2	1	-	1
Grand Trunk Western RR	22	24	23	17	34	2	2	1	2	2
Gateway Western	4	5	3	-	-	-	1	1	-	-
Illinois Central	111	101	82	66	91	8	6	8	11	11
Iowa Chicago & Eastern RR	30	38	32	23	19	4	7	4	3	1
Indiana Harbor Belt	10	6	8	3	5	3	3	2	1	-
Kansas City Southern	132	131	113	91	99	12	17	7	13	12
Long Island Rail Road	6	8	5	7	5	-	-	-	-	-
MD Assn. of Rail Comm	4	1	-	1	2	-	-	-	-	-
Mass Bay Transit Auth.	2	6	6	4	6	-	-	-	-	-
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	-	1
Metro North Commuter	2	1	1	2	1	1	-	-	2	1
Montana Rail Link	3	9	10	10	7	5	4	1	2	5
Northern IN Comm Trans	6	5	3	7	4	-	-	1	1	-
Northeast IL Reg Comm	20	18	31	24	28	1	1	-	2	-
New Jersey Transit Rail	7	6	13	16	10	-	-	-	-	-
Norfolk Southern Corp.	497	513	432	449	415	67	73	75	79	74
Paducah & Louisville	6	9	5	8	5	-	1	3	-	-
Peninsula Comm San Mateo Cnty	5	4	6	1	6	-	-	-	1	-
Port Terminal RR Assn	-	3	6	4	6	1	5	2	7	1
Southern CA Reg Rail Auth.	8	8	9	15	17	2	-	1	2	-
Southeastern PA Trans.	1	4	-	-	1	-	-	-	1	-
Soo Line	43	25	27	39	30	8	10	6	3	6
Term RR Assn Of St. Louis	-	1	1	4	1	-	-	-	-	-
Union Pacific	656	602	555	479	440	69	83	74	53	54
Wisconsin Central Ltd.	66	90	79	50	47	1	6	-	3	4
Wheeling & Lake Erie	7	8	11	8	18	-	-	1	-	1
Wisconsin & Southern RR	10	9	13	9	6	-	3	1	-	-
Other Railroads	320	283	283	293	283	51	58	58	43	43
Total	3,090	3,032	2,843	2,709	2,608	399	470	394	368	366

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

States	At Public Crossing					At Private Crossing					At Public Crossing			At Private Crossing		
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	Cnt	Kld	Nonf	Cnt	Kld	Nonf
Alabama	112	84	93	107	83	12	11	10	11	8	479	51	155	52	3	16
Alaska	2	7	4	4	1	1	-	-	-	-	18	-	4	1	-	-
Arizona	30	26	28	17	31	3	3	1	2	8	132	16	41	17	6	1
Arkansas	95	99	83	83	71	10	16	4	1	9	431	70	151	40	4	13
California	175	141	163	117	120	29	33	17	23	21	716	141	248	123	21	49
Colorado	28	31	28	33	29	5	5	6	5	6	149	15	41	27	4	14
Connecticut	6	4	1	2	-	2	4	2	3	4	13	3	3	15	1	3
Delaware	10	10	6	4	6	1	-	1	2	2	36	4	17	6	-	1
Dist Of Columbia	-	-	-	-	-	-	2	-	-	-	-	-	-	2	-	-
Florida	91	75	99	86	93	4	11	15	13	7	444	72	188	50	7	21
Georgia	125	119	118	128	107	11	9	4	14	7	597	46	186	45	2	11
Hawaii	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
Idaho	20	26	17	18	18	-	7	3	2	3	99	15	27	15	3	1
Illinois	178	196	187	155	152	24	21	25	17	17	868	161	385	104	9	24
Indiana	182	188	153	162	133	11	6	12	13	11	818	102	251	53	2	10
Iowa	92	99	100	63	62	7	10	10	6	3	416	35	136	36	4	7
Kansas	74	58	56	68	50	3	9	7	3	8	306	33	129	30	3	3
Kentucky	49	57	60	72	72	13	12	19	13	19	310	27	101	76	5	24
Louisiana	164	162	147	136	132	16	19	14	13	14	741	75	328	76	8	32
Maine	5	5	7	5	8	2	3	2	1	3	30	-	10	11	2	1
Maryland	16	12	14	10	18	2	7	3	1	4	70	3	15	17	-	5
Massachusetts	9	11	15	12	15	1	1	2	-	1	62	7	14	5	-	1
Michigan	111	128	92	91	101	11	6	4	6	6	523	50	187	33	3	10
Minnesota	92	84	73	72	66	10	7	9	4	9	387	43	168	39	7	11
Mississippi	126	107	96	86	84	8	6	6	11	7	499	73	237	38	4	12
Missouri	88	67	55	64	54	11	21	9	12	11	328	50	147	64	3	14
Montana	11	14	15	23	16	8	10	1	2	10	79	6	19	31	6	3
Nebraska	55	46	39	49	39	9	9	11	6	3	228	33	74	38	2	11
Nevada	3	1	2	1	1	3	1	-	1	1	8	-	2	6	2	2
New Hampshire	6	3	1	-	1	-	-	1	1	-	11	-	1	2	-	2
New Jersey	21	34	31	32	40	3	2	5	1	10	158	29	52	21	-	2
New Mexico	15	13	20	14	8	4	4	4	3	4	70	10	32	19	5	5
New York	24	33	22	31	36	7	8	10	8	7	146	21	33	40	7	15
North Carolina	77	94	65	61	64	22	19	14	17	8	361	20	80	80	9	31
North Dakota	15	16	15	22	22	2	1	2	3	1	90	14	29	9	1	6
Ohio	127	138	123	127	115	19	10	17	14	11	630	89	209	71	8	10
Oklahoma	77	83	65	65	64	7	6	4	4	3	354	64	144	24	2	7
Oregon	22	21	25	24	22	8	9	18	11	9	114	8	34	55	3	18
Pennsylvania	49	59	59	59	71	9	10	9	14	17	297	25	60	59	4	16
Rhode Island	-	-	-	-	2	-	-	-	-	-	2	-	-	-	-	-
South Carolina	61	67	58	61	61	3	13	7	5	9	308	32	111	37	4	30
South Dakota	15	8	16	20	14	-	3	4	1	1	73	2	26	9	-	2
Tennessee	87	80	81	75	75	3	10	16	7	9	398	36	122	45	2	11
Texas	322	327	313	277	258	43	61	49	48	26	1,497	180	616	227	25	86
Utah	18	15	18	16	18	1	3	2	5	1	85	9	34	12	3	1
Vermont	5	2	-	4	2	1	-	-	1	1	13	-	2	3	-	4
Virginia	35	34	31	24	40	20	20	13	15	18	164	7	53	86	7	50
Washington	39	24	30	25	31	12	21	8	10	12	149	10	30	63	7	14
West Virginia	19	14	13	21	30	12	6	7	9	9	97	7	38	43	-	15
Wisconsin	104	110	102	79	69	5	12	2	4	5	464	40	189	28	3	7
Wyoming	3	-	3	4	3	1	3	5	2	3	13	-	5	14	3	4
Total	3,090	3,032	2,843	2,709	2,608	399	470	394	368	366	14,282	1,734	5,164	1,997	204	636

TABLE 1-13 HIGHWAY-RAIL CROSSING INCIDENTS CASUALTIES BY RAILROAD

Railroads	Fatalities					Nonfatal				
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003
Alaska RR Corp.	-	-	-	-	-	1	-	1	1	1
Amtrak	52	56	69	42	52	146	90	84	93	124
Bangor & Aroostook	-	-	-	-	-	2	-	1	-	-
Burlington Northern Santa Fe	59	65	55	69	55	237	202	181	169	162
Belt Rwy Of Chicago	-	-	-	-	-	-	-	1	-	-
Consolidated Rail Corp.	8	-	-	-	-	19	-	-	-	-
Conrail Shared Assets	1	1	2	-	1	2	10	6	4	9
CSX Transportation	54	55	63	39	52	189	212	206	142	159
Delaware & Hudson	1	1	2	-	-	4	4	1	-	2
Dakota,Minnesota & Eastern	-	-	-	-	1	3	4	1	2	-
Duluth,Missabe & Iron Range	-	-	-	-	-	2	1	-	-	1
Duluth,Winnipeg & Pacific	1	-	-	-	-	-	-	-	1	-
Elgin, Joliet & Eastern	2	-	-	-	-	2	-	2	2	1
Florida East Coast	5	7	3	8	2	12	6	3	5	11
Guilford Rail System	-	-	-	-	1	2	1	2	1	2
Grand Trunk Western RR	3	1	1	5	1	4	10	9	1	8
Gateway Western	-	2	-	-	-	1	3	1	-	-
Illinois Central	10	14	21	7	6	64	55	47	34	27
Iowa Chicago & Eastern RR	2	5	4	1	3	11	15	18	10	14
Indiana Harbor Belt	-	1	-	-	-	-	3	2	1	-
Kansas City Southern	15	19	15	11	10	57	57	60	45	31
Long Island Rail Road	1	1	4	2	2	2	3	1	-	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	-	1	1
Mass Bay Transit Auth.	-	1	-	4	-	-	1	1	1	2
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	-	1
Metro North Commuter	-	-	-	1	-	3	1	-	2	-
Montana Rail Link	2	3	1	-	1	3	-	2	1	4
Northern IN Comm Trans	1	-	-	-	-	-	-	2	7	-
Northeast IL Reg Comm	2	3	9	7	7	6	-	15	6	19
New Jersey Transit Rail	4	3	6	4	2	1	-	1	8	2
Norfolk Southern Corp.	51	59	67	58	41	187	129	129	96	121
Paducah & Louisville	-	-	-	-	-	1	2	4	4	3
Peninsula Comm San Mateo Cnty	1	2	4	-	1	6	3	-	2	-
Port Terminal RR Assn	1	-	-	-	-	-	2	3	-	1
Southern CA Reg Rail Auth.	2	1	1	5	9	2	2	6	10	26
Southeastern PA Trans.	-	-	-	-	-	1	3	-	-	1
Soo Line	4	2	2	6	3	19	19	17	28	14
Term RR Assn Of St. Louis	-	-	-	-	-	-	-	-	-	1
Union Pacific	101	101	72	69	70	281	244	227	208	171
Wisconsin Central Ltd.	6	9	10	4	2	36	43	35	20	16
Wheeling & Lake Erie	-	-	-	-	-	4	3	5	1	9
Wisconsin & Southern RR	-	1	-	-	-	-	4	5	3	2
Other Railroads	13	12	10	15	11	86	87	78	90	83
Total	402	425	421	357	333	1,396	1,219	1,157	999	1,029

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

States	Fatalities					Nonfatal					5 year Total	
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	Kld	Nonf
Alabama	12	10	9	13	10	34	39	28	32	38	54	171
Alaska	-	-	-	-	-	1	-	1	1	1	-	4
Arizona	1	8	6	-	7	11	13	10	5	3	22	42
Arkansas	15	27	9	14	9	37	36	39	29	23	74	164
California	24	27	54	30	27	73	54	49	55	66	162	297
Colorado	3	6	3	6	1	15	8	10	12	10	19	55
Connecticut	-	2	-	2	-	3	-	2	1	-	4	6
Delaware	1	-	1	2	-	6	7	-	1	4	4	18
Florida	19	15	15	16	14	38	67	36	32	36	79	209
Georgia	7	10	19	5	7	41	38	50	13	55	48	197
Idaho	2	11	1	1	3	6	1	7	7	7	18	28
Illinois	54	31	31	24	30	114	68	89	67	71	170	409
Indiana	26	23	19	17	19	63	55	62	44	37	104	261
Iowa	10	6	16	4	3	28	31	35	28	21	39	143
Kansas	8	11	5	9	3	39	18	20	26	28	36	131
Kentucky	4	5	10	5	8	26	20	31	24	24	32	125
Louisiana	20	14	22	12	15	71	88	93	65	42	83	359
Maine	-	1	-	-	1	2	1	4	1	3	2	11
Maryland	1	1	1	-	-	1	2	9	4	4	3	20
Massachusetts	2	1	-	4	-	3	4	4	1	3	7	15
Michigan	15	13	11	7	7	48	51	36	34	28	53	197
Minnesota	13	6	9	11	11	57	40	25	30	27	50	179
Mississippi	17	15	22	14	9	83	44	47	31	44	77	249
Missouri	9	17	4	14	9	54	27	22	26	32	53	161
Montana	4	1	1	2	4	6	2	4	6	4	12	22
Nebraska	7	7	3	13	5	23	14	17	20	12	35	86
Nevada	-	-	-	1	1	1	-	-	1	2	2	4
New Hampshire	-	-	-	-	-	1	-	-	2	-	-	3
New Jersey	5	5	8	4	7	7	10	11	13	13	29	54
New Mexico	3	-	8	1	3	7	11	8	4	7	15	37
New York	4	5	8	3	8	12	14	5	10	7	28	48
North Carolina	3	14	6	2	4	30	25	21	20	15	29	111
North Dakota	1	6	2	-	6	3	2	8	13	9	15	35
Ohio	21	15	22	26	13	59	38	40	35	47	97	219
Oklahoma	14	12	9	20	11	26	47	19	27	32	66	151
Oregon	2	-	6	-	3	5	13	13	14	7	11	52
Pennsylvania	4	8	8	6	3	19	17	15	12	13	29	76
South Carolina	8	10	4	9	5	27	24	23	42	25	36	141
South Dakota	-	-	1	-	1	6	5	4	5	8	2	28
Tennessee	4	8	10	8	8	36	26	39	14	18	38	133
Texas	41	52	39	37	36	176	164	132	125	106	205	703
Utah	5	2	2	3	-	8	7	8	6	6	12	35
Vermont	-	-	-	-	-	1	-	-	3	2	-	6
Virginia	2	3	1	1	7	26	21	18	12	26	14	103
Washington	3	1	5	2	6	9	10	7	8	10	17	44
West Virginia	1	1	1	1	3	9	8	9	6	21	7	53
Wisconsin	7	15	10	7	4	43	49	43	31	30	43	196
Wyoming	-	-	-	1	2	2	-	4	1	2	3	9
Total	402	425	421	357	333	1,396	1,219	1,157	999	1,029	1,938	5,800

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

Railroads	Fatalities					Nonfatal					5 year Total	
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	Kld	Nonf
Alaska RR Corp.	-	-	-	-	-	-	-	1	-	1	-	2
Amtrak	51	70	67	78	64	25	18	37	28	22	330	130
Burlington Northern Santa Fe	63	77	62	64	69	53	57	47	52	39	335	248
Consolidated Rail Corp.	6	-	-	-	-	9	-	-	-	-	6	9
Conrail Shared Assets	1	-	5	2	-	1	3	4	6	2	8	16
CSX Transportation	64	61	78	77	77	47	58	84	54	55	357	298
Delaware & Hudson	2	3	3	1	1	2	2	2	1	-	10	7
Dakota,Minnesota & Eastern	-	-	-	-	1	1	-	-	1	-	1	2
Duluth,Winnipeg & Pacific	-	-	-	1	-	-	-	-	-	-	1	-
Elgin, Joliet & Eastern	-	-	-	-	-	-	-	2	-	2	-	4
Florida East Coast	10	15	10	16	16	7	13	7	6	8	67	41
Guilford Rail System	2	3	1	-	2	1	-	3	-	3	8	7
Grand Trunk Western RR	-	3	3	2	4	2	2	2	3	3	12	12
Gateway Western	1	2	1	-	-	-	1	-	-	-	4	1
Illinois Central	6	3	4	11	2	2	10	3	5	4	26	24
Iowa Chicago & Eastern RR	2	1	1	-	-	2	1	-	-	-	4	3
Indiana Harbor Belt	-	-	-	-	-	2	2	1	1	1	-	7
Kansas City Southern	5	5	6	10	6	3	9	2	9	11	32	34
Long Island Rail Road	4	4	6	5	4	3	9	5	3	2	23	22
MD Assn. of Rail Comm	2	2	-	-	-	1	-	-	-	-	4	1
Mass Bay Transit Auth.	5	10	10	11	4	1	5	1	2	1	40	10
Metro North Commuter	5	4	2	4	1	3	1	2	-	2	16	8
Montana Rail Link	1	-	1	1	-	1	-	-	-	1	3	2
Northeast IL Reg Comm	5	2	8	14	8	10	6	7	9	8	37	40
New Jersey Transit Rail	13	17	25	12	7	3	4	5	5	4	74	21
Norfolk Southern Corp.	47	56	55	63	65	50	41	42	50	54	286	237
Paducah & Louisville	-	-	-	1	-	-	1	2	-	-	1	3
Port Auth Trans Hudson	-	-	1	-	-	-	-	1	1	-	1	2
Peninsula Comm San Mateo Cnty	2	12	8	5	9	1	-	1	3	1	36	6
Port Terminal RR Assn	-	-	-	-	-	1	1	-	-	-	-	2
Southern CA Reg Rail Auth.	-	-	-	1	2	-	-	1	2	3	3	6
Southeastern PA Trans.	6	3	1	3	-	7	2	2	1	1	13	13
Soo Line	3	1	3	1	5	1	1	2	4	1	13	9
Union Pacific	165	95	132	146	133	192	141	127	133	144	671	737
Wisconsin Central Ltd.	-	2	1	3	3	1	6	2	-	3	9	12
Wheeling & Lake Erie	1	-	-	1	-	-	-	-	2	-	2	2
Wisconsin & Southern RR	-	1	-	-	-	1	-	-	-	-	1	1
Other Railroads	7	11	17	7	18	12	20	9	14	20	60	75
Total	479	463	511	540	501	445	414	404	395	396	2,494	2,054

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

States	Fatalities					Nonfatal					5 year Total	
	1999	2000	2001	2002	2003	1999	2000	2001	2002	2003	Kld	Nonf
Alabama	6	10	12	5	5	6	7	3	4	5	38	25
Alaska	-	-	-	-	-	-	-	1	-	1	-	2
Arizona	14	15	9	14	10	15	14	9	11	17	62	66
Arkansas	10	2	7	12	2	7	5	6	9	8	33	35
California	86	72	76	90	85	44	45	39	43	50	409	221
Colorado	6	4	6	4	5	8	4	4	1	2	25	19
Connecticut	10	4	3	4	2	2	-	2	1	2	23	7
Delaware	1	2	1	4	3	1	-	4	-	-	11	5
Dist Of Columbia	-	-	1	1	1	-	1	2	1	2	3	6
Florida	24	29	28	33	32	18	20	26	15	23	146	102
Georgia	11	11	8	14	22	12	5	9	13	15	66	54
Idaho	2	-	2	1	2	1	-	1	1	1	7	4
Illinois	32	31	39	32	26	29	26	27	26	29	160	137
Indiana	5	11	9	8	9	8	5	5	4	7	42	29
Iowa	6	2	1	16	6	4	8	5	4	2	31	23
Kansas	4	9	5	4	6	9	7	12	3	1	28	32
Kentucky	1	8	4	5	5	9	8	8	5	1	23	31
Louisiana	8	2	10	16	7	8	14	8	13	13	43	56
Maine	-	1	-	-	2	-	-	2	-	2	3	4
Maryland	10	7	6	9	8	6	5	2	3	4	40	20
Massachusetts	10	16	13	11	11	3	5	8	4	5	61	25
Michigan	5	9	8	4	7	5	11	4	6	10	33	36
Minnesota	10	5	5	6	5	9	5	6	3	4	31	27
Mississippi	8	2	11	10	2	4	-	5	4	6	33	19
Missouri	7	11	12	5	11	13	8	8	14	12	46	55
Montana	-	2	2	3	2	2	1	1	1	1	9	6
Nebraska	4	1	4	3	2	5	4	1	1	2	14	13
Nevada	4	1	3	3	5	3	4	2	2	5	16	16
New Hampshire	-	-	-	-	1	-	-	-	1	-	1	1
New Jersey	14	21	29	18	13	5	11	8	7	7	95	38
New Mexico	5	4	8	10	8	9	6	3	6	5	35	29
New York	18	24	18	23	19	16	26	25	10	8	102	85
North Carolina	21	10	19	20	17	12	11	13	6	5	87	47
North Dakota	2	2	2	1	-	1	1	3	-	2	7	7
Ohio	14	12	11	20	12	8	9	9	10	11	69	47
Oklahoma	7	10	5	1	9	9	7	9	7	5	32	37
Oregon	8	9	7	7	8	5	14	5	11	5	39	40
Pennsylvania	15	14	23	22	18	15	11	19	22	8	92	75
Rhode Island	1	1	1	1	1	-	-	1	-	-	5	1
South Carolina	8	9	8	13	5	6	7	4	8	5	43	30
South Dakota	-	2	-	3	-	1	6	-	1	1	5	9
Tennessee	12	6	13	7	13	4	1	8	18	12	51	43
Texas	42	34	47	44	51	90	56	60	68	53	218	327
Utah	2	3	2	2	2	1	3	1	2	4	11	11
Vermont	-	1	1	-	-	-	-	-	1	-	2	1
Virginia	8	8	4	11	6	10	4	14	8	14	37	50
Washington	13	14	18	13	13	10	15	4	8	11	71	48
West Virginia	1	8	4	2	7	8	10	4	5	7	22	34
Wisconsin	2	4	5	5	12	4	4	1	4	3	28	16
Wyoming	2	-	1	-	3	-	-	3	-	-	6	3
Total	479	463	511	540	501	445	414	404	395	396	2,494	2,054

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 guide ways, 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, 2003

Months	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
January	1,167	67	748	228	-	14	277	30	103	662	37	631
February	1,203	63	770	251	1	19	269	28	85	683	34	666
March	1,135	60	708	251	-	7	208	19	56	676	41	645
April	1,099	70	690	253	1	8	199	28	61	647	41	621
May	1,154	75	790	249	-	17	204	29	110	701	46	663
June	1,164	73	746	250	-	10	221	25	63	693	48	673
July	1,260	69	842	268	-	24	241	26	99	751	43	719
August	1,284	79	850	254	-	21	267	30	107	763	49	722
September	1,248	84	784	265	1	14	270	27	102	713	56	668
October	1,218	92	830	203	-	70	288	33	75	727	59	685
November	1,090	69	681	235	-	11	229	28	82	626	41	588
December	1,241	65	730	285	1	12	301	30	86	655	34	632
Total	14,263	866	9,169	2,992	4	227	2,974	333	1,029	8,297	529	7,913

TABLE 2-2 ACCIDENT/INCIDENT RATES, BY MONTH, 2003

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	11.88	3.79	2.68	4.61	6.74	0.91	5.57	0.92	17.42	2.05
February	13.00	4.40	2.94	4.71	7.38	1.03	4.35	1.17	22.25	2.13
March	11.20	3.98	2.51	3.30	6.67	1.11	3.72	0.80	18.00	2.23
April	10.93	4.09	2.41	3.22	6.43	1.28	3.88	2.02	20.63	2.05
May	11.36	3.96	2.76	3.25	6.90	1.19	4.86	1.32	20.94	1.88
June	11.77	4.09	2.88	3.62	7.01	1.36	3.82	1.62	21.69	1.91
July	12.59	4.35	2.80	3.91	7.51	1.49	4.56	1.43	19.99	2.41
August	12.61	3.99	3.01	4.19	7.49	1.38	5.10	1.19	19.75	2.06
September	12.47	4.26	2.79	4.34	7.12	1.25	4.98	1.50	21.32	2.17
October	11.48	3.06	2.78	4.34	6.85	1.42	6.76	1.68	14.77	1.64
November	11.19	3.78	2.67	3.68	6.43	1.17	3.42	1.12	22.12	1.58
December	12.92	4.64	2.95	4.90	6.82	0.83	3.47	1.18	23.80	2.30
Total	11.94	4.02	2.76	4.00	6.95	1.21	4.54	1.33	20.17	2.03

TABLE 2-3 ACCIDENTS/INCIDENTS BY RAILROAD GROUPS, 2003

Groups	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
I	9,991	739	5,909	2,342	4	122	2,364	290	817	5,285	445	4,970
II	2,995	95	2,510	379	-	99	284	32	129	2,332	63	2,282
III	1,277	32	750	271	-	6	326	11	83	680	21	661
All	14,263	866	9,169	2,992	4	227	2,974	333	1,029	8,297	529	7,913

TABLE 2-4 OPERATIONAL DATA BY RAILROAD GROUPS, 2003

Groups	Train Miles	Freight Train Miles	Passenger Train Miles	Yard Switching Train Miles	Other Train Miles	Employee Hours	Passengers Carried
I	636,098,550	525,455,042	37,459,000	62,282,939	10,901,569	347,059,870	24,594,785
II	82,359,488	22,650,662	48,120,373	11,360,013	228,440	80,899,903	442,836,031
III	25,064,846	13,096,705	3,813,023	8,056,912	98,206	23,175,538	26,794,983
All	743,522,884	561,202,409	89,392,396	81,699,864	11,228,215	451,135,311	494,225,799

TABLE 2-5 ACCIDENT/INCIDENT RATES BY RAILROAD GROUPS, 2003

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	10.16	3.68	2.30	3.72	5.38	1.19	6.18	1.36	21.87	1.71
II	18.35	4.60	4.17	3.45	14.28	1.23	3.60	1.37	16.90	2.63
III	26.47	10.81	4.74	13.01	14.10	1.52	3.73	0.26	11.67	10.41
Tot	11.94	4.02	2.76	4.00	6.95	1.21	4.54	1.32	20.17	2.03

TABLE 2-6 ACCIDENTS/INCIDENTS BY RAILROAD, 2003

Group - Railroads		Total			Train Accidents			HRC Incidents			Other Incidents		
		Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
1	Amtrak	1,499	118	1,335	111	1	18 150	52	124	1,238	65	1,193	
	Burlington Northern Santa Fe	1,931	134	1,102	568	1	33 407	55	162	956	78	907	
	CSX Transportation	1,912	134	978	514	-	25 539	52	159	859	82	794	
	Grand Trunk Western RR	127	6	77	17	-	- 36	1	8	74	5	69	
	Illinois Central	295	9	153	66	-	2 102	6	27	127	3	124	
	Kansas City Southern	307	16	129	99	-	3 111	10	31	97	6	95	
	Norfolk Southern Corp.	1,388	107	662	315	-	10 489	41	121	584	66	531	
	Soo Line	158	8	107	27	-	1 36	3	14	95	5	92	
	Union Pacific	2,545	207	1,366	796	2	30 494	70	171	1,255	135	1,165	
2	Alton & Southern	22	-	11	14	-	3 -	-	-	8	-	8	
	Alaska RR Corp.	34	-	29	6	-	- 1	-	1	27	-	28	
	Belt Rwy Of Chicago	34	-	15	19	-	- -	-	-	15	-	15	
	Conrail Shared Assets	111	1	51	42	-	1 28	1	9	41	-	41	
	Delaware & Hudson	45	1	40	4	-	- 3	-	2	38	1	38	
	Dakota,Minnesota & Eastern	44	2	16	19	-	- 8	1	-	17	1	16	
	Duluth,Missabe & Iron Range	25	-	23	2	-	- 1	-	1	22	-	22	
	Duluth,Winnipeg & Pacific	19	-	15	4	-	1 1	-	-	14	-	14	
	Elgin, Joliet & Eastern	35	-	23	9	-	- 4	-	1	22	-	22	
	Florida East Coast	73	18	37	11	-	- 20	2	11	42	16	26	
	Grand Canyon Railway	21	-	21	-	-	- -	-	-	21	-	21	
	Guilford Rail System	38	3	23	6	-	- 10	1	2	22	2	21	
	Iowa Chicago & Eastern RR	85	3	42	37	-	- 20	3	14	28	-	28	
	Indiana Harbor Belt	54	-	33	17	-	- 5	-	-	32	-	33	
	Long Island Rail Road	338	7	321	12	-	5 5	2	-	321	5	316	
	MD Assn. of Rail Comm	8	-	7	-	-	- 2	-	1	6	-	6	
	Mass Bay Transit Auth.	131	5	120	2	-	- 6	-	2	123	5	118	
	Montreal, Maine & Atlantic	13	-	11	2	-	- 1	-	1	10	-	10	
	Metro North Commuter	492	1	430	70	-	11 2	-	-	420	1	419	
	Montana Rail Link	54	1	35	11	-	- 12	1	4	31	-	31	
	Northern IN Comm Trans	28	-	24	-	-	- 4	-	-	24	-	24	
	Northeast IL Reg Comm	228	16	261	3	-	54 28	7	19	197	9	188	
	New Jersey Transit Rail	268	9	226	42	-	13 10	2	2	216	7	211	
	Paducah & Louisville	11	-	8	1	-	- 5	-	3	5	-	5	
	Port Auth Trans Hudson	162	-	170	2	-	9 -	-	-	160	-	161	
	Peninsula Comm San Mateo Cnty	41	10	29	-	-	- 6	1	-	35	9	29	
	Port Terminal RR Assn	35	-	17	12	-	- 7	-	1	16	-	16	
	Southern CA Reg Rail Auth.	53	13	59	-	-	- 17	9	26	36	4	33	
	Southeastern PA Trans.	247	-	232	15	-	- 1	-	1	231	-	231	
	Term RR Assn Of St. Louis	17	-	6	11	-	- 1	-	1	5	-	5	
	Union RR (Pittsburgh)	35	-	30	6	-	1 -	-	-	29	-	29	
	Wisconsin Central Ltd.	149	5	95	18	-	- 51	2	16	80	3	79	
	Wheeling & Lake Erie	40	-	18	13	-	1 19	-	9	8	-	8	
	Wisconsin & Southern RR	41	-	32	5	-	- 6	-	2	30	-	30	
3	Other Railroads	1,312	32	750	306	-	6 326	11	83	680	21	661	

TABLE 2-7 ACCIDENT/INCIDENT RATES BY RAILROAD, 2003

Group - Railroads		Total Rate 1/	Train Acc Rate 2/	EOD Rate 3/	HRC Rate 4/	Other Events Rate 5/	Tres Rate 6/	Psgr Rate 7/	Psgr Train Rate 8/	Yard Rate 9/	Other Track Rate 10/
1	Amtrak	19.39	2.81	4.20	3.80	16.01	2.18	6.18	1.36	22.33	1.74
	Burlington Northern Santa Fe	7.81	3.27	1.99	2.35	3.87	0.62	.	.	24.09	1.58
	CSX Transportation	11.16	4.78	2.29	5.01	5.02	1.23	.	.	25.96	1.92
	Grand Trunk Western RR	15.56	3.76	3.57	7.96	9.07	1.55	.	.	11.04	1.94
	Illinois Central	16.00	6.36	3.00	9.83	6.89	0.58	.	.	15.68	3.32
	Kansas City Southern	21.95	11.80	2.97	13.23	6.93	2.03	.	.	34.69	7.72
	Norfolk Southern Corp.	9.14	3.39	1.40	5.26	3.85	1.28	.	.	13.25	1.79
	Soo Line	10.34	2.99	2.69	3.99	6.22	0.67	.	.	5.69	2.26
	Union Pacific	9.10	4.19	2.18	2.60	4.49	1.46	.	.	31.69	1.87
2	Alton & Southern	13.77	15.34	3.21	.	5.01	.	.	.	13.15	.
	Alaska RR Corp.	11.34	3.81	3.66	0.63	9.01	0.63	2.21	.	6.57	2.07
	Belt Rwy Of Chicago	22.38	39.53	2.70	.	9.87	.	.	.	40.56	32.54
	Conrail Shared Assets	22.53	18.33	2.50	12.22	8.32	0.87	.	.	19.85	12.57
	Delaware & Hudson	14.92	2.17	6.48	1.63	12.60	0.54	.	.	6.34	1.31
	Dakota,Minnesota & Eastern	30.76	27.26	4.36	11.48	11.88	1.43	.	.	77.46	23.24
	Duluth,Missabe & Iron Range	16.78	3.69	4.64	1.85	14.77	.	.	.	47.61	.
	Duluth,Winnipeg & Pacific	14.92	4.75	6.96	1.19	11.00	.	.	.	53.14	2.49
	Elgin, Joliet & Eastern	16.93	13.46	2.86	5.98	10.64	2.99	.	.	24.84	7.02
	Florida East Coast	18.36	4.49	1.83	8.17	10.56	9.80	.	.	14.20	2.47
	Grand Canyon Railway	38.74	.	7.86	.	38.74	.	4.02	.	.	.
	Guilford Rail System	12.10	4.09	2.15	6.81	7.00	3.40	.	.	5.17	3.38
	Iowa Chicago & Eastern RR	18.72	10.74	5.29	5.81	6.17	.	.	.	62.71	6.58
	Indiana Harbor Belt	18.75	12.54	4.07	3.69	11.11	0.74	.	.	.	2.95
	Long Island Rail Road	15.37	1.46	3.50	0.61	14.59	0.73	0.87	0.49	.	0.73
	MD Assn. of Rail Comm	4.64	.	1.08	1.71	3.48	.	1.46	.	.	.
	Mass Bay Transit Auth.	17.29	0.51	5.14	1.53	16.23	1.28	2.96	0.26	.	0.26
	Montreal, Maine & Atlantic	15.50	4.56	5.00	2.28	11.92	.	.	.	.	5.66
	Metro North Commuter	24.69	8.10	5.41	0.23	21.08	0.35	1.59	4.28	.	6.36
	Montana Rail Link	9.70	3.00	3.15	3.28	5.57	0.27	.	.	8.69	2.19
	Northern IN Comm Trans	16.88	.	6.10	4.59	14.47	.	.	.	.	.
	Northeast IL Reg Comm	13.24	0.34	1.52	3.18	11.44	1.82	8.37	0.15	0.87	0.26
	New Jersey Transit Rail	15.45	4.95	3.39	1.18	12.46	1.30	2.86	1.46	78.42	2.44
	Paducah & Louisville	10.01	1.81	2.20	9.04	4.55	.	.	.	8.32	.
	Port Auth Trans Hudson	38.99	0.96	7.55	.	38.51	.	8.28	.	3.67	0.55
	Peninsula Comm San Mateo Cnty	21.77	.	4.78	5.74	18.59	9.56	1.25	.	.	.
	Port Terminal RR Assn	19.05	9.67	5.37	5.64	8.71	.	.	.	9.67	.
	Southern CA Reg Rail Auth.	19.36	.	1.52	8.17	13.15	2.40	7.53	.	.	.
	Southeastern PA Trans.	28.06	2.82	10.56	0.19	26.24	0.19	10.48	2.07	.	2.26
	Term RR Assn Of St. Louis	15.29	19.37	1.84	1.76	4.50	.	.	.	8.80	.
	Union RR (Pittsburgh)	32.55	46.24	6.35	.	26.97	.	.	.	7.71	.
	Wisconsin Central Ltd.	16.57	3.37	4.17	9.54	8.90	1.12	.	.	8.31	2.11
	Wheeling & Lake Erie	24.64	15.25	2.34	22.29	4.93	.	.	.	11.60	16.17
	Wisconsin & Southern RR	59.00	17.19	14.85	20.63	43.17	.	.	.	.	20.66
3	Other Railroads	27.20	12.21	4.74	13.01	14.10	1.52	3.73	0.26	14.40	11.17

1. Total accident/incident rate of all reported events * 1,000,000 / (train miles + hours)
2. Train accidents * 1,000,000 / total train miles3. 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

TABLE 2-8 RAILROAD RANKINGS, 2003

	Railroads	Train Miles	Hours	Total Rate	Train Acc Rate	EOD Rate	HRC Rate	Other Events	Tres Rate
1	ATK - Amtrak	5	5	19	3	4	4	16	2
	BNSF - Burlington Northern Santa Fe	2	2	8	3	2	2	4	1
	CSX - CSX Transportation	3	3	11	5	2	5	5	1
	GTW - Grand Trunk Western RR	9	9	16	4	4	8	9	2
	IC - Illinois Central	6	6	16	6	3	10	7	1
	KCS - Kansas City Southern	8	8	22	12	3	13	7	2
	NS - Norfolk Southern Corp.	4	4	9	3	1	5	4	1
	SOO - Soo Line	7	7	10	3	3	4	6	1
	UP - Union Pacific	1	1	9	4	2	3	4	1
2	ALS - Alton & Southern	21	25	14	15	3	0	5	0
	ARR - Alaska RR Corp.	15	14	11	4	4	1	9	1
	BRC - Belt Rwy Of Chicago	30	18	22	40	3	0	10	0
	CRSH - Conrail Shared Assets	11	8	23	18	3	12	8	1
	DH - Delaware & Hudson	14	16	15	2	6	2	13	1
	DME - Dakota,Minnesota & Eastern	25	24	31	27	4	11	12	1
	DMIR - Duluth,Missabe & Iron Range	29	19	17	4	5	2	15	0
	DWP - Duluth,Winnipeg & Pacific	24	32	15	5	7	1	11	0
	EJE - Elgin, Joliet & Eastern	26	15	17	13	3	6	11	3
	FEC - Florida East Coast	10	12	18	4	2	8	11	10
	GCRX - Grand Canyon Railway	34	31	39	0	8	0	39	0
	GRS - Guilford Rail System	16	11	12	4	2	7	7	3
	ICE - Iowa Chicago & Eastern RR	9	17	19	11	5	6	6	0
	IHB - Indiana Harbor Belt	17	13	19	13	4	4	11	1
	LI - Long Island Rail Road	4	1	15	1	3	1	15	1
	MACZ - MD Assn. of Rail Comm	19	28	5	0	1	2	3	0
	MBTA - Mass Bay Transit Auth.	7	5	17	1	5	2	16	1
	MMA - Montreal, Maine & Atlantic	31	34	15	5	5	2	12	0
	MNCW - Metro North Commuter	2	2	25	8	5	0	21	0
	MRL - Montana Rail Link	8	10	10	3	3	3	6	0
	NICD - Northern IN Comm Trans	22	22	17	0	6	5	14	0
	NIRC - Northeast IL Reg Comm	1	4	13	0	2	3	11	2
	NJTR - New Jersey Transit Rail	3	3	15	5	3	1	12	1
	PAL - Paducah & Louisville	28	29	10	2	2	9	5	0
	PATH - Port Auth Trans Hudson	12	9	39	1	8	0	39	0
	PCMZ - Peninsula Comm San Mateo Cnty	20	21	22	0	5	6	19	10
	PTRA - Port Terminal RR Assn	18	27	19	10	5	6	9	0
	SCAX - Southern CA Reg Rail Auth.	13	26	19	0	2	8	13	2
	SEPA - Southeastern PA Trans.	6	7	28	3	11	0	26	0
	TRRA - Term RR Assn Of St. Louis	27	30	15	19	2	2	4	0
	URR - Union RR (Pittsburgh)	33	20	33	46	6	0	27	0
	WC - Wisconsin Central Ltd.	5	6	17	3	4	10	9	1
	WE - Wheeling & Lake Erie	23	23	25	15	2	22	5	0
	WSOR - Wisconsin & Southern RR	32	33	59	17	15	21	43	0

TABLE 2-9 OPERATIONAL DATA, BY RAILROAD, 2003

Railroads	Total Train Miles	%	Employee Hours Worked	%	Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgs Carried	Psg Miles Millions
ALS	912,600	0.12	684,691	0.15	-	-	912,600	-	-	-
ARR	1,575,403	0.21	1,422,462	0.32	769,368	196,282	609,270	483	334,442	45
ATK	39,519,448	5.32	37,801,336	8.38	-	37,459,000	2,060,448	-	24,594,785	5,680
BNSF	173,448,392	23.33	73,650,604	16.33	160,415,966	-	13,032,426	-	-	-
BRC	480,620	0.06	1,038,614	0.23	61,454	-	419,166	-	-	-
CRSH	2,291,330	0.31	2,635,745	0.58	477,398	-	1,813,932	-	-	-
CSX	107,613,819	14.47	63,667,250	14.11	94,824,412	-	12,789,407	-	-	-
DH	1,842,186	0.25	1,173,131	0.26	1,526,715	-	315,471	-	-	-
DME	697,103	0.09	733,421	0.16	645,466	-	51,637	-	-	-
DMIR	541,591	0.07	947,931	0.21	499,582	-	42,009	-	-	-
DWP	842,292	0.11	430,957	0.10	804,080	-	37,637	575	-	-
EJE	668,641	0.09	1,398,167	0.31	427,096	-	241,545	-	-	-
FEC	2,448,331	0.33	1,528,721	0.34	2,025,875	-	422,456	-	-	-
GCRX	58,916	0.01	483,185	0.11	-	55,176	1,604	2,136	406,610	25
GRS	1,468,478	0.20	1,672,404	0.37	887,921	-	580,557	-	-	-
GTW	4,521,058	0.61	3,640,846	0.81	3,605,824	-	905,832	9,402	-	-
IC	10,374,814	1.40	8,057,204	1.79	7,809,116	-	2,550,226	15,472	-	-
ICE	3,444,693	0.46	1,095,628	0.24	3,189,531	-	255,162	-	-	-
IHB	1,355,838	0.18	1,524,588	0.34	1,355,838	-	-	-	-	-
KCS	8,390,521	1.13	5,597,316	1.24	7,122,293	-	1,268,228	-	-	-
LI	8,214,964	1.10	13,783,048	3.06	-	8,214,964	-	-	80,888,654	2,179
MACZ	1,168,672	0.16	554,432	0.12	-	1,096,014	4,366	68,292	6,694,503	205
MBTA	3,917,673	0.53	3,661,070	0.81	-	3,917,673	-	-	40,016,371	439
MMA	438,536	0.06	400,283	0.09	353,213	-	85,323	-	-	-
MNCW	8,645,882	1.16	11,278,597	2.50	-	8,645,882	-	-	71,079,832	2,071
MRL	3,662,086	0.49	1,904,548	0.42	3,183,908	17,789	460,389	-	13,133	2
NICD	871,597	0.12	787,416	0.17	114,628	756,969	-	-	3,754,780	104
NIRC	8,805,743	1.18	8,415,581	1.87	716,242	6,784,259	1,151,528	153,714	73,835,016	1,638
NJTR	8,492,655	1.14	8,848,795	1.96	-	8,212,100	280,555	-	60,500,830	1,571
NS	93,044,745	12.51	58,768,180	13.03	80,066,587	-	12,978,158	-	-	-
PAL	552,841	0.07	545,993	0.12	432,677	-	120,164	-	-	-
PATH	2,089,246	0.28	2,065,897	0.46	-	1,816,735	272,511	-	60,927,803	254
PCMZ	1,045,617	0.14	837,312	0.19	-	1,006,879	38,738	-	7,916,995	160
PTRA	1,241,346	0.17	596,242	0.13	-	-	1,241,346	-	-	-
SCAX	2,080,186	0.28	656,735	0.15	-	2,080,186	-	-	9,100,904	306
SEPA	5,319,465	0.72	3,483,369	0.77	-	5,319,465	-	-	27,366,158	372
SOO	9,020,814	1.21	6,253,828	1.39	7,088,510	-	1,932,304	-	-	-
TRRA	567,867	0.08	543,737	0.12	-	-	567,867	-	-	-
UP	190,164,939	25.58	89,623,306	19.87	164,522,334	-	14,765,910	10,876,695	-	-
URR	129,751	0.02	945,427	0.21	-	-	129,751	-	-	-
WC	5,344,019	0.72	3,647,089	0.81	4,259,327	-	1,083,218	1,474	-	-
WE	852,515	0.11	770,576	0.17	680,064	-	172,451	-	-	-
WSOR	290,805	0.04	404,111	0.09	240,279	-	48,760	1,766	-	-
XXXX	25,064,846	3.37	23,175,538	5.14	13,096,705	3,813,023	8,056,912	98,206	26,794,983	537
Total	743,522,884	100.0	451,135,311	100.0	561,202,409	89,392,396	81,699,864	11,228,215	494,225,799	15,588

XXXX = all other railroads

TABLE 2-10 OPERATIONAL DATA, BY MONTH, 2003

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	60,124,351	8.09	38,108,559	8.45	44,761,485	7,571,802	6,830,686	960,378	40,151,982	1,202
February	57,085,030	7.68	35,427,500	7.85	42,955,696	6,815,548	6,426,928	886,858	36,946,892	1,126
March	63,055,060	8.48	38,292,393	8.49	47,636,611	7,461,449	7,000,571	956,429	40,625,770	1,291
April	61,876,056	8.32	38,684,273	8.57	46,734,936	7,414,548	6,786,836	939,736	41,292,290	1,315
May	62,809,923	8.45	38,792,046	8.60	47,392,257	7,583,212	6,877,474	956,980	41,530,544	1,318
June	61,120,407	8.22	37,745,579	8.37	46,045,026	7,427,312	6,732,218	915,851	41,713,248	1,360
July	61,558,491	8.28	38,492,062	8.53	46,120,452	7,704,478	6,804,660	928,901	43,574,958	1,449
August	63,705,350	8.57	38,099,219	8.45	48,268,701	7,578,831	6,938,079	919,739	41,411,229	1,393
September	62,176,529	8.36	37,943,695	8.41	47,119,115	7,338,236	6,800,670	918,508	41,507,716	1,246
October	66,414,288	8.93	39,722,793	8.81	50,498,374	7,719,093	7,176,408	1,020,413	44,107,054	1,331
November	62,209,372	8.37	35,160,160	7.79	47,503,738	7,161,086	6,645,298	899,250	39,791,197	1,230
December	61,388,027	8.26	34,667,032	7.68	46,166,018	7,616,801	6,680,036	925,172	41,572,919	1,327
Total	743,522,884	100.0	451,135,311	100.0	561,202,409	89,392,396	81,699,864	11,228,215	494,225,799	15,588

TABLE 2-11 SUMMARY OF ACCIDENTS/INCIDENTS BY STATE, 2003

States	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
Alabama	265	16	132	77	-	2	91	10	38	97	6	92
Alaska	47	-	43	6	-	-	1	-	1	40	0	42
Arizona	175	17	112	24	-	5	39	7	3	112	10	104
Arkansas	279	11	142	79	-	1	80	9	23	120	2	118
California	991	118	694	173	-	22	141	27	66	677	91	606
Colorado	202	6	127	50	-	4	35	1	10	117	5	113
Connecticut	175	2	128	43	-	1	4	-	-	128	2	127
Delaware	80	3	63	10	-	-	8	-	4	62	3	59
Dist Of Columbia	155	1	140	14	-	-	-	-	-	141	1	140
Florida	402	47	259	49	-	2	100	14	36	253	33	221
Georgia	389	31	227	83	-	1	114	7	55	192	24	171
Hawaii	1	-	1	0	-	-	-	-	-	1	0	1
Idaho	107	6	70	22	1	1	21	3	7	64	2	62
Illinois	1,148	58	840	260	-	69	169	30	71	719	28	700
Indiana	393	28	199	83	-	3	144	19	37	166	9	159
Iowa	238	11	118	73	-	1	65	3	21	100	8	96
Kansas	261	9	142	90	-	7	58	3	28	113	6	107
Kentucky	237	13	131	39	-	3	91	8	24	107	5	104
Louisiana	353	22	173	76	-	2	146	15	42	131	7	129
Maine	43	3	27	7	-	-	11	1	3	25	2	24
Maryland	152	8	93	39	1	5	22	-	4	91	7	84
Massachusetts	245	12	195	25	-	-	16	-	3	204	12	192
Michigan	303	15	186	34	-	2	107	7	28	162	8	156
Minnesota	290	17	172	68	-	3	75	11	27	147	6	142
Mississippi	175	12	94	33	-	1	91	9	44	51	3	49
Missouri	327	20	199	86	-	1	65	9	32	176	11	166
Montana	121	6	74	24	-	-	26	4	4	71	2	70
Nebraska	271	8	165	82	1	3	42	5	12	147	2	150
Nevada	37	6	24	8	-	-	2	1	2	27	5	22
New Hampshire	5	1	3	0	-	-	1	-	-	4	1	3
New Jersey	551	20	444	84	-	24	50	7	13	417	13	407
New Mexico	91	12	55	22	-	-	12	3	7	57	9	48
New York	1,117	30	961	117	-	17	43	8	7	957	22	937
North Carolina	225	21	104	52	-	2	72	4	15	101	17	87
North Dakota	93	6	61	18	-	-	23	6	9	52	0	52
Ohio	507	26	274	150	-	4	126	13	47	231	13	223
Oklahoma	179	20	95	49	-	3	67	11	32	63	9	60
Oregon	182	11	95	55	-	-	31	3	7	96	8	88
Pennsylvania	690	21	489	117	-	6	88	3	13	485	18	470
Rhode Island	33	1	29	1	-	-	2	-	-	30	1	29
South Carolina	168	12	98	19	-	-	70	5	25	79	7	73
South Dakota	60	1	37	16	-	-	15	1	8	29	0	29
Tennessee	296	22	155	69	-	4	84	8	18	143	14	133
Texas	1,063	88	555	311	-	13	284	36	106	468	52	436
Utah	94	4	37	40	-	-	19	-	6	35	4	31
Vermont	25	-	19	5	-	-	3	-	2	17	0	17
Virginia	238	13	164	57	-	2	58	7	26	123	6	136
Washington	280	20	185	60	-	11	43	6	10	177	14	164
West Virginia	134	10	93	18	-	2	39	3	21	77	7	70
Wisconsin	261	16	170	37	-	-	74	4	30	150	12	140
Wyoming	109	5	76	38	1	-	6	2	2	65	2	74
Total	14,263	866	9,169	2,992	4	227	2,974	333	1,029	8,297	529	7,913

CHAPTER 3

CASUALTY REPORTING

FRA made minor revisions to the criteria used to report casualties that became effective in May 2003. This change was necessary to maintain consistency with revisions that OSHA made affecting the reporting of employee cases for all industries. The following are the criteria in place from 1975 through April 2003. Following these are the criteria that became effective May 1, 2003.

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.

Requirements in effect May 1, 2003.

Each event or exposure arising from the operation of a railroad shall be reported on Form FRA F 6180.55a if the event or exposure is a discernable cause of one or more of the following outcomes, and this outcome is a new case or a significant aggravation of a pre-existing injury or illness:

- (1) Death to any person;
- (2) Injury to any person that results in medical treatment;
- (3) Injury to a railroad employee that results in:
 - (i) A day away from work;

- (ii) Restricted work activity or job transfer; or
 - (iii) Loss of consciousness;
- (4) Occupational illness of a railroad employee that results in any of the following:
- (i) A day away from work;
 - (ii) Restricted work activity or job transfer;
 - (iii) Loss of consciousness; or
 - (iv) Medical treatment;
- (5) A significant injury to or illness of a railroad employee diagnosed by a physician or other licensed health care professional even if the injury or illness does not result in death, a day away from work, restricted work activity or job transfer, medical treatment, or loss of consciousness;
- (6) An illness or injury that meets the application of any of the following specific case criteria:
- (i) A needlestick or sharps injury to a railroad employee;
 - (ii) Medical removal of a railroad employee;
 - (iii) Occupational hearing loss of a railroad employee;
 - (iv) Occupational tuberculosis of a railroad employee; or
 - (v) A musculoskeletal disorder of a railroad employee if this disorder is independently reportable under one or more of the general reporting criteria.

Event or exposure arising from the operation of a railroad includes—

- (1) with respect to a person who is on property owned, leased, or maintained by the railroad, an activity of the railroad that is related to the performance of its rail transportation business or an exposure related to the activity;
- (2) with respect to an employee of the railroad (whether on or off property owned, leased or maintained by the railroad), an activity of the railroad that is related to the performance of its rail transportation business or an exposure related to the activity; and
- (3) with respect to a person who is not an employee of the railroad and not on property owned, leased, or maintained by the railroad—an event or exposure directly resulting from one or more of the following railroad operations:
 - (i) a train accident, a train incident, or a highway-rail crossing accident or incident involving the railroad; or
 - (ii) a release of a hazardous material from a railcar in the possession of the railroad or of another dangerous commodity that is related to the performance of the railroad's rail transportation business.

In the context of casualty reporting, the terms “event” and “exposure” include events of a specific nature, e.g., being struck by a train, and those conditions associated with work place activities, or exposures, that occur over a period of time, e.g., occupational illnesses. See § 225.19(d)

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 do not arise from the operation of a railroad (Note: camp cars, and permanent facilities on the railroad's premises are a part of the work environment and casualties occurring in these are considered to have arisen from the operation of a railroad. Normally, injuries occurring in these facilities will be reported as occurring to an employee not on duty (Class B), but at other times the employee is more properly classified as being on duty (Class A). In these workplaces, if the employee is on-duty or engaged in a work activity at the time of injury or illness, then the employee is classified as on duty. In addition, an employee in living quarters on railroad property who is harmed as a result of a serious workplace accident such as a chemical release, fire, explosion, derailment, collision, or building collapse while off-duty is nevertheless to be classified as on duty. All other injuries and illnesses occurring during off-duty hours while in living quarters are to be classified as injuries or illnesses to employees not on duty.)
3. Suicides, as determined by a coroner or other public authority; or
4. Attempted suicides.

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TABLE 3-1 CASUALTIES BY TYPE PERSON AND PRIMARY EVENT, 2003

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)	19	6,026	19	6,210	2	139	1	76	16	5,995
B - Employee not on duty	1	210	1	226	.	2	.	.	1	224
C - Passenger on train	2	565	3	705	.	74	1	73	2	558
D - Nontrespasser	181	849	204	1,017	.	4	197	648	7	365
E - Trespasser	617	540	634	622	2	1	133	226	499	395
F - Worker on duty(contractor)	2	181	3	183	.	3	1	2	2	178
G - Contractor(other)	2	185	2	187	.	2	.	.	2	185
H - Worker on duty(volunteer)	.	5	.	5	.	.	.	.	.	5
I - Volunteer(other)	.	2	.	2	.	.	.	.	.	2
J - Nontrespasser, off rr property	.	12	.	12	.	2	.	4	.	6
Total..	824	8,575	866	9,169	4	227	333	1,029	529	7,913

TABLE 3-2 FATALITIES BY TYPE PERSON AND RAILROAD, 2003

			Type Person Codes						
	Total	%	A	B	C	D	E	F	G
Amtrak	118	13.6	1	-	2	14	101	-	-
Burlington Northern Santa Fe	134	15.5	4	1	-	43	85	-	1
Conrail Shared Assets	1	0.1	-	-	-	-	1	-	-
CSX Transportation	134	15.5	4	-	-	34	96	-	-
Delaware & Hudson	1	0.1	-	-	-	-	1	-	-
Dakota,Minnesota & Eastern	2	0.2	-	-	-	-	2	-	-
Florida East Coast	18	2.1	-	-	-	2	16	-	-
Guilford Rail System	3	0.3	-	-	-	-	3	-	-
Grand Trunk Western RR	6	0.7	1	-	-	1	4	-	-
Illinois Central	9	1.0	1	-	-	5	3	-	-
Iowa Chicago & Eastern RR	3	0.3	-	-	-	-	3	-	-
Kansas City Southern	16	1.8	-	-	-	10	6	-	-
Long Island Rail Road	7	0.8	1	-	-	1	5	-	-
Mass Bay Transit Auth.	5	0.6	1	-	-	-	4	-	-
Metro North Commuter	1	0.1	-	-	-	-	1	-	-
Montana Rail Link	1	0.1	-	-	-	1	-	-	-
Northeast IL Reg Comm	16	1.8	-	-	-	3	13	-	-
New Jersey Transit Rail	9	1.0	-	-	-	-	9	-	-
Norfolk Southern Corp.	107	12.4	1	-	-	21	85	-	-
Peninsula Comm San Mateo Cnty	10	1.2	-	-	-	-	10	-	-
Southern CA Reg Rail Auth.	13	1.5	-	-	1	-	10	2	-
Soo Line	8	0.9	-	-	-	3	5	-	-
Union Pacific	207	23.9	3	-	-	55	148	1	-
Wisconsin Central Ltd.	5	0.6	-	-	-	2	3	-	-
Other Railroads	32	3.7	2	-	-	9	20	-	1
Total	866	100	19	1	3	204	634	3	2

TABLE 3-3 FATALITIES BY TYPE PERSON KILLED AND STATE, 2003

States			Type Person Codes						
	Total	%	A	B	C	D	E	F	G
Alabama	16	1.8	-	-	-	9	6	-	1
Arizona	17	2.0	-	-	-	5	12	-	-
Arkansas	11	1.3	-	-	-	9	2	-	-
California	118	13.6	2	1	1	3	108	2	1
Colorado	6	0.7	-	-	-	1	5	-	-
Connecticut	2	0.2	-	-	-	-	2	-	-
Delaware	3	0.3	-	-	-	-	3	-	-
Dist Of Columbia	1	0.1	-	-	-	-	1	-	-
Florida	47	5.4	-	-	1	4	42	-	-
Georgia	31	3.6	3	-	-	4	24	-	-
Idaho	6	0.7	1	-	-	3	2	-	-
Illinois	58	6.7	-	-	-	17	41	-	-
Indiana	28	3.2	-	-	-	10	18	-	-
Iowa	11	1.3	1	-	-	3	7	-	-
Kansas	9	1.0	-	-	-	2	7	-	-
Kentucky	13	1.5	-	-	-	2	11	-	-
Louisiana	22	2.5	-	-	-	14	8	-	-
Maine	3	0.3	-	-	-	-	3	-	-
Maryland	8	0.9	-	-	-	-	8	-	-
Massachusetts	12	1.4	1	-	-	-	11	-	-
Michigan	15	1.7	1	-	-	4	10	-	-
Minnesota	17	2.0	-	-	-	6	11	-	-
Mississippi	12	1.4	1	-	-	8	3	-	-
Missouri	20	2.3	-	-	-	7	13	-	-
Montana	6	0.7	-	-	-	3	3	-	-
Nebraska	8	0.9	1	-	-	3	4	-	-
Nevada	6	0.7	-	-	-	1	5	-	-
New Hampshire	1	0.1	-	-	-	-	1	-	-
New Jersey	20	2.3	-	-	-	1	19	-	-
New Mexico	12	1.4	-	-	-	4	8	-	-
New York	30	3.5	3	-	-	2	25	-	-
North Carolina	21	2.4	-	-	-	2	19	-	-
North Dakota	6	0.7	-	-	-	4	2	-	-
Ohio	26	3.0	1	-	-	6	19	-	-
Oklahoma	20	2.3	-	-	-	8	12	-	-
Oregon	11	1.3	-	-	-	2	9	-	-
Pennsylvania	21	2.4	-	-	-	1	20	-	-
Rhode Island	1	0.1	-	-	-	-	1	-	-
South Carolina	12	1.4	1	-	-	3	8	-	-
South Dakota	1	0.1	-	-	-	1	-	-	-
Tennessee	22	2.5	1	-	-	6	15	-	-
Texas	88	10.2	1	-	-	31	55	1	-
Utah	4	0.5	1	-	1	-	2	-	-
Virginia	13	1.5	-	-	-	3	10	-	-
Washington	20	2.3	-	-	-	4	16	-	-
West Virginia	10	1.2	-	-	-	2	8	-	-
Wisconsin	16	1.8	-	-	-	4	12	-	-
Wyoming	5	0.6	-	-	-	2	3	-	-
Total	866	100.0	19	1	3	204	634	3	2

TABLE 3-4 NONFATAL CONDITIONS BY TYPE PERSON AND RAILROAD, 2003

	Total	%	Type Person Codes									
			A	B	C	D	E	F	G	H	I	J
Alton & Southern	11	0.1	11	-	-	-	-	-	-	-	-	-
Alaska RR Corp.	29	0.3	26	-	1	-	2	-	-	-	-	-
Amtrak	1,335	14.6	792	43	349	91	46	3	7	-	-	4
Burlington Northern Santa Fe	1,102	12.0	727	43	-	126	81	21	103	-	-	1
Belt Rwy Of Chicago	15	0.2	14	1	-	-	-	-	-	-	-	-
Conrail Shared Assets	51	0.6	33	-	-	4	10	2	2	-	-	-
CSX Transportation	978	10.7	726	34	-	117	93	5	2	-	-	1
Delaware & Hudson	40	0.4	38	-	-	2	-	-	-	-	-	-
Dakota, Minnesota & Eastern	16	0.2	16	-	-	-	-	-	-	-	-	-
Duluth, Missabe & Iron Range	23	0.3	22	-	-	1	-	-	-	-	-	-
Duluth, Winnipeg & Pacific	15	0.2	15	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	23	0.3	20	-	-	-	2	-	-	-	-	1
Florida East Coast	37	0.4	14	2	-	11	8	-	2	-	-	-
Grand Canyon Railway	21	0.2	19	-	1	1	-	-	-	-	-	-
Guilford Rail System	23	0.3	18	-	-	-	5	-	-	-	-	-
Grand Trunk Western RR	77	0.8	64	1	-	7	4	-	1	-	-	-
Illinois Central	153	1.7	120	2	-	23	7	-	-	-	-	1
Iowa Chicago & Eastern RR	42	0.5	29	-	-	-	13	-	-	-	-	-
Indiana Harbor Belt	33	0.4	31	-	-	-	1	-	1	-	-	-
Kansas City Southern	129	1.4	83	-	-	30	11	3	2	-	-	-
Long Island Rail Road	321	3.5	240	7	19	49	2	-	4	-	-	-
MD Assn. of Rail Comm	7	0.1	3	-	3	-	1	-	-	-	-	-
Mass Bay Transit Auth.	120	1.3	93	6	13	6	2	-	-	-	-	-
Montreal, Maine & Atlantic	11	0.1	10	-	-	1	-	-	-	-	-	-
Metro North Commuter	430	4.7	305	15	33	61	2	-	13	-	-	1
Montana Rail Link	35	0.4	30	-	-	4	1	-	-	-	-	-
Northern IN Comm Trans	24	0.3	24	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	261	2.8	64	4	137	29	20	6	-	-	-	1
New Jersey Transit Rail	226	2.5	150	3	45	23	5	-	-	-	-	-
Norfolk Southern Corp.	662	7.2	409	18	-	92	86	44	13	-	-	-
Paducah & Louisville	8	0.1	6	-	-	-	2	-	-	-	-	-
Port Auth Trans Hudson	170	1.9	78	1	21	55	-	12	3	-	-	-
Peninsula Comm San Mateo Cnty	29	0.3	20	-	2	1	1	4	1	-	-	-
Port Terminal RR Assn	17	0.2	16	-	-	1	-	-	-	-	-	-
Southern CA Reg Rail Auth.	59	0.6	5	-	22	-	5	26	1	-	-	-
Southeastern PA Trans.	232	2.5	184	-	39	6	1	1	1	-	-	-
Soo Line	107	1.2	84	5	-	11	3	4	-	-	-	-
Term RR Assn Of St. Louis	6	0.1	5	-	-	1	-	-	-	-	-	-
Union Pacific	1,366	14.9	974	39	-	163	171	14	3	-	-	2
Union RR (Pittsburgh)	30	0.3	30	-	-	-	-	-	-	-	-	-
Wisconsin Central Ltd.	95	1.0	76	1	-	15	3	-	-	-	-	-
Wheeling & Lake Erie	18	0.2	9	-	-	-	9	-	-	-	-	-
Wisconsin & Southern RR	32	0.3	30	-	-	2	-	-	-	-	-	-
Other Railroads	750	8.2	547	1	20	84	25	38	28	5	2	-
Total	9,169	100	6,210	226	705	1,017	622	183	187	5	2	12

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, 2003

	Total	%	Type Person codes									
			A	B	C	D	E	F	G	H	I	J
Alabama	132	1.4	86	2	2	25	14	-	3	-	-	-
Alaska	43	0.5	36	-	5	-	2	-	-	-	-	-
Arizona	112	1.2	78	1	7	5	19	1	1	-	-	-
Arkansas	142	1.5	95	2	-	25	10	8	-	1	-	1
California	694	7.6	440	16	82	21	71	38	26	-	-	-
Colorado	127	1.4	98	6	5	8	3	3	4	-	-	-
Connecticut	128	1.4	106	1	9	8	2	-	2	-	-	-
Delaware	63	0.7	50	4	4	2	3	-	-	-	-	-
Dist Of Columbia	140	1.5	128	3	2	4	2	-	1	-	-	-
Florida	259	2.8	117	9	31	30	34	9	29	-	-	-
Georgia	227	2.5	151	2	29	16	21	6	2	-	-	-
Hawaii	1	0.0	1	-	-	-	-	-	-	-	-	-
Idaho	70	0.8	59	2	-	6	1	1	-	-	-	1
Illinois	840	9.2	464	24	171	75	52	24	29	-	-	1
Indiana	199	2.2	145	3	5	27	16	2	-	-	-	1
Iowa	118	1.3	89	3	1	13	9	1	1	1	-	-
Kansas	142	1.5	88	5	3	29	5	5	6	1	-	-
Kentucky	131	1.4	97	3	1	19	7	3	1	-	-	-
Louisiana	173	1.9	106	1	5	39	15	5	1	-	-	1
Maine	27	0.3	22	-	-	1	4	-	-	-	-	-
Maryland	93	1.0	74	-	8	4	7	-	-	-	-	-
Massachusetts	195	2.1	158	8	14	8	6	-	-	-	-	1
Michigan	186	2.0	130	5	4	23	16	6	2	-	-	-
Minnesota	172	1.9	133	4	2	21	11	1	-	-	-	-
Mississippi	94	1.0	33	1	9	32	14	2	2	-	-	1
Missouri	199	2.2	131	5	9	28	15	3	8	-	-	-
Montana	74	0.8	62	1	2	6	1	-	2	-	-	-
Nebraska	165	1.8	138	8	-	10	6	2	1	-	-	-
Nevada	24	0.3	11	2	4	1	6	-	-	-	-	-
New Hampshire	3	0.0	3	-	-	-	-	-	-	-	-	-
New Jersey	444	4.8	277	7	59	67	17	13	4	-	-	-
New Mexico	55	0.6	35	-	5	5	7	1	2	-	-	-
New York	961	10.5	700	29	59	139	8	7	16	2	-	1
North Carolina	104	1.1	66	2	11	13	8	1	2	-	-	1
North Dakota	61	0.7	48	1	4	3	5	-	-	-	-	-
Ohio	274	3.0	190	9	6	31	27	9	1	-	-	1
Oklahoma	95	1.0	40	6	4	32	6	6	1	-	-	-
Oregon	95	1.0	59	2	12	10	5	2	5	-	-	-
Pennsylvania	489	5.3	387	7	51	22	11	8	2	-	-	1
Rhode Island	29	0.3	21	2	2	4	-	-	-	-	-	-
South Carolina	98	1.1	59	1	10	15	12	1	-	-	-	-
South Dakota	37	0.4	27	1	-	8	1	-	-	-	-	-
Tennessee	155	1.7	104	6	1	14	17	3	10	-	-	-
Texas	555	6.1	344	7	14	94	73	7	15	-	-	1
Utah	37	0.4	23	1	2	7	4	-	-	-	-	-
Vermont	19	0.2	17	-	-	1	1	-	-	-	-	-
Virginia	164	1.8	100	5	27	9	17	3	3	-	-	-
Washington	185	2.0	134	3	15	10	16	1	4	-	2	-
West Virginia	93	1.0	55	5	4	19	9	-	1	-	-	-
Wisconsin	170	1.9	132	1	5	27	5	-	-	-	-	-
Wyoming	76	0.8	63	10	-	1	1	1	-	-	-	-
Total	9,169	100.0	6,210	226	705	1,017	622	183	187	5	2	12

TABLE 3-6 REPORTABLE CONDITIONS, ALL TYPE PERSONS, 2003

Condition	Cnt	%	Type of Person *									
			A	B	C	D	E	F	G	H	I	J
Bruise/contusion	1,492	14.9	854	49	204	234	101	24	21	2	-	3
Occ. Illness	177	1.8	169	2	1	-	-	4	1	-	-	-
Occ. illness,FATAL****	1	0.0	-	1	-	-	-	-	-	-	-	-
Crushing injury	64	0.6	42	1	1	3	8	5	4	-	-	-
Sprain/Str., other	77	0.8	38	-	18	16	5	-	-	-	-	-
Sprain/Str.,arm/hand	367	3.7	321	8	19	8	-	5	5	-	-	1
Sprain/Str.,leg/foot	1,038	10.3	858	35	69	38	3	19	16	-	-	-
Sprain/Str.,head/face	292	2.9	219	13	30	15	11	2	2	-	-	-
Sprain/Str.,torso	1,776	17.7	1,577	45	51	44	7	26	26	-	-	-
Cut/abrasion	1,153	11.5	711	15	83	162	93	42	45	2	-	-
Puncture wound	116	1.2	94	5	2	4	3	6	2	-	-	-
Needle stick	2	0.0	2	-	-	-	-	-	-	-	-	-
Electric shock/burn	39	0.4	28	-	1	-	2	6	2	-	-	-
Other burn	90	0.9	75	1	4	1	-	5	3	1	-	-
Dislocation	88	0.9	59	2	11	12	-	1	3	-	-	-
Fracture,arm/hand	381	3.8	231	9	44	44	26	9	16	-	1	1
Fracture,leg/foot	378	3.8	189	10	63	65	34	7	10	-	-	-
Fracture,head/face	60	0.6	25	-	6	13	10	2	3	-	-	1
Fracture,torso	161	1.6	76	3	23	36	14	3	5	-	-	1
Fracture,multiple	22	0.2	3	-	-	11	8	-	-	-	-	-
Fracture,other	1	0.0	-	-	-	1	-	-	-	-	-	-
Rupture/tear, tendon, e	75	0.7	59	3	8	4	-	1	-	-	-	-
Gunshot/knife wound	2	0.0	-	-	1	1	-	-	-	-	-	-
Animal/snake/insect bit	49	0.5	44	2	2	-	-	-	1	-	-	-
Dental related	37	0.4	25	-	4	7	-	-	1	-	-	-
Amputation,arm/hand	43	0.4	20	1	-	3	13	4	2	-	-	-
Amputation,leg/foot	77	0.8	13	-	-	-	64	-	-	-	-	-
Fatality	865	8.6	19	-	3	204	634	3	2	-	-	-
Object in eye	150	1.5	135	8	1	-	-	2	4	-	-	-
Hernia	75	0.7	71	-	-	-	-	4	-	-	-	-
Concussion	62	0.6	21	3	6	20	7	-	5	-	-	-
Nervous shock	3	0.0	1	-	-	1	-	-	1	-	-	-
Internal injury	81	0.8	15	1	2	27	33	-	1	-	-	2
Skin reaction	27	0.3	24	1	-	-	-	-	2	-	-	-
One-time exp. to noise	9	0.1	8	1	-	-	-	-	-	-	-	-
Unspecified injury	624	6.2	130	7	48	245	179	5	6	-	1	3
One-time exp.-fumes	81	0.8	73	1	3	2	1	1	-	-	-	-
Total	10,035	100.0	6,229	227	708	1,221	1,256	186	189	5	2	12

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
AND TYPE OF PERSON, 2003**

Age		Total		Type of Person *									
		Cnt	%	A	B	C	D	E	F	G	H	I	J
Kld	Unk	64	0.6	-	-	1	8	55	-	-	-	-	-
	1-5	7	0.1	-	-	-	3	4	-	-	-	-	-
	6-10	5	0.0	-	-	-	2	3	-	-	-	-	-
	11-15	24	0.2	-	-	-	6	18	-	-	-	-	-
	16-20	83	0.8	-	-	-	23	60	-	-	-	-	-
	21-25	83	0.8	-	-	-	16	67	-	-	-	-	-
	26-30	64	0.6	1	-	-	11	51	-	1	-	-	-
	31-35	86	0.9	3	-	-	17	65	-	1	-	-	-
	36-40	83	0.8	4	-	-	12	66	1	-	-	-	-
	41-45	94	0.9	3	-	-	19	71	1	-	-	-	-
	46-50	84	0.8	2	1	-	17	64	-	-	-	-	-
	51-55	44	0.4	3	-	-	12	29	-	-	-	-	-
	56-60	44	0.4	3	-	-	18	23	-	-	-	-	-
	> 60	101	1.0	-	-	2	40	58	1	-	-	-	-
	Total	866	8.6	19	1	3	204	634	3	2	-	-	-
Nonfatal	Unk	334	3.3	-	-	124	112	58	23	15	-	-	2
	1-5	31	0.3	-	-	8	16	6	-	1	-	-	-
	6-10	42	0.4	-	-	8	25	9	-	-	-	-	-
	11-15	54	0.5	-	-	5	19	29	-	-	-	-	1
	16-20	215	2.1	31	-	9	92	66	9	8	-	-	-
	21-25	564	5.6	296	10	13	114	84	18	29	-	-	-
	26-30	737	7.3	518	14	31	76	54	22	20	-	-	2
	31-35	1,031	10.3	800	20	30	74	57	28	21	-	-	1
	36-40	992	9.9	728	33	33	82	66	24	23	-	-	3
	41-45	1,095	10.9	822	24	52	84	72	20	19	1	-	1
	46-50	1,387	13.8	1,146	43	50	58	46	18	24	-	1	1
	51-55	1,296	12.9	1,061	48	73	64	25	13	10	2	-	-
	56-60	807	8.0	624	26	77	46	18	5	11	-	-	-
	> 60	584	5.8	184	8	192	155	32	3	6	2	1	1
	Total	9,169	91.4	6,210	226	705	1,017	622	183	187	5	2	12
Total		10,035	100.0	6,229	227	708	1,221	1,256	186	189	5	2	12

*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, 2003

Month	Total	Type of Person *									
	Cnt	A	B	C	D	E	F	G	H	I	J
Kld	January	67	1	-	1	10	55	-	-	-	-
	February	63	4	-	1	18	39	1	-	-	-
	March	60	-	-	1	15	44	-	-	-	-
	April	70	1	1	-	19	47	2	-	-	-
	May	75	1	-	-	14	59	-	1	-	-
	June	73	3	-	-	14	56	-	-	-	-
	July	69	-	-	-	16	53	-	-	-	-
	August	79	1	-	-	24	53	-	1	-	-
	September	84	3	-	-	14	67	-	-	-	-
	October	92	3	-	-	22	67	-	-	-	-
	November	69	-	-	-	18	51	-	-	-	-
	December	65	2	-	-	20	43	-	-	-	-
	Total	866	19	1	3	204	634	3	2	-	-
Nonfatal	January	748	510	18	66	75	47	15	16	-	1
	February	770	516	25	48	103	53	14	9	1	1
	March	708	480	26	47	80	44	13	18	-	-
	April	690	465	18	51	74	54	15	13	-	-
	May	790	534	27	64	84	42	21	17	-	1
	June	746	540	12	52	53	59	12	16	1	1
	July	842	539	20	66	99	68	18	29	1	2
	August	850	573	17	71	95	57	18	15	2	2
	September	784	526	11	62	106	50	13	14	-	2
	October	830	549	18	90	81	54	23	13	-	2
	November	681	469	13	42	80	51	8	18	-	-
	December	730	509	21	46	87	43	13	9	-	1
	Total	9,169	6,210	226	705	1,017	622	183	187	5	12
Total		10,035	6,229	227	708	1,221	1,256	186	189	5	12

*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, 2003**

Time	Total		Type of Person *									
	Cnt	%	A	B	C	D	E	F	G	H	I	J
AM 1	256	2.6	177	1	5	14	56	3	-	-	-	-
2	277	2.8	184	5	6	16	57	4	5	-	-	-
3	227	2.3	164	1	5	18	27	7	5	-	-	-
4	190	1.9	139	4	6	7	28	1	5	-	-	-
5	231	2.3	144	13	12	17	35	4	5	-	-	1
6	263	2.6	145	26	15	35	36	2	4	-	-	-
7	488	4.9	264	16	81	67	41	8	10	-	-	1
8	662	6.6	405	8	57	106	51	20	13	1	-	1
9	651	6.5	445	12	61	62	40	17	13	1	-	-
10	791	7.9	618	13	30	43	53	18	16	-	-	-
11	635	6.3	454	7	20	68	55	16	14	1	-	-
12	312	3.1	182	11	20	27	65	4	3	-	-	-
Total	4,983	49.7	3,321	117	318	480	544	104	93	3	-	3
PM 1	561	5.6	386	8	18	61	54	22	11	-	1	-
2	559	5.6	361	13	16	75	56	20	16	-	1	1
3	456	4.5	265	13	28	85	40	14	9	1	-	1
4	530	5.3	281	9	86	74	69	2	8	-	-	1
5	445	4.4	243	6	41	84	63	2	5	-	-	1
6	398	4.0	208	4	44	69	62	2	8	-	-	1
7	366	3.6	191	4	25	64	77	1	4	-	-	-
8	315	3.1	176	13	23	27	69	1	5	-	-	1
9	293	2.9	187	7	11	28	52	2	6	-	-	-
10	307	3.1	164	11	13	41	71	3	3	-	-	1
11	251	2.5	150	13	7	26	50	-	5	-	-	-
12	571	5.7	296	9	78	107	49	13	16	1	-	2
Total	5,052	50.3	2,908	110	390	741	712	82	96	2	2	9
Total	10,035	100	6,229	227	708	1,221	1,256	186	189	5	2	12

*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, 2003

Condition	Total		Days Absent			Absent Cases 1/		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Avg.	Cnt	%	Trans. 2/	Cnt	%	Avg.	Exp. 3/
Bruise/contusion	854	13.7	44,552	13.6	52	626	14.3	2	4,238	11.2	5	-
Occ. Illness	169	2.7	5,492	1.7	32	68	1.6	-	997	2.6	6	3
Crushing injury	42	0.7	1,603	0.5	38	28	0.6	-	498	1.3	12	-
Sprain/Str., other	38	0.6	2,974	0.9	78	33	0.8	-	284	0.8	7	-
Sprain/Str.,arm/hand	321	5.2	15,238	4.6	47	228	5.2	-	3,184	8.4	10	-
Sprain/Str.,leg/foot	858	13.8	50,317	15.3	59	715	16.3	1	5,621	14.9	7	-
Sprain/Str.,head/face	219	3.5	14,394	4.4	66	163	3.7	1	1,533	4.1	7	-
Sprain/Str.,torso	1,577	25.3	107,675	32.8	68	1,278	29.2	4	10,983	29.1	7	-
Cut/abrasion	711	11.4	11,591	3.5	16	292	6.7	1	2,089	5.5	3	1
Puncture wound	94	1.5	1,229	0.4	13	37	0.8	1	80	0.2	1	-
Needle stick	2	0.0	0	0.0	0	-	-	-	0	0.0	0	-
Electric shock/burn	28	0.4	1,072	0.3	38	22	0.5	-	31	0.1	1	-
Other burn	75	1.2	905	0.3	12	29	0.7	-	78	0.2	1	1
Dislocation	59	0.9	4,910	1.5	83	45	1.0	1	546	1.4	9	-
Fracture,arm/hand	231	3.7	10,757	3.3	47	152	3.5	2	3,340	8.9	14	-
Fracture,leg/foot	189	3.0	18,340	5.6	97	176	4.0	2	1,671	4.4	9	-
Fracture,head/face	25	0.4	1,537	0.5	61	18	0.4	-	15	0.0	1	-
Fracture,torso	76	1.2	7,820	2.4	103	69	1.6	1	805	2.1	11	-
Fracture,multiple	3	0.0	401	0.1	134	2	0.0	-	0	0.0	0	-
Rupture/tear, tendon, etc	59	0.9	5,999	1.8	102	53	1.2	1	706	1.9	12	-
Animal/snake/insect bite	44	0.7	47	0.0	1	15	0.3	-	12	0.0	0	-
Dental related	25	0.4	165	0.1	7	10	0.2	-	0	0.0	0	-
Amputation,arm/hand	20	0.3	1,955	0.6	98	18	0.4	-	113	0.3	6	-
Amputation,leg/foot	13	0.2	2,896	0.9	223	13	0.3	-	0	0.0	0	-
Fatality	19	0.3	0	0.0	0	-	-	-	0	0.0	0	-
Object in eye	135	2.2	339	0.1	3	50	1.1	-	38	0.1	0	1
Hernia	71	1.1	3,772	1.2	53	63	1.4	1	324	0.9	5	-
Concussion	21	0.3	1,774	0.5	84	18	0.4	-	0	0.0	0	-
Nervous shock	1	0.0	365	0.1	365	1	0.0	-	0	0.0	0	-
Internal injury	15	0.2	1,555	0.5	104	13	0.3	-	0	0.0	0	-
Skin reaction	24	0.4	138	0.0	6	9	0.2	-	0	0.0	0	9
One-time exp. to noise	8	0.1	98	0.0	12	4	0.1	-	0	0.0	0	-
Unspecified injury	130	2.1	5,601	1.7	43	82	1.9	-	448	1.2	3	1
One-time exp.-fumes	73	1.2	2,397	0.7	33	46	1.1	-	66	0.2	1	11
Total	6,229	100	327,908	100	53	4,376	100	18	37,700	100	6	27

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, 2003

RR	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Trans.	Cnt	%	Avg.	Exp.
ALS	11	0.2	-	0.0	11	0.2	421	0.1	38	10	0.2	-	0	0.0	0	1
ARR	26	0.4	-	0.0	26	0.4	279	0.1	11	13	0.3	-	167	0.4	6	-
ATK	793	12.7	1	5.3	792	12.8	40,777	12.4	51	543	12.4	-	4,065	10.8	5	-
BNSF	731	11.7	4	21.1	727	11.7	33,073	10.1	45	458	10.5	-	12,911	34.2	18	3
BRC	14	0.2	-	0.0	14	0.2	514	0.2	37	9	0.2	-	134	0.4	10	-
CRSH	33	0.5	-	0.0	33	0.5	2,473	0.8	75	25	0.6	-	5	0.0	0	1
CSX	730	11.7	4	21.1	726	11.7	54,957	16.8	75	607	13.9	5	236	0.6	0	1
DH	38	0.6	-	0.0	38	0.6	464	0.1	12	28	0.6	-	54	0.1	1	-
DME	16	0.3	-	0.0	16	0.3	184	0.1	12	8	0.2	-	68	0.2	4	-
DMIR	22	0.4	-	0.0	22	0.4	687	0.2	31	11	0.3	-	10	0.0	0	-
DWP	15	0.2	-	0.0	15	0.2	251	0.1	17	8	0.2	-	101	0.3	7	-
EJE	20	0.3	-	0.0	20	0.3	345	0.1	17	4	0.1	-	119	0.3	6	-
FEC	14	0.2	-	0.0	14	0.2	935	0.3	67	13	0.3	-	204	0.5	15	-
GCRX	19	0.3	-	0.0	19	0.3	109	0.0	6	12	0.3	-	345	0.9	18	-
GRS	18	0.3	-	0.0	18	0.3	493	0.2	27	14	0.3	-	0	0.0	0	-
GTW	65	1.0	1	5.3	64	1.0	3,029	0.9	47	47	1.1	-	4	0.0	0	-
IC	121	1.9	1	5.3	120	1.9	4,326	1.3	36	71	1.6	-	129	0.3	1	-
ICE	29	0.5	-	0.0	29	0.5	1,710	0.5	59	23	0.5	-	107	0.3	4	1
IHB	31	0.5	-	0.0	31	0.5	3,335	1.0	108	23	0.5	-	7	0.0	0	-
KCS	83	1.3	-	0.0	83	1.3	1,934	0.6	23	25	0.6	2	2,851	7.6	34	-
LI	241	3.9	1	5.3	240	3.9	4,144	1.3	17	234	5.3	-	3,118	8.3	13	-
MACZ	3	0.0	-	0.0	3	0.0	5	0.0	2	2	0.0	-	3	0.0	1	-
MBTA	94	1.5	1	5.3	93	1.5	3,178	1.0	34	73	1.7	-	166	0.4	2	-
MMA	10	0.2	-	0.0	10	0.2	464	0.1	46	8	0.2	-	151	0.4	15	-
MNCW	305	4.9	-	0.0	305	4.9	13,573	4.1	45	187	4.3	3	3,689	9.8	12	-
MRL	30	0.5	-	0.0	30	0.5	1,325	0.4	44	23	0.5	1	382	1.0	13	-
NICD	24	0.4	-	0.0	24	0.4	195	0.1	8	8	0.2	-	245	0.6	10	-
NIRC	64	1.0	-	0.0	64	1.0	2,272	0.7	36	46	1.1	-	248	0.7	4	-
NJTR	150	2.4	-	0.0	150	2.4	4,803	1.5	32	128	2.9	-	0	0.0	0	-
NS	410	6.6	1	5.3	409	6.6	47,113	14.4	115	310	7.1	-	259	0.7	1	5
PAL	6	0.1	-	0.0	6	0.1	308	0.1	51	5	0.1	-	4	0.0	1	-
PATH	78	1.3	-	0.0	78	1.3	1,993	0.6	26	76	1.7	-	102	0.3	1	-
PCMZ	20	0.3	-	0.0	20	0.3	887	0.3	44	11	0.3	-	318	0.8	16	-
PTRA	16	0.3	-	0.0	16	0.3	165	0.1	10	13	0.3	-	20	0.1	1	-
SCAX	5	0.1	-	0.0	5	0.1	28	0.0	6	2	0.0	-	18	0.0	4	-
SEPA	184	3.0	-	0.0	184	3.0	4,965	1.5	27	133	3.0	-	217	0.6	1	2
SOO	84	1.3	-	0.0	84	1.4	3,229	1.0	38	65	1.5	-	251	0.7	3	-
TRRA	5	0.1	-	0.0	5	0.1	527	0.2	105	4	0.1	-	2	0.0	0	-
UP	977	15.7	3	15.8	974	15.7	77,850	23.7	80	714	16.3	2	3,215	8.5	3	6
URR	30	0.5	-	0.0	30	0.5	1,823	0.6	61	21	0.5	-	379	1.0	13	-
WC	76	1.2	-	0.0	76	1.2	1,859	0.6	24	53	1.2	-	243	0.6	3	-
WE	9	0.1	-	0.0	9	0.1	74	0.0	8	3	0.1	1	86	0.2	10	-
WSOR	30	0.5	-	0.0	30	0.5	464	0.1	15	17	0.4	-	248	0.7	8	-
XXXX	549	8.8	2	10.5	547	8.8	6,368	1.9	12	288	6.6	4	2,819	7.5	5	7
Tot.	6,229	100	19	100	6,210	100	327,908	100	53	4,376	100	18	37,700	100	6	27

XXXX = All other railroads

TABLE 4-3 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY STATE, 2003

	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Cnt	Cnt	%	Avg.	Cnt
AL	86	1.4	-	0.0	86	1.4	6,932	2.1	81	68	1.6	-	237	0.6	3	3
AK	36	0.6	-	0.0	36	0.6	349	0.1	10	21	0.5	-	167	0.4	5	-
AZ	78	1.3	-	0.0	78	1.3	4,977	1.5	64	57	1.3	-	903	2.4	12	1
AR	95	1.5	-	0.0	95	1.5	6,350	1.9	67	55	1.3	-	448	1.2	5	-
CA	442	7.1	2	10.5	440	7.1	31,502	9.6	71	318	7.3	2	3,311	8.8	7	1
CO	98	1.6	-	0.0	98	1.6	3,699	1.1	38	55	1.3	-	1,512	4.0	15	2
CT	106	1.7	-	0.0	106	1.7	4,862	1.5	46	65	1.5	-	959	2.5	9	-
DE	50	0.8	-	0.0	50	0.8	2,349	0.7	47	24	0.5	-	271	0.7	5	-
DC	128	2.1	-	0.0	128	2.1	3,154	1.0	25	55	1.3	-	225	0.6	2	-
FL	117	1.9	-	0.0	117	1.9	6,834	2.1	58	96	2.2	-	544	1.4	5	-
GA	154	2.5	3	15.8	151	2.4	15,198	4.6	99	119	2.7	1	105	0.3	1	-
HI	1	0.0	-	0.0	1	0.0	0	0.0	0	-	-	-	0	0.0	0	-
ID	60	1.0	1	5.3	59	1.0	2,445	0.7	41	34	0.8	-	85	0.2	1	-
IL	464	7.4	-	0.0	464	7.5	27,103	8.3	58	322	7.4	-	2,204	5.8	5	2
IN	145	2.3	-	0.0	145	2.3	7,116	2.2	49	83	1.9	-	413	1.1	3	1
IA	90	1.4	1	5.3	89	1.4	3,458	1.1	38	51	1.2	-	522	1.4	6	1
KS	88	1.4	-	0.0	88	1.4	4,358	1.3	50	53	1.2	-	956	2.5	11	-
KY	97	1.6	-	0.0	97	1.6	8,450	2.6	87	81	1.9	2	62	0.2	1	-
LA	106	1.7	-	0.0	106	1.7	5,243	1.6	49	61	1.4	2	1,347	3.6	13	2
ME	22	0.4	-	0.0	22	0.4	648	0.2	29	17	0.4	-	151	0.4	7	-
MD	74	1.2	-	0.0	74	1.2	4,773	1.5	65	59	1.3	1	638	1.7	9	-
MA	159	2.6	1	5.3	158	2.5	6,272	1.9	39	124	2.8	-	178	0.5	1	-
MI	131	2.1	1	5.3	130	2.1	6,095	1.9	47	92	2.1	-	143	0.4	1	1
MN	133	2.1	-	0.0	133	2.1	4,032	1.2	30	81	1.9	-	817	2.2	6	-
MS	34	0.5	1	5.3	33	0.5	1,136	0.3	33	20	0.5	-	569	1.5	17	-
MO	131	2.1	-	0.0	131	2.1	5,370	1.6	41	77	1.8	1	2,185	5.8	17	-
MT	62	1.0	-	0.0	62	1.0	2,409	0.7	39	44	1.0	1	835	2.2	13	-
NE	139	2.2	1	5.3	138	2.2	8,877	2.7	64	99	2.3	-	1,530	4.1	11	1
NV	11	0.2	-	0.0	11	0.2	479	0.1	44	8	0.2	-	13	0.0	1	-
NH	3	0.0	-	0.0	3	0.0	0	0.0	0	-	-	-	0	0.0	0	-
NJ	277	4.4	-	0.0	277	4.5	10,681	3.3	39	241	5.5	-	314	0.8	1	-
NM	35	0.6	-	0.0	35	0.6	1,063	0.3	30	18	0.4	-	554	1.5	16	-
NY	703	11.3	3	15.8	700	11.3	24,574	7.5	35	554	12.7	4	6,503	17.2	9	-
NC	66	1.1	-	0.0	66	1.1	6,792	2.1	103	55	1.3	-	560	1.5	8	-
ND	48	0.8	-	0.0	48	0.8	1,672	0.5	35	31	0.7	-	405	1.1	8	-
OH	191	3.1	1	5.3	190	3.1	17,088	5.2	89	146	3.3	1	178	0.5	1	3
OK	40	0.6	-	0.0	40	0.6	1,975	0.6	49	27	0.6	-	546	1.4	14	-
OR	59	0.9	-	0.0	59	1.0	3,882	1.2	66	43	1.0	-	298	0.8	5	1
PA	387	6.2	-	0.0	387	6.2	15,849	4.8	41	262	6.0	-	1,112	2.9	3	2
RI	21	0.3	-	0.0	21	0.3	891	0.3	42	18	0.4	-	15	0.0	1	-
SC	60	1.0	1	5.3	59	1.0	4,320	1.3	72	47	1.1	-	116	0.3	2	1
SD	27	0.4	-	0.0	27	0.4	443	0.1	16	13	0.3	-	264	0.7	10	-
TN	105	1.7	1	5.3	104	1.7	5,491	1.7	52	77	1.8	-	313	0.8	3	2
TX	345	5.5	1	5.3	344	5.5	21,904	6.7	63	251	5.7	2	1,977	5.2	6	2
UT	24	0.4	1	5.3	23	0.4	1,427	0.4	59	15	0.3	-	36	0.1	2	1
VT	17	0.3	-	0.0	17	0.3	375	0.1	22	11	0.3	-	147	0.4	9	-
VA	100	1.6	-	0.0	100	1.6	7,626	2.3	76	76	1.7	-	127	0.3	1	-
WA	134	2.2	-	0.0	134	2.2	4,655	1.4	35	82	1.9	1	1,793	4.8	13	-
WV	55	0.9	-	0.0	55	0.9	3,739	1.1	68	40	0.9	-	0	0.0	0	-
WI	132	2.1	-	0.0	132	2.1	3,317	1.0	25	82	1.9	-	588	1.6	4	-
WY	63	1.0	-	0.0	63	1.0	5,674	1.7	90	48	1.1	-	524	1.4	8	-
Tot.	6,229	100	19	100	6,210	100	327,908	100	534	4,376	100	18	37,700	100	6	27

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2003

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Adjusting coupler	27	0.4	1,153	0.4	23	0.5	-	86	0.2	-
Adjusting drawbar	38	0.6	2,852	0.9	30	0.7	-	92	0.2	-
Adjusting, other	43	0.7	1,692	0.5	30	0.7	-	372	1.0	-
Applying rail anchor/fastener	18	0.3	916	0.3	7	0.2	-	188	0.5	-
Bending, stooping	100	1.6	3,637	1.1	63	1.4	-	486	1.3	-
Carrying	57	0.9	2,468	0.8	44	1.0	-	130	0.3	-
Chaining, cabling car or locomotive	4	0.1	196	0.1	3	0.1	-	26	0.1	-
Cleaning	65	1.0	2,505	0.8	38	0.9	-	174	0.5	-
Climbing over/on	91	1.5	4,835	1.5	75	1.7	1	1,528	4.1	-
Closing	93	1.5	3,648	1.1	65	1.5	-	337	0.9	-
Coupling electric cables	6	0.1	346	0.1	3	0.1	-	8	0.0	-
Coupling air hose	42	0.7	3,497	1.1	32	0.7	-	98	0.3	1
Crossing over	21	0.3	1,839	0.6	16	0.4	1	95	0.3	-
Crossing or crawling under	1	0.0	60	0.0	1	0.0	-	0	0.0	-
Crossing between	5	0.1	364	0.1	4	0.1	-	0	0.0	-
Cutting rail	7	0.1	118	0.0	5	0.1	-	147	0.4	-
Cutting vegetation	21	0.3	296	0.1	12	0.3	-	211	0.6	-
Cutting, other	64	1.0	935	0.3	22	0.5	-	175	0.5	-
Digging, excavating	18	0.3	457	0.1	12	0.3	-	138	0.4	-
Driving (motor vehicle, forklift, etc.)	131	2.1	5,403	1.6	82	1.9	-	585	1.6	-
Flagging	9	0.1	275	0.1	7	0.2	-	20	0.1	-
Fueling	6	0.1	274	0.1	5	0.1	-	169	0.4	-
Getting on	77	1.2	4,150	1.3	64	1.5	-	511	1.4	-
Getting off	237	3.8	16,659	5.1	197	4.5	1	1,638	4.3	-
Grinding	35	0.6	781	0.2	14	0.3	-	10	0.0	-
Handling baggage	32	0.5	1,713	0.5	26	0.6	1	297	0.8	-
Handling car parts	16	0.3	631	0.2	9	0.2	-	75	0.2	-
Handling material, general	41	0.7	944	0.3	19	0.4	-	79	0.2	1
Handling locomotive parts	17	0.3	498	0.2	10	0.2	-	272	0.7	-
Handling wheels/trucks	4	0.1	251	0.1	2	0.0	-	10	0.0	-
Handling, other	83	1.3	2,949	0.9	47	1.1	-	280	0.7	-
Handling other track material/supplies	23	0.4	827	0.3	11	0.3	-	49	0.1	-
Handling poles	5	0.1	141	0.0	4	0.1	-	172	0.5	-
Handling tie plates	10	0.2	515	0.2	6	0.1	-	17	0.0	-
Handling ties	23	0.4	625	0.2	14	0.3	1	382	1.0	-
Handling rail	33	0.5	1,284	0.4	19	0.4	-	293	0.8	-
Inspecting	56	0.9	1,443	0.4	27	0.6	-	59	0.2	3
Installing	78	1.3	2,530	0.8	40	0.9	-	327	0.9	-
Jumping from	29	0.5	2,252	0.7	19	0.4	-	141	0.4	-
Jumping onto	5	0.1	52	0.0	4	0.1	-	84	0.2	-
Laying	10	0.2	55	0.0	3	0.1	-	14	0.0	-
Lifting other material	138	2.2	5,964	1.8	105	2.4	-	850	2.3	-
Lifting equipment (tools, parts, etc.)	136	2.2	6,814	2.1	96	2.2	-	1,272	3.4	-
Lining switches	166	2.7	9,980	3.0	128	2.9	2	1,223	3.2	-
Lining, other	9	0.1	423	0.1	6	0.1	-	108	0.3	-
Loading/unloading	80	1.3	4,023	1.2	50	1.1	-	483	1.3	-
Maintaining	37	0.6	1,478	0.5	20	0.5	-	150	0.4	-

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2003

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Opening	125	2.0	6,521	2.0	100	2.3	-	692	1.8	-
Opening/closing angle cock	17	0.3	1,001	0.3	9	0.2	-	78	0.2	-
Operating	225	3.6	16,190	4.9	170	3.9	1	1,254	3.3	5
Pulling pin lifter/operating uncou	78	1.3	5,567	1.7	57	1.3	-	444	1.2	2
Pulling	152	2.4	7,541	2.3	103	2.4	-	1,281	3.4	-
Pushing	67	1.1	3,055	0.9	44	1.0	-	741	2.0	-
Reaching	66	1.1	1,858	0.6	37	0.8	-	461	1.2	-
Removing rail anchors/fasteners	17	0.3	638	0.2	10	0.2	-	132	0.4	-
Repairing	145	2.3	4,367	1.3	70	1.6	-	510	1.4	1
Riding	343	5.5	25,794	7.9	265	6.1	-	2,658	7.1	1
Running	18	0.3	918	0.3	10	0.2	-	180	0.5	-
Sitting	201	3.2	12,959	4.0	150	3.4	-	1,387	3.7	4
Spiking (installation/removal)	57	0.9	1,202	0.4	30	0.7	1	217	0.6	-
Standing	379	6.1	16,818	5.1	231	5.3	3	1,187	3.1	1
Stepping up	72	1.2	4,180	1.3	55	1.3	-	210	0.6	-
Stepping down	243	3.9	14,237	4.3	201	4.6	-	1,292	3.4	-
Stepping over	41	0.7	2,232	0.7	31	0.7	-	238	0.6	-
Uncoupling air hose	13	0.2	55	0.0	5	0.1	-	41	0.1	-
Uncoupling steam hose	2	0.0	0	0.0	-	-	-	94	0.2	-
Uncoupling electric cables	6	0.1	14	0.0	2	0.0	-	0	0.0	-
Using hand tool	164	2.6	4,391	1.3	90	2.1	1	1,330	3.5	-
Using, other	16	0.3	761	0.2	9	0.2	-	17	0.0	-
Walking	1,025	16.5	66,690	20.3	823	18.8	4	6,046	16.0	5
Welding (includes field welding)	41	0.7	657	0.2	15	0.3	-	23	0.1	-
Handbrakes, applying	110	1.8	8,063	2.5	90	2.1	-	954	2.5	-
Handbrakes, releasing	73	1.2	5,003	1.5	59	1.3	1	184	0.5	-
Handbrakes, other	8	0.1	869	0.3	7	0.2	-	57	0.2	-
Derail, applying	3	0.0	130	0.0	2	0.0	-	44	0.1	-
Derail, removing	4	0.1	514	0.2	4	0.1	-	0	0.0	-
Derail, other	1	0.0	180	0.1	1	0.0	-	0	0.0	-
Other (Narrative must be provided)	108	1.7	2,160	0.7	63	1.4	-	688	1.8	3
Replacing	19	0.3	825	0.3	12	0.3	-	159	0.4	-
Ascending	4	0.1	137	0.0	3	0.1	-	0	0.0	-
Descending	46	0.7	3,811	1.2	35	0.8	-	402	1.1	-
Getting in	10	0.2	111	0.0	5	0.1	-	8	0.0	-
Getting out	13	0.2	670	0.2	11	0.3	-	8	0.0	-
Hauling	1	0.0	11	0.0	1	0.0	-	0	0.0	-
Moving	12	0.2	649	0.2	7	0.2	-	252	0.7	-
Washing	6	0.1	248	0.1	5	0.1	-	20	0.1	-
Servicing	11	0.2	644	0.2	8	0.2	-	21	0.1	-
Sanding	8	0.1	229	0.1	6	0.1	-	171	0.5	-
Arresting/apprehending/subduing	8	0.1	335	0.1	5	0.1	-	33	0.1	-
Sleeping	1	0.0	180	0.1	1	0.0	-	0	0.0	-
Stepped on	23	0.4	745	0.2	15	0.3	-	325	0.9	-
Total	6,229	100	327,908	100	4,376	100	18	37,700	100	27

TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2003

Event	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Aggravated pre-existing condition	70	1.1	4,446	1.4	57	1.3	-	848	2.2	-
Apprehending/removing from property	5	0.1	278	0.1	4	0.1	-	107	0.3	-
Assaulted by other	34	0.5	1,386	0.4	25	0.6	-	128	0.3	-
Assaulted by coworker	13	0.2	900	0.3	7	0.2	-	17	0.0	-
Bitten/stung by bee, spider, other insect	75	1.2	67	0.0	19	0.4	-	6	0.0	-
Bitten by animal	8	0.1	43	0.0	5	0.1	-	7	0.0	-
Bodily function/sudden movement, e.g.,sneez	132	2.1	5,364	1.6	100	2.3	-	1,285	3.4	-
Caught in/compressed by hand tools	28	0.4	264	0.1	5	0.1	-	242	0.6	-
Caught in/compressed by other machinery	39	0.6	1,497	0.5	24	0.5	-	425	1.1	-
Caught in/crushed by materials	56	0.9	1,508	0.5	27	0.6	-	394	1.0	-
Caught in/compressed by powered hand tools	17	0.3	164	0.1	5	0.1	-	168	0.4	-
Cave in, slide, etc.	5	0.1	841	0.3	5	0.1	-	4	0.0	-
Climatic conditions, other (e.g., high wind	29	0.5	319	0.1	12	0.3	-	33	0.1	-
Climatic condition, exposure to environment	17	0.3	202	0.1	6	0.1	-	37	0.1	-
Collision - between on track equipment	133	2.1	11,635	3.5	109	2.5	3	538	1.4	-
Collision/impact - auto, truck, bus, van, e	183	2.9	10,446	3.2	128	2.9	-	2,252	6.0	-
Defective/malfunctioning equipment	99	1.6	7,027	2.1	78	1.8	-	647	1.7	-
Derailment	64	1.0	7,844	2.4	57	1.3	-	51	0.1	1
Electrical shock due to contact with 3rd ra	3	0.0	15	0.0	2	0.0	-	13	0.0	-
Electrical shock, other (explain in narrati	13	0.2	289	0.1	12	0.3	-	13	0.0	-
Electrical shock from hand tool	4	0.1	256	0.1	2	0.0	-	11	0.0	-
Exposure to fumes - inhalation	91	1.5	3,626	1.1	59	1.3	-	2	0.0	14
Exposure to chemicals - external	32	0.5	281	0.1	16	0.4	-	0	0.0	7
Exposure to poisonous plants	8	0.1	27	0.0	6	0.1	-	1	0.0	-
Exposure to noise over time	61	1.0	0	0.0	-	-	-	0	0.0	-
Exposure to noise - single incident	4	0.1	96	0.0	3	0.1	-	0	0.0	-
Exposure to welding light	7	0.1	5	0.0	2	0.0	-	1	0.0	-
Highway-rail collision/impact	77	1.2	6,201	1.9	62	1.4	-	711	1.9	-
Horseplay, practical joke, etc.	1	0.0	80	0.0	1	0.0	-	0	0.0	-
Lost balance	180	2.9	12,040	3.7	145	3.3	-	819	2.2	-
Missed handhold, grabiron, step, etc.	50	0.8	2,888	0.9	39	0.9	-	508	1.3	-
Needle puncture/prick/stick	9	0.1	85	0.0	4	0.1	-	3	0.0	-
Other impacts - on track equipment	24	0.4	1,844	0.6	22	0.5	-	508	1.3	-
Overexertion	1,017	16.3	64,006	19.5	810	18.5	1	6,655	17.7	-
Pushed/shoved into/against	28	0.4	1,138	0.3	22	0.5	-	191	0.5	-
Pushed/shoved onto	2	0.0	197	0.1	2	0.0	-	0	0.0	-
Pushed/shoved from	6	0.1	259	0.1	5	0.1	-	10	0.0	-
Ran into on-track equipment	8	0.1	757	0.2	6	0.1	-	0	0.0	-
Ran into object/equipment	21	0.3	1,115	0.3	17	0.4	-	22	0.1	-
Repetitive motion - work processes	46	0.7	3,005	0.9	34	0.8	1	597	1.6	-
Repetitive motion - typing, keyboard, etc.	4	0.1	180	0.1	1	0.0	-	1	0.0	-
Repetitive motion - tools	23	0.4	857	0.3	15	0.3	-	202	0.5	-
Repetitive motion - other (describe in narr	7	0.1	83	0.0	4	0.1	-	79	0.2	-
Rubbed, abraded, etc.	15	0.2	0	0.0	-	-	-	42	0.1	-
Shot	4	0.1	236	0.1	4	0.1	-	6	0.0	-
Slack action, draft, compressive buff/coupl	37	0.6	2,786	0.8	29	0.7	-	426	1.1	-

TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2003

Event	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Restricted	%	Exp.
Slipped,fell,stumbled,etc. due to irregular	229	3.7	15,229	4.6	180	4.1	3	1,507	4.0	-
Slipped, fell, stumbled, etc. due to climat	298	4.8	18,132	5.5	242	5.5	-	2,883	7.6	-
Slipped,fell,stumbled,etc. on oil, grease,e	99	1.6	6,755	2.1	85	1.9	-	305	0.8	-
Slipped,fell,stumbled,etc. due to object,ba	346	5.6	24,745	7.5	281	6.4	-	2,152	5.7	-
Stabbing, knifing, etc.	7	0.1	52	0.0	2	0.0	-	0	0.0	-
Stepped on object	97	1.6	4,679	1.4	71	1.6	-	510	1.4	-
Struck by thrown or propelled object	101	1.6	2,416	0.7	47	1.1	1	334	0.9	-
Struck by object	336	5.4	10,221	3.1	183	4.2	1	543	1.4	-
Struck by on-track equipment	56	0.9	5,136	1.6	43	1.0	1	347	0.9	-
Struck by falling object	127	2.0	4,621	1.4	85	1.9	1	610	1.6	-
Struck against object	269	4.3	8,476	2.6	154	3.5	-	1,062	2.8	3
Sudden release of air	19	0.3	257	0.1	8	0.2	-	81	0.2	1
Sudden/unexpected movement of material	72	1.2	3,183	1.0	45	1.0	1	1,028	2.7	-
Sudden/unexpected movement of on-track equ	108	1.7	8,337	2.5	87	2.0	1	505	1.3	-
Sudden/unexpected movement of vehicle	43	0.7	2,554	0.8	33	0.8	-	123	0.3	-
Caught, crushed, pinched, other	229	3.7	6,124	1.9	137	3.1	-	1,705	4.5	-
On track equipment, other incidents	19	0.3	1,004	0.3	13	0.3	-	223	0.6	-
Slipped, fell, stumbled, other	439	7.0	32,276	9.8	361	8.2	3	2,500	6.6	-
Sudden, unexpected movement, other	143	2.3	8,025	2.4	103	2.4	-	1,150	3.1	-
Bumped	16	0.3	304	0.1	10	0.2	-	87	0.2	-
Burned	22	0.4	74	0.0	8	0.2	-	47	0.1	-
Blowing/falling debris	35	0.6	203	0.1	11	0.3	-	4	0.0	-
Sudden/Unexpected Movement of tools	35	0.6	983	0.3	18	0.4	-	310	0.8	1
Struck by Own Remote Control Locomotive	2	0.0	180	0.1	1	0.0	-	0	0.0	-
Struck by Other Remote Control Locomotive	1	0.0	57	0.0	1	0.0	-	0	0.0	-
Caught Between Machinery	4	0.1	201	0.1	4	0.1	-	21	0.1	-
Slack adjustment during switching operation	7	0.1	743	0.2	5	0.1	-	10	0.0	-
Caught Between Equipment	7	0.1	142	0.0	4	0.1	-	334	0.9	-
Caught Between Material	5	0.1	365	0.1	3	0.1	-	38	0.1	-
Other (describe in narrative)	269	4.3	5,851	1.8	154	3.5	1	1,271	3.4	-
Total	6,229	100	327,908	100	4,376	100	18	37,700	100	27

TABLE 4-6 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY LOCATION, 2003

Location	Total		Days Absent		Absent Cases		Term./ Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Main/branch	1,839	29.5	102,878	31.4	1,317	30.1	7	10,059	26.7	8
Yard	2,061	33.1	121,932	37.2	1,522	34.8	9	11,267	29.9	12
Siding	208	3.3	10,928	3.3	147	3.4	-	1,758	4.7	1
Industry	260	4.2	14,067	4.3	182	4.2	-	2,013	5.3	1
Repair	171	2.7	7,395	2.3	111	2.5	-	1,332	3.5	-
Break/lunch room	21	0.3	1,313	0.4	16	0.4	-	35	0.1	-
Freight terminal	27	0.4	3,442	1.0	19	0.4	-	248	0.7	-
Highway/roadway	202	3.2	11,137	3.4	142	3.2	1	2,106	5.6	1
Loading dock	35	0.6	2,046	0.6	28	0.6	-	118	0.3	-
Lodging facility	1	0.0	1	0.0	1	0.0	-	0	0.0	-
Office environment	126	2.0	4,944	1.5	86	2.0	-	757	2.0	1
Parking lot	66	1.1	2,586	0.8	42	1.0	-	460	1.2	-
Passenger terminal	444	7.1	20,388	6.2	315	7.2	-	2,340	6.2	1
Repair shop	561	9.0	17,162	5.2	321	7.3	-	3,630	9.6	2
Storage facility	60	1.0	2,613	0.8	37	0.8	-	613	1.6	-
Sidewalk/walkway	31	0.5	1,409	0.4	22	0.5	-	192	0.5	-
Other, (off site location	34	0.5	985	0.3	17	0.4	-	153	0.4	-
Other (explain in narrati	46	0.7	1,097	0.3	27	0.6	1	301	0.8	-
Other location (describe	36	0.6	1,585	0.5	24	0.5	-	318	0.8	-
Total	6,229	100	327,908	100	4,376	100	18	37,700	100	27

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2003
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	-	0	0
Executives and general officers	-	2	1	14	0
Corporate staff managers	-	5	-	181	0
Regional/division officers, assistants and staff assistants	-	8	-	404	84
Transportation officers/managers	-	12	-	605	56
Total	-	29	1	1,204	140

Professional and Administrative

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Professional and administrative (miscellaneous)	-	3	-	0	5
Professional	-	7	-	31	74
Subprofessionals	-	8	-	242	5
Auditors, traveling auditors or accountants	-	1	-	0	122
General and administrative supervisors	-	10	-	285	13
Sales and traffic representatives and agents	-	12	1	51	111
Freight and other claim agents and investigators	-	4	-	0	30
Lieutenants and sergeants of police	-	11	-	576	138
Police officers, watchmen, guards (except crossing & bridge)	-	37	-	1,904	396
Inspectors, (except MOW & MOE), other investigators, etc	-	1	1	0	16
Buyers, and sales agents	-	1	-	0	20
Clerical technicians and clerical specialists	-	15	1	843	9
Office machine and data equipment operators	-	3	-	202	0
Secretaries, stenographers, and typists	-	5	-	51	8
General/other clerks (except yd clerk and crew dispatcher)	-	63	-	3,111	421
Telephone and switchboard operators	-	1	-	0	0
Building and office attendants	-	31	-	1,380	317
Messengers and office persons	-	2	-	100	0
Motor vehicle operators	-	45	3	2,039	225
Total	-	260	6	10,815	1,910

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2003
Maintenance of Way and Structures

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of way and structures (miscellaneous)	-	19	1	311	142
Supervisors, MOW, structures, communication & signals	-	28	2	833	81
MOW, structures, comm. & signals, & scale inspectors	-	43	1	1,784	145
Bridge and building gang foreman	-	31	2	1,941	94
Bridge and building carpenters	1	48	6	1,798	160
Bridge and building ironworkers	-	14	-	410	46
Bridge and building painters	-	2	-	90	0
Masons, bricklayers, plasterers, and plumbers	-	97	5	3,544	1,322
Bridge and building helpers and apprentices	-	17	-	864	39
Bridge/building gang and bridge/building dept laborers	1	42	2	1,843	424
Track gang foremen (extra gang work train laborers)	1	56	3	3,158	282
Gang or section foreman	1	89	2	3,177	520
Extra gang laborers	-	136	3	5,747	1,133
Section laborers	-	255	4	6,691	908
Machine operators	1	237	7	11,873	1,441
Gang foremen, communications and signals	-	23	-	796	441
Signalmen and signal maintainers	-	164	1	7,388	1,082
Linemen and groundmen and communications craftsman	-	60	1	2,003	311
Assistant signalmen and assistant signal maintainers	-	25	1	1,366	261
Signal helpers and signal maintainer helpers	-	7	-	497	141
Camp car cooks	-	2	-	184	72
Total	5	1,395	41	56,298	9,045

Maintenance of Equipment and Stores

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of equipment and stores (miscellaneous)	-	23	4	362	360
Supervisors and general foremen, maintenance of equipment	-	13	-	684	5
Supervisors and general foremen, materials and stores	-	1	-	3	3
Equipment, shop, electrical inspectors	-	11	1	139	506
Materials and supplies inspectors	-	9	-	287	9
Storekeeper	-	6	-	56	47
Gang foremen, maintenance of equipment	-	21	-	919	145
Blacksmiths	-	4	1	1	0
Boilermakers	-	9	1	142	10
Carmen (freight)	-	217	5	11,754	1,044
Carmen (other)	-	181	3	6,977	1,663
Electrical workers (A)	1	205	2	6,657	1,837
Electrical workers (B)	-	12	-	379	23
Electrical workers (C)	-	4	1	298	0
Machinists	-	222	7	9,556	1,769
Sheet metal workers	-	46	2	2,003	312
Skilled trades, helpers, maintenance of equipment and stores	-	52	3	1,549	336
Apprentices, maintenance of equipment and stores	-	4	-	131	0
Coach cleaners	-	117	2	4,994	329
Laborers: shops, enginehouses and power plants	-	83	1	2,208	328
Gang foremen, materials and stores	-	1	-	125	30
Equipment operators/general laborers, materials and stores	-	21	-	832	217
Stationary engineers	-	2	-	26	21
Total	1	1,264	33	50,082	8,994

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2003
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)	-	3	-	8	28
Transportation supervisor and chief train dispatcher	-	3	-	68	25
Train dispatchers	-	4	-	42	0
Station, freight and passenger agents	-	12	1	419	11
Clerk operators, towerman, train directors	-	5	-	556	0
Station masters & assts, super bag. agents, bag. agents, etc	-	2	-	5	0
Baggage, parcel room and station attendents	-	33	-	1,806	244
Gen/asst gnrl foremen,stations,warehouses,grain elev., docks	-	1	-	8	0
Gang foreman, stations, warehouses, grain elevators, docks	-	1	-	125	0
Grain elevator, and dock laborers	-	2	-	14	0
Station, and warehouse laborers	-	10	-	578	6
Truckers (station, warehouse and platforms)	-	6	-	910	25
Food and lodging manager, supervisors	-	1	-	111	0
Transportation and dining-service inspectors	-	1	-	0	34
Waiters and kitchen helpers (restaurant and dining car)	-	7	-	5	82
Chefs and cooks (restaurant and dining car)	-	21	1	1,337	37
Marine officers and workers and shore workers	-	3	-	6	46
Train attendants	-	113	2	7,663	578
Bridge operators and helpers	-	2	-	360	0
Yards clerks	-	19	1	1,285	25
Crew dispatchers	-	3	-	93	0
Yardmasters and assistant yardmasters	-	17	-	912	130
Total	-	269	5	16,311	1,271

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2003
Transportation, Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, train and engine (miscellaneous)	-	19	1	390	102
Switchtenders	-	14	-	1,680	0
Car retarder operators and ground service employees	-	2	-	89	0
Outside hostlers	-	23	1	1,466	206
Outside hostler helpers	-	4	1	78	7
Inside hostler	-	1	-	87	0
Road passenger conductors	-	243	7	10,570	1,304
Assistant road passenger conductors and ticket collectors	-	127	8	6,377	400
Road freight conductors (through freight)	2	460	13	38,331	3,402
Road freight conductors (local and way freight)	2	297	3	15,847	1,709
Road passenger baggage person	-	3	-	410	66
Road Passenger brakemen and flagmen	-	21	-	686	202
Road freight brakemen and flagmen (through freight)	-	39	-	2,682	247
Road freight brakemen and flagmen (local and way freight)	-	171	6	11,621	1,393
Yard conductors and yard foremen	2	352	4	23,658	1,378
Yard brakemen and yard helpers	5	270	5	17,948	2,322
Road passenger engineers and motormen	1	120	18	6,386	610
Road freight engineers (through freight)	-	284	8	25,319	1,092
Road freight engineers (local and way freight)	-	159	1	10,458	982
Yard engineers	-	138	5	12,931	561
Road passenger firemen and helpers	-	1	-	10	0
Road freight firemen and helpers (through freight)	-	2	-	0	0
Road freight firemen and helpers (local and way freight)	-	2	-	3	21
Yard firemen and helpers	-	5	1	201	2
Remote control locomotive operator -operating	1	31	-	2,274	238
Remote control locomotive operator - not operating	-	36	1	3,696	96
Total	13	2,824	83	193,198	16,340

TABLE 4-8 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, 2003

Illness	Total		Kld	Nonfatal	Days Absent	Absent Cases	Term./ Trans.	Days Restricted	Hazmat Exp.
	Cnt	%							
Dermatitis	5	3.0	-	5	0	-	-	0	-
Rashes	3	1.8	-	3	17	2	-	1	-
Pneumoconioses, other	1	0.6	-	1	242	1	-	0	-
Acute congestion, dust/gas/etc.	1	0.6	-	1	0	-	-	0	-
Misc. respiratory conditions	3	1.8	-	3	6	3	-	0	1
Poisoning, miscellaneous	1	0.6	-	1	2	1	-	0	1
Heat/sun stroke	4	2.4	-	4	2	1	-	7	-
Heat exhaustion	12	7.1	-	12	204	5	-	30	-
Freezing/frostbite	1	0.6	-	1	1	1	-	0	-
Noise induced hearing loss	60	35.5	-	60	0	-	-	0	-
Synovitis	3	1.8	-	3	90	1	-	0	-
Tenosynovitis	8	4.7	-	8	507	5	-	117	-
Bursitis	2	1.2	-	2	90	1	-	0	-
Carpal tunnel syndrome	14	8.3	-	14	707	7	-	298	-
Misc. repeated trauma condition	26	15.4	-	26	1,772	18	-	344	-
Stress related syndromes	12	7.1	-	12	1,017	11	-	1	-
Misc. illnesses, unclassified	5	3.0	-	5	144	4	-	169	-
Emotional trauma/nervous shock	8	4.7	-	8	691	7	-	30	1
Total	169	100	-	169	5,492	68	-	997	3

TABLE 4-9 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, BY RAILROAD, 2003

RR	Total		Kld	Nonfatal	Days Absent			Absent Cases		Term./Trans.	Days Restricted			Hazmat Exp.
	Cnt	%			Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.	
ATK	73	43.2	-	73	813	14.8	11	10	14.7	-	2	0.2	0	-
BNSF	38	22.5	-	38	2,662	48.5	70	26	38.2	-	773	77.5	20	1
CSX	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
DWP	3	1.8	-	3	1	0.0	0	1	1.5	-	10	1.0	3	-
EJE	1	0.6	-	1	0	0.0	0	-	-	-	30	3.0	30	-
GTW	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
IC	1	0.6	-	1	0	0.0	0	-	-	-	33	3.3	33	-
IHB	1	0.6	-	1	25	0.5	25	1	1.5	-	0	0.0	0	-
KCS	1	0.6	-	1	90	1.6	90	1	1.5	-	0	0.0	0	-
MBTA	1	0.6	-	1	7	0.1	7	1	1.5	-	0	0.0	0	-
MNCW	2	1.2	-	2	185	3.4	93	1	1.5	-	0	0.0	0	-
MRL	1	0.6	-	1	152	2.8	152	1	1.5	-	0	0.0	0	-
NIRC	1	0.6	-	1	70	1.3	70	1	1.5	-	0	0.0	0	-
NS	4	2.4	-	4	162	2.9	41	2	2.9	-	0	0.0	0	-
PATH	3	1.8	-	3	13	0.2	4	3	4.4	-	0	0.0	0	-
SEPA	1	0.6	-	1	15	0.3	15	1	1.5	-	0	0.0	0	-
SOO	2	1.2	-	2	0	0.0	0	-	-	-	0	0.0	0	-
UP	25	14.8	-	25	1,256	22.9	50	14	20.6	-	89	8.9	4	-
WC	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
WSOR	1	0.6	-	1	0	0.0	0	-	-	-	0	0.0	0	-
XXXX	7	4.1	-	7	41	0.7	6	5	7.4	-	60	6.0	9	2
Tot.	169	100	-	169	5,492	100	32	68	100	-	997	100	6	3

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 1998 was \$6,600, and in 2003 it was \$6,700.

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 ontrack 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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CHAPTER 5

TRAIN ACCIDENTS

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TABLE 5-1 TRAIN ACCIDENTS BY RR, TYPE AND MAJOR CAUSE, 2003

Railroad	Total		Type of Accident				Reportable Damage	Casualties		Causes						
	Cnt	%	Coll	Der	HRC	Othr		Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Alton & Southern	14	0.4	5	3	-	6	402,706	-	3	2	-	8	2	2	-	
Alaska RR Corp.	6	0.2	1	5	-	-	169,493	-	-	2	-	3	-	-	1	
Amtrak	143	4.1	3	45	32	63	11,577,121	15	97	30	32	22	17	-	42	
Burlington Northern Santa Fe	617	17.9	29	410	49	129	68,679,633	4	55	60	49	267	85	5	151	
Belt Rwy Of Chicago	19	0.6	4	11	-	4	221,100	-	-	2	-	13	4	-	-	
Conrail Shared Assets	43	1.2	11	26	1	5	1,491,939	-	1	3	1	33	3	1	2	
CSX Transportation	540	15.6	26	353	26	135	40,212,367	5	30	37	26	237	80	17	143	
Delaware & Hudson	4	0.1	-	3	-	1	1,630,480	-	-	-	-	1	1	-	2	
Dakota,Minnesota & Eastern	19	0.6	-	19	-	-	1,335,279	-	-	-	-	3	3	-	13	
Duluth,Missabe & Iron Range	2	0.1	-	2	-	-	33,222	-	-	-	-	-	-	-	2	
Duluth,Winnipeg & Pacific	4	0.1	-	3	-	1	151,365	-	1	-	-	3	-	-	1	
Elgin, Joliet & Eastern	9	0.3	2	5	-	2	221,575	-	-	1	-	4	-	1	3	
Florida East Coast	11	0.3	-	9	-	2	951,310	-	-	3	-	2	-	-	6	
Guilford Rail System	6	0.2	-	6	-	-	164,571	-	-	1	-	2	-	-	3	
Grand Trunk Western RR	17	0.5	-	14	-	3	2,671,398	-	-	4	-	8	-	-	5	
Illinois Central	71	2.1	3	41	5	22	6,633,929	-	2	8	5	38	5	-	15	
Iowa Chicago & Eastern RR	37	1.1	3	29	-	5	3,200,440	-	-	3	-	12	3	-	19	
Indiana Harbor Belt	17	0.5	3	14	-	-	321,309	-	-	3	-	6	1	-	7	
Kansas City Southern	102	3.0	16	54	3	29	6,445,521	1	5	9	3	57	4	1	28	
Long Island Rail Road	12	0.3	1	6	-	5	803,246	-	5	2	-	3	4	-	3	
Mass Bay Transit Auth.	2	0.1	-	1	-	1	84,312	-	-	-	-	-	1	-	1	
Montreal, Maine & Atlantic	2	0.1	-	2	-	-	58,500	-	-	1	-	-	-	-	1	
Metro North Commuter	70	2.0	3	4	-	63	2,052,654	-	11	29	-	12	6	-	23	
Montana Rail Link	11	0.3	1	9	-	1	1,230,900	-	-	3	-	3	1	-	4	
Northeast IL Reg Comm	4	0.1	1	1	1	1	5,305,591	-	56	-	1	2	1	-	-	
New Jersey Transit Rail	42	1.2	2	25	-	15	943,600	-	13	8	-	19	5	-	10	
Norfolk Southern Corp.	337	9.8	30	236	22	49	21,718,410	5	15	47	22	121	39	4	104	
Paducah & Louisville	1	0.0	-	1	-	-	14,640	-	-	-	-	1	-	-	-	
Port Auth Trans Hudson	2	0.1	-	-	-	2	152,842	-	9	-	-	2	-	-	-	
Port Terminal RR Assn	13	0.4	7	3	1	2	1,021,783	-	-	-	1	10	1	-	1	
Southern CA Reg Rail Auth.	11	0.3	-	-	11	-	3,122,409	8	24	-	11	-	-	-	-	
Southeastern PA Trans.	15	0.4	-	2	-	13	1,181,649	-	-	5	-	-	8	2	-	
Soo Line	29	0.8	2	19	2	6	2,411,595	-	2	9	2	5	3	-	10	
Term RR Assn Of St. Louis	11	0.3	-	10	-	1	550,504	-	-	2	-	2	2	-	5	
Union Pacific	854	24.7	54	613	58	129	101,114,814	9	51	96	58	305	108	26	261	
Union RR (Pittsburgh)	6	0.2	-	6	-	-	822,119	-	1	-	-	2	-	-	4	
Wisconsin Central Ltd.	19	0.6	1	12	1	5	776,671	-	1	3	1	8	3	-	4	
Wheeling & Lake Erie	13	0.4	-	12	-	1	339,542	-	1	-	-	4	-	-	9	
Wisconsin & Southern RR	5	0.1	-	5	-	-	157,568	-	-	-	-	1	-	-	4	
Other Railroads	313	9.1	14	263	7	29	15,962,152	1	8	19	7	87	25	-	175	

TABLE 5-2 TRAIN ACCIDENTS BY STATE, TYPE AND MAJOR CAUSE, 2003

State	Total		Type of Accident				Reportable Damage		Casualties		Causes						
	Accs	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Alabama	83	2.6	8	58	6	11	7,371,781	2.4	3	4	7	6	26	18	3	23	
Alaska	6	0.2	1	5	-	-	169,493	0.1	-	-	2	-	3	-	-	1	
Arizona	25	0.8	-	17	1	7	4,210,968	1.4	1	5	2	1	5	7	1	9	
Arkansas	86	2.7	10	52	7	17	4,926,971	1.6	-	4	8	7	27	9	7	28	
California	198	6.2	9	139	25	25	23,280,675	7.6	10	58	15	25	83	25	-	50	
Colorado	54	1.7	3	33	4	14	6,559,970	2.1	-	7	5	4	25	8	-	12	
Connecticut	43	1.4	1	2	-	40	955,953	0.3	-	1	15	-	7	4	-	17	
Delaware	10	0.3	1	6	-	3	452,557	0.1	-	-	2	-	2	-	-	6	
Dist Of Columbi	14	0.4	1	5	-	8	443,316	0.1	-	-	5	-	4	-	-	5	
Florida	53	1.7	-	36	4	13	2,610,947	0.9	2	4	4	4	17	6	1	21	
Georgia	95	3.0	4	58	12	21	8,999,140	2.9	3	36	9	12	30	13	1	30	
Idaho	23	0.7	-	18	1	4	3,487,607	1.1	1	2	4	1	8	1	-	9	
Illinois	267	8.4	29	166	7	65	26,071,976	8.5	-	78	21	7	142	34	4	59	
Indiana	89	2.8	11	50	6	22	8,750,646	2.9	3	6	6	6	32	14	6	25	
Iowa	74	2.3	1	64	1	8	11,009,363	3.6	-	1	12	1	19	10	-	32	
Kansas	94	3.0	9	67	4	14	19,827,785	6.5	-	10	10	4	31	11	-	38	
Kentucky	43	1.4	-	26	4	13	2,990,076	1.0	3	6	4	4	19	5	1	10	
Louisiana	83	2.6	5	57	7	14	7,952,623	2.6	-	6	5	7	31	3	1	36	
Maine	7	0.2	-	7	-	-	466,446	0.2	-	-	1	-	1	-	-	5	
Maryland	39	1.2	3	22	-	14	4,842,997	1.6	1	5	4	-	18	2	1	14	
Massachusetts	25	0.8	1	13	-	11	3,675,695	1.2	-	-	4	-	11	3	-	7	
Michigan	39	1.2	3	28	5	3	4,001,155	1.3	2	4	6	5	18	2	-	8	
Minnesota	70	2.2	4	51	2	13	5,445,437	1.8	1	4	10	2	20	7	-	31	
Mississippi	35	1.1	4	24	2	5	3,922,173	1.3	1	3	4	2	14	3	-	12	
Missouri	91	2.9	6	61	5	19	6,148,519	2.0	1	7	12	5	30	16	5	23	
Montana	25	0.8	1	21	1	2	5,169,738	1.7	-	-	5	1	5	4	-	10	
Nebraska	85	2.7	5	62	3	15	14,541,906	4.7	1	3	11	3	30	12	8	21	
Nevada	8	0.3	-	7	-	1	1,155,049	0.4	-	-	-	-	5	1	-	2	
New Jersey	84	2.6	8	49	-	27	2,571,058	0.8	-	24	11	-	52	6	1	14	
New Mexico	25	0.8	1	18	3	3	1,808,520	0.6	2	1	4	3	11	2	-	5	
New York	120	3.8	7	62	3	48	6,213,503	2.0	1	17	25	3	42	14	4	32	
North Carolina	54	1.7	7	37	2	8	3,176,458	1.0	-	2	6	2	20	7	-	19	
North Dakota	22	0.7	-	16	4	2	5,740,622	1.9	1	4	6	4	4	1	-	7	
Ohio	151	4.8	3	116	1	31	6,573,597	2.1	-	5	9	1	59	22	3	57	
Oklahoma	52	1.6	2	43	3	4	10,367,202	3.4	-	5	6	3	12	8	-	23	
Oregon	55	1.7	3	44	-	8	5,804,264	1.9	-	-	8	-	22	4	1	20	
Pennsylvania	120	3.8	5	83	3	29	10,013,974	3.3	-	6	18	3	34	18	3	44	
Rhode Island	1	0.0	-	-	-	1	20,900	0.0	-	-	1	-	-	-	-	-	
South Carolina	22	0.7	2	12	3	5	921,758	0.3	-	1	2	3	6	4	-	7	
South Dakota	16	0.5	-	14	-	2	2,389,877	0.8	-	-	-	-	3	3	-	10	
Tennessee	71	2.2	6	46	2	17	3,856,423	1.3	1	4	6	2	37	10	2	14	
Texas	347	10.9	19	228	36	64	30,971,533	10.1	5	32	23	36	144	40	4	100	
Utah	44	1.4	2	30	4	8	2,860,375	0.9	-	2	5	4	25	5	-	5	
Vermont	5	0.2	-	4	-	1	162,100	0.1	-	-	1	-	1	1	-	2	
Virginia	58	1.8	1	48	1	8	6,121,004	2.0	1	20	13	1	16	5	-	23	
Washington	62	2.0	6	39	2	15	7,036,886	2.3	1	11	7	2	28	6	1	18	
West Virginia	19	0.6	-	15	1	3	2,334,690	0.8	-	2	1	1	6	4	-	7	
Wisconsin	39	1.2	2	24	2	11	1,734,795	0.6	-	1	6	2	15	8	-	8	
Wyoming	39	1.2	4	30	1	4	6,219,758	2.0	3	-	9	1	14	5	-	10	
Total	3,170	100	198	2,113	178	681	306,340,259	100.0	48	391	360	178	1,214	391	58	969	

TABLE 5-3 TRAIN ACCIDENTS BY MONTH, TYPE AND MAJOR CAUSE, 2003

Day	Total		Type of Accident				Reportable Damage		Casualties			Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
January	242	7.6	10	173	14	45	29,177,229	9.5	5	43	41	14	78	28	2	79	
February	261	8.2	24	172	10	55	28,738,586	9.4	4	21	22	10	111	31	5	82	
March	260	8.2	8	196	9	47	26,117,588	8.5	4	11	33	9	93	36	4	85	
April	266	8.4	16	177	13	60	16,468,396	5.4	2	16	27	13	99	38	7	82	
May	262	8.3	18	167	13	64	34,323,033	11.2	7	60	30	13	101	42	5	71	
June	268	8.5	17	175	18	58	25,178,854	8.2	5	15	28	18	114	31	5	72	
July	282	8.9	20	199	14	49	27,975,323	9.1	4	35	35	14	112	33	1	87	
August	269	8.5	21	173	15	60	21,377,989	7.0	2	43	30	15	99	27	9	89	
September	286	9.0	21	168	21	76	22,983,547	7.5	3	28	20	21	121	34	7	83	
October	214	6.8	12	130	11	61	23,952,227	7.8	3	76	34	11	89	24	7	49	
November	251	7.9	17	174	16	44	26,324,098	8.6	3	22	25	16	95	29	4	82	
December	309	9.7	14	209	24	62	23,723,389	7.7	6	21	35	24	102	38	2	108	
Total	3,170	100	198	2,113	178	681	306,340,259	100.0	48	391	360	178	1,214	391	58	969	

TABLE 5-4 TRAIN ACCIDENTS BY DAY, TYPE AND MAJOR CAUSE, 2003

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Sunday	377	11.9	29	251	12	85	41,738,820	13.6	2	73	50	12	146	52	11	106
Monday	538	17.0	32	346	29	131	46,071,694	15.0	9	64	59	29	199	77	11	163
Tuesday	463	14.6	30	305	34	94	48,045,992	15.7	11	65	46	34	169	55	9	150
Wednesday	461	14.5	31	296	35	99	39,121,970	12.8	7	49	49	35	189	46	5	137
Thursday	447	14.1	24	301	28	94	45,934,259	15.0	6	55	49	28	154	55	10	151
Friday	474	15.0	20	314	28	112	41,473,309	13.5	9	60	52	28	191	61	6	136
Saturday	410	12.9	32	300	12	66	43,954,215	14.3	4	25	55	12	166	45	6	126
Total	3,170	100	198	2,113	178	681	306,340,259	100.0	48	391	360	178	1,214	391	58	969

TABLE 5-5 TRAIN ACCIDENTS BY TIME OF DAY, TYPE AND MAJOR CAUSE,2003

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	137	4.3	10	95	3	29	12,472,656	4.1	-	5	20	3	58	17	2	37
	2	140	4.4	19	91	-	30	20,955,877	6.8	-	20	17	-	68	17	6	32
	3	117	3.7	9	78	3	27	14,245,263	4.7	1	18	12	3	56	16	2	28
	4	101	3.2	10	72	-	19	10,075,707	3.3	-	5	13	-	44	14	2	28
	5	114	3.6	9	75	3	27	15,038,657	4.9	-	2	14	3	49	16	2	30
	6	105	3.3	5	71	3	26	10,822,705	3.5	-	8	17	3	31	10	5	39
	7	108	3.4	5	65	15	23	11,964,972	3.9	4	64	19	15	27	11	2	34
	8	118	3.7	6	73	13	26	13,318,063	4.3	4	11	22	13	31	17	2	33
	9	142	4.5	9	82	23	28	15,082,194	4.9	8	58	16	23	45	12	5	41
	10	126	4.0	12	82	9	23	9,812,669	3.2	1	9	13	9	49	14	2	39
	11	131	4.1	8	94	11	18	11,159,365	3.6	1	12	17	11	45	14	-	44
	12	122	3.8	6	77	-	39	11,332,922	3.7	-	6	9	-	58	11	-	44
	Sub	1,461	46.1	108	955	83	315	156,281,050	51.0	19	218	189	83	561	169	30	429
PM	1	158	5.0	5	110	14	29	11,623,519	3.8	1	16	17	14	53	21	3	50
	2	147	4.6	6	99	13	29	14,279,279	4.7	6	10	11	13	44	18	1	60
	3	138	4.4	4	99	6	29	15,078,888	4.9	2	6	12	6	43	19	1	57
	4	144	4.5	9	94	18	23	13,978,014	4.6	5	76	16	18	40	20	1	49
	5	165	5.2	7	107	9	42	13,160,371	4.3	-	7	13	9	65	22	8	48
	6	175	5.5	11	112	5	47	16,597,470	5.4	2	15	18	5	70	29	2	51
	7	146	4.6	9	101	6	30	11,340,217	3.7	2	6	19	6	57	14	4	46
	8	137	4.3	13	90	4	30	15,412,571	5.0	2	5	16	4	64	18	2	33
	9	165	5.2	12	109	4	40	11,023,144	3.6	2	10	16	4	76	17	4	48
	10	119	3.8	2	90	1	26	8,635,139	2.8	1	5	11	1	57	19	-	31
	11	89	2.8	5	68	-	16	8,589,961	2.8	-	2	8	-	38	10	-	33
	12	126	4.0	7	79	15	25	10,340,636	3.4	6	15	14	15	46	15	2	34
	Sub	1,709	53.9	90	1,158	95	366	150,059,209	49.0	29	173	171	95	653	222	28	540
Total	3,170	100	198	2,113	178	681	306,340,259	100	48	391	360	178	1,214	391	58	969	

TABLE 5-6 TRAIN ACCIDENTS BY TYPE AND MAJOR CAUSE, 2003

Type Accident	Total		Reportable Damage		Casualties		Causes						
	Cnt	%	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Derailments	2,113	66.7	237,370,531	77.5	1	117	258	-	672	237	19	927	
Head on collision	13	0.4	2,540,725	0.8	-	11	1	-	11	1	-	-	
Rear end collision	20	0.6	2,716,073	0.9	-	27	-	-	20	-	-	-	
Side collision	110	3.5	12,915,965	4.2	-	15	3	-	100	4	2	1	
Raking collision	51	1.6	2,749,918	0.9	-	2	1	-	41	7	2	-	
Broken train coll.	4	0.1	100,088	0.0	-	-	3	-	1	-	-	-	
Highway-rail Impact	178	5.6	15,836,032	5.2	44	164	-	178	-	-	-	-	
Obstruction impact	75	2.4	2,519,181	0.8	2	19	5	-	21	43	-	6	
Fire/violent rupture	35	1.1	7,335,863	2.4	-	3	22	-	-	13	-	-	
Other impacts	422	13.3	17,121,359	5.6	1	30	16	-	301	69	31	5	
Other events	149	4.7	5,134,524	1.7	-	3	51	-	47	17	4	30	
Total	3,170	100	306,340,259	100	48	391	360	178	1,214	391	58	969	

TABLE 5-7 TRAIN ACCIDENTS BY SUBCAUSE AND TYPE, 2003

Causes	Total		Type of Accident				Reportable Damage		Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal
Brakes	39	1.2	4	29	-	6	3,325,822	1.1	-	1
Trailer/Container on Flatcar	1	0.0	-	-	-	1	66,000	0.0	-	-
Body	25	0.8	-	20	-	5	1,907,519	0.6	-	-
Coupler & Draft System	43	1.4	4	28	-	11	1,909,218	0.6	-	-
Truck Components	54	1.7	-	54	-	-	7,779,310	2.5	-	-
Axles & Journal Bearings	51	1.6	-	46	-	5	14,712,694	4.8	-	14
Wheels	71	2.2	-	68	-	3	15,766,723	5.1	-	2
Locomotives	60	1.9	-	5	-	55	4,646,583	1.5	-	3
Doors	9	0.3	-	7	-	2	528,092	0.2	-	-
Other Mechanical	7	0.2	-	1	-	6	101,328	0.0	-	-
Brakes, Use of	125	3.9	9	52	-	64	5,819,450	1.9	-	12
Employee Physical Condition	5	0.2	2	2	-	1	95,571	0.0	-	1
Flagging, Fixed, Hand & Radio	44	1.4	15	13	-	16	11,506,024	3.8	-	14
General Switching Rules	419	13.2	91	157	-	171	13,014,209	4.2	1	17
Main Track Authority	33	1.0	6	7	-	20	2,451,481	0.8	-	6
Train Handling/Makeup	182	5.7	4	169	-	9	14,670,299	4.8	-	6
Speed	73	2.3	21	27	-	25	10,078,616	3.3	-	83
Switches, Use of	292	9.2	18	228	-	46	13,529,999	4.4	1	10
Miscellaneous Human Factors	41	1.3	7	17	-	17	5,107,588	1.7	-	8
Environmental Conditions	48	1.5	-	35	-	13	8,892,552	2.9	-	4
Loading Procedures	48	1.5	3	37	-	8	4,436,484	1.4	-	-
Highway-Rail Incidents	178	5.6	-	-	178	-	15,836,032	5.2	44	164
Unusual Operational Situations	197	6.2	8	99	-	90	17,527,352	5.7	1	9
Other Miscellaneous Causes	98	3.1	1	66	-	31	8,822,570	2.9	1	13
Signal Defects	58	1.8	4	19	-	35	2,500,192	0.8	-	3
Roadbed	39	1.2	-	35	-	4	5,344,837	1.7	-	5
Track Geometry	379	12.0	-	378	-	1	36,861,850	12.0	-	4
Rail, Joint Bar & Anchors	325	10.3	1	322	-	2	64,397,175	21.0	-	10
Frogs, Switches, Appliances	183	5.8	-	179	-	4	12,495,380	4.1	-	1
Other Track Defects	43	1.4	-	13	-	30	2,209,309	0.7	-	1
Total	3,170	100	198	2,113	178	681	306,340,259	100.0	48	391

TABLE 5-8 TRAIN ACCIDENTS WITH CONTRIBUTING CAUSE, 2003

Contributing Cause	Total		Type of Accident				Type of Track				
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry	Other
Brakes	1	0.2	-	1	-	-	1	-	-	-	-
Coupler & Draft System	3	0.7	-	2	-	1	1	2	-	-	-
Truck Components	11	2.6	-	11	-	-	6	2	2	1	-
Axles & Journal Bearings	6	1.4	-	6	-	-	5	-	-	-	1
Wheels	15	3.6	-	15	-	-	4	7	-	2	2
Locomotives	2	0.5	-	-	-	2	2	-	-	-	-
Doors	1	0.2	-	1	-	-	-	-	-	1	-
Brakes, Use of	10	2.4	-	4	-	6	2	7	1	-	-
Employee Physical Condition	1	0.2	1	-	-	-	-	-	1	-	-
Flagging, Fixed, Hand & Radio	14	3.4	3	6	1	4	4	7	2	1	-
General Switching Rules	80	19.2	16	29	-	35	4	65	2	9	-
Main Track Authority	6	1.4	2	-	-	4	3	2	1	-	-
Train Handling/Makeup	33	7.9	-	32	-	1	7	20	1	3	2
Speed	20	4.8	6	4	-	10	5	10	1	4	-
Switches, Use of	27	6.5	-	20	-	7	5	18	-	4	-
Miscellaneous Human Factors	7	1.7	3	3	-	1	4	2	-	1	-
Environmental Conditions	10	2.4	-	5	-	5	8	1	-	1	-
Loading Procedures	10	2.4	-	8	-	2	8	-	-	2	-
Highway-Rail Incidents	14	3.4	-	-	14	-	12	1	1	-	-
Unusual Operational Situations	10	2.4	-	6	-	4	7	3	-	-	-
Other Miscellaneous Causes	23	5.5	-	18	-	5	2	3	1	17	-
Signal Defects	3	0.7	-	-	-	3	1	2	-	-	-
Roadbed	8	1.9	-	8	-	-	3	4	-	1	-
Track Geometry	55	13.2	-	55	-	-	25	20	1	9	-
Rail, Joint Bar & Anchors	22	5.3	-	22	-	-	8	11	2	1	-
Frogs, Switches, Appliances	20	4.8	-	20	-	-	4	13	2	1	-
Other Track Defects	5	1.2	-	3	-	2	4	1	-	-	-
Total	417	100	31	279	15	92	135	201	18	58	5

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
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	2	0.1	-	1	1	-	2	-	46,537	-	-
Failure to secure engine- rr empl	7	0.2	1	2	4	1	5	1	302,456	-	1
Fail to secure car hnd brk -rr emp	39	1.2	2	12	25	7	28	4	2,933,871	-	1
Fail to release hand brk - rr emp	8	0.3	-	7	1	3	4	1	542,283	-	-
Fail to apply suff. hand brakes -rr emp	42	1.3	3	14	25	-	35	7	1,212,212	-	-
Fail to apply car hnd brks -rr emp	14	0.4	3	5	6	1	10	3	307,209	-	1
Fail to secure equip - not rr emp	2	0.1	-	1	1	-	1	1	26,470	-	-
Fail to ctrl car spd use hnd brk-r emp	4	0.1	-	4	-	1	3	-	173,349	-	-
Use of brakes, other	7	0.2	-	6	1	2	2	3	275,063	-	9
Impairment because of drugs or alcohol	2	0.1	2	-	-	1	1	-	29,372	-	1
Employee asleep	3	0.1	-	2	1	2	1	-	66,199	-	-
Absence of fixed signal (Blue Signal)	2	0.1	-	1	1	-	1	1	35,000	-	-
Fixed signal, failure to comply	-	-	-	-	-	-	-	-	0	-	-
Flagging, improper or failure to flag	1	0.0	-	-	1	-	1	-	25,100	-	-
Flagging signal, failure to comply	1	0.0	-	1	-	-	-	1	45,702	-	-
Radio communication, failure to comply	7	0.2	2	2	3	-	5	2	257,695	-	-
Radio communication, improper	4	0.1	3	-	1	-	4	-	349,438	-	-
Radio comm., failure to give/receive	5	0.2	1	-	4	2	3	-	296,987	-	2
Block signal, failure to comply	3	0.1	1	1	1	2	-	1	202,296	-	-
Interlocking signal, failure to comply	3	0.1	2	1	-	3	-	-	855,068	-	5
Failure to comply with failed equipment detector warning or with applicable train inspection rules.	4	0.1	-	4	-	3	-	1	944,966	-	-
Fixed signal (other than automatic block or interlocking signal), failure to comply.	2	0.1	1	-	1	1	1	-	245,690	-	-
Automatic block or interlocking signal displaying a stop indication - failure to comply.*	9	0.3	4	2	3	7	-	2	8,124,405	-	7
Other signal causes	3	0.1	1	1	1	1	2	-	123,677	-	-
Car(s) shoved out & left out of clear	13	0.4	1	2	10	-	13	-	468,937	-	-
Cars left foul	50	1.6	7	5	38	-	41	9	1,526,565	-	3
Derail, failure to apply or remove	27	0.9	1	26	-	2	17	8	576,637	-	-
Hazmat regs, failure to comply	1	0.0	1	-	-	-	1	-	20,000	-	-
Instruction to trn/yd crew improper	19	0.6	8	1	10	1	18	-	1,150,602	-	-
Shoving movement, absence of man	147	4.6	42	65	40	9	120	18	4,858,448	-	7
Shoving movement, failure to control	53	1.7	15	14	24	2	42	9	1,708,082	1	3
Skate, failure to remove or place	3	0.1	-	2	1	-	3	-	42,951	-	-
Failure to stretch cars before shoving	6	0.2	2	2	2	1	5	-	491,679	-	2
Failure to couple	15	0.5	2	2	11	1	14	-	293,667	-	-
Moving cars-load ramp,etc, not in pos	3	0.1	1	-	2	1	-	2	49,256	-	-
Passed couplers	38	1.2	1	28	9	1	36	1	655,116	-	-
Retarder, improper manual operation	6	0.2	-	-	6	-	6	-	110,111	-	-
Portable derail, improperly applied	1	0.0	-	1	-	-	-	1	20,000	-	-
Manual intervention of classification yard automatic control system modes by operator	1	0.0	-	1	-	-	1	-	26,832	-	-
Humping or cutting off in motion equipment susceptible to damage, or to cause damage to other equipment	3	0.1	-	3	-	-	3	-	154,218	-	-
Kicking or dropping cars, inadequate precautions	8	0.3	1	1	6	2	6	-	172,537	-	1
Other general switching rules	25	0.8	9	4	12	2	19	4	688,571	-	1

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
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 stop train in clear	8	0.3	2	1	5	-	5	3	407,331	-	-
Motor car/on-trk rules, fail to comply	8	0.3	2	-	6	7	-	1	829,776	-	3
Movement without authority - rr emp	4	0.1	-	3	1	2	2	-	485,706	-	2
Fail to comply with trn order, etc.	2	0.1	-	-	2	2	-	-	278,638	-	1
Trn orders, trk warrants, radio error	3	0.1	1	1	1	2	1	-	348,657	-	-
Trn orders, trk warrants, written err	2	0.1	1	-	1	2	-	-	30,250	-	-
Other main track authority causes	6	0.2	-	2	4	2	4	-	71,123	-	-
Improper train make-up at init term	3	0.1	-	3	-	1	2	-	220,483	-	-
Improper placement of cars in train	1	0.0	-	1	-	1	-	-	203,188	-	-
Buff/slack action excess, trn handling	75	2.4	-	68	7	22	50	3	4,467,783	-	-
Buff/slack action excess, trn make-up	11	0.3	-	11	-	2	8	1	408,648	-	-
Lat DB force on curve xcess trn hndlng	10	0.3	-	9	1	3	7	-	643,654	-	-
Lat DB force on curve excess, make-up	8	0.3	-	8	-	2	5	1	463,132	-	-
Lat drawbar force-short/long car combo	10	0.3	-	10	-	1	9	-	332,381	-	-
Improper train make-up	6	0.2	-	6	-	4	2	-	1,391,639	-	-
Improper train inspection	2	0.1	-	1	1	2	-	-	716,465	-	-
Automatic brake, insufficient	1	0.0	-	1	-	-	1	-	17,281	-	-
Automatic brake, excessive	2	0.1	-	2	-	-	2	-	45,636	-	-
Fail to allow air brks to release	3	0.1	-	3	-	-	3	-	126,115	-	-
Fail to cut-in brake valves-loco	2	0.1	1	1	-	-	2	-	47,994	-	2
Dynamic brake, excessive	1	0.0	-	1	-	-	-	1	528,316	-	-
Dynamic brake, too rapid adjustment	1	0.0	-	1	-	1	-	-	215,934	-	-
Dynamic brake, excessive axles	2	0.1	-	2	-	2	-	-	1,140,511	-	2
Dynamic brake, other improper use	2	0.1	-	2	-	2	-	-	532,526	-	-
Throttle (power), improper use	7	0.2	-	7	-	3	3	1	1,633,142	-	-
Throttle (power), too rapid adjustment	3	0.1	-	3	-	-	1	2	48,577	-	-
Excessive horsepower	9	0.3	-	9	-	1	5	3	475,613	-	-
Independent brake, improper use	16	0.5	1	15	-	3	12	1	309,516	-	-
Failure to actuate off independent brk	1	0.0	-	1	-	1	-	-	60,000	-	-
Other train handling/makeup	6	0.2	2	4	-	1	4	1	641,765	-	2
Coupling speed excessive	22	0.7	-	12	10	5	13	4	988,068	-	-
Switch movement, excessive speed	6	0.2	1	4	1	1	4	1	115,094	-	-
Train inside yard limits, excess speed	5	0.2	1	4	-	2	3	-	179,047	-	1
Train outside yd limits, excess speed	1	0.0	1	-	-	-	-	1	-	-	-
Failure to comply with restricted speed	11	0.3	7	1	3	6	3	2	1,793,847	-	12
Train outside yd limits(nonblk),exc spd	2	0.1	-	2	-	1	1	-	182,437	-	-
Failure to comply with restricted speed or its equivalent not in connection with a block or interlocking signal.	21	0.7	11	2	8	3	16	2	1,277,014	-	16
Speed, other	5	0.2	-	2	3	2	3	-	5,543,109	-	54
Spring Swtch not clear before reverse	3	0.1	-	3	-	2	1	-	170,190	-	1
Switch improperly lined	225	7.1	18	164	43	31	167	27	11,568,442	1	9
Switch not latched or locked	15	0.5	-	15	-	1	14	-	382,357	-	-

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
MAJOR CAUSE= Human Factors

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Switch previously run through	47	1.5	-	45	2	3	37	7	1,362,244	-	-
Use of switches, other	2	0.1	-	1	1	-	2	-	46,766	-	-
Tampering - safety/protective device	1	0.0	-	1	-	1	-	-	13,950	-	-
Op. of loco by uncert/unqual person	1	0.0	-	-	1	-	1	-	7,792	-	-
Human factors - track	4	0.1	1	3	-	1	2	1	1,294,876	-	2
Human factors - signal	3	0.1	-	3	-	2	-	1	1,161,215	-	-
Human factors -motive power & equipment	3	0.1	-	1	2	2	1	-	33,387	-	-
Oversized loads or Excess Height/Width cars, mis-routed or switched.	2	0.1	2	-	-	1	-	1	38,100	-	-
Motor car or other on-track equipment rules (other than main track authority) - Failure to Comply.	7	0.2	-	1	6	6	-	1	219,779	-	2
Other train operation/human factors	20	0.6	4	8	8	10	10	-	2,338,489	-	4
Total	1,214	38.3	173	672	369	208	860	146	76,273,237	2	157

MAJOR CAUSE= Signal Defects

Causes	Total		Type of Accident			Type of Track		Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard		Kld	Nonfatal
Automatic trn-stop device inoperative	3	0.1	-	-	3	-	3	40,575	-	-
Classyard autocontrol sys switch fail	3	0.1	-	1	2	-	3	47,484	-	-
Class yd auto ctrl sys retarder fail	23	0.7	2	7	14	-	23	824,199	-	1
Power switch failure	3	0.1	-	3	-	1	2	367,044	-	-
Radio communication equipment failure	-	-	-	-	-	-	-	27,000	-	-
Other communication equipment failure	3	0.1	1	1	1	1	2	783,607	-	2
Classification yard automatic control system - Inadequate/insufficient control	1	0.0	1	-	-	-	1	35,489	-	-
Other signal failures	21	0.7	-	6	15	1	20	344,422	-	-
Radio controlled switch communication failure	1	0.0	-	1	-	1	-	30,372	-	-
Total	58	1.8	4	19	35	4	54	2,500,192	-	3

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
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	-	26	3	15	10	4	2,629,645	-	1
Washout/rain/slide/etc. dmg -track	7	0.2	-	6	1	7	-	-	1,288,746	-	3
Other roadbed defects	3	0.1	-	3	-	2	-	1	1,426,446	-	1
Cross level of track irregular(joints)	28	0.9	-	28	-	18	6	4	2,476,376	-	-
Cross level track irreg.(not at joints)	22	0.7	-	22	-	13	7	2	2,354,669	-	1
Deviate frm uniform top of rail profile	4	0.1	-	4	-	2	1	1	664,542	-	-
Disturbed ballast section	3	0.1	-	2	1	1	1	1	64,449	-	-
Superelevation improper, excessive,etc.	5	0.2	-	5	-	4	1	-	389,335	-	-
Trk alignmnt irreg-not buckled/sunkink	17	0.5	-	17	-	10	4	3	3,384,579	-	-
Track alignment irreg(buckled/sunkink)	25	0.8	-	25	-	23	1	1	10,577,894	-	2
Wide gage(defective/missing crossties)	211	6.7	-	211	-	36	113	62	11,657,441	-	1
Wide gage(spikes/other rail fasteners)	29	0.9	-	29	-	7	17	5	1,555,591	-	-
Wide gage(loose,broke, etc, gage rods)	8	0.3	-	8	-	3	5	-	1,017,536	-	-
Wide gage (due to worn rails)	11	0.3	-	11	-	1	6	4	1,470,609	-	-
Other track geometry defects	16	0.5	-	16	-	4	6	6	1,248,829	-	-
Bolt hole crack or break	12	0.4	-	12	-	4	6	2	2,773,147	-	1
Broken base of rail	32	1.0	-	32	-	18	9	5	4,203,473	-	-
Broken weld (field)	5	0.2	-	5	-	5	-	-	1,377,704	-	-
Defective or missing crossties	10	0.3	-	10	-	2	4	4	272,186	-	-
Defect/missing spike-oth rail fastener	4	0.1	-	4	-	1	1	2	223,122	-	-
Detail fracture - shelling/head check	40	1.3	-	40	-	24	12	4	11,265,765	-	6
Engine burn fracture	4	0.1	-	4	-	4	-	-	1,483,787	-	-
Head and web sep(outside jt bar limit)	28	0.9	-	27	1	12	12	4	3,637,500	-	1
Head & web separation-in jt bar limit	5	0.2	-	5	-	2	1	2	546,252	-	-
Horizontal split head	10	0.3	-	10	-	3	7	-	536,243	-	-
Joint bar broken (compromise)	4	0.1	-	4	-	3	1	-	888,652	-	1
Joint bar broken (insulated)	2	0.1	-	2	-	2	-	-	871,498	-	-
Joint bar broken (noninsulated)	5	0.2	-	5	-	4	1	-	3,360,422	-	1
Joint bolts, broken, or missing	2	0.1	-	2	-	1	1	-	1,428,257	-	-
Mismatched rail-head contour	4	0.1	-	4	-	1	3	-	249,328	-	-
Rail defect with joint bar repair	1	0.0	-	1	-	-	1	-	16,500	-	-
Transverse/compound fissure	98	3.1	-	97	1	39	48	11	21,872,801	-	-
Vertical split head	38	1.2	1	37	-	16	18	4	4,556,913	-	-
Worn rail	6	0.2	-	6	-	1	5	-	386,578	-	-
Other rail and joint bar defects	15	0.5	-	15	-	11	2	2	4,447,047	-	-
Derail, defective	1	0.0	-	1	-	-	1	-	337,362	-	-
Expansion joint failed/malfunctioned	1	0.0	-	1	-	1	-	-	38,500	-	-
Guard rail loose/broken or mislocated	1	0.0	-	1	-	-	1	-	36,000	-	-

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
MAJOR CAUSE= Track Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Retarder yard skate defective	2	0.1	-	-	2	-	2	-	56,226	-	-
Spring/power swtch mech. malfunction	2	0.1	-	2	-	-	2	-	38,877	-	-
Stock rail worn, broken, disconnected	7	0.2	-	7	-	2	4	1	330,407	-	-
Switch (hand op) stand mechanism defect	10	0.3	-	10	-	1	8	1	296,529	-	-
Swtch connect/operate rod broke/defect	2	0.1	-	2	-	1	1	-	2,650,710	-	-
Switch damaged or out of adjustment	38	1.2	-	36	2	5	23	10	1,216,473	-	1
Switch lug/crank broken	1	0.0	-	1	-	-	-	1	7,664	-	-
Switch out of adj. insuff. anchoring	4	0.1	-	4	-	-	3	1	172,162	-	-
Switch point worn or broken	75	2.4	-	75	-	12	52	11	3,794,027	-	-
Switch rod worn, bent, broken, etc.	3	0.1	-	3	-	2	1	-	36,762	-	-
Turnout frog (rigid) worn, or broken	2	0.1	-	2	-	-	2	-	63,143	-	-
Turnout frog(self guarded)-worn/broken	1	0.0	-	1	-	-	1	-	7,300	-	-
Turnout frog (spring) worn, or broken	3	0.1	-	3	-	1	2	-	656,542	-	-
Switch pt gap(btw swt pt & stock rail)	18	0.6	-	18	-	4	10	4	668,529	-	-
Oth frog, switch, trk appliance defect	12	0.4	-	12	-	5	5	2	2,088,167	-	-
Bridge misalignment or failure	2	0.1	-	2	-	2	-	-	1,185,187	-	-
Flangeway clogged	7	0.2	-	7	-	-	2	5	149,514	-	-
Engineering design or construction	3	0.1	-	2	1	-	2	1	31,567	-	-
Catenary system defect	19	0.6	-	-	19	18	1	-	417,718	-	-
Other way and structure defect	12	0.4	-	2	10	8	4	-	425,323	-	1
Total	969	30.6	1	927	41	361	437	171	121,308,551	-	21

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
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	5	0.2	-	5	-	5	-	-	971,673	-	-
Obstructed brake pipe	2	0.1	-	2	-	2	-	-	68,305	-	-
Obstructed brake pipe (LOCO)	1	0.0	1	-	-	-	1	-	250,000	-	1
Oth brk component dmg,worn,broke,etc.	4	0.1	-	4	-	2	2	-	455,362	-	-
Brk valve malf. (undesired emergency)	3	0.1	-	3	-	3	-	-	739,859	-	-
Brake valve malf. (stuck brake, etc.)	3	0.1	-	2	1	2	1	-	128,310	-	-
Rigging down or dragging	11	0.3	-	11	-	3	7	1	476,111	-	-
Hand brk broken or defective	3	0.1	1	-	2	-	2	1	109,695	-	-
Hand brake broken or defective (LOCO)	2	0.1	2	-	-	1	1	-	68,206	-	-
Other brake defects, cars	4	0.1	-	2	2	-	2	2	49,192	-	-
Hnd brk link and/or connect defect	1	0.0	-	-	1	-	1	-	9,109	-	-
Oth trailer/container on flt car def	1	0.0	-	-	1	1	-	-	66,000	-	-
Center sill broken or bent	9	0.3	-	8	1	7	1	1	956,254	-	-
Draft sill broken or bent	3	0.1	-	3	-	2	1	-	111,535	-	-
Center plate broken or defective	1	0.0	-	1	-	1	-	-	268,631	-	-
Ctr plate disengaged from truck	2	0.1	-	2	-	1	1	-	415,178	-	-
Center plate disengaged from truck unit/off center (LOCO)	1	0.0	-	1	-	-	1	-	14,647	-	-
Center pin broken or missing	1	0.0	-	1	-	-	1	-	22,150	-	-
Center pin broken or missing (LOCO)	1	0.0	-	-	1	1	-	-	9,200	-	-
Other body defects, (CAR)	6	0.2	-	4	2	2	4	-	109,924	-	-
Other body defects, (LOCO)	1	0.0	-	-	1	1	-	-	0	-	-
Knuckle broken or defective	3	0.1	2	-	1	-	3	-	101,453	-	-
Coupler mismatch, high/low	3	0.1	-	-	3	-	3	-	278,934	-	-
Coupler drawhead broken or defective	1	0.0	1	-	-	-	1	-	10,046	-	-
Coupler retainer pin/cross key missing	15	0.5	1	13	1	13	1	1	1,022,890	-	-
Draft gear/mechanism broke/defective	4	0.1	-	3	1	2	1	1	57,318	-	-
Coupler carrier broken or defective	2	0.1	-	2	-	1	1	-	136,158	-	-
Failure of articulated connectors	1	0.0	-	1	-	-	1	-	16,801	-	-
Oth coupler/draft system defects-car	13	0.4	-	8	5	1	11	1	276,327	-	-
Oth coupler/draft sys defects-loco	1	0.0	-	1	-	-	1	-	9,291	-	-
Side bearing clearance insufficient	9	0.3	-	9	-	1	6	2	745,598	-	-
Side bearing clearance excessive	5	0.2	-	5	-	3	1	1	511,058	-	-
Side bearing(s) missing	2	0.1	-	2	-	1	1	-	95,689	-	-
Side frame broken	3	0.1	-	3	-	2	-	1	2,211,201	-	-
Truck bolster stiff	18	0.6	-	18	-	10	5	3	1,254,099	-	-
Truck bolster stiff (LOCO)	2	0.1	-	2	-	1	-	1	105,000	-	-
Defective snubbing	2	0.1	-	2	-	1	1	-	842,053	-	-
Broken, missing, or defective springs	2	0.1	-	2	-	2	-	-	369,000	-	-
Other truck component defects, (CAR)	5	0.2	-	5	-	3	1	1	497,327	-	-
Truck hunting	6	0.2	-	6	-	6	-	-	1,148,285	-	-
Broken/bent axle between wheel seats	13	0.4	-	12	1	13	-	-	6,449,102	-	-
Broke/bent axle btwn wheel seats-loco	3	0.1	-	3	-	3	-	-	565,420	-	-
Journal (plain) failure from overheating	1	0.0	-	-	1	1	-	-	50,000	-	-
Journal (roller bearing) overheating	27	0.9	-	24	3	26	-	1	6,113,784	-	1
Journal(roller bearing)overheat-LOCO	1	0.0	-	1	-	1	-	-	193,857	-	13

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Journal fractured, new cold break	6	0.2	-	6	-	6	-	-	1,340,531	-	-
Broken flange	10	0.3	-	9	1	9	1	-	1,413,238	-	-
Broken rim	17	0.5	-	16	1	16	1	-	6,790,812	-	-
Broken plate	6	0.2	-	6	-	6	-	-	4,066,425	-	-
Broken plate (LOCO)	1	0.0	-	1	-	1	-	-	106,726	-	-
Broken hub	2	0.1	-	2	-	2	-	-	650,068	-	-
Worn Flange	9	0.3	-	9	-	1	7	1	500,231	-	-
Worn flange (LOCO)	3	0.1	-	3	-	1	2	-	29,341	-	-
Worn tread	3	0.1	-	3	-	2	1	-	128,743	-	-
Damaged flange or tread (flat)	1	0.0	-	1	-	-	1	-	22,250	-	-
Damaged flange or tread (build up)	9	0.3	-	9	-	8	-	1	362,852	-	-
Damaged flange/tread(build up) (LOCO)	1	0.0	-	1	-	1	-	-	14,980	-	-
Loose wheel	2	0.1	-	2	-	1	1	-	285,157	-	-
Other wheel defects (CAR)	4	0.1	-	4	-	1	3	-	263,744	-	-
Other wheel defects (LOCO)	2	0.1	-	1	1	2	-	-	1,042,881	-	2
Thermal crack, flange or tread	1	0.0	-	1	-	1	-	-	89,275	-	-
Traction motor failure (LOCO)	4	0.1	-	1	3	3	1	-	144,284	-	-
Crank case or air box explosion (LOCO)	1	0.0	-	-	1	-	-	1	161,000	-	-
Oil or fuel fire (LOCO)	1	0.0	-	-	1	1	-	-	41,296	-	-
Electrically caused fire (LOCO)	20	0.6	-	-	20	13	7	-	568,988	-	3
Current collector system (LOCO)	5	0.2	-	-	5	4	1	-	166,714	-	-
Remote control equip inoperative (LOCO)	1	0.0	-	1	-	1	-	-	210,776	-	-
Pantograph defect (LOCO)	15	0.5	-	-	15	14	1	-	322,676	-	-
Other LOCO defects	13	0.4	-	3	10	10	3	-	3,030,849	-	-
Box car plug door,attachment defective	1	0.0	-	-	1	1	-	-	373,208	-	-
Bottom outlet car door open	3	0.1	-	3	-	3	-	-	44,387	-	-
Bottom outlet door attachment defect	4	0.1	-	4	-	2	2	-	98,797	-	-
Other car door defects	1	0.0	-	-	1	1	-	-	11,700	-	-
Other mechanical/electrical failures	5	0.2	-	1	4	4	1	-	66,326	-	-
Other mechanical/electrical fail(LOCO)	2	0.1	-	-	2	2	-	-	35,002	-	-
Total	360	11.4	8	258	94	242	97	21	50,743,289	-	20

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2003
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	23	0.7	-	20	-	3	6	9	8	2,115,287	-	2
Extreme environmental - TORNADO	3	0.1	-	2	-	1	1	2	-	145,543	-	-
Extreme environmental - FLOOD	5	0.2	-	3	-	2	3	2	-	467,601	-	2
Extreme wind velocity	14	0.4	-	8	-	6	8	6	-	6,113,716	-	-
Other extreme environmental conditions	3	0.1	-	2	-	1	1	2	-	50,405	-	-
Load shifted	13	0.4	2	9	-	2	5	6	2	1,722,243	-	-
Load fell from car	4	0.1	-	2	-	2	4	-	-	272,117	-	-
Overloaded car	6	0.2	-	4	-	2	2	3	1	193,846	-	-
Improperly loaded car	17	0.5	-	17	-	-	12	3	2	1,588,209	-	-
Trailer/container tiedown eqp improper	1	0.0	-	1	-	-	1	-	-	83,302	-	-
Miscellaneous loading procedures	7	0.2	1	4	-	2	6	1	-	576,767	-	-
Hwy user impairment-drug/alcohol use	1	0.0	-	-	1	-	1	-	-	10,500	-	-
Highway user inattentiveness	77	2.4	-	-	77	-	73	2	2	7,734,931	29	107
Hwy user misjudgement	21	0.7	-	-	21	-	21	-	-	678,205	4	24
Highway user cited for violation	41	1.3	-	-	41	-	38	1	2	4,167,232	1	20
Highway user deliberately disregarded crossing warning devices	9	0.3	-	-	9	-	9	-	-	1,389,869	3	6
Other causes (highway-rail collisions)	29	0.9	-	-	29	-	29	-	-	1,855,295	7	7
Emergency brke appl. to avoid accident	1	0.0	-	1	-	-	1	-	-	58,396	-	-
Object/equipment (mtr veh) on track	21	0.7	-	1	-	20	16	4	1	548,449	1	1
Livestock on track	1	0.0	-	-	-	1	1	-	-	11,652	-	-
Obj/equip on/fouling track, other	32	1.0	1	14	-	17	14	12	6	1,582,335	-	7
Harmonic rock off, etc.	69	2.2	-	67	-	2	31	34	4	10,467,065	-	-
Fire, other than vandalism	10	0.3	-	-	-	10	8	1	1	3,469,894	-	-
Auto hump retarder failed to slow car	24	0.8	3	3	-	18	-	24	-	677,626	-	1
Yard skate slid and failed to stop car	27	0.9	4	4	-	19	-	27	-	489,706	-	-
Lading chains/straps fouling switches	6	0.2	-	5	-	1	-	6	-	145,462	-	-
Lading chains or straps fouling wheels	1	0.0	-	1	-	-	-	1	-	13,360	-	-
Passed couplers (automated classification yard)	5	0.2	-	3	-	2	-	5	-	63,407	-	-
Interference(not vandals)with RR op.	16	0.5	-	9	-	7	6	4	6	778,387	1	3
Vandalism of on-track equipment	14	0.4	-	7	-	7	1	12	1	710,008	-	2
Vandalism of track or track appliances	26	0.8	-	24	-	2	7	16	3	2,650,176	-	4
Fail by non-rr empto control spd of car	8	0.3	-	3	-	5	4	1	3	469,261	-	3
Track damage caused by non-railroad interference with track structure	2	0.1	-	2	-	-	-	1	1	57,700	-	1
Investigation complete, cause could not be determined	8	0.3	-	5	-	3	7	1	-	3,121,471	-	-
Other miscellaneous causes	24	0.8	1	16	-	7	2	17	5	1,035,567	-	-
Total	569	17.9	12	237	178	142	318	203	48	55,514,990	46	190

TABLE 5-10 TRAIN ACCIDENTS BY TYPE TRACK AND CLASS, 2003

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	169	5.3	4	143	1	21	11,245,978	-	5	19	1	46	15	1	87
	2	212	6.7	4	178	4	26	26,485,766	1	20	38	4	41	38	1	90
	3	235	7.4	8	147	25	55	49,348,828	2	45	60	25	37	33	1	79
	4	393	12.4	20	184	113	76	104,808,826	39	243	91	113	66	45	-	78
	5	89	2.8	2	47	27	13	29,882,643	5	16	22	27	16	11	1	12
	6	11	0.3	-	1	1	9	438,943	-	14	7	1	-	2	-	1
	?	8	0.3	-	-	-	8	5,138,200	1	-	5	-	-	2	-	1
	X	16	0.5	-	14	-	2	729,058	-	-	-	-	2	1	-	13
	-Sub	1,133	35.7	38	714	171	210	228,078,242	48	343	242	171	208	147	4	361
Yard	1	1,488	46.9	123	982	2	381	54,264,201	-	31	87	2	782	178	44	395
	2	98	3.1	19	61	1	17	3,970,334	-	5	5	1	48	14	9	21
	3	10	0.3	1	6	-	3	536,959	-	3	3	-	4	1	-	2
	4	1	0.0	-	1	-	-	33,950	-	-	-	-	1	-	-	-
	5	1	0.0	-	-	-	1	7,580	-	-	-	-	-	1	-	-
	?	2	0.1	-	1	-	1	187,800	-	-	1	-	-	-	-	1
	X	51	1.6	6	37	-	8	1,307,102	-	1	1	-	25	6	1	18
	-Sub	1,651	52.1	149	1,088	3	411	60,307,926	-	40	97	3	860	200	54	437
Siding	1	63	2.0	1	55	-	7	2,672,057	-	1	5	-	22	6	-	30
	2	17	0.5	1	12	-	4	1,336,462	-	-	-	-	9	2	-	6
	3	5	0.2	-	4	-	1	431,483	-	-	1	-	3	1	-	-
	4	2	0.1	-	1	1	-	295,024	-	-	1	1	-	-	-	-
	5	1	0.0	-	1	-	-	274,817	-	-	1	-	-	-	-	-
	X	7	0.2	-	6	-	1	174,896	-	-	1	-	2	-	-	4
	-Sub	95	3.0	2	79	1	13	5,184,739	-	1	9	1	36	9	-	40
Industry	1	228	7.2	7	178	1	42	6,202,323	-	2	7	1	91	28	-	101
	2	9	0.3	-	9	-	-	908,926	-	-	1	-	1	1	-	6
	4	1	0.0	-	1	-	-	7,530	-	-	-	-	-	-	-	1
	X	31	1.0	-	27	-	4	630,356	-	-	1	-	10	5	-	15
	-Sub	269	8.5	7	215	1	46	7,749,135	-	2	9	1	102	34	-	123
Other	?	22	0.7	2	17	2	1	5,020,217	-	5	3	2	8	1	-	8
	-Sub	22	0.7	2	17	2	1	5,020,217	-	5	3	2	8	1	-	8
Total		3,170	100	198	2,113	178	681	306,340,259	48	391	360	178	1,214	391	58	969

TABLE 5-11 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST SPEED, 2003

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	?	32	1.0	-	5	1	26	4,640,364	1	-	14	1	5	9	-	3	
	1 - 9	218	6.9	5	185	2	26	13,488,003	1	16	28	2	80	18	1	89	
	10-19	225	7.1	16	172	7	30	26,875,596	-	37	37	7	56	26	1	98	
	20-29	195	6.2	10	154	7	24	42,346,553	-	25	46	7	31	40	2	69	
	30-39	134	4.2	3	75	34	22	45,404,674	6	29	37	34	12	15	-	36	
	40-49	154	4.9	3	82	45	24	52,113,684	10	44	44	45	16	16	-	33	
	50-59	72	2.3	1	28	32	11	19,944,496	7	28	15	32	3	8	-	14	
	60-69	46	1.5	-	10	14	22	14,438,532	4	75	10	14	4	7	-	11	
	>= 70	57	1.8	-	3	29	25	8,826,340	19	89	11	29	1	8	-	8	
	-Sub	1,133	35.7	38	714	171	210	228,078,242	48	343	242	171	208	147	4	361	
Yard	?	32	1.0	1	6	-	25	1,778,253	-	3	9	-	9	12	1	1	
	1 - 9	1,402	44.2	117	944	2	339	47,433,523	-	17	72	2	747	162	41	378	
	10-19	209	6.6	29	136	-	44	10,244,658	-	19	16	-	101	25	10	57	
	20-29	8	0.3	2	2	1	3	851,492	-	1	-	1	3	1	2	1	
	-Sub	1,651	52.1	149	1,088	3	411	60,307,926	-	40	97	3	860	200	54	437	
Siding	?	2	0.1	-	-	-	2	55,961	-	-	-	-	1	1	-	-	
	1 - 9	67	2.1	1	60	-	6	2,618,019	-	-	7	-	27	4	-	29	
	10-19	18	0.6	1	15	-	2	1,986,991	-	1	1	-	4	3	-	10	
	20-29	6	0.2	-	4	-	2	497,268	-	-	1	-	3	1	-	1	
	30-39	2	0.1	-	-	1	1	26,500	-	-	-	1	1	-	-	-	
	-Sub	95	3.0	2	79	1	13	5,184,739	-	1	9	1	36	9	-	40	
Industry	?	4	0.1	-	2	-	2	46,743	-	-	-	-	1	2	-	1	
	1 - 9	245	7.7	6	196	1	42	6,863,822	-	2	9	1	91	31	-	113	
	10-19	20	0.6	1	17	-	2	838,570	-	-	-	-	10	1	-	9	
	-Sub	269	8.5	7	215	1	46	7,749,135	-	2	9	1	102	34	-	123	
Other	1 - 9	11	0.3	1	10	-	-	369,640	-	-	-	-	4	1	-	6	
	10-19	4	0.1	-	3	-	1	269,006	-	-	2	-	-	-	-	2	
	20-29	2	0.1	-	2	-	-	550,061	-	-	-	-	2	-	-	-	
	40-49	3	0.1	-	2	1	-	1,206,902	-	-	1	1	1	-	-	-	
	50-59	2	0.1	1	-	1	-	2,624,608	-	5	-	1	1	-	-	-	
	-Sub	22	0.7	2	17	2	1	5,020,217	-	5	3	2	8	1	-	8	
Total		3,170	100	198	2,113	178	681	306,340,259	48	391	360	178	1,214	391	58	969	

TABLE 5-12 TRAIN ACCIDENTS BY WEATHER CONDITION, 2003

Conditions		Total		Type of Accident				Reportable	Casualties		Causes					
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Dawn	Clear	66	2.1	1	48	2	15	7,132,921	-	2	11	2	19	8	2	24
	Cloudy	31	1.0	4	22	1	4	3,296,710	-	-	5	1	12	4	-	9
	Rain	7	0.2	1	4	-	2	312,134	-	-	1	-	2	1	-	3
	Fog	4	0.1	-	2	1	1	546,493	-	-	-	1	2	-	-	1
	Snow	5	0.2	-	2	-	3	224,089	-	-	1	-	2	1	-	1
	-- Sub	113	3.6	6	78	4	25	11,512,347	-	2	18	4	37	14	2	38
Day	Clear	1,139	35.9	59	746	114	220	109,437,891	30	250	120	114	372	143	26	364
	Cloudy	301	9.5	20	194	27	60	27,697,423	5	29	41	27	102	34	4	93
	Rain	97	3.1	4	64	3	26	10,579,988	-	8	8	3	33	16	1	36
	Fog	12	0.4	1	4	4	3	1,495,100	2	3	2	4	3	-	-	3
	Snow	16	0.5	-	12	2	2	1,098,914	2	1	5	2	4	1	-	4
	-- Sub	1,565	49.4	84	1,020	150	311	150,309,316	39	291	176	150	514	194	31	500
Dusk	Clear	96	3.0	4	69	2	21	6,615,008	1	3	14	2	39	12	-	29
	Cloudy	43	1.4	4	28	1	10	3,936,513	-	2	3	1	18	5	-	16
	Rain	19	0.6	2	12	-	5	908,146	-	-	2	-	7	2	3	5
	Sleet	1	0.0	-	-	-	1	9,927	-	-	-	-	-	-	-	1
	-- Sub	159	5.0	10	109	3	37	11,469,594	1	5	19	3	64	19	3	51
Dark	Clear	787	24.8	58	522	15	192	67,916,224	7	51	83	15	370	97	14	208
	Cloudy	345	10.9	27	248	1	69	44,896,637	1	23	37	1	151	35	6	115
	Rain	125	3.9	9	83	4	29	10,100,482	-	7	17	4	49	20	2	33
	Fog	25	0.8	2	14	1	8	1,957,390	-	-	1	1	13	3	-	7
	Sleet	6	0.2	-	5	-	1	339,354	-	-	2	-	1	1	-	2
	Snow	45	1.4	2	34	-	9	7,838,915	-	12	7	-	15	8	-	15
	-- Sub	1,333	42.1	98	906	21	308	133,049,002	8	93	147	21	599	164	22	380
Total		3,170	100	198	2,113	178	681	306,340,259	48	391	360	178	1,214	391	58	969

TABLE 5-13 TRAIN ACCIDENTS BY CONSIST LENGTH, 2003

Length	Consists		Type of Accident				Equipment Damage		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Eqp	HRC	Hmn	Othr	Sig	Trk	
1	233	6.3	55	47	3	128	4,521,964	2.2	13	3	137	48	24		8
2-5	420	11.3	63	155	22	180	9,912,417	4.9	26	22	238	47	18		69
6-10	341	9.2	14	149	15	163	16,524,336	8.1	57	15	139	48	3		79
11-15	201	5.4	17	121	11	52	4,874,675	2.4	7	11	103	22	1		57
16-20	186	5.0	17	123	4	42	5,335,457	2.6	11	4	98	24	4		45
21-25	145	3.9	10	96	6	33	3,726,326	1.8	6	6	63	20	4		46
26-30	181	4.9	22	119	4	36	5,009,467	2.5	10	4	86	17	7		57
31-35	158	4.3	13	108	8	29	5,630,613	2.8	8	8	73	10	3		56
36-40	141	3.8	19	87	5	30	4,479,567	2.2	11	5	63	18	5		39
41-45	126	3.4	10	82	11	23	4,260,812	2.1	4	11	50	22	2		37
46-50	118	3.2	10	79	10	19	5,153,217	2.5	6	10	43	19	2		38
51-60	220	5.9	27	149	9	35	7,674,295	3.8	28	9	87	26	2		68
61-70	211	5.7	22	149	16	24	14,484,455	7.1	21	16	74	23	2		75
71-80	176	4.8	16	133	12	15	13,414,819	6.6	16	12	70	18	1		59
81-90	149	4.0	16	110	9	14	12,260,222	6.0	20	9	52	19	2		47
91-100	165	4.5	14	122	11	18	17,647,981	8.6	27	11	46	18	2		61
101-110	173	4.7	11	140	11	11	20,048,925	9.8	34	11	45	19	1		63
111-120	139	3.8	5	108	6	20	16,504,847	8.1	22	6	43	15	1		52
121-130	111	3.0	9	87	2	13	18,443,874	9.0	27	2	36	10	2		34
131-140	62	1.7	5	47	3	7	10,665,105	5.2	15	3	19	7	-		18
141-150	22	0.6	1	21	-	-	1,874,334	0.9	2	-	9	3	-		8
>= 151	25	0.7	3	20	-	2	1,688,238	0.8	2	-	14	2	-		7
Total	3,703	100	379	2,252	178	894	204,135,946	100.0	373	178	1,588	455	86		1,023

TABLE 5-14 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST, 2003

Track	- Equipment	Consists		Avg Len.	Type of Accident					Primary Cause					
		Cnt	%		Coll	Der	HRC	Othr	Eqp	HRC	Hmn	Othr	Sig	Trk	
Main	Freight Train	907	24.5	77	27	626	119	67	180	119	136	97	3	304	
	Psgr Train	144	3.9	9	1	9	19	85	35	19	6	25	1	28	
	Commuter Train	33	0.9	7	-	6	9	14	10	9	3	1	-	6	
	Work Train	5	0.1	32	-	4	1	-	-	1	1	1	-	2	
	Single Car	8	0.2	1	-	2	1	1	-	1	2	1	-	-	
	Cut of Cars	14	0.4	18	1	2	-	5	-	-	5	2	-	1	
	Yard/ Switch	42	1.1	45	2	30	1	2	4	1	19	6	-	5	
	Light loco(s)	25	0.7	2	2	7	2	8	2	2	12	1	-	2	
	Maint/ Insp car	30	0.8	1	3	2	1	15	1	1	15	3	-	1	
	Spec MOW Eqp	7	0.2	1	2	-	-	-	-	-	1	1	-	-	
	-Sub total	1,215	32.8	61	38	688	153	197	232	153	200	138	4	349	
Yard	Freight Train	489	13.2	68	23	324	1	51	24	1	180	25	2	167	
	Psgr Train	22	0.6	7	-	5	-	14	7	-	6	2	1	3	
	Commuter Train	11	0.3	7	1	4	-	2	2	-	2	1	-	2	
	Work Train	8	0.2	34	-	5	-	1	-	-	2	-	-	4	
	Single Car	111	3.0	1	7	12	-	47	4	-	20	24	16	2	
	Cut of Cars	233	6.3	22	12	49	-	93	5	-	90	40	9	10	
	Yard/ Switch	1,050	28.4	39	80	586	2	177	49	2	456	103	26	209	
	Light loco(s)	140	3.8	2	26	50	-	19	4	-	71	2	-	18	
	Maint/ Insp car	1	0.0	1	-	-	-	-	-	-	-	-	-	-	
	Spec MOW Eqp	2	0.1	1	-	-	-	1	-	-	1	-	-	-	
	-Sub total	2,067	55.8	39	149	1,035	3	405	95	3	828	197	54	415	
Siding	Freight Train	76	2.1	56	2	64	-	5	7	-	25	6	-	33	
	Psgr Train	1	0.0	7	-	-	-	-	-	-	-	-	-	-	
	Work Train	3	0.1	37	-	3	-	-	-	-	1	1	-	1	
	Cut of Cars	4	0.1	40	-	1	-	2	-	-	1	1	-	1	
	Yard/ Switch	13	0.4	47	-	8	-	3	1	-	6	1	-	3	
	Light loco(s)	2	0.1	1	-	-	-	1	-	-	1	-	-	-	
	Maint/ Insp car	9	0.2	1	-	-	-	2	-	-	2	-	-	-	
	-Sub total	108	2.9	48	2	76	-	13	8	-	36	9	-	38	
Industry	Freight Train	124	3.3	53	2	97	1	20	5	1	43	12	-	59	
	Work Train	1	0.0	27	-	1	-	-	-	-	-	-	-	1	
	Single Car	8	0.2	1	-	1	-	1	-	-	1	1	-	-	
	Cut of Cars	10	0.3	7	-	6	-	2	-	-	3	3	-	2	
	Yard/ Switch	134	3.6	25	4	102	-	21	2	-	51	18	-	56	
	Light loco(s)	9	0.2	2	1	5	-	1	-	-	4	-	-	3	
	Maint/ Insp car	1	0.0	1	-	-	-	1	1	-	-	-	-	-	
	-Sub total	287	7.8	35	7	212	1	46	8	1	102	34	-	121	
Other	Freight Train	16	0.4	89	1	10	2	1	3	2	5	-	-	4	
	Cut of Cars	1	0.0	7	-	-	-	-	-	-	-	-	-	-	
	Yard/ Switch	9	0.2	48	1	7	-	-	-	-	3	1	-	4	
	-Sub total	26	0.7	72	2	17	2	1	3	2	8	1	-	8	
Total		3,703	100	46	198	2,028	159	662	346	159	1,174	379	58	931	

TABLE 5-15 TRAIN ACCIDENTS BY CONSIST LENGTH AND TYPE CONSIST, 2003

Length	Freight Train	Psgr Train	Commuter Train	Work Train	Single Car	Cut of Cars	Yard/ Switch	Light loco(s)	Maint/ Insp car	Spec MOW Eqp
1	-	1	-	-	125	-	1	59	38	9
2-5	23	38	20	3	1	97	134	101	3	-
6-10	43	102	21	1	-	45	113	16	-	-
11-15	56	12	3	-	-	21	109	-	-	-
16-20	50	7	-	3	1	13	112	-	-	-
21-25	50	3	-	-	-	11	81	-	-	-
26-30	72	-	-	3	-	10	96	-	-	-
31-35	64	3	-	1	-	7	83	-	-	-
36-40	55	1	-	-	-	10	75	-	-	-
41-45	66	-	-	-	-	5	55	-	-	-
46-50	68	-	-	1	-	4	45	-	-	-
51-60	110	-	-	1	-	14	95	-	-	-
61-70	141	-	-	2	-	7	61	-	-	-
71-80	134	-	-	2	-	2	38	-	-	-
81-90	116	-	-	-	-	4	29	-	-	-
91-100	129	-	-	-	-	2	34	-	-	-
101-110	141	-	-	-	-	4	28	-	-	-
111-120	110	-	-	-	-	4	25	-	-	-
121-130	95	-	-	-	-	2	14	-	-	-
131-140	51	-	-	-	-	-	11	-	-	-
141-150	17	-	-	-	-	-	5	-	-	-
>= 151	21	-	-	-	-	-	4	-	-	-
Total	1,612	167	44	17	127	262	1,248	176	41	9

TABLE 5-16 INVOLVEMENT IN TRAIN ACCIDENTS BY TYPE CONSIST, 2003

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	1,567	44.6	81	1,194	126	166	880	475	74	124	14	224	126	454	152	5	606
Psgr Train	163	4.6	2	20	34	107	140	22	1	-	-	45	34	13	32	2	37
Commuter Train	41	1.2	2	12	10	17	31	10	-	-	-	13	10	7	2	-	9
Work Train	17	0.5	-	15	1	1	5	8	3	1	-	-	1	5	2	-	9
Single Car	114	3.2	15	25	1	73	8	98	-	8	-	6	1	49	34	21	3
Cut of Cars	250	7.1	21	90	-	139	14	221	4	10	1	8	-	154	54	13	21
Yard/ Switch	1,166	33.2	117	780	3	266	41	971	13	133	8	60	3	622	148	34	299
Light loco(s)	161	4.6	43	72	2	44	24	127	2	8	-	7	2	120	4	-	28
Maint/ Insp car	29	0.8	4	3	1	21	24	1	3	1	-	2	1	20	5	-	1
Spec MOW Eqp	4	0.1	2	-	-	2	2	2	-	-	-	-	-	3	1	-	-
Total	3,512	100	287	2,211	178	836	1,169	1,935	100	285	23	365	178	1,447	434	75	1,013

TABLE 5-17 DAMAGE BY TRACK TYPE, 2003

Track	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Main	228,078,242	169,449	153,046,884	113,705	75,031,358	55,744
Yard	60,307,926	28,024	40,161,910	18,663	20,146,016	9,362
Siding	5,184,739	45,085	2,338,187	20,332	2,846,552	24,753
Industry	7,749,135	26,448	5,324,935	18,174	2,424,200	8,274
Other	5,020,217	114,096	3,264,030	74,183	1,756,187	39,913
Total	306,340,259	77,554	204,135,946	51,680	102,204,313	25,875

TABLE 5-18 DAMAGE BY CONSIST TYPE, 2003

Type Equipment	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Freight Train	228,433,955	141,708	151,168,753	93,777	77,265,202	47,931
Psgr Train	11,348,031	67,952	11,080,948	66,353	267,083	1,599
Commuter Train	9,241,055	210,024	7,900,868	179,565	1,340,187	30,459
Work Train	568,458	33,439	307,404	18,083	261,054	15,356
Single Car	1,363,280	10,734	1,334,179	10,505	29,101	229
Cut of Cars	5,947,480	22,700	5,366,953	20,485	580,527	2,216
Yard/ Switch	35,630,104	28,550	21,894,214	17,543	13,735,890	11,006
Light loco(s)	3,685,061	20,938	2,827,145	16,063	857,916	4,875
Maint/ Insp car	2,461,788	60,044	2,078,483	50,695	383,305	9,349
Spec MOW Eqp	176,999	19,667	176,999	19,667	0	0
Other	7,484,048	30,300	0	0	7,484,048	30,300
Total	306,340,259	77,554	204,135,946	51,680	102,204,313	25,875

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 1998 the threshold was \$6,600, and in 2003 it was \$6,700.

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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TABLE 6-1 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD, 2003

Railroad	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Alton & Southern	2	2	-	163	28	3	-	-	-
Alaska RR Corp.	1	1	-	54	54	1	-	-	-
Burlington Northern Santa Fe	267	124	4	16,956	2,759	317	6	4	188
Belt Rwy Of Chicago	3	1	-	243	10	2	-	-	-
Conrail Shared Assets	11	2	-	410	102	5	-	-	-
CSX Transportation	147	65	5	9,583	1,405	163	7	2	190
Delaware & Hudson	1	1	-	91	4	4	-	-	-
Dakota, Minnesota & Eastern	2	1	-	126	3	1	-	-	-
Duluth, Missabe & Iron Range	1	-	-	105	3	-	-	-	-
Duluth, Winnipeg & Pacific	1	1	-	2	1	1	-	-	-
Florida East Coast	1	1	1	52	6	3	1	1	17
Guilford Rail System	3	2	-	147	20	13	-	-	-
Grand Trunk Western RR	9	5	-	473	60	14	-	-	-
Illinois Central	23	12	2	1,696	282	36	8	1	800
Iowa Chicago & Eastern RR	10	4	-	522	81	6	-	-	-
Indiana Harbor Belt	3	1	-	188	18	1	-	-	-
Kansas City Southern	38	19	1	1,801	321	44	1	1	3
Montana Rail Link	4	1	-	276	53	3	-	-	-
Norfolk Southern Corp.	40	15	4	2,385	385	57	4	1	250
Port Terminal RR Assn	6	5	-	211	19	6	-	-	-
Soo Line	11	1	1	628	67	3	1	1	2
Term RR Assn Of St. Louis	1	-	-	29	2	-	-	-	-
Union Pacific	150	91	8	9,617	1,766	285	9	-	-
Wisconsin Central Ltd.	8	2	-	530	145	3	-	-	-
Wheeling & Lake Erie	4	3	-	111	38	11	-	-	-
Wisconsin & Southern RR	1	-	-	81	1	-	-	-	-
Other Railroads	47	30	1	1,886	412	75	1	3	810
Total	795	390	27	48,366	8,045	1,057	38	14	2,260

TABLE 6-2 CONSISTS TRANSPORTING HAZMAT, BY STATE, 2003

States	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Alabama	20	12	1	1,579	197	39	3	-	-
Alaska	1	1	-	54	54	1	-	-	-
Arizona	12	8	-	850	220	35	-	-	-
Arkansas	17	10	1	922	100	19	1	-	-
California	47	27	1	2,554	613	73	1	1	10
Colorado	12	5	1	861	215	7	1	-	-
Delaware	3	2	1	88	44	11	1	1	250
Florida	11	5	1	517	53	18	1	1	17
Georgia	19	10	1	1,108	164	26	1	1	150
Idaho	5	2	-	373	104	11	-	-	-
Illinois	68	31	2	4,549	456	56	8	1	800
Indiana	18	7	1	1,349	158	15	1	-	-
Iowa	17	5	1	1,164	174	7	1	-	-
Kansas	28	16	1	1,888	240	36	2	2	155
Kentucky	9	4	-	464	58	6	-	1	40
Louisiana	28	19	2	1,813	439	86	3	-	-
Maine	2	1	-	102	6	4	-	-	-
Maryland	7	5	-	528	84	7	-	-	-
Massachusetts	2	1	-	128	25	9	-	-	-
Michigan	11	6	-	650	142	26	-	-	-
Minnesota	24	6	1	1,426	109	12	1	1	2
Mississippi	12	6	-	737	122	20	-	1	3
Missouri	30	11	1	2,113	250	24	1	-	-
Montana	9	3	-	632	110	5	-	-	-
Nebraska	22	12	-	1,373	224	24	-	-	-
Nevada	1	1	1	43	22	9	1	-	-
New Jersey	9	3	-	511	111	5	-	-	-
New Mexico	13	9	-	623	99	47	-	-	-
New York	13	7	-	884	140	26	-	-	-
North Carolina	10	4	-	493	80	5	-	-	-
North Dakota	3	1	-	186	11	1	-	-	-
Ohio	36	13	-	2,082	344	44	-	-	-
Oklahoma	21	9	-	1,483	197	48	-	-	-
Oregon	9	3	-	485	40	7	-	-	-
Pennsylvania	29	11	-	1,553	240	24	-	-	-
South Carolina	3	-	-	137	33	-	-	-	-
South Dakota	1	-	-	87	2	-	-	-	-
Tennessee	30	11	1	1,346	190	15	1	1	700
Texas	118	74	6	6,777	1,449	172	7	3	133
Utah	5	2	-	288	106	6	-	-	-
Vermont	1	1	-	80	3	3	-	-	-
Virginia	6	5	3	487	107	26	3	-	-
Washington	28	12	-	1,436	240	28	-	-	-
West Virginia	3	-	-	168	16	-	-	-	-
Wisconsin	14	4	-	851	175	5	-	-	-
Wyoming	8	5	-	544	79	9	-	-	-
Total	795	390	27	48,366	8,045	1,057	38	14	2,260

TABLE 6-3 CONSISTS TRANSPORTING HAZMAT, BY SUBCAUSE, 2003

Causes	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Brakes	12	3	1	875	162	15	1	-	-
Body	4	1	-	429	44	1	-	-	-
Coupler & Draft System	10	6	1	734	95	8	1	-	-
Truck Components	21	11	2	1,370	237	29	2	1	2
Axles & Journal Bearings	16	5	2	1,305	238	17	4	1	17
Wheels	18	8	1	1,375	170	33	1	-	-
Doors	1	1	1	85	1	1	1	-	-
Brakes, Use of	37	23	1	1,070	156	29	1	-	-
Employee Physical Condition	1	-	-	107	3	-	-	-	-
Flagging, Fixed, Hand & Radio	15	7	-	885	126	17	-	1	60
General Switching Rules	114	70	2	4,934	899	154	3	1	8
Main Track Authority	11	1	-	568	78	2	-	-	-
Train Handling/Makeup	64	29	3	5,654	732	56	3	-	-
Speed	17	8	-	776	227	15	-	-	-
Switches, Use of	74	33	-	3,963	657	54	-	1	10
Miscellaneous Human Factors	16	7	-	1,045	244	25	-	1	25
Environmental Conditions	9	5	1	564	85	12	2	1	95
Loading Procedures	15	1	-	1,190	172	1	-	1	700
Highway-Rail Incidents	35	4	-	2,218	388	21	-	-	-
Unusual Operational Situations	44	24	1	2,726	371	60	1	-	-
Other Miscellaneous Causes	21	10	-	1,130	159	32	-	-	-
Signal Defects	13	7	-	600	172	37	-	-	-
Roadbed	9	5	-	476	118	20	-	-	-
Track Geometry	89	48	1	5,706	986	182	2	-	-
Rail, Joint Bar & Anchors	82	49	8	5,618	960	173	14	4	1,300
Frogs, Switches, Appliances	45	24	2	2,801	497	63	2	2	43
Other Track Defects	2	-	-	162	68	-	-	-	-
Total	795	390	27	48,366	8,045	1,057	38	14	2,260

TABLE 6-4 CONSISTS TRANSPORTING HAZMAT, BY ACCIDENT TYPE, 2003

Type Accident	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Derailments	529	273	26	35,869	5,822	809	37	13	2,200
Head on collision	5	1	-	314	31	1	-	-	-
Rear end collision	9	2	-	647	121	5	-	-	-
Side collision	45	13	1	2,181	334	20	1	1	60
Raking collision	22	15	-	930	159	33	-	-	-
Broken train coll.	1	1	-	75	12	1	-	-	-
Highway-rail Impact	35	4	-	2,218	388	21	-	-	-
Obstruction impact	13	-	-	972	230	-	-	-	-
Fire/violent rupture	1	-	-	93	30	-	-	-	-
Other impacts	123	78	-	4,422	758	160	-	-	-
Other events	12	3	-	645	160	7	-	-	-
Total	795	390	27	48,366	8,045	1,057	38	14	2,260

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 1998 was \$6,600, and in 2003 it was \$6,700.

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 highway-rail 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, 2003

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
Alaska RR Corp.	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Amtrak	150	52	124	115	35	87	15	9	5	17	6	32	3	2	-
Burlington Northern Santa Fe	407	55	162	315	40	130	31	8	12	59	7	20	2	-	-
Conrail Shared Assets	28	1	9	24	1	9	-	-	-	4	-	-	-	-	-
CSX Transportation	539	52	159	449	34	133	33	16	10	53	1	16	4	1	-
Delaware & Hudson	3	-	2	2	-	1	-	-	-	1	-	1	-	-	-
Dakota,Minnesota & Eastern	8	1	-	6	1	-	1	-	-	-	-	-	1	-	-
Duluth,Missabe & Iron Range	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Duluth,Winnipeg & Pacific	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	4	-	1	-	-	-	-	-	-	3	-	1	1	-	-
Florida East Coast	20	2	11	17	2	10	2	-	1	1	-	-	-	-	-
Guilford Rail System	10	1	2	9	-	2	-	-	-	1	1	-	-	-	-
Grand Trunk Western RR	36	1	8	33	-	7	1	1	-	2	-	1	-	-	-
Illinois Central	102	6	27	89	4	27	2	2	-	11	-	-	-	-	-
Iowa Chicago & Eastern RR	20	3	14	18	3	14	1	-	-	1	-	-	-	-	-
Indiana Harbor Belt	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-
Kansas City Southern	111	10	31	99	10	30	-	-	-	9	-	-	3	-	1
Long Island Rail Road	5	2	-	3	-	-	2	2	-	-	-	-	-	-	-
MD Assn. of Rail Comm	2	-	1	2	-	1	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	6	-	2	6	-	2	-	-	-	-	-	-	-	-	-
Montreal, Maine & Atlantic	1	-	1	-	-	-	-	-	-	1	-	1	-	-	-
Metro North Commuter	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-
Montana Rail Link	12	1	4	7	-	2	-	-	-	5	1	2	-	-	-
Northern IN Comm Trans	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	28	7	19	25	6	17	3	1	2	-	-	-	-	-	-
New Jersey Transit Rail	10	2	2	7	1	-	3	1	2	-	-	-	-	-	-
Norfolk Southern Corp.	489	41	121	393	34	97	22	4	5	70	3	16	4	-	3
Paducah & Louisville	5	-	3	5	-	3	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	6	1	-	5	-	-	1	1	-	-	-	-	-	-	-
Port Terminal RR Assn	7	-	1	6	-	1	-	-	-	1	-	-	-	-	-
Southern CA Reg Rail Auth.	17	9	26	16	9	25	1	-	1	-	-	-	-	-	-
Southeastern PA Trans.	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Soo Line	36	3	14	30	2	12	-	-	-	6	1	2	-	-	-
Term RR Assn Of St. Louis	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Union Pacific	494	70	171	418	49	158	22	11	3	53	10	10	1	-	-
Wisconsin Central Ltd.	51	2	16	45	1	15	2	1	1	4	-	-	-	-	-
Wheeling & Lake Erie	19	-	9	17	-	9	1	-	-	1	-	-	-	-	-
Wisconsin & Southern RR	6	-	2	6	-	2	-	-	-	-	-	-	-	-	-
Other Railroads	326	11	83	278	9	77	5	2	2	42	-	4	1	-	-
Total	2,974	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-2 TOTAL HIGHWAY-RAIL INCIDENTS BY STATE, 2003

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	91	10	38	81	10	37	2	-	-	7	-	-	1	-	1
Alaska	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Arizona	39	7	3	30	2	3	1	-	-	8	5	-	-	-	-
Arkansas	80	9	23	69	8	22	2	1	-	9	-	1	-	-	-
California	141	27	66	104	19	51	16	5	4	19	2	11	2	1	-
Colorado	35	1	10	28	1	7	1	-	1	6	-	2	-	-	-
Connecticut	4	-	-	-	-	-	-	-	-	4	-	-	-	-	-
Delaware	8	-	4	5	-	2	1	-	1	1	-	-	1	-	1
Florida	100	14	36	84	11	28	9	3	3	7	-	5	-	-	-
Georgia	114	7	55	102	5	52	5	1	2	7	1	1	-	-	-
Idaho	21	3	7	18	3	6	-	-	-	3	-	1	-	-	-
Illinois	169	30	71	136	21	60	16	9	6	17	-	5	-	-	-
Indiana	144	19	37	128	16	36	5	3	-	10	-	1	1	-	-
Iowa	65	3	21	58	3	21	4	-	-	3	-	-	-	-	-
Kansas	58	3	28	46	2	26	4	1	1	7	-	1	1	-	-
Kentucky	91	8	24	66	5	15	6	3	3	17	-	6	2	-	-
Louisiana	146	15	42	127	12	39	5	3	1	11	-	1	3	-	1
Maine	11	1	3	8	-	2	-	-	-	3	1	1	-	-	-
Maryland	22	-	4	17	-	3	1	-	1	4	-	-	-	-	-
Massachusetts	16	-	3	15	-	3	-	-	-	1	-	-	-	-	-
Michigan	107	7	28	98	7	26	3	-	1	6	-	1	-	-	-
Minnesota	75	11	27	63	8	24	3	1	1	9	2	2	-	-	-
Mississippi	91	9	44	82	9	39	2	-	2	6	-	3	1	-	-
Missouri	65	9	32	52	9	30	2	-	1	11	-	1	-	-	-
Montana	26	4	4	16	2	2	-	-	-	10	2	2	-	-	-
Nebraska	42	5	12	35	3	11	4	2	-	3	-	1	-	-	-
Nevada	2	1	2	1	-	1	-	-	-	1	1	1	-	-	-
New Hampshire	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
New Jersey	50	7	13	33	3	10	7	4	3	10	-	-	-	-	-
New Mexico	12	3	7	7	1	6	1	-	-	3	2	1	1	-	-
New York	43	8	7	33	4	5	3	3	-	6	1	2	1	-	-
North Carolina	72	4	15	60	4	12	4	-	1	8	-	2	-	-	-
North Dakota	23	6	9	18	3	5	4	3	3	1	-	1	-	-	-
Ohio	126	13	47	111	8	44	4	4	-	11	1	3	-	-	-
Oklahoma	67	11	32	61	10	32	3	1	-	3	-	-	-	-	-
Oregon	31	3	7	21	1	5	1	1	-	9	1	2	-	-	-
Pennsylvania	88	3	13	65	-	12	6	3	1	17	-	-	-	-	-
Rhode Island	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
South Carolina	70	5	25	57	5	17	4	-	2	8	-	6	1	-	-
South Dakota	15	1	8	13	1	8	1	-	-	-	-	-	1	-	-
Tennessee	84	8	18	72	7	14	3	-	1	8	-	3	1	1	-
Texas	284	36	106	253	28	100	5	4	1	26	4	5	-	-	-
Utah	19	-	6	18	-	6	-	-	-	1	-	-	-	-	-
Vermont	3	-	2	2	-	1	-	-	-	1	-	1	-	-	-
Virginia	58	7	26	38	4	2	2	1	-	17	2	24	1	-	-
Washington	43	6	10	28	-	7	3	2	1	11	3	2	1	1	-
West Virginia	39	3	21	28	3	13	2	-	1	8	-	6	1	-	1
Wisconsin	74	4	30	67	3	28	2	1	1	5	-	1	-	-	-
Wyoming	6	2	2	2	-	1	1	-	1	3	2	-	-	-	-
Total	2,974	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-3 TOTAL HRC CASUALTIES BY STATE AND AGE GROUP, 2003

States	Deaths						Nonfatal Cases					
	Age Group				Total		Age Group				Total	
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	-	-	3	7	10	3.0	2	5	8	23	38	3.7
Alaska	-	-	-	-	0	0.0	-	-	-	1	1	0.1
Arizona	-	1	-	6	7	2.1	1	-	-	2	3	0.3
Arkansas	-	1	2	6	9	2.7	-	6	-	17	23	2.2
California	2	-	2	23	27	8.1	26	3	3	34	66	6.4
Colorado	-	-	-	1	1	0.3	1	-	-	9	10	1.0
Delaware	-	-	-	-	0	0.0	-	-	-	4	4	0.4
Florida	3	-	4	7	14	4.2	5	2	4	25	36	3.5
Georgia	1	-	1	5	7	2.1	1	1	3	50	55	5.3
Idaho	-	-	-	3	3	0.9	-	-	1	6	7	0.7
Illinois	1	-	5	24	30	9.0	9	5	13	44	71	6.9
Indiana	-	1	4	14	19	5.7	-	2	10	25	37	3.6
Iowa	-	-	-	3	3	0.9	-	1	2	18	21	2.0
Kansas	-	-	-	3	3	0.9	6	-	5	17	28	2.7
Kentucky	-	2	-	6	8	2.4	2	5	7	10	24	2.3
Louisiana	1	1	-	13	15	4.5	4	2	5	31	42	4.1
Maine	-	-	-	1	1	0.3	-	-	-	3	3	0.3
Maryland	-	-	-	-	0	0.0	1	1	-	2	4	0.4
Massachusetts	-	-	-	-	0	0.0	1	-	-	2	3	0.3
Michigan	-	-	1	6	7	2.1	-	3	9	16	28	2.7
Minnesota	-	1	4	6	11	3.3	3	2	7	15	27	2.6
Mississippi	-	1	-	8	9	2.7	13	-	5	26	44	4.3
Missouri	-	1	1	7	9	2.7	3	-	5	24	32	3.1
Montana	-	-	-	4	4	1.2	-	-	2	2	4	0.4
Nebraska	-	-	1	4	5	1.5	-	-	3	9	12	1.2
Nevada	1	-	-	-	1	0.3	1	-	-	1	2	0.2
New Jersey	1	-	2	4	7	2.1	-	-	2	11	13	1.3
New Mexico	-	2	-	1	3	0.9	1	2	-	4	7	0.7
New York	3	2	-	3	8	2.4	-	1	2	4	7	0.7
North Carolina	-	-	2	2	4	1.2	-	3	1	11	15	1.5
North Dakota	-	-	1	5	6	1.8	1	-	-	8	9	0.9
Ohio	-	3	1	9	13	3.9	4	3	8	32	47	4.6
Oklahoma	-	-	2	9	11	3.3	4	-	9	19	32	3.1
Oregon	-	-	-	3	3	0.9	-	-	-	7	7	0.7
Pennsylvania	-	-	1	2	3	0.9	4	1	1	7	13	1.3
South Carolina	-	-	2	3	5	1.5	-	2	7	16	25	2.4
South Dakota	-	-	-	1	1	0.3	3	1	-	4	8	0.8
Tennessee	-	1	2	5	8	2.4	-	2	5	11	18	1.7
Texas	1	2	4	29	36	10.8	6	11	13	76	106	10.3
Utah	-	-	-	-	0	0.0	-	-	-	6	6	0.6
Vermont	-	-	-	-	0	0.0	-	-	-	2	2	0.2
Virginia	-	-	1	6	7	2.1	-	1	4	21	26	2.5
Washington	-	1	-	5	6	1.8	1	-	2	7	10	1.0
West Virginia	-	-	1	2	3	0.9	-	-	12	9	21	2.0
Wisconsin	-	-	1	3	4	1.2	1	-	7	22	30	2.9
Wyoming	-	-	-	2	2	0.6	1	-	-	1	2	0.2
Total	14	20	48	251	333	100.0	105	65	165	694	1,029	100.0

TABLE 7-4 TOTAL HIGHWAY-RAIL INCIDENTS BY MONTH, 2003

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
January	277	30	103	230	25	92	14	4	3	28	-	7	5	1	1
February	269	28	85	227	18	81	12	6	2	26	2	2	4	2	-
March	208	19	56	183	15	52	7	2	2	18	2	2	-	-	-
April	199	28	61	160	23	48	11	5	3	28	-	10	-	-	-
May	204	29	110	161	17	98	14	6	4	29	6	8	-	-	-
June	221	25	63	184	22	55	5	-	3	32	3	5	-	-	-
July	241	26	99	192	17	72	14	6	5	33	3	22	2	-	-
August	267	30	107	229	23	82	13	5	2	23	2	22	2	-	1
September	270	27	102	215	19	79	20	6	11	32	2	10	3	-	2
October	288	33	75	234	25	64	11	6	2	41	2	9	2	-	-
November	229	28	82	195	21	72	15	7	4	18	-	6	1	-	-
December	301	30	86	250	16	80	12	6	3	38	8	3	1	-	-
Total	2,974	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-5 TOTAL HIGHWAY-RAIL INCIDENTS BY DAY, 2003
Rail Equip Struck Highway User

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
Sunday	238	8.00	50	69	185	31	53	25	12	5	24	6	10	4	1	1
Monday	312	10.49	28	113	236	17	92	20	5	7	52	6	14	4	-	-
Tuesday	386	12.98	51	145	313	33	124	23	16	5	46	2	14	4	-	2
Wednesday	363	12.21	31	112	284	20	97	19	4	5	59	7	10	1	-	-
Thursday	346	11.63	34	111	276	28	75	12	3	5	58	3	31	-	-	-
Friday	373	12.54	53	104	299	40	87	13	7	6	56	5	10	5	1	1
Saturday	264	8.88	45	97	220	34	82	22	9	7	21	1	8	1	1	-
Total	2,282	76.73	292	751	1,813	203	610	134	56	40	316	30	97	19	3	4

Highway User Struck Rail Equip

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	
Sunday	76	2.56	5	42	70	5	38	3	-	2	3	-	2	-	-	-	
Monday	88	2.96	4	34	78	4	33	4	-	-	6	-	1	-	-	-	
Tuesday	109	3.67	8	37	96	8	31	2	-	1	10	-	5	1	-	-	
Wednesday	94	3.16	6	39	89	4	39	1	2	-	4	-	-	-	-	-	
Thursday	102	3.43	5	39	99	5	38	2	-	1	1	-	-	-	-	-	
Friday	147	4.94	10	55	141	9	55	2	1	-	4	-	-	-	-	-	
Saturday	76	2.56	3	32	74	3	31	-	-	-	2	-	1	-	-	-	
Total	692	23.27	41	278	647	38	265	14	3	4	30	-	9	1	-	-	

Grand Total

Day					At Public Crossing						At Private Crossing					
	Total Incidents		Total		Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	314	10.56	55	111	255	36	91	28	12	7	27	6	12	4	1	1
Monday	400	13.45	32	147	314	21	125	24	5	7	58	6	15	4	-	-
Tuesday	495	16.64	59	182	409	41	155	25	16	6	56	2	19	5	-	2
Wednesday	457	15.37	37	151	373	24	136	20	6	5	63	7	10	1	-	-
Thursday	448	15.06	39	150	375	33	113	14	3	6	59	3	31	-	-	-
Friday	520	17.48	63	159	440	49	142	15	8	6	60	5	10	5	1	1
Saturday	340	11.43	48	129	294	37	113	22	9	7	23	1	9	1	1	-
Total	2,974	100.0	333	1029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-6 TOTAL HIGHWAY-RAIL INCIDENTS BY HOUR OF DAY, 2003

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	63	2.12	6	18	54	4	16	4	2	1	5	-	1	-	-	-			
	2	72	2.42	6	26	65	4	24	3	2	2	4	-	-	-	-	-			
	3	67	2.25	6	15	56	3	12	5	3	2	6	-	1	-	-	-			
	4	42	1.41	3	5	31	1	5	4	2	-	6	-	-	1	-	-			
	5	57	1.92	5	9	51	5	8	-	-	-	6	-	1	-	-	-			
	6	65	2.19	6	23	50	5	20	3	-	1	12	1	2	-	-	-			
	7	126	4.24	12	85	101	11	72	3	-	-	21	1	13	1	-	-			
	8	176	5.92	32	65	144	27	57	8	2	-	23	3	8	1	-	-			
	9	180	6.05	19	89	146	15	61	9	3	6	24	1	22	1	-	-			
	10	164	5.51	16	49	132	14	40	7	1	1	24	1	8	1	-	-			
	11	190	6.39	19	50	158	12	40	9	6	2	22	1	8	1	-	-			
	12	81	2.72	12	23	65	7	19	8	5	3	7	-	-	1	-	1			
	Total	1,283	43.14	142	457	1,053	108	374	63	26	18	160	8	64	7	-	1			
	PM	1	162	5.45	19	53	134	15	44	8	3	3	20	1	6	-	-	-		
2		178	5.99	23	57	145	19	50	7	1	3	21	1	4	5	2	-			
3		180	6.05	24	53	148	11	45	11	6	2	19	7	4	2	-	2			
4		172	5.78	22	69	138	18	62	9	2	2	23	2	4	2	-	1			
5		170	5.72	18	71	142	10	63	6	5	1	20	2	7	2	1	-			
6		136	4.57	13	44	108	8	37	9	2	5	18	3	2	1	-	-			
7		123	4.14	15	56	105	9	53	8	4	1	10	2	2	-	-	-			
8		104	3.50	8	30	95	6	27	3	2	1	5	-	2	1	-	-			
9		108	3.63	9	21	92	7	17	6	2	3	10	-	1	-	-	-			
10		86	2.89	16	29	72	14	27	5	2	2	9	-	-	-	-	-			
11		93	3.13	8	21	81	6	19	7	2	2	5	-	-	-	-	-			
12		179	6.02	16	68	147	10	57	6	2	1	26	4	10	-	-	-			
Total		1,691	56.86	191	572	1,407	133	501	85	33	26	186	22	42	13	3	3			
Total		2,974	100.0	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4			

TABLE 7-7 TOTAL HIGHWAY-RAIL INCIDENTS BY TYPE HIGHWAY USER, 2003
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	1,064	35.78	127	333	980	115	310	-	-	-	84	12	23	-	-	-
Truck	242	8.14	27	147	181	24	132	-	-	-	61	3	15	-	-	-
Trk& Trail	344	11.57	10	86	247	5	48	-	-	-	97	5	38	-	-	-
Pickup Trk	331	11.13	47	96	277	37	82	-	-	-	54	10	14	-	-	-
Van	99	3.33	15	34	85	15	28	-	-	-	14	-	6	-	-	-
Bus	7	0.24	-	2	6	-	2	-	-	-	1	-	-	-	-	-
Motorcycle	5	0.17	2	1	5	2	1	-	-	-	-	-	-	-	-	-
Oth Mtr V.	37	1.24	5	8	32	5	7	-	-	-	5	-	1	-	-	-
Pedestrian	81	2.72	49	26	-	-	-	78	47	25	-	-	-	3	2	1
Other	72	2.42	10	18	-	-	-	56	9	15	-	-	-	16	1	3
Total	2,282	76.73	292	751	1,813	203	610	134	56	40	316	30	97	19	3	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	362	12.17	17	154	345	17	148	-	-	-	17	-	6	-	-	-
Truck	73	2.45	2	27	69	2	26	-	-	-	4	-	1	-	-	-
Trk& Trail	39	1.31	1	14	36	1	13	-	-	-	3	-	1	-	-	-
Pickup Trk	146	4.91	12	56	144	12	56	-	-	-	2	-	-	-	-	-
Van	39	1.31	1	17	38	1	17	-	-	-	1	-	-	-	-	-
Bus	1	0.03	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Motorcycle	7	0.24	3	3	7	3	3	-	-	-	-	-	-	-	-	-
Oth Mtr V.	10	0.34	2	3	7	2	2	-	-	-	3	-	1	-	-	-
Pedestrian	4	0.13	1	2	-	-	-	4	1	2	-	-	-	-	-	-
Other	11	0.37	2	2	-	-	-	10	2	2	-	-	-	1	-	-
Total	692	23.27	41	278	647	38	265	14	3	4	30	-	9	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	1,426	47.95	144	487	1,325	132	458	-	-	-	101	12	29	-	-	-
Truck	315	10.59	29	174	250	26	158	-	-	-	65	3	16	-	-	-
Trk& Trail	383	12.88	11	100	283	6	61	-	-	-	100	5	39	-	-	-
Pickup Trk	477	16.04	59	152	421	49	138	-	-	-	56	10	14	-	-	-
Van	138	4.64	16	51	123	16	45	-	-	-	15	-	6	-	-	-
Bus	8	0.27	-	2	7	-	2	-	-	-	1	-	-	-	-	-
Motorcycle	12	0.40	5	4	12	5	4	-	-	-	-	-	-	-	-	-
Oth Mtr V.	47	1.58	7	11	39	7	9	-	-	-	8	-	2	-	-	-
Pedestrian	85	2.86	50	28	-	-	-	82	48	27	-	-	-	3	2	1
Other	83	2.79	12	20	-	-	-	66	11	17	-	-	-	17	1	3
Total	2,974	100.0	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-8 HIGHWAY-RAIL INCIDENTS BY USERS, 2003
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	Spec MOW Eqp
	Cnt	%									
Car	1,064	35.8	807	75	38	7	4	56	58	18	1
Truck	242	8.1	185	9	4	1	-	21	16	6	-
Trk& Trail	344	11.6	260	15	1	2	-	33	33	-	-
Pickup Trk	331	11.1	257	25	1	2	2	19	17	7	1
Van	99	3.3	68	6	2	-	-	10	11	2	-
Bus	7	0.2	3	-	1	-	-	3	-	-	-
Motorcycle	5	0.2	2	-	1	-	-	1	1	-	-
Oth Mtr V.	37	1.2	30	3	1	-	1	1	1	-	-
Pedestrian	81	2.7	56	19	4	-	-	1	1	-	-
Other	72	2.4	62	2	2	-	-	3	3	-	-
Total	2,282	76.7	1,730	154	55	12	7	148	141	33	2

Highway User Struck Rail Equip

Highway User	Total		Freight Train	Psgr Train	Work Train	Single Car	Cut of Cars	Yard/ Switch	Light loco(s)	Maint Insp car	Spec MOW Eqp
	Cnt	%									
Car	362	12.2	246	23	2	2	2	50	27	8	2
Truck	73	2.5	56	4	2	-	-	7	4	-	-
Trk& Trail	39	1.3	24	2	1	1	-	5	3	2	1
Pickup Trk	146	4.9	111	1	2	-	-	16	12	4	-
Van	39	1.3	25	2	-	1	-	7	3	1	-
Bus	1	0.0	-	-	-	-	-	1	-	-	-
Motorcycle	7	0.2	6	-	-	-	-	1	-	-	-
Oth Mtr V.	10	0.3	7	-	-	-	-	2	1	-	-
Pedestrian	4	0.1	3	1	-	-	-	-	-	-	-
Other	11	0.4	10	-	-	-	-	-	-	1	-
Total	692	23.3	488	33	7	4	2	89	50	16	3

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	Spec MOW Eqp
	Cnt	%										
Car	1,426	47.9	1,053	98	38	9	6	2	106	85	26	3
Truck	315	10.6	241	13	4	3	-	-	28	20	6	-
Trk& Trail	383	12.9	284	17	1	3	1	-	38	36	2	1
Pickup Trk	477	16.0	368	26	1	4	2	-	35	29	11	1
Van	138	4.6	93	8	2	-	1	-	17	14	3	-
Bus	8	0.3	3	-	1	-	-	-	4	-	-	-
Motorcycle	12	0.4	8	-	1	-	-	-	2	1	-	-
Oth Mtr V.	47	1.6	37	3	1	-	1	-	3	2	-	-
Pedestrian	85	2.9	59	20	4	-	-	-	1	1	-	-
Other	83	2.8	72	2	2	-	-	-	3	3	1	-
Total	2,974	100.0	2,218	187	55	19	11	2	237	191	49	5

TABLE 7-9 TOTAL HIGHWAY-RAIL INCIDENTS BY WARNING DEVICE, 2003

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
Unknown	105	3.53	4	45	12	-	3	2	-	2	84	3	39	7	1	1
Other	6	0.20	-	1	-	-	-	-	-	-	6	-	1	-	-	-
Cross bucks	992	33.36	91	416	840	72	370	38	9	11	105	10	32	9	-	3
Stop signs	349	11.74	42	104	237	23	75	6	-	3	102	17	26	4	2	-
Special warning	50	1.68	1	6	39	1	4	-	-	-	11	-	2	-	-	-
HWTs,WW,Bells	45	1.51	6	13	38	5	12	3	1	1	4	-	-	-	-	-
Flashing lights	548	18.43	58	193	515	52	184	13	6	3	20	-	6	-	-	-
Gates	879	29.56	131	251	779	88	227	86	43	24	14	-	-	-	-	-
Total	2,974	100.0	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	4

TABLE 7-10 TOTAL HIGHWAY-RAIL INCIDENTS BY WEATHER, 2003
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	1,612	54.20	229	551	1,285	163	443	88	39	21	224	24	83	15	3	4
Cloudy	441	14.83	49	151	354	31	127	35	15	15	50	3	9	2	-	-
Rain	146	4.91	7	36	114	7	28	5	-	4	26	-	4	1	-	-
Fog	27	0.91	2	3	16	1	3	3	-	-	7	1	-	1	-	-
Sleet	5	0.17	-	2	5	-	2	-	-	-	-	-	-	-	-	-
Snow	51	1.71	5	8	39	1	7	3	2	-	9	2	1	-	-	-
Total	2,282	76.73	292	751	1,813	203	610	134	56	40	316	30	97	19	3	4

Highway User Struck Rail Equip

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	455	15.30	28	184	427	28	174	6	-	3	21	-	7	1	-	-
Cloudy	127	4.27	9	52	121	6	52	3	3	-	3	-	-	-	-	-
Rain	62	2.08	-	21	55	-	20	3	-	1	4	-	-	-	-	-
Fog	21	0.71	3	13	20	3	13	1	-	-	-	-	-	-	-	-
Snow	27	0.91	1	8	24	1	6	1	-	-	2	-	2	-	-	-
Total	692	23.27	41	278	647	38	265	14	3	4	30	-	9	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	2,067	69.50	257	735	1,712	191	617	94	39	24	245	24	90	16	3	4
Cloudy	568	19.10	58	203	475	37	179	38	18	15	53	3	9	2	-	-
Rain	208	6.99	7	57	169	7	48	8	-	5	30	-	4	1	-	-
Fog	48	1.61	5	16	36	4	16	4	-	-	7	1	-	1	-	-
Sleet	5	0.17	-	2	5	-	2	-	-	-	-	-	-	-	-	-
Snow	78	2.62	6	16	63	2	13	4	2	-	11	2	3	-	-	-
Total	2,974	100.0	333	1,029	2,460	241	875	148	59	44	346	30	106	20	3	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 highway-rail 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 BY STATE, 2003

States	Accidents				Deaths				Nonfatal			
	Cnt	Per 100 Xings	Per 100K Vehicles	Per 100K ADT	Cnt	Per 100 Xings	Per 100K Vehicles	Per 100K ADT	Cnt	Per 100 Xings	Per 100K Vehicles	Per 100K ADT
Alabama	81	2.41	1.80	1.19	10	0.30	0.22	0.15	37	1.10	8.24	0.05
Alaska	1	0.44	0.16	0.21	.	.	.	.	1	0.44	1.57	0.02
Arizona	30	3.32	0.72	1.02	2	0.22	0.05	0.07	3	0.33	0.72	0.01
Arkansas	69	2.18	3.62	1.79	8	0.25	0.42	0.21	22	0.70	11.54	0.06
California	104	1.34	0.34	0.26	19	0.24	0.06	0.05	51	0.66	1.69	0.01
Colorado	28	1.49	1.30	0.75	1	0.05	0.05	0.03	7	0.37	3.25	0.02
Connecticut	.	.	.	.	.	.	.	.	.	.	.	.
Delaware	5	1.63	0.73	0.47	.	.	.	.	2	0.65	2.91	0.02
Dist Of Columbia	.	.	.	.	.	.	.	.	.	.	.	.
Florida	84	2.15	0.59	0.44	11	0.28	0.08	0.06	28	0.72	1.96	0.01
Georgia	102	1.76	1.32	1.14	5	0.09	0.06	0.06	52	0.90	6.70	0.06
Hawaii	.	.	.	.	.	.	.	.	.	.	.	.
Idaho	18	1.38	1.26	1.04	3	0.23	0.21	0.17	6	0.46	4.20	0.03
Illinois	136	1.66	1.39	0.63	21	0.26	0.21	0.10	60	0.73	6.12	0.03
Indiana	128	2.11	2.21	0.91	16	0.26	0.28	0.11	36	0.59	6.21	0.03
Iowa	58	1.25	1.68	1.25	3	0.06	0.09	0.06	21	0.45	6.09	0.05
Kansas	46	0.74	1.92	0.91	2	0.03	0.08	0.04	26	0.42	10.88	0.05
Kentucky	66	2.66	1.81	1.66	5	0.20	0.14	0.13	15	0.60	4.11	0.04
Louisiana	127	3.65	3.42	1.81	12	0.35	0.32	0.17	39	1.12	10.50	0.06
Maine	8	0.95	0.80	0.40	.	.	.	.	2	0.24	2.00	0.01
Maryland	17	2.46	0.43	0.69	.	.	.	.	3	0.43	0.76	0.01
Massachusetts	15	1.83	0.27	0.30	.	.	.	.	3	0.37	0.54	0.01
Michigan	98	1.82	1.12	0.66	7	0.13	0.08	0.05	26	0.48	2.98	0.02
Minnesota	63	1.25	1.35	0.93	8	0.16	0.17	0.12	24	0.48	5.13	0.04
Mississippi	82	3.02	4.14	1.70	9	0.33	0.45	0.19	39	1.44	19.68	0.08
Missouri	52	1.12	1.21	1.08	9	0.19	0.21	0.19	30	0.65	6.98	0.06
Montana	16	1.09	1.47	1.23	2	0.14	0.18	0.15	2	0.14	1.84	0.02
Nebraska	35	0.93	2.08	1.45	3	0.08	0.18	0.12	11	0.29	6.54	0.05
Nevada	1	0.33	0.08	0.11	.	.	.	.	1	0.33	0.78	0.01
New Hampshire	1	0.25	0.08	0.10	.	.	.	.	.	.	.	.
New Jersey	33	2.17	0.48	0.37	3	0.20	0.04	0.03	10	0.66	1.47	0.01
New Mexico	7	0.95	0.45	0.79	1	0.14	0.06	0.11	6	0.81	3.81	0.07
New York	33	1.13	0.31	0.42	4	0.14	0.04	0.05	5	0.17	0.47	0.01
North Carolina	60	1.36	0.96	0.67	4	0.09	0.06	0.04	12	0.27	1.92	0.01
North Dakota	18	0.43	2.51	1.45	3	0.07	0.42	0.24	5	0.12	6.98	0.04
Ohio	111	1.74	1.03	0.79	8	0.13	0.07	0.06	44	0.69	4.10	0.03
Oklahoma	61	1.47	1.94	1.35	10	0.24	0.32	0.22	32	0.77	10.20	0.07
Oregon	21	0.93	0.67	0.47	1	0.04	0.03	0.02	5	0.22	1.59	0.01
Pennsylvania	65	1.36	0.66	0.46	.	.	.	.	12	0.25	1.23	0.01
Rhode Island	2	1.69	0.25	0.37	.	.	.	.	.	.	.	.
South Carolina	57	1.95	1.75	0.81	5	0.17	0.15	0.07	17	0.58	5.21	0.02
South Dakota	13	0.61	1.53	1.02	1	0.05	0.12	0.08	8	0.38	9.44	0.06
Tennessee	72	2.26	1.48	1.08	7	0.22	0.14	0.10	14	0.44	2.88	0.02
Texas	253	2.21	1.70	0.89	28	0.24	0.19	0.10	100	0.87	6.71	0.04
Utah	18	1.94	0.95	1.03	.	.	.	.	6	0.65	3.18	0.03
Vermont	2	0.40	0.35	0.27	.	.	.	.	1	0.20	1.77	0.01
Virginia	38	1.85	0.60	0.65	4	0.20	0.06	0.07	2	0.10	0.32	0.00
Washington	28	1.05	0.51	0.58	.	.	.	.	7	0.26	1.28	0.01
West Virginia	28	1.78	1.87	1.58	3	0.19	0.20	0.17	13	0.82	8.70	0.07
Wisconsin	67	1.61	1.41	0.70	3	0.07	0.06	0.03	28	0.67	5.88	0.03
Wyoming	2	0.50	0.32	0.58	.	.	.	.	1	0.25	1.59	0.03
Total...	2,460	1.65	1.05	0.75	241	0.16	0.10	0.07	875	0.59	3.74	0.03

**TABLE 8-2 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS
BY WARNING DEVICE, 2003**

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	12	0.25	0.20	.	.	.	3	0.06	0.01	4,708
Other	.	.	.	.	.	.	.	.	.	612
Cross bucks	840	1.27	1.74	72	0.11	0.15	370	0.56	0.08	66,392
Stop signs	237	2.04	3.50	23	0.20	0.34	75	0.64	0.11	11,638
Special warning	39	1.31	0.38	1	0.03	0.01	4	0.13	0.00	2,972
HWTS,WW,Bells	38	3.07	0.71	5	0.40	0.09	12	0.97	0.02	1,236
Flashing lights	515	2.03	0.52	52	0.20	0.05	184	0.72	0.02	25,394
Gates	779	2.13	0.52	88	0.24	0.06	227	0.62	0.02	36,582
Total	2,460	1.65	0.75	241	0.16	0.07	875	0.59	0.03	149,534

**TABLES 8-3 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS
BY RAILROAD AND TYPE WARNING, 2003**

Railroads	Types of Warning							Type Incident	
	Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW ,Bells	Flashing lights	Gates	Rail Equip Struck Highway User	Highway User Struck Rail Equip
Alaska RR Corp.	-	-	1	-	-	-	-	1	-
Amtrak	-	23	7	-	-	13	72	98	17
Burlington Northern Santa Fe	-	117	22	3	3	67	103	225	90
Conrail Shared Assets	6	6	1	3	-	5	3	13	11
CSX Transportation	1	129	33	5	5	117	159	356	93
Delaware & Hudson	-	-	-	-	-	1	1	1	1
Dakota,Minnesota & Eastern	-	4	1	-	-	1	-	4	2
Duluth,Missabe & Iron Range	-	1	-	-	-	-	-	-	1
Duluth,Winnipeg & Pacific	-	-	1	-	-	-	-	1	-
Florida East Coast	-	-	-	-	-	-	17	13	4
Guilford Rail System	-	1	-	1	-	7	-	6	3
Grand Trunk Western RR	-	2	10	1	-	3	17	22	11
Illinois Central	-	38	9	2	-	29	11	73	16
Iowa Chicago & Eastern RR	-	8	3	-	-	4	3	11	7
Indiana Harbor Belt	-	2	-	-	-	1	2	3	2
Kansas City Southern	-	68	-	2	-	15	14	67	32
Long Island Rail Road	-	-	-	-	-	-	3	3	-
MD Assn. of Rail Comm	-	-	-	-	-	-	2	2	-
Mass Bay Transit Auth.	-	-	-	-	-	-	6	6	-
Metro North Commuter	-	-	-	-	-	-	1	1	-
Montana Rail Link	-	3	2	-	-	1	1	6	1
Northern IN Comm Trans	-	-	-	1	1	1	1	3	1
Northeast IL Reg Comm	-	-	-	-	-	6	19	20	5
New Jersey Transit Rail	-	-	-	-	-	-	7	6	1
Norfolk Southern Corp.	1	132	39	3	10	83	125	327	66
OTHE	-	133	28	9	14	62	32	157	121
Paducah & Louisville	-	1	-	-	-	4	-	1	4
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	5	4	1
Port Terminal RR Assn	-	-	1	-	-	1	4	3	3
Southern CA Reg Rail Auth.	-	-	-	-	-	-	16	16	-
Southeastern PA Trans.	-	-	-	-	-	-	1	1	-
Soo Line	-	8	7	1	-	4	10	18	12
Term RR Assn Of St. Louis	-	-	-	-	-	-	1	-	1
Union Pacific	4	126	62	5	5	78	138	306	112
Wisconsin Central Ltd.	-	21	9	2	-	9	4	28	17
Wheeling & Lake Erie	-	16	-	-	-	-	1	8	9
Wisconsin & Southern RR	-	1	1	1	-	3	-	3	3
Total	12	840	237	39	38	515	779	1,813	647

**TABLES 8-4 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS
BY STATE AND TYPE WARNING, 2003**

States	Type of Warning						
	Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
Alabama	-	29	17	-	1	22	12
Alaska	-	-	1	-	-	-	-
Arizona	-	2	1	-	1	13	13
Arkansas	-	29	14	1	-	18	7
California	1	5	3	1	5	13	76
Colorado	-	6	8	2	-	5	7
Delaware	-	1	1	-	-	2	1
Florida	-	16	2	-	-	11	55
Georgia	-	34	17	4	2	11	34
Idaho	-	6	4	-	2	3	3
Illinois	1	39	3	-	1	37	55
Indiana	-	25	26	1	1	25	50
Iowa	-	27	5	1	2	15	8
Kansas	-	27	1	1	1	4	12
Kentucky	-	20	-	1	-	36	9
Louisiana	-	56	15	2	1	32	21
Maine	-	1	-	-	-	7	-
Maryland	1	4	2	1	-	3	6
Massachusetts	-	1	1	1	-	2	10
Michigan	-	19	15	-	1	32	31
Minnesota	1	26	14	-	1	11	10
Mississippi	-	40	7	5	-	17	13
Missouri	-	30	1	1	-	9	11
Montana	-	8	2	-	-	2	4
Nebraska	-	16	3	-	-	1	15
Nevada	-	-	-	-	-	-	1
New Hampshire	-	1	-	-	-	-	-
New Jersey	5	6	2	3	-	7	10
New Mexico	-	1	2	-	1	1	2
New York	-	6	1	-	3	1	22
North Carolina	-	23	-	1	2	10	24
North Dakota	-	8	1	-	-	-	9
Ohio	-	62	2	1	2	6	38
Oklahoma	-	27	6	1	1	17	9
Oregon	1	7	7	-	-	-	6
Pennsylvania	1	29	2	2	-	21	10
Rhode Island	-	-	-	-	-	1	1
South Carolina	-	22	6	-	1	11	17
South Dakota	-	10	1	1	-	1	-
Tennessee	-	21	2	1	2	25	21
Texas	1	89	21	2	1	39	100
Utah	-	6	2	-	-	4	6
Vermont	-	-	-	-	-	2	-
Virginia	-	6	2	1	1	9	19
Washington	-	12	3	-	4	3	6
West Virginia	-	7	-	-	1	11	9
Wisconsin	-	29	14	4	-	14	6
Wyoming	-	1	-	-	-	1	-
Total	12	840	237	39	38	515	779

**TABLE 8-5 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING,
BY TYPE CONSIST AND CONSIST SPEED, 2003**

Rail Equip Struck Highway User

Consist Speed								Whistle Ban?			
	Total	Freight Train	Psg'r Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	Yes	No	Unk
Unknown	-	-	-	-	-	-	-	-	-	-	-
1-9	302	156	1	5	22	73	43	2	9	280	13
10-19	239	177	7	1	14	17	23	-	9	223	7
20-29	268	227	9	1	1	10	20	-	7	253	8
30-39	309	281	17	-	-	3	8	-	19	284	6
40-49	396	360	22	2	-	2	10	-	12	378	6
50-59	165	143	20	2	-	-	-	-	4	157	4
>= 60	134	44	90	-	-	-	-	-	7	115	12
Total	1,813	1,388	166	11	37	105	104	2	67	1,690	56

Highway User Struck Rail Equip

Consist Speed									Whistle Ban?		
			Psg								
	Total	Freight Train	Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	Yes	No	Unk
Unknown	68	40	1	-	5	20	1	1	1	62	5
1-9	192	96	1	5	12	56	21	1	8	180	4
10-19	108	79	3	-	2	9	14	1	2	102	4
20-29	93	78	9	1	-	1	4	-	2	87	4
30-39	78	72	1	1	-	-	4	-	-	74	4
40-49	68	64	3	-	-	-	1	-	2	62	4
50-59	28	22	5	-	1	-	-	-	2	25	1
>= 60	12	7	5	-	-	-	-	-	-	11	1
Total	647	458	28	7	20	86	45	3	17	603	27

Grand Total

Consist Speed									Whistle Ban?			
	Total	Freight Train	Psgrr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	Yes	No	Unk	
Unknown	68	40	1	-	5	20	1	1	1	62	5	
1-9	494	252	2	10	34	129	64	3	17	460	17	
10-19	347	256	10	1	16	26	37	1	11	325	11	
20-29	361	305	18	2	1	11	24	-	9	340	12	
30-39	387	353	18	1	-	3	12	-	19	358	10	
40-49	464	424	25	2	-	2	11	-	14	440	10	
50-59	193	165	25	2	1	-	-	-	6	182	5	
>= 60	146	51	95	-	-	-	-	-	7	126	13	
Total	2,460	1,846	194	18	57	191	149	5	84	2,293	83	

**TABLE 8-6 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS
BY TYPE WARNING, MOTORIST ACTION, AND WARNING LOCATION, 2003**

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
Unknown	6	0.2	-	-	5	1	-	3	3	-	-
Cross bucks	607	24.7	-	49	378	168	12	-	572	31	4
Stop signs	196	8.0	-	25	106	59	6	-	188	5	3
Special warning	24	1.0	-	2	15	7	-	-	20	4	-
HWTS,WW,Bells	22	0.9	-	4	11	7	-	-	21	1	-
Flashing lights	336	13.7	-	30	195	103	8	-	329	7	-
Gates	622	25.3	183	18	50	315	56	-	604	17	1
Total	1,813	73.7	183	128	760	660	82	3	1,737	65	8

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
Unknown	6	0.2	-	-	6	-	-	4	2	-	-
Cross bucks	233	9.5	-	7	222	-	4	-	217	16	-
Stop signs	41	1.7	-	3	38	-	-	-	39	2	-
Special warning	15	0.6	-	2	12	-	1	-	15	-	-
HWTS,WW,Bells	16	0.7	-	2	11	-	3	-	14	1	1
Flashing lights	179	7.3	-	16	158	-	5	-	174	5	-
Gates	157	6.4	96	7	44	-	10	-	154	3	-
Total	647	26.3	96	37	491	-	23	4	615	27	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
Unknown	12	0.5	-	-	11	1	-	7	5	-	-
Cross bucks	840	34.1	-	56	600	168	16	-	789	47	4
Stop signs	237	9.6	-	28	144	59	6	-	227	7	3
Special warning	39	1.6	-	4	27	7	1	-	35	4	-
HWTS,WW,Bells	38	1.5	-	6	22	7	3	-	35	2	1
Flashing lights	515	20.9	-	46	353	103	13	-	503	12	-
Gates	779	31.7	279	25	94	315	66	-	758	20	1
Total	2,460	100.0	279	165	1,251	660	105	7	2,352	92	9

**TABLE 8-7 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE VEHICLE, VEHICLE SPEED AND DRIVER GENDER, 2003**

Rail Equip Struck Highway User

Vehicle Speed									Driver Gender	
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	91	58	23	8	2	-	-	4	52	35
Stopped	705	430	143	82	26	4	20	26	461	218
1-9	400	179	109	83	20	2	7	7	318	75
10-19	306	156	82	46	18	-	4	9	219	78
20-29	173	82	55	20	12	-	4	2	126	45
30-39	82	48	24	4	5	-	1	2	55	25
40-49	32	16	11	2	2	-	1	1	23	8
50-59	15	6	7	2	-	-	-	1	11	3
>= 60	9	5	4	-	-	-	-	-	8	1
Total	1,813	980	458	247	85	6	37	52	1,273	488

Highway User Struck Rail Equip

Vehicle Speed									Driver Gender	
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	27	20	4	1	1	-	1	3	19	5
Stopped	4	3	1	-	-	-	-	-	4	-
1-9	180	92	59	12	12	1	4	2	138	40
10-19	134	70	40	10	12	-	2	5	101	28
20-29	107	54	41	6	6	-	-	1	79	27
30-39	84	55	25	2	1	-	1	2	56	26
40-49	55	26	20	3	4	-	2	2	44	9
50-59	40	18	18	2	1	-	1	-	30	10
>= 60	16	7	5	-	1	-	3	-	11	5
Total	647	345	213	36	38	1	14	15	482	150

Grand Total

Vehicle Speed									Driver Gender	
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	118	78	27	9	3	-	1	7	71	40
Stopped	709	433	144	82	26	4	20	26	465	218
1-9	580	271	168	95	32	3	11	9	456	115
10-19	440	226	122	56	30	-	6	14	320	106
20-29	280	136	96	26	18	-	4	3	205	72
30-39	166	103	49	6	6	-	2	4	111	51
40-49	87	42	31	5	6	-	3	3	67	17
50-59	55	24	25	4	1	-	1	1	41	13
>= 60	25	12	9	-	1	-	3	-	19	6
Total	2,460	1,325	671	283	123	7	51	67	1,755	638

**TABLE 8-8 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY VEHICLE SPEED, WEATHER AND CONDITION OF DRIVER, 2003**

Rail Equip Struck Highway User

Vehicle Speed	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow ?	Driver		
								Kld	Nonfatal	Unhurt
Unknown	91	68	14	7	-	-	2	9	12	70
Stopped	705	476	140	54	10	4	21	4	29	590
1-9	400	300	77	18	3	-	2	-	40	261
10-19	306	222	58	19	-	-	7	-	40	191
20-29	173	122	41	6	1	-	3	-	31	94
30-39	82	58	15	6	-	-	3	-	8	47
40-49	32	27	3	-	1	1	-	-	5	16
50-59	15	7	3	3	1	-	1	-	-	6
>= 60	9	5	3	1	-	-	-	-	1	4
Total	1,813	1,285	354	114	16	5	39	4	163	1,279

Highway User Struck Rail Equip

Vehicle Speed	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow ?	Driver		
								Kld	Nonfatal	Unhurt
Unknown	27	18	5	1	1	-	2	1	4	17
Stopped	4	4	-	-	-	-	-	-	-	3
1-9	180	111	34	21	5	-	9	-	6	143
10-19	134	95	26	7	3	-	3	-	1	94
20-29	107	68	23	9	4	-	3	-	3	72
30-39	84	60	12	4	3	-	5	-	3	51
40-49	55	33	11	8	2	-	1	-	4	30
50-59	40	25	9	4	1	-	1	-	5	10
>= 60	16	13	1	1	1	-	-	-	6	2
Total	647	427	121	55	20	-	24	1	32	422

Grand Total

Vehicle Speed	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow ?	Driver		
								Kld	Nonfatal	Unhurt
Unknown	118	86	19	8	1	-	4	1	13	87
Stopped	709	480	140	54	10	4	21	4	29	593
1-9	580	411	111	39	8	-	11	-	46	404
10-19	440	317	84	26	3	-	10	-	41	285
20-29	280	190	64	15	5	-	6	-	34	166
30-39	166	118	27	10	3	-	8	-	11	98
40-49	87	60	14	8	3	1	1	-	9	46
50-59	55	32	12	7	2	-	2	-	5	16
>= 60	25	18	4	2	1	-	-	-	7	6
Total	2,460	1,712	475	169	36	5	63	5	195	1,701

**TABLE 8-9 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY DRIVER AGE, GENDER, AND TYPE VEHICLE, 2003**

Age	Total		Type Vehicle										Driver Gender	
	Cnt	%	Car	Truck	Trk& Trail	Pickup Trk	Van	Bus	Motorcycle	Oth Mtr V.	?	M	F	
Unknown	334	13.6	173	35	49	50	21	2		1	3	61	206	67
11-15	8	0.3	5	-	-	1	-	-		-	2	-	7	1
16-20	239	9.7	165	21	-	42	6	-		1	4	1	170	68
21-25	354	14.4	218	26	32	55	15	-		1	7	3	267	84
26-30	220	8.9	135	24	16	28	11	-		2	4	-	154	66
31-35	209	8.5	101	31	32	31	9	2		-	3	-	157	52
36-40	234	9.5	105	26	32	51	14	-		1	5	-	168	66
41-45	192	7.8	81	34	31	26	13	-		2	5	-	145	47
46-50	141	5.7	64	14	28	29	5	-		1	-	-	98	43
51-55	120	4.9	49	13	26	20	8	1		1	2	-	94	26
56-60	97	3.9	43	6	14	23	8	1		-	2	-	75	22
61-65	84	3.4	32	7	17	20	5	-		1	2	-	62	22
66-70	65	2.6	34	5	4	17	4	1		-	-	2	45	18
Other	163	6.6	120	8	2	28	4	-		1	-	-	107	56
Total	2,460	100.0	1,325	250	283	421	123	7		12	39	67	1,755	638

**TABLE 8-10 MOTOR VEHICLES THAT STRUCK CONSIST AT PUBLIC CROSSINGS,
BY CONSIST LENGTH, PORTION OF TRAIN STRUCK AND WARNING TYPE, 2003**

Consist Length	Position of Consist Struck							Type of Warning							
	Total	Unk	1st	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates	
			car/ loco												
1	46	-	46	-	-	-	-	-	22	1	1	2	10	10	
2-5	87	-	66	2	2	6	11	4	36	4	3	3	27	10	
6-10	70	-	49	3	8	3	7	-	27	8	6	3	15	11	
11-15	47	-	32	5	1	3	6	1	18	2	2	2	13	9	
16-20	33	-	21	2	2	3	5	-	9	3	1	2	8	10	
21-25	24	-	14	2	1	1	6	-	7	1	1	-	6	9	
26-30	25	-	15	2	1	2	5	1	12	-	1	1	8	2	
31-35	20	-	15	4	1	-	-	-	7	1	-	-	10	2	
36-40	18	-	10	5	1	-	2	-	4	2	-	1	5	6	
41-45	14	-	7	4	-	1	2	-	4	-	-	-	6	4	
46-50	18	-	10	2	3	1	2	-	5	2	-	-	4	7	
51-60	34	1	16	8	4	3	2	-	12	1	-	-	10	11	
61-70	38	-	12	13	6	3	4	-	11	2	-	-	11	14	
71-80	44	-	25	10	2	3	4	-	14	5	-	-	11	14	
81-90	28	-	15	8	1	1	3	-	7	5	-	-	7	9	
91-100	29	-	17	5	-	2	5	-	13	2	-	-	9	5	
> 100	72	-	32	15	4	10	11	-	25	2	-	2	19	24	
-Total	647	1	402	90	37	42	75	6	233	41	15	16	179	157	

**TABLE 8-11 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY CONSIST LENGTH, TYPE CONSIST, AND DRIVER GENDER, 2003**

Rail Equip Struck Highway User

Consist Length											Driver Gender	
	Total	Freight Train	Psg Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	?		M	F
1	94	-	1	-	37	-	55	1	2		64	28
2-5	197	67	51	1	-	29	48	1	3		140	54
6-10	177	78	67	3	-	28	1	-	7		121	49
11-15	93	51	25	1	-	16	-	-	6		66	21
16-20	74	56	13	2	-	3	-	-	3		47	24
21-25	73	58	4	1	-	10	-	-	3		46	24
26-30	57	52	2	-	-	3	-	-	2		41	14
31-35	51	45	2	-	-	4	-	-	2		37	12
36-40	65	64	-	1	-	-	-	-	-		53	12
41-45	60	55	-	-	-	5	-	-	3		36	21
46-50	54	52	-	1	-	1	-	-	-		39	15
51-60	124	120	-	1	-	3	-	-	3		91	30
61-70	125	123	-	-	-	2	-	-	1		87	37
71-80	136	136	-	-	-	-	-	-	4		105	27
81-90	93	92	-	-	-	1	-	-	2		70	21
91-100	91	90	1	-	-	-	-	-	3		58	30
> 100	249	249	-	-	-	-	-	-	8		172	69
Total	1,813	1,388	166	11	37	105	104	2	52		1,273	488

Highway User Struck Rail Equip

Consist Length											Driver Gender	
	Total	Freight Train	Psg Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	?		M	F
1	46	-	-	-	18	-	25	3	-		31	15
2-5	87	35	10	1	1	21	19	-	3		60	24
6-10	70	41	11	1	-	16	1	-	-		55	15
11-15	47	31	5	1	-	10	-	-	1		33	13
16-20	33	17	2	2	-	12	-	-	3		21	9
21-25	24	20	-	-	-	4	-	-	3		15	6
26-30	25	21	-	-	-	4	-	-	-		22	3
31-35	20	16	-	1	-	3	-	-	1		14	5
36-40	18	12	-	1	-	5	-	-	1		15	2
41-45	14	13	-	-	-	1	-	-	-		10	4
46-50	18	18	-	-	-	-	-	-	-		15	3
51-60	34	33	-	-	-	1	-	-	-		23	11
61-70	38	34	-	-	1	3	-	-	-		31	7
71-80	44	40	-	-	-	4	-	-	-		39	5
81-90	28	26	-	-	-	2	-	-	2		22	4
91-100	29	29	-	-	-	-	-	-	-		24	5
> 100	72	72	-	-	-	-	-	-	1		52	19
Total	647	458	28	7	20	86	45	3	15		482	150

**TABLE 8-12 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE CONSIST, NUMBER OF PEOPLE ON TRAIN, AND TYPE PERSON HURT, 2003**

Consist	People on Train		Total		Hwy User		RR Employees		Others	
	Total	Avg	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
Freight Train	4,025	2	176	641	176	612	0	29	0	0
Psgr Train	21,107	145	39	102	38	50	1	19	0	33
Commuter Train	6,901	144	12	36	11	11	0	2	1	23
Work Train	45	3	-	8	0	8	0	0	0	0
Single Car	19	2	-	1	0	1	0	0	0	0
Cut of Cars	3	3	-	1	0	1	0	0	0	0
Yard/ Switch	2,535	13	6	32	6	30	0	2	0	0
Light loco(s)	363	2	8	39	8	39	0	0	0	0
Maint Insp car	58	1	-	14	0	14	0	0	0	0
Spec MOW Eqp	5	1	-	1	0	1	0	0	0	0
Total	35,061	14	241	875	239	767	1	52	1	56

**TABLE 8-13 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE VEHICLE, NUMBER OF OCCUPANTS, AND VEHICLE DAMAGE, 2003**

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	1,596	1	4,735,661	3,574	132	458	132	451	0	5	0	2
Truck	295	1	1,527,721	6,111	26	158	24	89	1	23	1	46
Trk& Trail	285	1	3,663,712	12,946	6	61	6	39	0	19	0	3
Pickup Trk	509	1	1,720,275	4,086	49	138	49	132	0	2	0	4
Van	157	1	559,160	4,546	16	45	16	45	0	0	0	0
Bus	6	1	23,500	3,357	-	2	0	2	0	0	0	0
Motorcycle	10	1	27,500	2,292	5	4	5	4	0	0	0	0
Oth Mtr V.	33	1	369,950	9,486	7	9	7	5	0	3	0	1
Total	2,891	1	12,627,479	5,133	241	875	239	767	1	52	1	56

**TABLE 8-14 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE WARNING, POSITION ON CROSSING AND IF HAZMAT WAS RELEASED, 2003**

Rail Equip Struck Highway User

Type Warning	Total		Position on Crossing				Hazmat Released By				
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy User	Rail User	Both	Neither
Unknown	6	0.2	1	-	5	-	-	-	1	-	5
Cross bucks	607	24.7	34	139	431	3	1	2	142	1	461
Stop signs	196	8.0	13	52	131	-	-	2	44	1	149
Special warning	24	1.0	-	7	17	-	-	-	1	-	23
HWTs,WW,Bells	22	0.9	1	6	15	-	-	-	5	-	17
Flashing lights	336	13.7	19	92	223	2	-	1	74	1	260
Gates	622	25.3	86	255	238	43	3	-	117	-	502
Total	1,813	73.7	154	551	1,060	48	4	5	384	3	1,417

Highway User Struck Rail Equip

Type Warning	Total		Position on Crossing				Hazmat Released By				
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy User	Rail User	Both	Neither
Unknown	6	0.2	-	-	6	-	-	-	-	-	6
Cross bucks	233	9.5	-	-	233	-	-	-	40	-	193
Stop signs	41	1.7	-	-	41	-	-	-	8	-	33
Special warning	15	0.6	-	-	15	-	-	-	1	-	14
HWTs,WW,Bells	16	0.7	-	1	15	-	-	-	2	-	14
Flashing lights	179	7.3	-	1	178	-	-	-	38	-	141
Gates	157	6.4	-	2	155	-	-	-	34	-	123
Total	647	26.3	-	4	643	-	-	-	123	-	524

Grand Total

Type Warning	Total		Position on Crossing				Hazmat Released By				
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy User	Rail User	Both	Neither
Unknown	12	0.5	1	-	11	-	-	-	1	-	11
Cross bucks	840	34.1	34	139	664	3	1	2	182	1	654
Stop signs	237	9.6	13	52	172	-	-	2	52	1	182
Special warning	39	1.6	-	7	32	-	-	-	2	-	37
HWTs,WW,Bells	38	1.5	1	7	30	-	-	-	7	-	31
Flashing lights	515	20.9	19	93	401	2	-	1	112	1	401
Gates	779	31.7	86	257	393	43	3	-	151	-	625
Total	2,460	100.0	154	555	1,703	48	4	5	507	3	1,941

**TABLE 8-15 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS
BY TYPE VEHICLE AND WARNING, 2003**

Rail Equip Struck Highway User

Type Vehicle	Total		Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%							
Car	980	39.8	-	288	72	15	15	203	387
Truck	181	7.4	2	74	25	4	3	30	43
Trk& Trail	247	10.0	3	93	40	2	2	31	76
Pickup Trk	277	11.3	-	114	43	2	2	51	65
Van	85	3.5	-	24	12	1	-	14	34
Bus	6	0.2	-	1	-	-	-	2	3
Motorcycle	5	0.2	-	-	-	-	-	2	3
Oth Mtr V.	32	1.3	1	13	4	-	-	3	11
Total	1,813	73.7	6	607	196	24	22	336	622

Highway User Struck Rail Equip

Type Vehicle	Total		Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%							
Car	345	14.0	2	125	19	11	7	85	96
Truck	69	2.8	1	25	5	1	2	24	11
Trk& Trail	36	1.5	2	8	2	-	-	15	9
Pickup Trk	144	5.9	1	65	11	2	4	37	24
Van	38	1.5	-	8	4	-	3	9	14
Bus	1	0.0	-	-	-	-	-	-	1
Motorcycle	7	0.3	-	-	-	1	-	6	-
Oth Mtr V.	7	0.3	-	2	-	-	-	3	2
Total	647	26.3	6	233	41	15	16	179	157

Grand Total

Type Vehicle	Total		Unknown	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%							
Car	1,325	53.9	2	413	91	26	22	288	483
Truck	250	10.2	3	99	30	5	5	54	54
Trk& Trail	283	11.5	5	101	42	2	2	46	85
Pickup Trk	421	17.1	1	179	54	4	6	88	89
Van	123	5.0	-	32	16	1	3	23	48
Bus	7	0.3	-	1	-	-	-	2	4
Motorcycle	12	0.5	-	-	-	1	-	8	3
Oth Mtr V.	39	1.6	1	15	4	-	-	6	13
Total	2,460	100.0	12	840	237	39	38	515	779

**TABLE 8-16 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING,
BY WARNING STATUS FOR ACCIDENTS OCCURRING AT CROSSINGS
WITH TRAIN ACTIVATED DEVICES BY TYPE VEHICLE, 2003**

Rail Equip Struck Highway User

Type Vehicle	Status of Warning System						
	Total	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	605	588	12	-	2	-	3
Truck	76	71	4	-	-	-	1
Trk& Trail	109	105	1	1	-	1	1
Pickup Trk	118	114	1	1	1	-	1
Van	48	45	2	-	-	-	1
Bus	5	5	-	-	-	-	-
Motorcycle	5	5	-	-	-	-	-
Oth Mtr V.	14	14	-	-	-	-	-
Total	980	947	20	2	3	1	7

Highway User Struck Rail Equip

Type Vehicle	Status of Warning System						
	Total	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	188	172	4	4	-	2	6
Truck	37	36	1	-	-	-	-
Trk& Trail	24	19	2	-	1	1	1
Pickup Trk	65	57	1	1	2	1	3
Van	26	24	2	-	-	-	-
Bus	1	1	-	-	-	-	-
Motorcycle	6	5	1	-	-	-	-
Oth Mtr V.	5	4	1	-	-	-	-
Total	352	318	12	5	3	4	10

Grand Total

Type Vehicle	Status of Warning System						
	Total	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	793	760	16	4	2	2	9
Truck	113	107	5	-	-	-	1
Trk& Trail	133	124	3	1	1	2	2
Pickup Trk	183	171	2	2	3	1	4
Van	74	69	4	-	-	-	1
Bus	6	6	-	-	-	-	-
Motorcycle	11	10	1	-	-	-	-
Oth Mtr V.	19	18	1	-	-	-	-
Total	1,332	1,265	32	7	6	5	17

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, 2003

Railroads	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alton & Southern	39	0.0	-	-	22	0.0	17	0.0
Alaska RR Corp.	338	0.1	8	0.0	107	0.0	223	0.1
Amtrak	280	0.1	13	0.0	57	0.0	210	0.1
Bangor & Aroostook	505	0.2	5	0.0	342	0.1	158	0.1
Burlington Northern Santa Fe	30,647	12.4	229	0.1	11,099	4.5	19,319	7.8
Belt Rwy Of Chicago	126	0.1	-	-	82	0.0	44	0.0
Consolidated Rail Corp.	2,049	0.8	29	0.0	824	0.3	1,196	0.5
Conrail Shared Assets	858	0.3	2	0.0	217	0.1	639	0.3
CSX Transportation	29,303	11.9	295	0.1	9,889	4.0	19,119	7.8
Delaware & Hudson	648	0.3	4	0.0	370	0.2	274	0.1
Dakota,Minnesota & Eastern	1,367	0.6	2	0.0	554	0.2	811	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	271	0.1	7	0.0	79	0.0	185	0.1
Florida East Coast	850	0.3	12	0.0	109	0.0	729	0.3
Grand Canyon Railway	23	0.0	1	0.0	13	0.0	9	0.0
Guilford Rail System	1,369	0.6	13	0.0	591	0.2	765	0.3
Grand Trunk Western RR	898	0.4	8	0.0	220	0.1	670	0.3
Gateway Western	572	0.2	4	0.0	246	0.1	322	0.1
Illinois Central	5,480	2.2	67	0.0	2,058	0.8	3,355	1.4
Iowa Chicago & Eastern RR	1,561	0.6	4	0.0	391	0.2	1,166	0.5
Indiana Harbor Belt	121	0.0	2	0.0	43	0.0	76	0.0
Kansas City Southern	4,231	1.7	10	0.0	1,637	0.7	2,584	1.0
Long Island Rail Road	366	0.1	11	0.0	59	0.0	296	0.1
MD Assn. of Rail Comm	133	0.1	4	0.0	78	0.0	51	0.0
Mass Bay Transit Auth.	283	0.1	1	0.0	18	0.0	264	0.1
Metro North Commuter	173	0.1	3	0.0	79	0.0	91	0.0
Montana Rail Link	1,158	0.5	3	0.0	708	0.3	447	0.2
Northern IN Comm Trans	184	0.1	7	0.0	31	0.0	146	0.1
Northeast IL Reg Comm	181	0.1	16	0.0	25	0.0	140	0.1
New Jersey Transit Rail	472	0.2	27	0.0	92	0.0	353	0.1
Norfolk Southern Corp.	32,817	13.3	149	0.1	12,695	5.2	19,973	8.1
Paducah & Louisville	452	0.2	3	0.0	186	0.1	263	0.1
Port Auth Trans Hudson	2	0.0	-	-	2	0.0	-	-
Port Terminal RR Assn	166	0.1	1	0.0	100	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.	286	0.1	11	0.0	46	0.0	229	0.1
Soo Line	2,681	1.1	23	0.0	1,402	0.6	1,256	0.5
Term RR Assn Of St. Louis	125	0.1	-	-	11	0.0	114	0.0
Union Pacific	48,740	19.8	321	0.1	19,262	7.8	29,157	11.8
Union RR (Pittsburgh)	59	0.0	6	0.0	39	0.0	14	0.0
Wisconsin Central Ltd.	3,935	1.6	50	0.0	1,474	0.6	2,411	1.0
Wheeling & Lake Erie	972	0.4	9	0.0	404	0.2	559	0.2
Wisconsin & Southern RR	1,258	0.5	19	0.0	501	0.2	738	0.3
Other Railroads	69,686	28.3	533	0.2	28,608	11.6	40,545	16.5
Total	246,429	100.0	1,930	0.8	94,965	38.5	149,534	60.7

TABLE 9-2 AT-GRADE HIGHWAY-RAIL CROSSINGS BY STATE, 2003

States	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	5,223	2.1	20	0.0	1,841	0.7	3,362	1.4
Alaska	342	0.1	8	0.0	107	0.0	227	0.1
Arizona	1,571	0.6	7	0.0	661	0.3	903	0.4
Arkansas	4,641	1.9	9	0.0	1,470	0.6	3,162	1.3
California	12,574	5.1	161	0.1	4,652	1.9	7,761	3.1
Colorado	3,150	1.3	21	0.0	1,244	0.5	1,885	0.8
Connecticut	657	0.3	9	0.0	278	0.1	370	0.2
Delaware	456	0.2	2	0.0	148	0.1	306	0.1
Dist Of Columbia	40	0.0	10	0.0	22	0.0	8	0.0
Florida	5,230	2.1	58	0.0	1,267	0.5	3,905	1.6
Georgia	8,318	3.4	39	0.0	2,483	1.0	5,796	2.4
Hawaii	8	0.0	-	-	-	-	8	0.0
Idaho	2,496	1.0	14	0.0	1,175	0.5	1,307	0.5
Illinois	13,111	5.3	274	0.1	4,624	1.9	8,213	3.3
Indiana	8,090	3.3	49	0.0	1,970	0.8	6,071	2.5
Iowa	8,396	3.4	43	0.0	3,721	1.5	4,632	1.9
Kansas	10,226	4.1	31	0.0	3,964	1.6	6,231	2.5
Kentucky	5,002	2.0	38	0.0	2,484	1.0	2,480	1.0
Louisiana	6,676	2.7	42	0.0	3,159	1.3	3,475	1.4
Maine	1,684	0.7	9	0.0	834	0.3	841	0.3
Maryland	1,384	0.6	7	0.0	686	0.3	691	0.3
Massachusetts	1,332	0.5	18	0.0	496	0.2	818	0.3
Michigan	7,922	3.2	65	0.0	2,483	1.0	5,374	2.2
Minnesota	8,047	3.3	52	0.0	2,971	1.2	5,024	2.0
Mississippi	4,692	1.9	16	0.0	1,959	0.8	2,717	1.1
Missouri	7,851	3.2	69	0.0	3,139	1.3	4,643	1.9
Montana	3,402	1.4	15	0.0	1,916	0.8	1,471	0.6
Nebraska	6,273	2.5	16	0.0	2,513	1.0	3,744	1.5
Nevada	549	0.2	3	0.0	247	0.1	299	0.1
New Hampshire	637	0.3	10	0.0	224	0.1	403	0.2
New Jersey	2,100	0.9	46	0.0	530	0.2	1,524	0.6
New Mexico	1,252	0.5	-	-	513	0.2	739	0.3
New York	5,885	2.4	78	0.0	2,879	1.2	2,928	1.2
North Carolina	7,644	3.1	55	0.0	3,184	1.3	4,405	1.8
North Dakota	6,033	2.4	17	0.0	1,849	0.8	4,167	1.7
Ohio	9,661	3.9	38	0.0	3,249	1.3	6,374	2.6
Oklahoma	5,688	2.3	13	0.0	1,520	0.6	4,155	1.7
Oregon	5,176	2.1	88	0.0	2,819	1.1	2,269	0.9
Pennsylvania	8,026	3.3	111	0.0	3,127	1.3	4,788	1.9
Rhode Island	190	0.1	1	0.0	71	0.0	118	0.0
South Carolina	4,165	1.7	10	0.0	1,237	0.5	2,918	1.2
South Dakota	3,409	1.4	7	0.0	1,271	0.5	2,131	0.9
Tennessee	5,046	2.0	24	0.0	1,839	0.7	3,183	1.3
Texas	17,421	7.1	32	0.0	5,958	2.4	11,431	4.6
Utah	1,647	0.7	3	0.0	718	0.3	926	0.4
Vermont	1,178	0.5	44	0.0	638	0.3	496	0.2
Virginia	4,837	2.0	42	0.0	2,744	1.1	2,051	0.8
Washington	5,578	2.3	56	0.0	2,858	1.2	2,664	1.1
West Virginia	3,560	1.4	54	0.0	1,930	0.8	1,576	0.6
Wisconsin	6,793	2.8	95	0.0	2,531	1.0	4,167	1.7
Wyoming	1,160	0.5	1	0.0	762	0.3	397	0.2
Total	246,429	100.0	1,930	0.8	94,965	38.5	149,534	60.7

TABLE 9-3 PUBLIC AT GRADE BY WARNING DEVICE AND RAILROAD, 2003

Railroads	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates
	Cnt	%								
Alton & Southern	17	0.01	-	-	5	-	-	-	7	5
Alaska RR Corp.	223	0.15	8	2	96	30	7	-	22	58
Amtrak	210	0.14	5	3	7	4	5	-	4	182
Bangor & Aroostook	158	0.11	-	-	58	4	5	-	86	5
Burlington Northern Santa Fe	19,319	12.92	390	22	10,021	829	151	102	2,353	5,451
Belt Rwy Of Chicago	44	0.03	5	-	14	-	1	-	8	16
Consolidated Rail Corp.	1,196	0.80	144	115	355	31	213	18	235	85
Conrail Shared Assets	639	0.43	45	-	114	8	65	2	329	76
CSX Transportation	19,119	12.79	466	11	5,415	1,648	335	92	4,160	6,992
Delaware & Hudson	274	0.18	4	-	33	2	1	3	36	195
Dakota, Minnesota & Eastern	811	0.54	31	-	598	48	-	3	102	29
Duluth, Missabe & Iron Range	140	0.09	1	2	72	31	2	-	15	17
Duluth, Winnipeg & Pacific	81	0.05	-	-	42	14	1	-	9	15
Elgin, Joliet & Eastern	185	0.12	-	-	19	4	4	1	39	118
Florida East Coast	729	0.49	9	-	46	3	27	-	31	613
Grand Canyon Railway	9	0.01	2	-	6	-	-	-	-	1
Guilford Rail System	765	0.51	21	3	162	32	117	15	248	167
Grand Trunk Western RR	670	0.45	4	-	19	176	19	2	116	334
Gateway Western	322	0.22	-	-	181	9	-	15	89	28
Illinois Central	3,355	2.24	143	50	1,383	280	47	18	782	652
Iowa Chicago & Eastern RR	1,166	0.78	17	1	673	103	12	8	241	111
Indiana Harbor Belt	76	0.05	1	-	10	-	14	-	19	32
Kansas City Southern	2,584	1.73	111	11	1,445	161	2	7	443	404
Long Island Rail Road	296	0.20	-	1	5	-	-	-	-	290
MD Assn. of Rail Comm	51	0.03	7	-	11	6	4	8	9	6
Mass Bay Transit Auth.	264	0.18	8	-	35	2	17	3	25	174
Metro North Commuter	91	0.06	2	-	3	-	1	1	44	40
Montana Rail Link	447	0.30	6	-	264	44	-	1	64	68
Northern IN Comm Trans	146	0.10	7	-	35	19	-	2	47	36
Northeast IL Reg Comm	140	0.09	1	-	2	1	-	1	11	124
New Jersey Transit Rail	353	0.24	7	-	28	1	11	1	79	226
Norfolk Southern Corp.	19,973	13.36	647	91	6,995	1,810	403	102	3,720	6,205
Paducah & Louisville	263	0.18	3	1	122	9	1	3	104	20
Port Terminal RR Assn	65	0.04	5	-	24	1	-	-	10	25
Southern CA Reg Rail Auth.	330	0.22	-	-	31	4	-	-	20	275
Southeastern PA Trans.	229	0.15	45	10	28	9	17	21	54	45
Soo Line	1,256	0.84	37	-	552	193	13	3	145	313
Term RR Assn Of St. Louis	114	0.08	1	-	11	2	41	-	17	42
Union Pacific	29,157	19.50	1,109	47	13,459	1,762	259	359	3,927	8,235
Union RR (Pittsburgh)	14	0.01	-	-	-	-	-	10	1	3
Wisconsin Central Ltd.	2,411	1.61	13	-	1,057	361	19	13	613	335
Wheeling & Lake Erie	559	0.37	8	-	270	22	1	2	142	114
Wisconsin & Southern RR	738	0.49	2	-	172	233	10	11	279	31
Other Railroads	40,545	27.11	1,489	242	22,514	3,742	1,147	409	6,709	4,293
Total	149,534	100.0	4,804	612	66,392	11,638	2,972	1,236	25,394	36,486

TABLE 9-4 PUBLIC AT GRADE BY WARNING DEVICE AND STATE, 2003

States	Total										AADT
	Cnt	%	Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates	
Alabama	3,362	2.25	103	9	1,407	679	23	14	606	521	6,781,381
Alaska	227	0.15	9	2	99	30	7	-	22	58	473,053
Arizona	903	0.60	23	-	325	90	11	5	64	385	2,954,957
Arkansas	3,162	2.11	123	1	1,912	205	68	29	429	395	3,850,095
California	7,761	5.19	172	17	2,809	319	42	270	988	3,144	40,680,186
Colorado	1,885	1.26	61	3	905	211	31	31	235	408	3,726,244
Connecticut	370	0.25	13	-	28	48	29	5	142	105	1,299,187
Delaware	306	0.20	15	-	42	4	21	1	174	49	1,071,492
Dist Of Columbia	8	0.01	-	-	-	2	4	-	2	-	144,200
Florida	3,905	2.61	50	4	796	153	81	10	552	2,259	18,983,539
Georgia	5,796	3.88	159	7	2,400	1,085	101	14	304	1,726	8,963,384
Hawaii	8	0.01	-	1	6	1	-	-	-	-	27,000
Idaho	1,307	0.87	6	-	431	542	1	4	174	149	1,738,737
Illinois	8,213	5.49	204	1	3,155	63	118	77	2,173	2,422	21,421,157
Indiana	6,071	4.06	156	6	1,776	1,134	3	66	1,433	1,497	14,142,508
Iowa	4,632	3.10	34	1	2,545	340	22	30	916	744	4,626,280
Kansas	6,231	4.17	109	7	4,214	232	68	41	555	1,005	5,065,453
Kentucky	2,480	1.66	113	1	1,057	53	50	15	783	408	3,973,739
Louisiana	3,475	2.32	212	15	1,691	256	36	15	634	616	7,013,083
Maine	841	0.56	7	-	274	12	69	4	395	80	1,996,083
Maryland	691	0.46	27	1	254	38	27	23	213	108	2,468,518
Massachusetts	818	0.55	33	3	118	9	62	11	300	282	5,002,208
Michigan	5,374	3.59	148	7	1,190	1,607	92	30	1,360	940	14,831,035
Minnesota	5,024	3.36	97	4	2,885	699	17	11	539	772	6,769,532
Mississippi	2,717	1.82	174	123	1,061	523	47	8	516	265	4,828,860
Missouri	4,643	3.10	220	5	2,554	140	87	52	868	717	4,811,768
Montana	1,471	0.98	50	-	965	87	10	3	161	195	1,298,598
Nebraska	3,744	2.50	107	7	2,500	216	4	10	255	645	2,412,874
Nevada	299	0.20	3	3	126	10	2	1	24	130	910,416
New Hampshire	403	0.27	2	2	110	39	80	10	125	35	1,039,669
New Jersey	1,524	1.02	53	-	314	18	125	14	602	398	8,975,590
New Mexico	739	0.49	8	4	377	19	1	5	104	221	887,420
New York	2,928	1.96	89	21	567	22	162	50	435	1,582	7,798,163
North Carolina	4,405	2.95	175	5	1,902	56	125	17	699	1,426	8,965,264
North Dakota	4,167	2.79	146	-	3,397	66	1	-	51	506	1,238,966
Ohio	6,374	4.26	81	10	2,622	167	71	25	1,107	2,291	14,130,800
Oklahoma	4,155	2.78	63	7	2,646	116	63	21	574	665	4,534,588
Oregon	2,269	1.52	118	44	832	424	90	44	133	584	4,456,429
Pennsylvania	4,788	3.20	322	262	1,640	119	415	70	1,201	759	14,259,069
Rhode Island	118	0.08	22	1	7	4	22	22	24	16	547,375
South Carolina	2,918	1.95	15	-	984	451	111	3	446	908	7,075,765
South Dakota	2,131	1.43	75	-	1,804	30	-	1	200	21	1,271,015
Tennessee	3,183	2.13	193	2	1,498	161	173	16	697	443	6,677,539
Texas	11,431	7.64	464	9	5,366	299	93	75	1,363	3,762	28,568,955
Utah	926	0.62	62	5	383	46	76	6	154	194	1,753,296
Vermont	496	0.33	6	-	198	25	39	3	194	31	734,455
Virginia	2,051	1.37	47	4	474	8	47	9	425	1,037	5,839,483
Washington	2,664	1.78	260	2	1,332	100	38	25	370	537	4,852,002
West Virginia	1,576	1.05	128	6	706	25	17	5	463	226	1,770,884
Wisconsin	4,167	2.79	37	-	1,580	647	89	34	1,137	643	9,553,742
Wyoming	397	0.27	10	-	128	8	1	1	73	176	345,785
Total	149,534	100.0	4,804	612	66,392	11,638	2,972	1,236	25,394	36,486	327,541,821

TABLE 9-5 PRIVATE/PEDESTRIAN AT GRADE BY DEVELOPMENT AND RAILROAD,2003

Railroads	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alton & Southern	22	0.02	-	8	5	-	9
Alaska RR Corp.	108	0.11	-	4	15	5	84
Amtrak	57	0.06	-	27	11	2	17
Bangor & Aroostook	342	0.36	-	148	33	45	116
Burlington Northern Santa Fe	11,099	11.68	3	7,576	812	122	2,586
Belt Rwy Of Chicago	82	0.09	-	-	-	-	82
Consolidated Rail Corp.	824	0.87	-	360	92	32	340
Conrail Shared Assets	217	0.23	-	42	19	5	151
CSX Transportation	9,896	10.42	401	5,297	1,795	179	2,224
Delaware & Hudson	370	0.39	-	249	48	24	49
Dakota,Minnesota & Eastern	554	0.58	-	477	8	1	68
Duluth,Missabe & Iron Range	129	0.14	-	24	17	1	87
Duluth,Winnipeg & Pacific	20	0.02	-	4	4	7	5
Elgin, Joliet & Eastern	79	0.08	4	23	1	-	51
Florida East Coast	111	0.12	84	3	2	1	21
Grand Canyon Railway	13	0.01	-	11	-	1	1
Guilford Rail System	592	0.62	-	195	62	23	312
Grand Trunk Western RR	220	0.23	-	155	12	3	50
Gateway Western	246	0.26	-	216	2	1	27
Illinois Central	2,058	2.17	2	1,369	228	13	446
Iowa Chicago & Eastern RR	391	0.41	-	290	55	9	37
Indiana Harbor Belt	43	0.05	4	-	-	-	39
Kansas City Southern	1,637	1.72	1	1,084	196	10	346
Long Island Rail Road	59	0.06	-	45	5	3	6
MD Assn. of Rail Comm	78	0.08	-	50	10	2	16
Mass Bay Transit Auth.	18	0.02	1	11	1	1	4
Metro North Commuter	79	0.08	-	19	10	9	41
Montana Rail Link	708	0.75	-	491	63	16	138
Northern IN Comm Trans	36	0.04	8	11	2	2	13
Northeast IL Reg Comm	25	0.03	-	10	7	1	7
New Jersey Transit Rail	92	0.10	-	35	18	4	35
Norfolk Southern Corp.	12,699	13.37	924	6,875	2,353	201	2,346
Paducah & Louisville	186	0.20	-	118	30	1	37
Port Auth Trans Hudson	2	0.00	-	1	-	-	1
Port Terminal RR Assn	100	0.11	-	1	-	-	99
Southern CA Reg Rail Auth.	46	0.05	-	13	6	3	24
Southeastern PA Trans.	46	0.05	-	19	12	2	13
Soo Line	1,402	1.48	-	1,140	62	13	187
Term RR Assn Of St. Louis	11	0.01	-	3	-	-	8
Union Pacific	19,263	20.28	160	12,464	1,516	206	4,917
Union RR (Pittsburgh)	39	0.04	-	-	-	-	39
Wisconsin Central Ltd.	1,474	1.55	-	854	152	46	422
Wheeling & Lake Erie	404	0.43	1	216	36	6	145
Wisconsin & Southern RR	501	0.53	-	393	16	21	71
Other Railroads	28,627	30.13	243	17,245	3,801	606	6,732
Total	95,005	100.0	1,836	57,576	11,517	1,627	22,449

TABLE 9-6 PRIVATE/PEDESTRIAN AT GRADE BY TYPE DEVELOPMENT AND STATE, 2003

States	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alabama	1,841	1.94	5	1,049	319	31	437
Alaska	108	0.11	-	4	15	5	84
Arizona	661	0.70	1	376	24	10	250
Arkansas	1,470	1.55	-	968	212	20	270
California	4,653	4.90	10	2,055	333	121	2,134
Colorado	1,244	1.31	2	753	234	13	242
Connecticut	278	0.29	3	55	39	33	148
Delaware	148	0.16	-	82	37	4	25
Dist Of Columbia	30	0.03	2	-	1	-	27
Florida	1,276	1.34	213	409	180	25	449
Georgia	2,483	2.61	-	1,363	597	32	491
Idaho	1,176	1.24	1	763	43	9	360
Illinois	4,623	4.87	4	2,983	414	64	1,158
Indiana	1,984	2.09	108	1,197	361	19	299
Iowa	3,721	3.92	1	2,725	323	48	624
Kansas	3,964	4.17	-	3,358	193	7	406
Kentucky	2,484	2.61	-	1,447	675	17	345
Louisiana	3,159	3.33	-	1,726	484	21	928
Maine	834	0.88	-	348	114	72	300
Maryland	686	0.72	-	391	71	15	209
Massachusetts	496	0.52	1	165	59	37	234
Michigan	2,483	2.61	4	1,260	371	122	726
Minnesota	2,971	3.13	2	2,123	243	50	553
Mississippi	1,959	2.06	3	1,289	391	7	269
Missouri	3,139	3.30	1	2,233	324	21	560
Montana	1,916	2.02	-	1,487	107	25	297
Nebraska	2,513	2.65	-	2,219	79	10	205
Nevada	247	0.26	161	32	3	7	44
New Hampshire	225	0.24	2	112	32	23	56
New Jersey	530	0.56	1	188	60	10	271
New Mexico	513	0.54	-	381	24	2	106
New York	2,887	3.04	6	1,874	346	154	507
North Carolina	3,184	3.35	1	1,581	820	28	754
North Dakota	1,849	1.95	-	1,644	25	7	173
Ohio	3,249	3.42	15	2,093	292	36	813
Oklahoma	1,519	1.60	1	1,120	146	10	242
Oregon	2,820	2.97	-	1,334	334	41	1,111
Pennsylvania	3,128	3.29	5	1,338	470	147	1,168
Rhode Island	71	0.07	-	7	18	9	37
South Carolina	1,237	1.30	-	620	295	19	303
South Dakota	1,272	1.34	-	1,054	77	4	137
Tennessee	1,839	1.94	1	1,074	390	24	350
Texas	5,958	6.27	4	3,952	504	33	1,465
Utah	718	0.76	-	465	35	14	204
Vermont	638	0.67	-	441	63	29	105
Virginia	2,741	2.89	1,272	962	187	17	303
Washington	2,858	3.01	3	1,374	370	49	1,062
West Virginia	1,930	2.03	1	845	587	44	453
Wisconsin	2,531	2.66	-	1,643	184	81	623
Wyoming	761	0.80	2	614	12	1	132
Total	95,005	100.0	1,836	57,576	11,517	1,627	22,449

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, 2003

Condition	Tot	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		
Bruise/contusion	55	7	1	-	5	3	5	2	7	5	8	2	6	2	2	
Crushing injury	7	-	-	-	-	1	1	1	-	-	-	3	1	-	-	
Sprain/Str.,leg/foot	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	
Sprain/Str.,head/fac	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
Sprain/Str., other	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Cut/abrasion	68	2	-	-	5	8	13	7	6	8	7	5	4	2	1	
Puncture wound	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Electric shock/burn	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	
Fracture,arm/hand	23	3	1	-	-	4	-	1	2	6	3	3	-	-	-	
Fracture,leg/foot	29	2	-	1	1	3	3	3	2	3	5	4	2	-	-	
Fracture,head/face	7	1	-	-	-	1	2	-	-	-	2	-	-	-	1	
Fracture,torso	8	-	-	-	-	1	1	-	4	-	-	-	1	-	1	
Fracture,multiple	4	-	-	-	-	-	-	2	-	-	2	-	-	-	-	
Amputation,arm/hand	13	-	-	-	-	1	1	3	2	-	1	4	-	1	-	
Amputation,leg/foot	64	-	-	3	8	5	8	7	13	6	8	2	3	1	-	
Fatality	501	49	2	2	12	44	55	42	56	57	63	54	24	18	23	
Concussion	3	-	-	-	-	-	2	-	-	-	-	1	-	-	-	
Internal injury	17	1	-	-	1	5	1	2	1	2	3	-	1	-	-	
Unspecified injury	88	7	-	-	2	7	18	12	8	10	12	5	1	3	3	
Total	897	73	4	6	37	84	112	83	102	97	114	83	44	27	31	

TABLE 10-2 TRESPASSERS KILLED, BY RAILROAD AND AGE, NOT AT HRC, 2003

Railroads	Tot	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	
Amtrak	64	10	-	-	1	4	7	3	6	8	3	10	4	2	6
Burlington Northern Santa Fe	69	17	-	1	2	7	4	7	7	8	5	7	2	1	1
CSX Transportation	77	2	1	-	2	7	16	4	8	8	7	10	4	4	4
Delaware & Hudson	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Dakota,Minnesota & Eastern	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Florida East Coast	16	-	-	-	-	1	3	2	2	1	4	-	-	1	2
Guilford Rail System	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-
Grand Trunk Western RR	4	1	-	-	-	-	-	-	-	1	-	-	-	1	1
Illinois Central	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Kansas City Southern	6	3	1	-	-	-	-	-	1	-	-	-	-	-	1
Long Island Rail Road	4	2	-	-	-	-	-	1	-	-	-	-	-	-	1
Mass Bay Transit Auth.	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Northeast IL Reg Comm	8	-	-	-	-	1	1	1	1	1	-	1	1	-	1
New Jersey Transit Rail	7	-	-	-	-	-	-	2	2	1	-	-	1	-	1
Norfolk Southern Corp.	65	-	-	-	2	4	6	6	6	11	13	8	4	5	-
Peninsula Comm San Mateo Cnty	9	4	-	-	-	-	-	1	1	-	-	2	-	-	1
Southern CA Reg Rail Auth.	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Soo Line	5	-	-	-	1	-	-	1	-	-	2	1	-	-	-
Union Pacific	133	-	-	1	3	16	15	11	21	17	23	13	7	3	3
Wisconsin Central Ltd.	3	1	-	-	-	-	1	1	-	-	-	-	-	-	-
Other Railroads	18	4	-	-	1	3	1	1	-	-	4	1	1	1	1
Total	501	49	2	2	12	44	55	42	56	57	63	54	24	18	23

TABLE 10-3 TRESPASSERS KILLED, BY STATE AND AGE, NOT AT HRC, 2003

States	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	
Alabama	5	-	-	-	-	-	-	-	1	2	-	2	-	-	-	
Arizona	10	1	-	-	-	2	-	4	1	1	1	-	-	-	-	
Arkansas	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	
California	85	19	-	-	1	6	8	5	10	7	8	11	4	1	5	
Colorado	5	1	-	-	-	-	-	1	-	1	1	-	1	-	-	
Connecticut	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	
Delaware	3	-	-	-	-	-	-	1	-	1	-	1	-	-	-	
Dist Of Columbia	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Florida	32	2	-	-	-	2	7	3	4	2	5	3	1	1	2	
Georgia	22	-	-	-	2	-	3	-	2	6	3	2	2	2	-	
Idaho	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	
Illinois	26	2	-	-	1	3	5	3	1	2	3	2	3	-	1	
Indiana	9	-	1	-	-	1	1	1	-	1	1	1	1	1	-	
Iowa	6	-	-	-	2	1	1	-	-	-	-	1	-	1	-	
Kansas	6	-	-	-	-	-	-	-	3	1	1	-	1	-	-	
Kentucky	5	-	-	-	-	1	-	-	-	1	-	1	-	1	1	
Louisiana	7	2	-	-	-	2	1	-	1	-	1	-	-	-	-	
Maine	2	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
Maryland	8	-	-	-	-	-	1	2	-	1	1	2	-	1	-	
Massachusetts	11	5	-	-	-	1	1	1	1	-	1	1	-	-	-	
Michigan	7	2	-	-	-	-	-	-	-	1	-	-	-	2	2	
Minnesota	5	-	-	-	-	1	1	-	-	-	2	-	-	-	1	
Mississippi	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
Missouri	11	1	1	-	-	2	-	1	-	1	2	3	-	-	-	
Montana	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nebraska	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	
Nevada	5	-	-	-	-	-	-	1	1	-	3	-	-	-	-	
New Hampshire	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
New Jersey	13	2	-	-	-	1	1	2	2	2	-	1	1	-	1	
New Mexico	8	2	-	-	-	1	1	-	-	2	1	-	-	1	-	
New York	19	3	-	-	-	1	2	1	2	2	2	-	1	2	3	
North Carolina	17	1	-	-	1	2	2	1	3	-	4	2	1	-	-	
Ohio	12	-	-	-	-	-	4	-	-	1	3	2	1	1	-	
Oklahoma	9	-	-	-	1	1	1	-	1	-	2	2	-	-	1	
Oregon	8	-	-	-	-	1	-	-	1	3	1	1	1	-	-	
Pennsylvania	18	-	-	-	1	4	2	3	2	-	-	2	1	2	1	
Rhode Island	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
South Carolina	5	-	-	-	-	-	1	1	1	-	1	1	-	-	-	
Tennessee	13	-	-	-	1	-	1	2	-	4	2	1	2	-	-	
Texas	51	1	-	-	2	6	3	4	12	7	7	3	1	2	3	
Utah	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	
Virginia	6	1	-	-	-	1	1	-	1	1	-	1	-	-	-	
Washington	13	-	-	2	-	1	2	1	1	4	1	1	-	-	-	
West Virginia	7	-	-	-	-	-	-	-	1	1	2	1	1	-	1	
Wisconsin	12	-	-	-	-	2	3	2	-	1	1	3	-	-	-	
Wyoming	3	1	-	-	-	-	-	1	-	-	1	-	-	-	-	
Total	501	49	2	2	12	44	55	42	56	57	63	54	24	18	23	

TABLE 10-4 TRESPASSERS INJURED, BY RAILROAD AND AGE, NOT AT HRC, 2003

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	0.3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Amtrak	22	5.6	5	1	-	2	3	3	1	4	1	1	1	-	-	-
Burlington Northern Santa Fe	39	9.8	6	-	1	2	6	6	3	3	1	3	2	2	2	2
Conrail Shared Assets	2	0.5	-	-	-	-	-	1	1	-	-	-	-	-	-	-
CSX Transportation	55	13.9	2	-	1	3	3	9	5	8	10	6	4	2	2	-
Elgin, Joliet & Eastern	2	0.5	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Florida East Coast	8	2.0	-	-	-	-	-	1	-	3	-	-	3	1	-	-
Guilford Rail System	3	0.8	-	-	-	-	-	-	-	-	-	1	1	1	-	-
Grand Trunk Western RR	3	0.8	-	-	-	1	-	-	-	2	-	-	-	-	-	-
Illinois Central	4	1.0	-	-	-	-	-	1	-	-	-	1	-	1	-	1
Indiana Harbor Belt	1	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Kansas City Southern	11	2.8	2	-	-	-	1	1	1	-	1	2	1	2	-	-
Long Island Rail Road	2	0.5	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	1	0.3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	2	0.5	1	-	-	-	-	-	-	-	-	1	-	-	-	-
Montana Rail Link	1	0.3	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Northeast IL Reg Comm	8	2.0	-	-	-	-	1	2	-	-	1	1	-	2	-	1
New Jersey Transit Rail	4	1.0	-	-	-	-	-	2	-	-	-	1	-	1	-	-
Norfolk Southern Corp.	54	13.6	-	-	1	3	5	5	7	6	6	13	3	2	1	2
Peninsula Comm San Mateo Cnty	1	0.3	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Southern CA Reg Rail Auth.	3	0.8	1	-	-	-	-	1	-	-	1	-	-	-	-	-
Southeastern PA Trans.	1	0.3	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Soo Line	1	0.3	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Union Pacific	144	36.4	-	1	-	11	20	20	23	19	18	14	9	5	3	1
Wisconsin Central Ltd.	3	0.8	-	-	-	2	1	-	-	-	-	-	-	-	-	-
Other Railroads	20	5.1	3	-	1	1	-	3	-	-	-	5	5	1	1	-
Total	396	100	24	2	4	25	40	57	41	46	40	51	29	20	9	8

TABLE 10-5 TRESPASSERS INJURED, BY STATE AND AGE, NOT AT HRC, 2003

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	5	1.3	-	-	-	-	-	-	1	-	1	1	1	1	-	-	
Alaska	1	0.3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arizona	17	4.3	2	-	-	1	3	5	1	2	1	1	-	1	-	-	
Arkansas	8	2.0	-	-	-	1	-	1	-	-	3	2	1	-	-	-	
California	50	12.6	4	-	-	1	7	7	7	5	6	5	6	1	-	1	
Colorado	2	0.5	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
Connecticut	2	0.5	1	-	-	-	-	-	-	1	-	-	-	-	-	-	
Dist Of Columbia	2	0.5	-	-	-	-	-	-	-	-	-	1	-	-	1	-	
Florida	23	5.8	2	-	-	-	1	3	-	5	2	1	7	1	1	-	
Georgia	15	3.8	-	-	-	1	1	2	1	1	4	2	2	-	1	-	
Idaho	1	0.3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
Illinois	29	7.3	3	1	-	2	4	6	2	2	2	2	1	2	-	2	
Indiana	7	1.8	-	-	-	-	2	-	3	-	-	-	-	1	-	1	
Iowa	2	0.5	-	-	-	1	-	1	-	-	-	-	-	-	-	-	
Kansas	1	0.3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Kentucky	1	0.3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
Louisiana	13	3.3	-	-	-	-	2	2	1	2	1	3	1	1	-	-	
Maine	2	0.5	-	-	-	-	-	-	-	-	-	1	1	-	-	-	
Maryland	4	1.0	-	-	1	-	1	-	1	-	-	-	-	1	-	-	
Massachusetts	5	1.3	1	-	-	1	-	2	-	-	-	-	-	1	-	-	
Michigan	10	2.5	1	-	-	1	3	1	-	3	1	-	-	-	-	-	
Minnesota	4	1.0	-	-	-	-	1	-	1	1	-	-	-	1	-	-	
Mississippi	6	1.5	2	-	-	-	-	-	-	1	-	2	-	1	-	-	
Missouri	12	3.0	1	1	1	-	3	-	1	-	2	1	1	-	1	-	
Montana	1	0.3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Nebraska	2	0.5	-	-	-	-	1	-	1	-	-	-	-	-	-	-	
Nevada	5	1.3	-	-	-	-	-	-	1	1	-	1	-	1	1	-	
New Jersey	7	1.8	-	-	-	-	-	3	1	-	1	1	-	1	-	-	
New Mexico	5	1.3	-	-	-	1	-	1	1	-	1	-	-	-	1	-	
New York	8	2.0	2	-	-	-	-	1	-	2	2	1	-	-	-	-	
North Carolina	5	1.3	1	-	-	-	1	1	1	-	-	1	-	-	-	-	
North Dakota	2	0.5	-	-	1	-	-	-	-	-	-	1	-	-	-	-	
Ohio	11	2.8	1	-	-	1	-	1	2	1	-	4	1	-	-	-	
Oklahoma	5	1.3	-	-	-	-	1	-	1	-	2	-	-	1	-	-	
Oregon	5	1.3	-	-	1	1	-	-	-	-	-	2	-	-	1	-	
Pennsylvania	8	2.0	-	-	-	2	-	2	-	1	1	2	-	-	-	-	
South Carolina	5	1.3	-	-	-	-	-	-	2	-	-	3	-	-	-	-	
South Dakota	1	0.3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	
Tennessee	12	3.0	-	-	-	3	-	1	-	2	2	2	-	2	-	-	
Texas	53	13.4	-	-	-	6	8	9	8	10	3	4	3	1	-	1	
Utah	4	1.0	-	-	-	-	-	1	-	-	-	1	1	-	1	-	
Virginia	14	3.5	1	-	-	-	-	2	2	1	1	3	1	1	-	2	
Washington	11	2.8	1	-	-	-	-	2	1	-	1	2	2	-	1	1	
West Virginia	7	1.8	-	-	-	-	-	3	-	3	1	-	-	-	-	-	
Wisconsin	3	0.8	-	-	-	2	1	-	-	-	-	-	-	-	-	-	
Total	396	100	24	2	4	25	40	57	41	46	40	51	29	20	9	8	

TABLE 10-6 TRESPASSER NOT AT HRC BY STATE AND AGE GROUP, 2003

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	-	-	-	5	5	1.0	-	-	-	5	5	1.3
Alaska	-	-	-	-	0	0.0	1	-	-	-	1	0.3
Arizona	1	-	2	7	10	2.0	2	1	5	9	17	4.3
Arkansas	-	-	2	-	2	0.4	-	1	1	6	8	2.0
California	19	1	8	57	85	17.0	4	1	8	37	50	12.6
Colorado	1	-	-	4	5	1.0	-	-	-	2	2	0.5
Connecticut	-	-	-	2	2	0.4	1	-	-	1	2	0.5
Delaware	-	-	-	3	3	0.6	-	-	-	-	0	0.0
Dist Of Columbia	-	-	-	1	1	0.2	-	-	-	2	2	0.5
Florida	2	-	6	24	32	6.4	2	-	3	18	23	5.8
Georgia	-	2	2	18	22	4.4	-	1	3	11	15	3.8
Idaho	-	-	-	2	2	0.4	-	-	-	1	1	0.3
Illinois	2	1	4	19	26	5.2	3	3	7	16	29	7.3
Indiana	-	1	1	7	9	1.8	-	-	2	5	7	1.8
Iowa	-	2	1	3	6	1.2	-	1	-	1	2	0.5
Kansas	-	-	-	6	6	1.2	-	-	-	1	1	0.3
Kentucky	-	-	1	4	5	1.0	-	-	-	1	1	0.3
Louisiana	2	-	2	3	7	1.4	-	-	3	10	13	3.3
Maine	-	-	-	2	2	0.4	-	-	-	2	2	0.5
Maryland	-	-	-	8	8	1.6	-	1	1	2	4	1.0
Massachusetts	5	-	2	4	11	2.2	1	1	1	2	5	1.3
Michigan	2	-	-	5	7	1.4	1	1	3	5	10	2.5
Minnesota	-	-	1	4	5	1.0	-	-	1	3	4	1.0
Mississippi	-	-	-	2	2	0.4	2	-	-	4	6	1.5
Missouri	1	1	2	7	11	2.2	1	2	3	6	12	3.0
Montana	2	-	-	-	2	0.4	-	-	-	1	1	0.3
Nebraska	1	-	-	1	2	0.4	-	-	1	1	2	0.5
Nevada	-	-	-	5	5	1.0	-	-	-	5	5	1.3
New Hampshire	-	-	-	1	1	0.2	-	-	-	-	0	0.0
New Jersey	2	-	1	10	13	2.6	-	-	1	6	7	1.8
New Mexico	2	-	2	4	8	1.6	-	1	-	4	5	1.3
New York	3	-	1	15	19	3.8	2	-	1	5	8	2.0
North Carolina	1	1	3	12	17	3.4	1	-	1	3	5	1.3
North Dakota	-	-	-	-	0	0.0	-	1	-	1	2	0.5
Ohio	-	-	3	9	12	2.4	1	1	-	9	11	2.8
Oklahoma	-	1	1	7	9	1.8	-	-	1	4	5	1.3
Oregon	-	-	1	7	8	1.6	-	2	-	3	5	1.3
Pennsylvania	-	1	4	13	18	3.6	-	2	-	6	8	2.0
Rhode Island	-	-	-	1	1	0.2	-	-	-	-	0	0.0
South Carolina	-	-	-	5	5	1.0	-	-	-	5	5	1.3
South Dakota	-	-	-	-	0	0.0	-	-	-	1	1	0.3
Tennessee	-	1	1	11	13	2.6	-	3	1	8	12	3.0
Texas	1	2	7	41	51	10.2	-	6	11	36	53	13.4
Utah	-	-	-	2	2	0.4	-	-	1	3	4	1.0
Virginia	1	-	1	4	6	1.2	1	-	-	13	14	3.5
Washington	-	2	1	10	13	2.6	1	-	-	10	11	2.8
West Virginia	-	-	-	7	7	1.4	-	-	1	6	7	1.8
Wisconsin	-	-	2	10	12	2.4	-	2	1	-	3	0.8
Wyoming	1	-	-	2	3	0.6	-	-	-	-	0	0.0
Total	49	16	62	374	501	100.0	24	31	61	280	396	100.0

TABLE 10-7 TRESPASSER CASUALTIES, BY MONTH AND DAY, NOT AT HRC, 2003

Cond | Month		Total		Day Of The Week							Age of Person			
		Cnt	%	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Unk	< 16	16-21	> 21
Kld	January	36	4.0	3	3	8	4	8	6	4	7	-	5	24
	February	28	3.1	3	8	5	1	3	4	4	1	1	3	23
	March	38	4.2	7	3	9	4	4	4	7	1	1	3	33
	April	38	4.2	7	3	5	6	1	6	10	2	1	4	31
	May	45	5.0	3	4	3	3	12	9	11	5	-	2	38
	June	44	4.9	9	9	7	5	4	7	3	7	1	8	28
	July	42	4.7	10	5	7	5	3	9	3	4	-	9	29
	August	47	5.2	11	2	8	3	7	4	12	1	2	6	38
	September	53	5.9	7	6	5	8	10	7	10	4	7	8	34
	October	56	6.2	14	11	3	6	6	8	8	7	1	8	40
	November	41	4.6	7	7	8	4	4	6	5	6	-	4	31
	December	33	3.7	2	9	2	7	3	3	7	4	2	2	25
	Total	501	55.9	83	70	70	56	65	73	84	49	16	62	374
Nonfatal	January	19	2.1	4	-	-	4	8	2	1	1	-	5	13
	February	31	3.5	7	3	3	3	5	5	5	1	1	4	25
	March	32	3.6	6	4	6	5	2	5	4	-	2	8	22
	April	41	4.6	11	5	4	5	3	4	9	-	6	4	31
	May	30	3.3	5	2	2	2	4	9	6	2	4	5	19
	June	39	4.3	9	4	8	5	2	8	3	5	3	4	27
	July	50	5.6	5	4	8	11	10	8	4	2	5	11	32
	August	41	4.6	7	3	7	7	3	7	7	1	3	9	28
	September	25	2.8	3	4	3	-	6	3	6	2	1	2	20
	October	38	4.2	5	5	7	3	8	7	3	4	2	2	30
	November	32	3.6	8	-	3	2	6	7	6	5	3	5	19
	December	18	2.0	3	4	4	4	2	-	1	1	1	2	14
	Total	396	44.1	73	38	55	51	59	65	55	24	31	61	280
Total		897	100	156	108	125	107	124	138	139	73	47	123	654

TABLE 10-8 TRESPASSER CASUALTIES, BY TIME AND DAY, NOT AT HRC, 2003

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	Kld Nonfatal	
AM	1	45	5	5	2	2	2	1	4	1	3	4	5	2	7	2
	2	41	6	7	2	2	-	3	1	1	1	1	3	3	7	4
	3	23	5	4	1	-	2	1	-	-	3	1	-	1	3	2
	4	25	3	1	1	1	2	3	1	2	-	-	6	-	4	1
	5	31	5	3	3	-	2	-	1	1	1	3	6	2	3	1
	6	29	3	4	4	1	1	2	1	2	1	1	1	1	4	3
	7	33	3	1	4	1	4	2	1	2	4	-	3	3	2	3
	8	27	3	3	1	3	2	2	1	1	1	4	3	1	2	-
	9	25	2	1	2	2	2	1	2	2	3	3	2	1	1	1
	10	31	2	3	-	-	4	2	2	4	2	1	5	1	3	2
	11	31	6	3	1	3	3	-	1	2	4	2	3	1	1	1
	12	50	5	2	5	2	1	4	5	1	4	1	1	7	8	4
	Total	391	48	37	26	17	25	21	20	19	27	21	38	23	45	24
	PM	1	32	3	1	8	-	2	2	1	3	3	1	2	1	1	4
2		42	6	4	6	-	2	1	2	2	3	4	3	1	5	3
3		29	-	4	2	2	2	2	4	3	1	4	1	1	1	2
4		40	2	4	2	1	2	3	3	4	2	3	4	2	4	4
5		36	1	3	4	1	6	-	2	6	3	3	1	2	2	2
6		46	3	2	4	3	1	6	1	4	5	5	3	4	2	3
7		53	2	6	6	2	5	3	5	4	5	3	3	4	3	2
8		49	5	4	3	2	3	5	2	1	7	1	7	3	3	3
9		44	1	2	2	4	4	2	5	1	4	4	1	4	8	2
10		58	5	1	4	1	6	3	7	2	3	3	4	11	4	4
11		41	3	2	2	2	7	2	1	1	1	3	4	7	4	2
12		36	4	3	1	3	5	5	3	1	1	4	2	2	2	-
Total		506	35	36	44	21	45	34	36	32	38	38	35	42	39	31
Total		897	83	73	70	38	70	55	56	51	65	59	73	65	84	55

TABLE 10-9 TRESPASSER CASUALTIES, BY LOCATION, NOT AT HRC, 2003

Location	Total		Fatal		Nonfatal		Age of Person				
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21	
Alongside of on-track equipmen	65	7.2	25	5.0	40	10.1	2	7	9	47	
Beside track	140	15.6	57	11.4	83	21.0	13	8	15	104	
Between tracks	187	20.8	134	26.7	53	13.4	10	4	23	150	
Between cars/locomotives	25	2.8	8	1.6	17	4.3	1	2	6	16	
In cab or on walkways of locom	1	0.1	1	0.2	-	0.0	-	-	-	1	
In car	11	1.2	6	1.2	5	1.3	1	1	1	8	
In/operating vehicle	17	1.9	8	1.6	9	2.3	-	1	5	11	
On bridge/trestle	29	3.2	13	2.6	16	4.0	1	7	5	16	
On highway-rail crossing	9	1.0	5	1.0	4	1.0	2	-	1	6	
On side of car	22	2.5	1	0.2	21	5.3	-	5	4	13	
On track	358	39.9	232	46.3	126	31.8	38	11	51	258	
On end of car	6	0.7	-	0.0	6	1.5	-	1	1	4	
On platform	5	0.6	1	0.2	4	1.0	2	-	-	3	
Other location on locomotive	1	0.1	1	0.2	-	0.0	1	-	-	-	
Under car	8	0.9	2	0.4	6	1.5	1	-	-	7	
Under locomotive	2	0.2	1	0.2	1	0.3	-	-	-	2	
Car, on top of (rail car)	4	0.4	2	0.4	2	0.5	-	-	1	3	
Other location	7	0.8	4	0.8	3	0.8	1	-	1	5	
Total	897	100	501	100	396	100	73	47	123	654	

TABLE 10-10 TRESPASSER CASUALTIES, BY EVENT, NOT AT HRC, 2003

Location	Total		Fatal		Nonfatal		Age of Person			
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21
Apprehending/removing from property	1	0.1	-	0.0	1	0.3	-	-	-	1
Caught in/compressed by other machinery	1	0.1	-	0.0	1	0.3	-	-	-	1
Caught in/crushed by materials	2	0.2	2	0.4	-	0.0	-	-	-	2
Cave in, slide, etc.	1	0.1	-	0.0	1	0.3	-	-	-	1
Climatic conditions, other (e.g., high winds)	1	0.1	-	0.0	1	0.3	-	-	-	1
Climatic condition, exposure to environmental he	3	0.3	3	0.6	-	0.0	-	-	-	3
Collision - between on track equipment	1	0.1	1	0.2	-	0.0	-	-	-	1
Collision/impact - auto, truck, bus, van, etc.	15	1.7	5	1.0	10	2.5	-	1	2	12
Committing vandalism/theft	1	0.1	-	0.0	1	0.3	-	-	-	1
Electrical shock due to contact with 3rd rail, c	3	0.3	2	0.4	1	0.3	1	-	-	2
Electrical shock, other (explain in narrative)	1	0.1	1	0.2	-	0.0	-	-	-	1
Horseplay, practical joke, etc.	3	0.3	1	0.2	2	0.5	1	1	-	1
Lost balance	31	3.5	9	1.8	22	5.6	-	5	4	22
Missed handhold, grabiron, step, etc.	1	0.1	-	0.0	1	0.3	-	-	1	-
Other impacts - on track equipment	6	0.7	4	0.8	2	0.5	1	-	-	5
Pushed/shoved into/against	1	0.1	-	0.0	1	0.3	-	-	-	1
Pushed/shoved onto	1	0.1	-	0.0	1	0.3	-	1	-	-
Pushed/shoved from	7	0.8	1	0.2	6	1.5	-	-	3	4
Ran into on-track equipment	4	0.4	1	0.2	3	0.8	1	-	-	3
Ran into object/equipment	2	0.2	-	0.0	2	0.5	-	-	-	2
Slipped,fell,stumbled,etc. due to irregular surf	2	0.2	-	0.0	2	0.5	-	1	-	1
Slipped,fell,stumbled,etc. on oil, grease,etc.	1	0.1	-	0.0	1	0.3	-	-	-	1
Slipped,fell,stumbled,etc. due to object,ballast	1	0.1	-	0.0	1	0.3	-	-	-	1
Struck by thrown or propelled object	1	0.1	-	0.0	1	0.3	-	-	1	-
Struck by object	2	0.2	-	0.0	2	0.5	-	-	-	2
Struck by on-track equipment	687	76.6	438	87.4	249	62.9	59	31	94	503
Struck against object	16	1.8	4	0.8	12	3.0	2	1	3	10
Sudden/unexpected movement of on-track equipmen	7	0.8	-	0.0	7	1.8	-	1	1	5
Sudden/unexpected movement of vehicle	5	0.6	-	0.0	5	1.3	-	-	1	4
Thrill seeking	7	0.8	1	0.2	6	1.5	-	2	1	4
Caught, crushed, pinched, other	8	0.9	-	0.0	8	2.0	-	-	3	5
On track equipment, other incidents	5	0.6	2	0.4	3	0.8	-	-	1	4
Slipped, fell, stumbled, other	37	4.1	8	1.6	29	7.3	2	3	7	25
Sudden, unexpected movement, other	3	0.3	2	0.4	1	0.3	-	-	-	3
Blowing/falling debris	1	0.1	1	0.2	-	0.0	1	-	-	-
Caught Between Equipment	1	0.1	-	0.0	1	0.3	-	-	-	1
Other (describe in narrative)	27	3.0	15	3.0	12	3.0	5	-	1	21
Total	897	100	501	100	396	100	73	47	123	654

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
De	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

APPENDIX B

2003 ACCIDENT PREDICTION AND RESOURCE ALLOCATION PROCEDURE NORMALIZING CONSTANTS

The U.S. DOT Highway-Rail Crossing Resource Allocation Procedure, as described in the *Rail-Highway Crossing Resource Allocation Procedure User's Guide, Third Edition*, August 1987, DOT/FRA/OS-87/10, uses three "normalizing constants" in the accident prediction formula, Formula A, Section 3.2.4, Page 17. These constants need to be adjusted periodically in order to keep the procedure matched with the current accident trends. The last recalculation and adjustment was made for Calendar Year 1998 and published in the Appendix for the *Railroad Safety Statistics Annual Report* starting for year 1999.

Using the accident data for Calendar Years 1997 to 2001 (to predict 2003), the process of determining the three (3) new "normalizing constants" for 2003 is performed such that the sum of the 2003 accident prediction values of all currently open public at-grade crossings is made to equal the sum of the *observed* number of accidents that occurred for those same crossings. This process is performed for each of the respective three formulae for the three types of warning device categories, (1) passive, (2) flashing lights, and (3) gates. This process normalizes the calculated prediction for the current trend in accident data (downward) for each category and relative to each of the three types of warning device categories.

The *observed* accidents are those accident records that are in the data file. While mismatched data records caused by inaccurate accident/inventory reporting (e.g., where warning devices do not match) were included, those accidents which occurred prior to the date of a warning device change at those crossings which had a warning device category change during the period from 1997 to 2001 were excluded. This means that the number of *observed* accidents will not necessarily be equal to the actual number of accidents which are reported in the annual Bulletin.

These constants were redetermined for the "national" model using the crossings in the National Inventory File as of July 2003. Those using the "DOT Model" should update their models by replacing the old constants with the new recalculated values. These "normalizing constants" are located in the computer program ACPD.NEW as shown in the *User's Guide Third Edition* at the top of Page A-4, Appendix A1 and in RESAL.NEW on Page B-3, Appendix B1.

As of November 2003, these new constants will be in the 2003 PCAPS Computer Program and Internet version WBAPS on the FRA Website at <http://safetydata.fra.dot.gov/officeofsafety/>. The table below lists the new and prior constants.

ACCIDENT PREDICTION AND RESOURCE ALLOCATION PROCEDURE NORMALIZING CONSTANTS

WARNING DEVICE GROUPS	new	PRIOR YEARS				
	2003	1998	1992	1990	1988	1986
(1) Passive	.6500	.7159	.8239	.9417	.8778	.8644
(2) Flashing Lights	.5001	.5292	.6935	.8345	.8013	.8887
(3) Gates	.5725	.4921	.6714	.8901	.8911	.8131

\\wpdata\rxiprogram\acpd\ACPD Constants 2003.wpd

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train Accident s			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
AN Rwy LLC [AN]	1	-	1	-	-	-	-	-	-	1	-	1
Aberdeen & Rockfish RR Co. [AR]	3	-	1	-	-	-	2	-	-	1	-	1
Aberdeen, Carolina & Western RR [ACWR]	-	-	-	-	-	-	-	-	-	-	-	-
Abilene & Smokey Valley RR [AVSX]	1	-	1	-	-	-	-	-	-	1	-	1
Acadiana Rwy Co. [AKDN]	-	-	-	-	-	-	-	-	-	-	-	-
Adirondack Scenic RR [ADCX]	3	-	3	-	-	-	-	-	-	3	-	3
Adrian & Blissfield RR [ADBF]	-	-	-	-	-	-	-	-	-	-	-	-
Akron Barberton Cluster Rwy Co. [AB]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Florida Rwy Co. [AF]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Gulf Coast Rwy LLC [AGR]	4	1	1	1	-	-	2	1	-	1	-	1
Alabama RR Co., Inc. [ALAB]	3	-	1	2	-	-	-	-	-	1	-	1
Alameda Belt Line [ABL]	-	-	-	-	-	-	-	-	-	-	-	-
Alamo Gulf Coast RR Co. [AGCR]	-	-	-	-	-	-	-	-	-	-	-	-
Albany & Eastern RR Co. [AERC]	2	-	1	-	-	-	1	-	-	1	-	1
Albany Port RR [APRR]	2	-	2	-	-	-	-	-	-	2	-	2
Alexander RR Co. [ARC]	-	-	-	-	-	-	-	-	-	-	-	-
Algers, Winslow & Western Rwy Co. [AWW]	-	-	-	-	-	-	-	-	-	-	-	-
Aliquippa & Ohio River RR Co. [AOR]	-	-	-	-	-	-	-	-	-	-	-	-
Allegheny Valley RR Co. [AVR]	3	-	1	2	-	-	-	-	-	1	-	1
Almanor RR Co. [AL]	1	-	-	-	-	-	1	-	-	-	-	-
Altamont Commuter Express Authority [ACEX]	-	-	-	-	-	-	-	-	-	-	-	-
Amador Foothills RR [A FR]	-	-	-	-	-	-	-	-	-	-	-	-
Ameritrac Rail Services [AMTZ]	-	-	-	-	-	-	-	-	-	-	-	-
Amicor Switching Operation [AMIX]	-	-	-	-	-	-	-	-	-	-	-	-
Angelina & Neches River RR Co. [ANR]	-	-	-	-	-	-	-	-	-	-	-	-
Ann Arbor RR [AA]	3	-	3	-	-	-	-	-	-	3	-	3
Apache Rwy Co. [APA]	-	-	-	-	-	-	-	-	-	-	-	-
Appanoose County Community RR Co. [APNC]	-	-	-	-	-	-	-	-	-	-	-	-
Arcade & Attica RR Corp. [ARA]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona & California RR Co. [ARZC]	3	-	2	1	-	-	-	-	-	2	-	2
Arizona Central RR, Inc. [AZCR]	2	-	2	-	-	-	-	-	-	2	-	2
Arizona Eastern RR [AZER]	3	-	2	3	-	2	-	-	-	-	-	-
Arkansas & Missouri RR Co. [AM]	26	-	18	3	-	-	9	-	4	14	-	14
Arkansas Louisiana & Mississippi RR Co. [ALM]	4	-	-	2	-	-	2	-	-	-	-	-
Arkansas Midland RR Co., Inc. [AKMD]	9	-	2	4	-	-	3	-	-	2	-	2
Arkansas-Oklahoma RR Inc. [AOK]	1	-	1	-	-	-	1	-	1	-	-	-
Ashland Rwy Inc. [ASRY]	3	-	2	1	-	-	-	-	-	2	-	2
Ashtubula, Carson & Jefferson RR [ACJR]	-	-	-	-	-	-	-	-	-	-	-	-
Athens Line LLC, The [ABR]	-	-	-	-	-	-	-	-	-	-	-	-
Atlantic & Western Rwy, L.P. [ATW]	-	-	-	-	-	-	-	-	-	-	-	-
Austin & Texas Central RR [ATCX]	-	-	-	-	-	-	-	-	-	-	-	-
Austin Area Term. RR [AUAR]	2	-	2	-	-	-	-	-	-	2	-	2
Austin, Todd & Ladd RR Co. [ATLT]	-	-	-	-	-	-	-	-	-	-	-	-
B&H Rail Corp [BHX]	1	-	-	-	-	-	1	-	-	-	-	-
Ballard Term. RR Co LLC [BDTL]	1	-	1	-	-	-	-	-	-	1	-	1
Batten Kill RR [BKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Battleground, Yacolt & Chelatchie Prarie RR [BYCX]	2	-	2	-	-	-	-	-	-	2	-	2
Bauxite & Northern Rwy Co. [BXN]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Bay Colony RR [BCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Bay Line RR, L.L.C., The [BAYL]	2	-	-	-	-	-	2	-	-	-	-	-
Belfast & Moosehead Lake RR Co. [BML]	1	-	1	-	-	-	-	-	-	1	-	1
Bellefonte Historical RR Society [BHRX]	-	-	-	-	-	-	-	-	-	-	-	-
Belton Grandview and Kansas City RR Co. [BGKX]	-	-	-	-	-	-	-	-	-	-	-	-
Berkshire Scenic Rwy Museum, Inc. [BCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Bessemer & Lake Erie RR Co. [BLE]	9	-	7	1	-	-	1	-	-	7	-	7
Big South Fork Scenic Rwy [BSFX]	-	-	-	-	-	-	-	-	-	-	-	-
Bighorn Divide & Wyoming RR, Inc. [BDW]	-	-	-	-	-	-	-	-	-	-	-	-
Birmingham Southern RR Co. [BS]	8	-	6	1	-	-	1	-	-	6	-	6
Black Hills Central RR [BHC]	-	-	-	-	-	-	-	-	-	-	-	-
Blacklands RR, The [BLR]	-	-	-	-	-	-	-	-	-	-	-	-
Blackwell and Northern Rwy Company Inc., The [BNR]	-	-	-	-	-	-	-	-	-	-	-	-
Bloomer Shippers Connecting RR Co. [BLOL]	3	-	-	1	-	-	2	-	-	-	-	-
Blue Rock Transportation Co. [BRTR]	-	-	-	-	-	-	-	-	-	-	-	-
Boone Scenic Valley [BSV]	4	-	4	-	-	-	-	-	-	4	-	4
Boot Hill and Western RR [BHWY]	-	-	-	-	-	-	-	-	-	-	-	-
Border Pacific RR [BOP]	-	-	-	-	-	-	-	-	-	-	-	-
Brandon Corp. [BRAN]	-	-	-	-	-	-	-	-	-	-	-	-
Brandywine Valley RR Co. [BVRY]	3	-	3	-	-	-	-	-	-	3	-	3
Brownsville & Rio Grande International RR [BRG]	12	1	13	-	-	-	3	-	5	9	1	8
Buckeye Central Scenic RR [BCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Buckingham Branch RR Co. [BB]	1	-	-	-	-	-	1	-	-	-	-	-
Buffalo & Pittsburgh RR, Inc. [BPRR]	20	-	8	8	-	-	7	-	3	5	-	5
Buffalo Southern RR, Inc. [BSOR]	-	-	-	-	-	-	-	-	-	-	-	-
Burlington Junction Rwy [BJRY]	-	-	-	-	-	-	-	-	-	-	-	-
C & NC RR Corp. [CNUR]	-	-	-	-	-	-	-	-	-	-	-	-
C&S RR Corp. [CSKR]	-	-	-	-	-	-	-	-	-	-	-	-
CMC RR Inc. [CMC]	5	-	1	4	-	-	-	-	-	1	-	1
Caddo Valley RR Co. [CVYR]	2	-	2	-	-	-	-	-	-	2	-	2
Caldwell County RR Co. [CWCY]	-	-	-	-	-	-	-	-	-	-	-	-
California Northern RR Co. [CFNR]	4	-	1	2	-	-	1	-	-	1	-	1
California State RR Museum [CSRM]	-	-	-	-	-	-	-	-	-	-	-	-
California Western RR [CWR]	3	-	3	-	-	-	-	-	-	3	-	3
Camas Prairie Railnet Inc [CSP]	2	-	1	-	-	-	1	-	-	1	-	1
Camp Chase Industrial RR Corp [CCRA]	-	-	-	-	-	-	-	-	-	-	-	-
Caney Fork & Western RR [CFWR]	-	-	-	-	-	-	-	-	-	-	-	-
Canon City And Royal Gorge RR, LLC [CRRX]	1	-	1	-	-	-	-	-	-	1	-	1
Canton RR Co. [CTN]	1	-	-	-	-	-	1	-	-	-	-	-
Cape Cod Central [CCCX]	1	-	-	-	-	-	1	-	-	-	-	-
Cape Fear Rwy, Inc. [CF]	-	-	-	-	-	-	-	-	-	-	-	-
Cape May Seashore Lines, Inc. [CMSX]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Coastal Rwy, Inc. [CLNA]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Southern RR Co., The [CALA]	4	-	-	1	-	-	3	-	-	-	-	-
Carrizo Gorge Rwy Inc. [CZRY]	-	-	-	-	-	-	-	-	-	-	-	-
Carthage, Knightstown & Shirley RR [CKSI]	-	-	-	-	-	-	-	-	-	-	-	-
Cascade & Columbia River RR [CSCD]	1	-	-	-	-	-	1	-	-	-	-	-
Cass Scenic [CASS]	4	-	4	-	-	-	-	-	-	4	-	4
Catskill Mountain RR [CMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Rapids & Iowa City Rwy Co. [CIC]	5	1	4	-	-	-	-	-	-	5	1	4
Central California Traction Co. [CCT]	6	-	2	3	-	-	1	-	-	2	-	2

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Central Columbiana & Pennsylvania Rwy Inc. [CQPA]	-	-	-	-	-	-	-	-	-	-	-	-
Central Illinois RR Co. [CIRY]	-	-	-	-	-	-	-	-	-	-	-	-
Central Indiana & Western RR Co. [CEIW]	-	-	-	-	-	-	-	-	-	-	-	-
Central Michigan Rwy Co. [CMGN]	10	-	5	2	-	-	3	-	-	5	-	5
Central Midland Rwy Co. [CMR]	-	-	-	-	-	-	-	-	-	-	-	-
Central Montana RR [CM]	-	-	-	-	-	-	-	-	-	-	-	-
Central Oregon & Pacific RR, Inc. [CORP]	10	-	3	4	-	-	3	-	-	3	-	3
Central RR Co. Of Indiana [CIND]	2	-	-	1	-	-	1	-	-	-	-	-
Central RR Co. Of Indianapolis [CERA]	-	-	-	-	-	-	-	-	-	-	-	-
Chattahoochee & Gulf RR Co., Inc [CHAT]	-	-	-	-	-	-	-	-	-	-	-	-
Chattahoochee Industrial RR [CIRR]	-	-	-	-	-	-	-	-	-	-	-	-
Chattooga & Chickamauga RR [CCKY]	-	-	-	-	-	-	-	-	-	-	-	-
Chehalis & Centralia RR Association [CHCX]	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake & Albemarle RR Co. [CA]	-	-	-	-	-	-	-	-	-	-	-	-
Chestnut Ridge Rwy Co. [CHR]	-	-	-	-	-	-	-	-	-	-	-	-
Chicago Rail Link [CRL]	7	-	1	6	-	-	-	-	-	1	-	1
Chicago-Chemung RR Corp. [CCUO]	-	-	-	-	-	-	-	-	-	-	-	-
Cimarron Valley RR L C [CVR]	2	-	2	2	-	2	-	-	-	-	-	-
Cincinnati Rwy Co., The [CNRX]	-	-	-	-	-	-	-	-	-	-	-	-
City Of Prineville Rwy [COP]	-	-	-	-	-	-	-	-	-	-	-	-
Claremont Concord RR Corp. [CCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Clarendon & Pittsford RR Co. [CLP]	3	-	2	1	-	-	-	-	-	2	-	2
Cleveland Works Rwy Co. [CWRO]	15	-	3	10	-	-	2	-	-	3	-	3
Clinton Term. RR Co. [CTR]	-	-	-	-	-	-	-	-	-	-	-	-
Cloquet Term. RR Co., Inc. [CTRR]	7	-	7	-	-	-	-	-	-	7	-	7
Coe Rail Inc. [CRLE]	-	-	-	-	-	-	-	-	-	-	-	-
Colorado & Wyoming Rwy Co. [CW]	8	-	4	4	-	-	-	-	-	4	-	4
Colorado Kansas and Pacific [CKP]	1	-	-	1	-	-	-	-	-	-	-	-
Columbia & Cowlitz Rwy Co. [CLC]	2	1	-	1	-	-	1	1	-	-	-	-
Columbia Basin RR Co. Inc. [CBRW]	6	-	6	-	-	-	-	-	-	6	-	6
Columbia Business Center [CBCX]	-	-	-	-	-	-	-	-	-	-	-	-
Columbia Term. RR Co. [CT]	1	-	3	-	-	-	1	-	3	-	-	-
Columbus & Greenville Rwy Co. [CAGY]	7	-	4	-	-	-	4	-	1	3	-	3
Columbus & Ohio River RR [CUOH]	-	-	-	-	-	-	-	-	-	-	-	-
Commonwealth Rwy, Inc. [CWRY]	1	-	-	-	-	-	1	-	-	-	-	-
Conecuh Valley RR [COEH]	-	-	-	-	-	-	-	-	-	-	-	-
Conemaugh & Black Lick RR Co. [CBL]	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut Department Of Transportation [CDOT]	5	-	4	1	-	-	-	-	-	4	-	4
Connecticut Southern RR Inc. [CSO]	1	-	-	1	-	-	-	-	-	-	-	-
Connotton Valley Rwy, Inc. [CVRI]	1	-	1	-	-	-	-	-	-	1	-	1
Consolidated Grain & Barge Co. [CGBX]	-	-	-	-	-	-	-	-	-	-	-	-
Conway Scenic RR [CONW]	2	-	2	-	-	-	-	-	-	2	-	2
Coopersville & Marne RR [CMRX]	-	-	-	-	-	-	-	-	-	-	-	-
Copper Basin Rwy, Inc. [CBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi Term. RR Inc. [CCPN]	-	-	-	-	-	-	-	-	-	-	-	-
Corydon 1883 Scenic RR [CSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Council Bluffs Rwy Co. [CBGR]	-	-	-	-	-	-	-	-	-	-	-	-
Crab Orchard & Egyptian RR [COER]	-	-	-	-	-	-	-	-	-	-	-	-
Cumbres & Toltec Scenic RR [CTSR]	8	-	8	-	-	-	-	-	-	8	-	8
Cuyahoga Valley Scenic Rwy [CVSX]	1	-	1	-	-	-	-	-	-	1	-	1

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
D & I RR Co. [DAIR]	3	-	-	3	-	-	-	-	-	-	-	-
Dakota Southern Rwy Co. [DSRC]	-	-	-	-	-	-	-	-	-	-	-	-
Dakota, Missouri Valley & Western RR, Inc. [DMVW]	10	-	7	3	-	-	1	-	1	6	-	6
Dallas, Garland & Northeastern RR [DGNO]	17	2	9	3	-	-	8	1	4	6	1	5
Dardanelle & Russellville RR [DR]	-	-	-	-	-	-	-	-	-	-	-	-
DeQueen & Eastern RR Co. [DQE]	8	-	6	1	-	-	2	-	-	5	-	6
Decatur Junction Rwy Co. [DT]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Coast Line RR [DCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Lackawanna RR [DL]	3	-	-	2	-	-	1	-	-	-	-	-
Delray Connecting RR Co. [DC]	4	-	4	-	-	-	-	-	-	4	-	4
Delta Southern RR Co. [DSRR]	7	-	2	4	-	-	1	-	-	2	-	2
Delta Valley & Southern Rwy Co. [DVS]	-	-	-	-	-	-	-	-	-	-	-	-
Denver Rock Island RR [DRIR]	-	-	-	-	-	-	-	-	-	-	-	-
Dependable Rail Services [DPRX]	-	-	-	-	-	-	-	-	-	-	-	-
Depew, Lancaster & Western RR Co., Inc. [DLWR]	1	-	1	-	-	-	-	-	-	1	-	1
Detroit Edison [DE]	-	-	-	-	-	-	-	-	-	-	-	-
Dubois County RR [DCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Durango & Silverton Narrow Gauge RR Co. [DSNG]	13	-	12	-	-	-	1	-	-	12	-	12
East Camden & Highland RR Co. [EACH]	-	-	-	-	-	-	-	-	-	-	-	-
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 Penn Rwy, Inc. [EPRY]	-	-	-	-	-	-	-	-	-	-	-	-
East Tennessee Rwy, L.P. [ETRY]	1	-	-	-	-	-	1	-	-	-	-	-
Eastern Alabama Rwy Co. [EARY]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Idaho RR [EIRR]	15	1	9	3	-	-	6	1	3	6	-	6
Eastern Illinois RR Co. [EIRC]	1	-	1	-	-	-	-	-	-	1	-	1
Eastern Maine RR Co. [EMRY]	2	-	2	-	-	-	-	-	-	2	-	2
Eastern Shore RR Inc. [ESHR]	4	-	3	-	-	-	1	-	-	3	-	3
Econo Rail Corp. [TXTX]	11	-	5	4	-	-	2	-	-	5	-	5
Effingham RR Co. [EFRR]	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado & Wesson Rwy Co. [EDW]	-	-	-	-	-	-	-	-	-	-	-	-
Elk River RR, Inc. [ELKR]	-	-	-	-	-	-	-	-	-	-	-	-
Ellis & Eastern Co. [EE]	-	-	-	-	-	-	-	-	-	-	-	-
Erie Western Rwy [EWR]	3	-	3	-	-	-	-	-	-	3	-	3
Escalante Western Rwy [ESWR]	-	-	-	-	-	-	-	-	-	-	-	-
Escanaba & Lake Superior RR Co. [ELS]	11	-	11	-	-	-	6	-	6	5	-	5
Everett RR Co. [EV]	1	-	1	-	-	-	-	-	-	1	-	1
Falls Road RR Co. Inc. [FRR]	1	-	-	-	-	-	1	-	-	-	-	-
Farmrail Corp. [FMRC]	-	-	-	-	-	-	-	-	-	-	-	-
Fillmore And Western [FMWX]	-	-	-	-	-	-	-	-	-	-	-	-
Finger Lakes Rwy Corp. [FGLK]	6	-	3	2	-	-	1	-	-	3	-	3
Flats Industrial RR [FIR]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Central RR Co. [FCEN]	3	-	2	-	-	-	1	-	-	2	-	2
Florida Midland RR Co., Inc. [FMID]	1	-	-	-	-	-	1	-	-	-	-	-
Florida Northern RR Co., Inc. [FNOR]	2	-	2	-	-	-	-	-	-	2	-	2
Fordyce & Princeton RR Co. [FP]	4	-	2	-	-	-	3	-	1	1	-	1
Fore River Transportation Corp. [FRVT]	-	-	-	-	-	-	-	-	-	-	-	-
Fort Smith RR Co. [FSR]	5	-	3	-	-	-	2	-	-	3	-	3

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
Fort Worth & Western RR [FWWR]	5	-	1	1	-	-	3	-	-	1	-	1
Fremont & Elkhorn Valley RR [FEVR]	-	-	-	-	-	-	-	-	-	-	-	-
Fulton County RR Co. [FC]	-	-	-	-	-	-	-	-	-	-	-	-
Galveston RR, L.P. [GVSR]	1	-	-	1	-	-	-	-	-	-	-	-
Garden City Western Rwy Co. [GCW]	-	-	-	-	-	-	-	-	-	-	-	-
Gateway Eastern RR Co. [GWWE]	-	-	-	-	-	-	-	-	-	-	-	-
Georgetown RR Co. [GRR]	-	-	-	-	-	-	-	-	-	-	-	-
Georgia & Florida Railnet [GFRR]	1	-	-	1	-	-	-	-	-	-	-	-
Georgia Central Rwy, L.P. [GC]	5	2	3	-	-	-	1	-	-	4	2	3
Georgia Northeastern RR Co. [GNRR]	2	-	1	1	-	-	-	-	-	1	-	1
Georgia Southwestern RR Inc. [GSWR]	1	-	1	-	-	-	-	-	-	1	-	1
Georgia Woodlands RR [GWRC]	-	-	-	-	-	-	-	-	-	-	-	-
Gettysburg and Northern RR [GET]	2	-	2	-	-	-	-	-	-	2	-	2
Gloster Southern RR [GLSR]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Isles Term. RR, Inc. [GITM]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Triangle RR Co. [GTRA]	2	-	-	-	-	-	2	-	-	-	-	-
Grafton & Upton RR Co. [GU]	-	-	-	-	-	-	-	-	-	-	-	-
Grainbelt Corp. [GNBC]	1	-	-	1	-	-	-	-	-	-	-	-
Grand Rapids Eastern RR Inc. [GR]	-	-	-	-	-	-	-	-	-	-	-	-
Great River RR [GTR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Smoky Mountains Rwy, The [GSM]	1	-	1	-	-	-	-	-	-	1	-	1
Great Walton RR Co. [GRWR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Western Rwy of Colorado, LLC [GWR]	1	-	-	-	-	-	1	-	-	-	-	-
Green Mountain RR Corp. [GMRC]	6	-	4	1	-	-	2	-	1	3	-	3
Gulf, Colorado San Saba Rwy Corp. [GCSR]	-	-	-	-	-	-	-	-	-	-	-	-
H & S RR Co., Inc. [HS]	-	-	-	-	-	-	-	-	-	-	-	-
Hampton & Branchville RR Co. [HB]	2	-	2	-	-	-	-	-	-	2	-	2
Hardin Southern RR, Inc. [HSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hartwell RR Co. [HRT]	2	-	2	-	-	-	2	-	2	-	-	-
Hawaiian Rwy Society [HRSX]	-	-	-	-	-	-	-	-	-	-	-	-
Heart of Georgia RR, Inc. [HOG]	-	-	-	-	-	-	-	-	-	-	-	-
Heber Valley RR Utah [HVRX]	-	-	-	-	-	-	-	-	-	-	-	-
Heritage RR Corp [HR]	-	-	-	-	-	-	-	-	-	-	-	-
High Point, Thomasville & Denton RR Co. [HPTD]	1	-	-	-	-	-	1	-	-	-	-	-
Hollis & Eastern RR Co. [HE]	-	-	-	-	-	-	-	-	-	-	-	-
Honey Creek RR, Inc. [HCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hoosier Southern RR [HOS]	1	-	-	-	-	-	1	-	-	-	-	-
Housatonic RR Co., Inc. [HRRC]	9	-	8	1	-	-	-	-	-	8	-	8
Huntsville & Madison county RR Authority [HMCR]	-	-	-	-	-	-	-	-	-	-	-	-
Huron & Eastern Rwy [HESR]	1	-	1	-	-	-	-	-	-	1	-	1
Hutchinson & Northern Rwy Co. [HN]	-	-	-	-	-	-	-	-	-	-	-	-
ITS Technologies & Logistics, LLC. [ITSL]	2	-	-	2	-	-	-	-	-	-	-	-
Idaho Northern & Pacific RR Co. [INPR]	9	-	7	-	-	-	3	-	1	6	-	6
Illinois & Midland RR Inc. [IMRR]	4	-	1	2	-	-	2	-	1	-	-	-
Illinois Railnet Inc. [IR]	3	-	1	2	-	-	-	-	-	1	-	1
Illinois Rwy Museum [IRYM]	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Western RR Co. [ILW]	-	-	-	-	-	-	-	-	-	-	-	-
Indian Creek RR Co. [ICRK]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana & Ohio Central RR, Inc. [IOCR]	2	-	2	-	-	-	2	-	2	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
Indiana & Ohio Rwy [IORY]	13	-	9	1	-	-	8	-	5	4	-	4
Indiana Northeastern RR Co., Incorporated [IN]	3	1	2	-	-	-	1	1	-	2	-	2
Indiana Rail Road Co. [INRD]	5	1	3	2	-	-	2	1	2	1	-	1
Indiana Rwy Museum [IRM]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Southern RR Co., Inc. [ISRR]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Southwestern Rwy Co. [ISW]	1	-	1	-	-	-	-	-	-	1	-	1
Indiana Transportation Museum [ITMZ]	2	-	2	-	-	-	2	-	2	-	-	-
Intermodal Transfer, LLC [RSIX]	-	-	-	-	-	-	-	-	-	-	-	-
Iowa Interstate RR [IAIS]	9	-	2	4	-	-	5	-	2	-	-	-
Iowa Northern Rwy Co. [IANR]	2	-	1	1	-	-	-	-	-	1	-	1
Iowa Northwestern RR [IANW]	1	-	1	-	-	-	1	-	1	-	-	-
Iowa Traction RR Co. [IATR]	-	-	-	-	-	-	-	-	-	-	-	-
Jefferson Warrior RR [JEFW]	-	-	-	-	-	-	-	-	-	-	-	-
Joppa & Eastern RR Co. [JERX]	-	-	-	-	-	-	-	-	-	-	-	-
Juniata Valley RR Co. [JVRR]	-	-	-	-	-	-	-	-	-	-	-	-
K.W.T. Rwy, Inc. [KWT]	1	-	-	-	-	-	1	-	-	-	-	-
Kankakee, Beaverville & Southern RR Co. [KBSR]	1	-	-	-	-	-	1	-	-	-	-	-
Kansas City Term. Rwy Co. [KCT]	-	-	-	-	-	-	-	-	-	-	-	-
Kansas and Oklahoma RR [KO]	19	-	9	9	-	-	3	-	2	7	-	7
Kendallville Term. Rwy Co. [KTR]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky & Tennessee Rwy [KT]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky Rwy Museum [KRM]	-	-	-	-	-	-	-	-	-	-	-	-
Keokuk Junction Rwy [KJRY]	-	-	-	-	-	-	-	-	-	-	-	-
Kern Valley RR [KVR]	-	-	-	-	-	-	-	-	-	-	-	-
Kiamichi RR Co. LLC [KRR]	9	-	-	7	-	-	2	-	-	-	-	-
Kiski Junction RR [KJR]	-	-	-	-	-	-	-	-	-	-	-	-
Klamath Northern Rwy Co. [KNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Knox & Kane RR Co. [KKRR]	1	-	-	1	-	-	-	-	-	-	-	-
Knoxville & Holston River RR Co., Inc. [KXHR]	1	-	1	-	-	-	-	-	-	1	-	1
Kyle RR Co. [KYLE]	7	-	4	3	-	-	-	-	-	4	-	4
Lahaina Kaanapoli And Pacific [LKP]	1	-	1	-	-	-	-	-	-	1	-	1
Lake County RR [LCR]	3	-	2	1	-	-	-	-	-	2	-	2
Lake Shore Rwy [LSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Lake State Rwy Co. [LSRC]	13	-	12	-	-	-	1	-	-	12	-	12
Lake Superior & Ishpeming RR Co. [LSI]	2	-	2	-	-	-	-	-	-	2	-	2
Lake Superior & Mississippi RR [LSMR]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Superior RR Museum [LSMT]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Term. RR Co. [LT]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Whatcom Rwy [LWAT]	-	-	-	-	-	-	-	-	-	-	-	-
Lancaster & Chester Rwy Co. [LC]	5	1	3	1	-	-	-	-	-	4	1	3
Landisville Term. & Transfer Co. [LNVT]	-	-	-	-	-	-	-	-	-	-	-	-
Laona & Northern Rwy [LNO]	-	-	-	-	-	-	-	-	-	-	-	-
Laurinburg & Southern RR Co. [LRS]	-	-	-	-	-	-	-	-	-	-	-	-
Leadville, Colorado & Southern RR, Co. [LCSR]	1	-	1	-	-	-	-	-	-	1	-	1
Lehigh Valley Rail Management [LVRX]	1	-	1	-	-	-	-	-	-	1	-	1
Lewis & Clark RR Co. [LINC]	-	-	-	-	-	-	-	-	-	-	-	-
Litchfield Industrial RR [LFIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Little Kanawha River Rail [LKRR]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Little River RR [LRR]	-	-	-	-	-	-	-	-	-	-	-	-
Little Rock & Western Rwy, L.P. [LRWN]	-	-	-	-	-	-	-	-	-	-	-	-
Little Rock Port RR Co. [LRPA]	-	-	-	-	-	-	-	-	-	-	-	-
Livonia, Avon & Lakeville RR Corp. [LAL]	-	-	-	-	-	-	-	-	-	-	-	-
Logansport & Eel River Short Line Co., Inc. [LER]	-	-	-	-	-	-	-	-	-	-	-	-
Lone Star Industries [LSIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Longview Switching [LS]	-	-	-	-	-	-	-	-	-	-	-	-
Los Angeles Junction Rwy Co. [LAJ]	6	-	5	1	-	-	-	-	-	5	-	5
Louisiana & Delta RR [LDRR]	3	-	1	-	-	-	2	-	-	1	-	1
Louisiana & North West RR Co. [LNW]	5	-	5	-	-	-	-	-	-	5	-	5
Louisville & Indiana RR Co. [LIRC]	6	-	2	1	-	-	4	-	1	1	-	1
Louisville & Wadley Rwy Co. [LW]	-	-	-	-	-	-	-	-	-	-	-	-
Louisville, New Albany & Corydon RR [LNAL]	-	-	-	-	-	-	-	-	-	-	-	-
Lowville & Beaver River RR Co. [LBR]	-	-	-	-	-	-	-	-	-	-	-	-
Luxapalila Valley RR Inc. [LXVR]	2	-	1	-	-	-	1	-	-	1	-	1
Luzerene & Susquehanna Rwy Co. [LSX]	-	-	-	-	-	-	-	-	-	-	-	-
Lycoming Valley RR Co. [LVRR]	1	-	1	-	-	-	-	-	-	1	-	1
M & B RR LLC [MNBR]	4	1	-	-	-	-	3	-	-	1	1	-
Madison RR Division [CMPA]	1	1	-	-	-	-	-	-	-	1	1	-
Magma Arizona RR Co. [MAA]	-	-	-	-	-	-	-	-	-	-	-	-
Mahoning Valley RR Co. [MVRY]	-	-	-	-	-	-	-	-	-	-	-	-
Maine Eastern RR [MERR]	2	1	-	-	-	-	1	-	-	1	1	-
Manufacturers' Junction Rwy Co. [MJ]	1	-	1	-	-	-	-	-	-	1	-	1
Manufacturers' Rwy Co. [MRS]	9	-	9	-	-	-	-	-	-	9	-	9
Maryland & Delaware RR Co. [MDDE]	1	-	-	1	-	-	-	-	-	-	-	-
Maryland Midland Rwy, Inc. [MMID]	5	-	2	1	-	-	2	-	-	2	-	2
Massachusetts Central RR Corp. [MCER]	2	-	2	-	-	-	-	-	-	2	-	2
Massena Term. RR Co. [MSTR]	-	-	-	-	-	-	-	-	-	-	-	-
Maumee & Western RR Corp. [MAW]	-	-	-	-	-	-	-	-	-	-	-	-
Mccloud Rwy Co. [MCR]	3	-	3	-	-	-	-	-	-	3	-	3
Mckeesport Connecting RR Co. [MKC]	2	-	2	-	-	-	-	-	-	2	-	2
Meeker Southern RR [MSN]	-	-	-	-	-	-	-	-	-	-	-	-
Meridian Southern Rwy LLC [MDS]	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Shore RR [MS]	1	-	-	-	-	-	1	-	-	-	-	-
Michigan Southern RR Co., Inc. [MSO]	1	-	1	-	-	-	-	-	-	1	-	1
Michigan State Trust For Rwy Preservation [MSTP]	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Continent Rwy [MCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Michigan RR Co. [MMRR]	5	-	-	-	-	-	5	-	-	-	-	-
Middletown & Hummelstown RR Co. [MIDH]	-	-	-	-	-	-	-	-	-	-	-	-
Middletown & New Jersey Rwy Co., Inc. [MNJ]	-	-	-	-	-	-	-	-	-	-	-	-
Midland Term. Co. [MDLR]	1	-	1	-	-	-	-	-	-	1	-	1
Midlands Rwy [MDRY]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota & Manitoba RR [MMR]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Commercial Rwy [MNNR]	14	-	11	1	-	-	2	-	-	11	-	11
Minnesota Northern RR Inc. [MNN]	2	-	1	1	-	-	-	-	-	1	-	1
Minnesota Prairie Line, Inc. [MPLI]	2	-	2	-	-	-	-	-	-	2	-	2
Minnesota Southern Rwy, Inc. [MSWY]	1	-	-	-	-	-	1	-	-	-	-	-
Minnesota Transportation Museum [MNTM]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Minnesota Zephyr, Limited [MZL]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota, Dakota & Western Rwy Co. [MDW]	2	-	2	-	-	-	-	-	-	2	-	2
Mississippi & Skuna Valley RR Co. [MSV]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Central RR Co. [MSCI]	1	-	-	1	-	-	-	-	-	-	-	-
Mississippi Export RR Co. [MSE]	3	-	4	-	-	-	2	-	3	1	-	1
Mississippi Tennessee RR LLC [MTNR]	3	1	2	-	-	-	1	1	-	2	-	2
Mississippian Rwy Cooperative, Inc. [MSRW]	-	-	-	-	-	-	-	-	-	-	-	-
Missouri & Northern Arkansas RR Co., Inc. [MNA]	10	-	7	1	-	-	6	-	4	3	-	3
Missouri North Central RR [MNC]	1	1	1	-	-	-	1	1	1	-	-	-
Modesto & Empire Traction Co. [MET]	1	-	1	-	-	-	-	-	-	1	-	1
Mohawk, Adirondack & Northern RR Corp. [MHW]	1	-	1	-	-	-	-	-	-	1	-	1
Montana Western Rwy Co. [MWRR]	1	-	1	-	-	-	-	-	-	1	-	1
Monticello Rwy Museum [MRMZ]	-	-	-	-	-	-	-	-	-	-	-	-
Morehead & South Fork RR Co. Inc. [MHSF]	2	-	2	-	-	-	-	-	-	2	-	2
Morristown & Erie Rwy, Inc. [ME]	1	-	1	-	-	-	-	-	-	1	-	1
Moscow, Camden & San Augustine RR [MCSA]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Dora & Lake Eustis Rwy [MDLX]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Hood Rwy Co. [MH]	-	-	-	-	-	-	-	-	-	-	-	-
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]	-	-	-	-	-	-	-	-	-	-	-	-
Napa Valley RR [NVR]	11	-	10	-	-	-	1	-	-	10	-	10
Nash County RR [NCYR]	2	-	1	1	-	-	-	-	-	1	-	1
Nashville & Eastern RR [NERR]	3	-	1	2	-	-	-	-	-	1	-	1
Nashville & Western RR Corp. [NWR]	1	-	-	-	-	-	1	-	-	-	-	-
Nebkota Rwy, Inc. [NRI]	1	-	2	-	-	-	1	-	2	-	-	-
Nebraska Central RR [NCRC]	7	-	2	5	-	-	-	-	-	2	-	2
Nebraska Northeastern Rwy Co. [NENE]	1	-	-	1	-	-	-	-	-	-	-	-
Nebraska, Kansas, Colorado Railnet [NKCR]	1	-	-	1	-	-	-	-	-	-	-	-
Nevada Northern Rwy [NNRX]	-	-	-	-	-	-	-	-	-	-	-	-
New Castle Industrial RR [NCIR]	-	-	-	-	-	-	-	-	-	-	-	-
New England Central RR [NECR]	5	-	1	4	-	-	-	-	-	1	-	1
New England Southern RR Co., Inc. [NEGS]	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire Central RR, Inc. [NHCR]	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire North Coast RR [NHN]	-	-	-	-	-	-	-	-	-	-	-	-
New Hope & Ivyland Rail Road [NHRR]	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans & Gulf Coast Rwy Co. Inc. [NOGC]	3	-	-	1	-	-	2	-	-	-	-	-
New Orleans Public Belt RR [NOPB]	9	-	4	5	-	-	-	-	-	4	-	4
New York & Atlantic Rwy Co. [NYA]	6	-	4	2	-	-	-	-	-	4	-	4
New York & Greenwood Lake Rwy [NYGL]	-	-	-	-	-	-	-	-	-	-	-	-
New York & Lake Erie [NYLE]	1	-	1	-	-	-	-	-	-	1	-	1
New York & Ogdensburg Rwy Co. Inc. [NYOG]	2	1	1	-	-	-	1	1	-	1	-	1
New York, Susquehanna & Western RR Co. [NYSW]	11	2	1	5	-	-	4	1	-	2	1	1
Newburgh & South Shore RR [NSR]	-	-	-	-	-	-	-	-	-	-	-	-
Niles Canyon Rwy [NICK]	-	-	-	-	-	-	-	-	-	-	-	-
Nimishillen & Tuscarawas, LLC [NTRY]	2	-	2	-	-	-	-	-	-	2	-	2

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Nittany & Bald Eagle [NBER]	-	-	-	-	-	-	-	-	-	-	-	-
Norfolk & Portsmouth Belt Line RR Co. [NPB]	9	-	4	4	-	-	1	-	-	4	-	4
North Carolina & Virginia RR Co. [NCVA]	5	-	1	4	-	-	-	-	-	1	-	1
North Shore RR [NSHR]	2	-	-	2	-	-	-	-	-	-	-	-
North Shore Scenic RR [NSSR]	-	-	-	-	-	-	-	-	-	-	-	-
Northern Ohio & Western Rwy, LTD. [NOW]	3	-	2	1	-	-	-	-	-	2	-	2
Northern Plains RR, Inc. [NPR]	3	-	3	-	-	-	-	-	-	3	-	3
Northwestern Oklahoma RR Co. [NOKL]	-	-	-	-	-	-	-	-	-	-	-	-
Oakland Term. Rwy [OTR]	-	-	-	-	-	-	-	-	-	-	-	-
Ogeechee Rwy Co. [OGEE]	1	-	-	-	-	-	1	-	-	-	-	-
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]	1	-	-	-	-	-	1	-	-	-	-	-
Old Augusta RR Co. [OAR]	1	-	-	1	-	-	-	-	-	-	-	-
Omaha, Lincoln & Beatrice Rwy Co. [OLB]	-	-	-	-	-	-	-	-	-	-	-	-
OmniTrax Switching Services [OMTX]	-	-	-	-	-	-	-	-	-	-	-	-
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]	1	-	-	-	-	-	1	-	-	-	-	-
Otter Tail Valley RR Co., Inc. [OTVR]	-	-	-	-	-	-	-	-	-	-	-	-
Ouachita RR [OUCH]	-	-	-	-	-	-	-	-	-	-	-	-
Owego & Harford Rwy, Inc. [OHRY]	-	-	-	-	-	-	-	-	-	-	-	-
Pacific & Arctic RR & Navigation Co. [PARN]	13	-	14	-	-	-	-	-	-	13	-	14
Pacific Harbor Line Inc. [PHL]	8	-	5	3	-	-	-	-	-	5	-	5
Pacific SW Rwy Museum [PSRM]	-	-	-	-	-	-	-	-	-	-	-	-
Paducah & Illinois RR Co. [PI]	1	-	-	1	-	-	-	-	-	-	-	-
Palouse River & Coulee City RR Inc. [PCC]	6	-	4	2	-	-	-	-	-	4	-	4
Panhandle Northern RR Co. [PNR]	2	-	1	1	-	-	-	-	-	1	-	1
Patapsco & Back Rivers RR Co. [PBR]	11	-	10	1	-	-	-	-	-	10	-	10
Pearl River Valley RR Co. [PRV]	-	-	-	-	-	-	-	-	-	-	-	-
Pecos Valley Southern Rwy Co. [PVS]	-	-	-	-	-	-	-	-	-	-	-	-
Pend Oreille Valley RR, Inc. [POVA]	1	-	1	-	-	-	-	-	-	1	-	1
Peninsula Term. Co. [PT]	-	-	-	-	-	-	-	-	-	-	-	-
Penn Eastern Rail Lines Inc. [PRL]	2	-	1	-	-	-	2	-	1	-	-	-
Pennsylvania Southwestern RR, Inc. [PSWR]	2	-	2	-	-	-	-	-	-	2	-	2
Peoria, Peoria Heights & Western RR [PPHW]	-	-	-	-	-	-	-	-	-	-	-	-
Pickens Rwy Co. [PICK]	2	-	-	-	-	-	2	-	-	-	-	-
Pioneer Industrial Rwy Co. [PRY]	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Valley RR Co., Inc. [PVRR]	-	-	-	-	-	-	-	-	-	-	-	-
Pittsburgh & Conneaut Dock Co., The [PCDX]	2	-	2	-	-	-	-	-	-	2	-	2
Pittsburgh & Ohio Central RR Co., The [POHC]	1	-	-	1	-	-	-	-	-	-	-	-
Pittsburgh, Allegheny & McKees Rocks RR [PAM]	-	-	-	-	-	-	-	-	-	-	-	-
Plymouth & Lincoln [PLL]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

Railroads whose employees worked < 400,000 hours	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Point Comfort & Northern Rwy Co. [PCN]	2	-	1	-	-	-	1	-	-	1	-	1
Port Bienville RR [PBVR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Catoosa Term. RR [POCA]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Los Angeles [PLAX]	1	-	1	-	-	-	-	-	-	1	-	1
Port Of Manatee [MAUP]	2	-	-	2	-	-	-	-	-	-	-	-
Port Of Palm Beach Term. [PPBD]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Tillamook Bay RR [POTB]	2	-	1	1	-	-	-	-	-	1	-	1
Port Royal RR [PRYL]	-	-	-	-	-	-	-	-	-	-	-	-
Port Term. RR Of South Carolina [PTR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Utilities Commission Of Charleston, S.C. [PUC]	-	-	-	-	-	-	-	-	-	-	-	-
Portland & Western RR, Inc. [PNWR]	19	1	4	4	-	-	11	-	1	4	1	3
Portland Term. [PTO]	3	-	2	1	-	-	-	-	-	2	-	2
Potomac Eagle Scenic Rail Excursion [PEX]	-	-	-	-	-	-	-	-	-	-	-	-
Prescott & Northwestern RR Co. [PNW]	-	-	-	-	-	-	-	-	-	-	-	-
Progressive Rail Inc [PGR]	2	-	-	-	-	-	2	-	-	-	-	-
Providence & Worcester RR Co. [PW]	13	1	7	-	-	-	5	-	-	8	1	7
Puget Sound & Pacific RR Co. [PSAP]	5	-	1	1	-	-	3	-	-	1	-	1
Quincy RR Co. [QRR]	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Pennsylvania Lines, Inc. [RJCP]	1	-	-	1	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Central Kentucky Lines [RJCC]	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Corp./Bardstown Line [RJCR]	1	-	-	-	-	-	1	-	-	-	-	-
R. J. Corman, Western Ohio Line [RJCW]	-	-	-	-	-	-	-	-	-	-	-	-
RTD Denver Union Station [DUT]	-	-	-	-	-	-	-	-	-	-	-	-
Rail Serve [RASX]	-	-	-	-	-	-	-	-	-	-	-	-
Rail Tours, Inc. [RTI]	1	-	1	-	-	-	-	-	-	1	-	1
Railroad Switching Service Of Missouri, Inc. [RSM]	-	-	-	-	-	-	-	-	-	-	-	-
Railtown 1897 RR [RTRX]	-	-	-	-	-	-	-	-	-	-	-	-
Rarus Rwy Co. [RARW]	-	-	-	-	-	-	-	-	-	-	-	-
Reading Blue Mountain & Northern RR Commision [RBM]	10	-	9	1	-	-	-	-	-	9	-	9
Red River Valley & Western RR [RRVW]	4	-	2	2	-	-	-	-	-	2	-	2
Redmont Rwy Co. [RRC]	-	-	-	-	-	-	-	-	-	-	-	-
Richmond Pacific RR Corp. [RPRC]	1	-	1	-	-	-	-	-	-	1	-	1
Rio Valley Switching Co. [RVSC]	17	-	8	2	-	-	7	-	-	8	-	8
River Port RR [RVPR]	-	-	-	-	-	-	-	-	-	-	-	-
Rochester Southern RR, Inc. [RSR]	1	-	-	-	-	-	1	-	-	-	-	-
Rock & Rail Inc [RRRR]	1	-	-	-	-	-	1	-	-	-	-	-
Rockdale, Sandow & Southern RR Co. [RSS]	-	-	-	-	-	-	-	-	-	-	-	-
SCTRR, LLC [SCTR]	6	-	3	-	-	-	4	-	1	2	-	2
SF&L Rwy, Inc. [SFLR]	-	-	-	-	-	-	-	-	-	-	-	-
SMS Rail Service, Inc. [SLRS]	1	-	1	-	-	-	-	-	-	1	-	1
Sabine River & Northern RR Co. [SRN]	1	-	1	-	-	-	-	-	-	1	-	1
Saginaw Valley Rwy Co, Inc. [SGVY]	-	-	-	-	-	-	-	-	-	-	-	-
Salt Lake City Southern RR Co., Inc. [SL]	-	-	-	-	-	-	-	-	-	-	-	-
Salt Lake, Garfield & Western Rwy Co. [SLGW]	-	-	-	-	-	-	-	-	-	-	-	-
San Diego & Imperial Valley [SDIY]	-	-	-	-	-	-	-	-	-	-	-	-
San Diego Northern Rwy [SDNX]	6	2	4	-	-	-	-	-	-	6	2	4
San Francisco Belt RR [SFBR]	1	-	1	-	-	-	-	-	-	1	-	1

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
San Joaquin Valley RR Co. [SJVR]	10	-	-	4	-	-	6	-	-	-	-	-
San Luis & Rio Grande RR [SLRG]	2	-	-	1	-	-	1	-	-	-	-	-
San Luis Central RR Co. [SLC]	-	-	-	-	-	-	-	-	-	-	-	-
San Manuel Arizona RR Co. [SMA]	-	-	-	-	-	-	-	-	-	-	-	-
San Pedro & Southwestern RR Co. [SPSR]	-	-	-	-	-	-	-	-	-	-	-	-
Sand Springs Rwy Co. [SS]	2	-	2	-	-	-	-	-	-	2	-	2
Sandersville RR Co. [SAN]	3	-	2	-	-	-	1	-	-	2	-	2
Santa Cruz, Big Tree & Pacific RR [SCBG]	-	-	-	-	-	-	-	-	-	-	-	-
Santa Fe Southern Rwy, Inc. [SFS]	1	-	1	-	-	-	1	-	1	-	-	-
Santa Maria Valley RR Co. [SMV]	-	-	-	-	-	-	-	-	-	-	-	-
Saracuse Binghampton And New York RR [SBNX]	-	-	-	-	-	-	-	-	-	-	-	-
Savannah Port Term. RR, Inc. [SAPT]	1	-	-	-	-	-	1	-	-	-	-	-
Seminole Gulf RR [SGLR]	8	1	2	4	-	-	2	-	1	2	1	1
Semo Port RR, Inc. [SE]	-	-	-	-	-	-	-	-	-	-	-	-
Sequatchie Valley RR [SQVR]	-	-	-	-	-	-	-	-	-	-	-	-
Shamokin Valley RR Co. [SVRR]	2	-	2	-	-	-	-	-	-	2	-	2
Shawnee Term. Rwy Co. [STR]	1	-	1	-	-	-	-	-	-	1	-	1
Shelbyville Industrial RR [SVIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Shenandoah Valley RR [SV]	-	-	-	-	-	-	-	-	-	-	-	-
Sidney & Lowe RR Inc. [SLGG]	1	-	-	1	-	-	-	-	-	-	-	-
Sierra Northern Rwy [SERA]	2	-	1	1	-	-	-	-	-	1	-	1
Sisseton Milbank RR [SMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Ski Train RR [SKTX]	-	-	-	-	-	-	-	-	-	-	-	-
Snoqualmie Valley RR [SNVX]	-	-	-	-	-	-	-	-	-	-	-	-
Somerset RR Co. [SOM]	-	-	-	-	-	-	-	-	-	-	-	-
Sounder Commuter Rail [SCR]	4	-	3	1	-	-	-	-	-	3	-	3
South Branch Valley RR [SBVR]	6	-	4	1	-	-	1	-	-	4	-	4
South Buffalo Rwy Co. [SB]	12	-	5	7	-	-	-	-	-	5	-	5
South Carolina Central RR Co., Inc. [SCRF]	6	-	2	1	-	-	3	-	-	2	-	2
South Carolina RR Museum, The [SCMZ]	-	-	-	-	-	-	-	-	-	-	-	-
South Central Florida Express, Inc. [SCXF]	12	-	6	1	-	-	6	-	1	5	-	5
South Chicago & Indiana Harbor Rwy Co. [SCIH]	-	-	-	-	-	-	-	-	-	-	-	-
South Kansas & Oklahoma RR Co. [SKOL]	24	-	15	8	-	-	3	-	2	13	-	13
South Plains Lamesa RR, Ltd. [SLAL]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Electric RR [SERX]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Freight Logistics, Inc. [SFLX]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Indiana Rwy, Inc. [SIND]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Michigan RR Society [SMRS]	-	-	-	-	-	-	-	-	-	-	-	-
Southern New Jersey Light Rail System [SNJX]	3	-	3	-	-	-	-	-	-	3	-	3
Southern RR Co. Of New Jersey [SRNJ]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Switching Co. [SSC]	-	-	-	-	-	-	-	-	-	-	-	-
Southwest Pennsylvania RR Co. [SWP]	4	-	-	3	-	-	1	-	-	-	-	-
Southwestern RR Co., Inc. [SW]	5	-	1	2	-	-	2	-	-	1	-	1
St. Croix Valley RR Co. [SCXY]	1	-	-	1	-	-	-	-	-	-	-	-
St. Lawrence & Atlantic RR Co. [SLR]	5	-	1	2	-	-	2	-	-	1	-	1
St. Louis, Iron Mountain, & Southern [SLOI]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
St. Maries River RR Co. [STMA]	1	-	1	-	-	-	-	-	-	1	-	1
St. Marys RR Co. [SM]	1	-	1	-	-	-	-	-	-	1	-	1
Steamtown National Historic Site [SNCX]	1	-	-	1	-	-	-	-	-	-	-	-
Steelton & Highspire RR [SH]	-	-	-	-	-	-	-	-	-	-	-	-
Stillwater Central RR Co., Inc. [SLWC]	8	-	5	2	-	-	1	-	-	5	-	5
Stockton Term. & Eastern RR [STE]	3	-	3	-	-	-	-	-	-	3	-	3
Stone Mountain Park [SMPX]	-	-	-	-	-	-	-	-	-	-	-	-
Stourbridge RR Co. [SBRR]	-	-	-	-	-	-	-	-	-	-	-	-
Strasburg RR Co. [SRC]	3	-	3	-	-	-	-	-	-	3	-	3
Sumpter Valley RR [SUVX]	-	-	-	-	-	-	-	-	-	-	-	-
Sunflour RR, Inc. [SNR]	-	-	-	-	-	-	-	-	-	-	-	-
Sweetwater Central RR [SWCX]	-	-	-	-	-	-	-	-	-	-	-	-
Tacoma Municipal Belt Line Rwy [TMBL]	6	-	3	-	-	-	3	-	-	3	-	3
Tacoma Rail Mountain Division [TRMW]	4	-	-	2	-	-	2	-	-	-	-	-
Talley Rand Term. RR [TTR]	-	-	-	-	-	-	-	-	-	-	-	-
Tazewell & Peoria RR, Inc. [TZPR]	10	-	7	4	-	1	-	-	-	6	-	6
Tennessee Southern RR Co., Inc. [TSRR]	1	-	1	-	-	-	-	-	-	1	-	1
Tennessee Valley RR [TVRM]	-	-	-	-	-	-	-	-	-	-	-	-
Tennken RR Co. Inc. [TKEN]	3	-	2	-	-	-	1	-	-	2	-	2
Terminal Rwy Alabama State Docks [TASD]	10	-	3	6	-	-	1	-	-	3	-	3
Texas & New Mexico RR Co. [TNMR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas & Northern Rwy Co. [TN]	1	-	1	-	-	-	-	-	-	1	-	1
Texas City Term. Rwy Co. [TCT]	-	-	-	-	-	-	-	-	-	-	-	-
Texas Mexican Rwy Co. [TM]	28	1	12	10	-	1	7	-	1	11	1	10
Texas Northwestern Rwy Co. [TXNW]	-	-	-	-	-	-	-	-	-	-	-	-
Texas Pacifico Transportation Limited [TXPF]	1	-	-	-	-	-	1	-	-	-	-	-
Texas Rock Crusher Rwy Co. [TXR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas South-Eastern RR Co. [TSE]	1	-	-	1	-	-	-	-	-	-	-	-
Texas State RR [TSR]	4	-	4	-	-	-	-	-	-	4	-	4
Texas, Gonzales & Northern Rwy Co. [TXGN]	-	-	-	-	-	-	-	-	-	-	-	-
The Youngstown Belt RR Co. [YB]	-	-	-	-	-	-	-	-	-	-	-	-
Thermal Belt Rwy [TBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Three Notch RR [TNHR]	1	-	-	-	-	-	1	-	-	-	-	-
Timberrock RR Co., Inc. [TIBR]	3	-	2	1	-	-	-	-	-	2	-	2
Tioga Central RR [TIOC]	-	-	-	-	-	-	-	-	-	-	-	-
Tishomingo RR Co., Inc. [TISH]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo Lake Erie & Western RR [TLEW]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo, Peoria & Western Rwy Corp. [TPW]	8	-	2	3	-	-	3	-	-	2	-	2
Tomahawk Rwy, L.P. [TR]	2	-	2	-	-	-	-	-	-	2	-	2
Toppenish Simcoe & Western [TSWR]	1	-	-	-	-	-	1	-	-	-	-	-
Towanda Monroeton Shippers Lifeline, Inc. [TMSS]	-	-	-	-	-	-	-	-	-	-	-	-
TransitAmerica, LLC [TAMX]	-	-	-	-	-	-	-	-	-	-	-	-
Transkentucky Transportation RR, Inc. [TTIS]	1	-	1	-	-	-	-	-	-	1	-	1
Tri-City RR Co. [TCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Tri-county Commuter Rail Authority [TCCX]	53	2	46	-	-	-	6	-	1	47	2	45
Trinity Industries, Inc./Trinity Rail Svcs [TIIX]	-	-	-	-	-	-	-	-	-	-	-	-

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2003

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
Trinity Rwy Express [TREX]	5	2	2	-	-	-	2	-	1	3	2	1
Trona Rwy Co. [TRC]	3	-	3	-	-	-	-	-	-	3	-	3
Tulsa-Sapulpa Union Rwy Co. LLC [TSU]	2	-	-	2	-	-	-	-	-	-	-	-
Turtle Creek Industrial RR, Inc. [TCKR]	-	-	-	-	-	-	-	-	-	-	-	-
Tuscola & Saginaw Bay RR Co., Inc. [TSBY]	9	-	5	-	-	-	6	-	2	3	-	3
Twin City & Western RR [TCWR]	6	-	5	1	-	-	1	-	1	4	-	4
U. S. Rail Corp. [USRV]	1	-	-	1	-	-	-	-	-	-	-	-
Union County Industrial RR Co. [UCIR]	-	-	-	-	-	-	-	-	-	-	-	-
Upper Merion & Plymouth RR Co. [UMP]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Central Rwy Co. [UCRY]	1	-	-	1	-	-	-	-	-	-	-	-
Utah Rwy Co. [UTAH]	10	-	1	5	-	-	4	-	-	1	-	1
Utah Transit Authority [UTAX]	4	-	2	-	-	-	4	-	2	-	-	-
V and S Rwy, Inc. [VSR]	-	-	-	-	-	-	-	-	-	-	-	-
Valdosta Rwy, L.P. [VR]	-	-	-	-	-	-	-	-	-	-	-	-
Valley RR Co. [VALE]	-	-	-	-	-	-	-	-	-	-	-	-
Vandalia RR Co. [VRRRC]	-	-	-	-	-	-	-	-	-	-	-	-
Vaughan RR Co. [VRCX]	-	-	-	-	-	-	-	-	-	-	-	-
Ventura County RR Co. [VCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Vermillion Valley RR Co., Inc. [VVRRC]	-	-	-	-	-	-	-	-	-	-	-	-
Vermont Rwy, Inc. [VTR]	10	-	9	1	-	-	-	-	-	9	-	9
Virginia & Truckee RR Co., Inc. [VTRR]	-	-	-	-	-	-	-	-	-	-	-	-
Virginia Rwy Express [VREX]	5	-	3	1	-	-	1	-	-	3	-	3
Virginia Southern RR [VSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Wabash Central RR Corp. [WBCR]	-	-	-	-	-	-	-	-	-	-	-	-
Waccamaw Coast Line RR Co. [WCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Walkersville Southern RR, Inc. [WS]	-	-	-	-	-	-	-	-	-	-	-	-
Walking Horse & Eastern RR Co. [WHOE]	-	-	-	-	-	-	-	-	-	-	-	-
Wallowa Union RR Authority [WURR]	-	-	-	-	-	-	-	-	-	-	-	-
Warren & Saline River RR Co. [WSR]	-	-	-	-	-	-	-	-	-	-	-	-
Warren & Trumbull RR Co., The [WTRM]	-	-	-	-	-	-	-	-	-	-	-	-
Washington County RR Corp. [WACR]	2	-	2	-	-	-	1	-	1	1	-	1
Watco [WATX]	4	-	-	3	-	-	1	-	-	-	-	-
Wctu Rwy Co. [WCTR]	-	-	-	-	-	-	-	-	-	-	-	-
Wellsboro & Corning RR Co. [WCOR]	-	-	-	-	-	-	-	-	-	-	-	-
West Isle Line Inc. [WFS]	-	-	-	-	-	-	-	-	-	-	-	-
West Michigan RR Co. [WMI]	-	-	-	-	-	-	-	-	-	-	-	-
West Tennessee RR Corp. [WTNN]	3	-	3	-	-	-	-	-	-	3	-	3
West Texas and Lubbock Rwy Co. [WTLC]	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia Central RR [WVC]	-	-	-	-	-	-	-	-	-	-	-	-
Western Kentucky Rwy, LLC [WKRL]	-	-	-	-	-	-	-	-	-	-	-	-
Western Maryland Scenic RR [WMSR]	-	-	-	-	-	-	-	-	-	-	-	-
Western New York & Pennsylvania RR LLC [WNYP]	2	-	1	-	-	-	1	-	-	1	-	1
Western RR Co. [WRRRC]	1	-	1	-	-	-	-	-	-	1	-	1
Western Rwy Museum [WRM]	-	-	-	-	-	-	-	-	-	-	-	-
Weyerhaeuser Woods RRs [WCTX]	2	-	1	1	-	-	-	-	-	1	-	1
Whitewater Valley RR [WVRR]	-	-	-	-	-	-	-	-	-	-	-	-

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	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Wichita Term. Association [WTA]	2	-	1	-	-	-	1	-	-	1	-	1
Wichita, Tillman & Jackson Rwy Co., Inc. [WTJR]	2	-	-	2	-	-	-	-	-	-	-	-
Wilkes-Barre Connecting RR Co. [WBC]	-	-	-	-	-	-	-	-	-	-	-	-
Willamette & Pacific RR, Inc. [WPRR]	9	1	1	4	-	-	4	1	-	1	-	1
Willamette Valley Rwy Co. [WVR]	1	-	1	-	-	-	1	-	1	-	-	-
Wilmington & Western RR Co. [WWRC]	1	-	1	-	-	-	-	-	-	1	-	1
Wilmington Term. RR Inc. [WTRY]	-	-	-	-	-	-	-	-	-	-	-	-
Winamac Southern Rwy Co. [WSRY]	-	-	-	-	-	-	-	-	-	-	-	-
Winchester & Western RR Co. [WW]	3	-	3	-	-	-	-	-	-	3	-	3
Winston-Salem Southbound Rwy [WSS]	5	-	2	1	-	-	3	-	1	1	-	1
Wiregrass Central RR Co. [WGCR]	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming & Colorado RR [WYCO]	-	-	-	-	-	-	-	-	-	-	-	-
Yadkin Valley RR Co. [YVRR]	2	-	-	2	-	-	-	-	-	-	-	-
Yolo Shortline RR Co. [YSLR]	2	-	2	-	-	-	-	-	-	2	-	2
York Rwy Co. [YRC]	3	-	-	-	-	-	3	-	-	-	-	-
Youngstown & Austintown RR [YARR]	-	-	-	-	-	-	-	-	-	-	-	-
Yreka Western RR Co. [YW]	-	-	-	-	-	-	-	-	-	-	-	-