

# RAILROAD SAFETY STATISTICS

2004 ANNUAL REPORT



U.S. Department of Transportation  
**Federal Railroad Administration**

November 2005

always expect a train





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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 2004* 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 2004. 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 November 2, 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)  
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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 2004 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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**TABLE 1-1 ACCIDENT/INCIDENT HISTORICAL SUMMARY, Part I**

Category	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>---GRAND TOTAL---</b>												
<b>Accidents/incidents</b>	24,740	22,465	19,591	17,690	16,699	16,501	16,776	16,918	16,087	14,404	14,279	14,232
<b>Rate 1/</b>	21.82	19.14	16.60	15.05	14.14	13.78	13.72	13.94	13.56	12.18	11.95	11.59
<b>Deaths</b>	1,279	1,226	1,146	1,039	1,063	1,008	932	937	971	951	867	898
<b>Nonfatal conditions</b>	19,121	16,812	14,440	12,558	11,767	11,459	11,700	11,643	10,985	11,103	9,180	8,871
<b>---TRAIN ACCIDENTS-----</b>												
<b>Rate 2/</b>	4.25	3.82	3.67	3.64	3.54	3.77	3.89	4.13	4.25	3.76	4.03	4.28
<b>Total number</b>	2,611	2,504	2,459	2,443	2,397	2,575	2,768	2,983	3,023	2,738	2,997	3,296
<b>Deaths</b>	67	12	14	25	17	4	9	10	6	15	4	13
<b>Injuries</b>	308	262	294	281	183	129	130	275	310	1,884	227	229
<b>Collisions</b>	205	240	235	205	202	168	205	238	220	192	200	237
<b>Derailments</b>	1,930	1,825	1,742	1,816	1,741	1,757	1,961	2,112	2,234	1,989	2,114	2,367
<b>On main line</b>	955	914	912	941	867	934	858	976	1,025	886	962	1,009
<b>On yard track</b>	1,383	1,339	1,279	1,249	1,223	1,306	1,531	1,619	1,569	1,478	1,651	1,860
<b>Yard track rate 3/</b>	15.87	14.91	14.23	14.22	14.41	15.60	17.51	18.21	18.30	18.25	20.21	22.14
<b>Other track rate 4/</b>	2.33	2.06	2.03	2.05	1.98	2.12	1.98	2.15	2.32	1.95	2.03	2.10
<b>Track caused</b>	963	911	856	905	879	900	995	1,035	1,121	941	969	1,010
<b>Track caused rate</b>	1.57	1.39	1.28	1.35	1.30	1.32	1.40	1.43	1.58	1.29	1.30	1.31
<b>Human factor caused</b>	865	911	944	783	855	971	1,031	1,147	1,035	1,050	1,217	1,329
<b>Equipment caused</b>	360	293	279	318	271	307	321	372	427	367	361	416
<b>Signal caused</b>	54	36	27	49	39	38	49	70	42	50	58	65
<b>Equip Dmg (millions \$)</b>	121.833	124.850	134.766	160.908	152.092	162.561	164.654	169.172	200.752	173.982	191.411	223.615
<b>Track Dmg (millions \$)</b>	48.816	43.899	54.458	51.407	58.637	71.337	80.435	94.040	113.713	92.550	99.118	98.757
<b>Hazmat</b>												
<b>Consists releasing</b>	28	34	26	34	31	42	41	35	32	31	27	29
<b>Cars releasing</b>	57	40	48	69	38	66	75	75	57	56	38	47
<b>People evacuated</b>	3,207	15,336	2,817	8,547	8,812	2,058	996	5,258	52,620	5,438	2,260	5,938
<b>---HIGHWAY-RAIL-----</b>												
<b>Rate 5/</b>	7.97	7.60	6.92	6.34	5.71	5.14	4.90	4.84	4.55	4.22	4.00	3.98
<b>Incidents</b>	4,892	4,979	4,633	4,257	3,865	3,508	3,489	3,502	3,237	3,077	2,977	3,063
<b>Deaths</b>	626	615	579	488	461	431	402	425	421	357	334	368
<b>Injuries</b>	1,837	1,961	1,894	1,610	1,540	1,303	1,396	1,219	1,157	999	1,031	1,081
<b>---OTHER INCIDENTS-----</b>												
<b>Incidents 6/</b>	17,237	14,982	12,499	10,990	10,437	10,418	10,519	10,433	9,827	8,589	8,305	7,873
<b>Deaths</b>	586	599	553	526	585	573	521	502	544	579	529	517
<b>Injuries</b>	16,976	14,589	12,252	10,667	10,044	10,027	10,174	10,149	9,518	8,220	7,922	7,561

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



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

Category	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>...EMPLOYEE COUNTS....</b>												
<b>All accidents/incidents</b>												
<b>Rate 1/</b>	5.93	5.06	4.24	3.66	3.31	3.27	3.39	3.44	3.30	2.94	2.76	2.59
<b>Deaths</b>	47	31	34	33	37	27	31	24	22	20	19	25
<b>Nonfatal conditions</b>	15,363	13,080	10,777	9,199	8,295	8,398	8,622	8,423	7,815	6,644	6,215	5,898
<b>Cases with days absent</b>	10,115	8,758	7,055	5,981	5,371	5,359	5,779	5,788	5,409	4,642	4,378	3,977
<b>Percent of total</b>	65.64	66.80	65.26	64.79	64.46	63.61	66.79	68.52	69.02	69.66	70.23	67.15
<b>Sprains/strains</b>	7,641	6,428	5,203	4,427	3,960	3,945	4,280	4,357	4,025	3,353	3,016	2,788
<b>Occupational illnesses</b>	544	285	254	157	128	171	141	129	167	120	171	231
<b>...PASSENGERS ON TRAINS</b>												
<b>Rate 2/</b>	4.48	3.57	4.18	3.86	4.29	3.69	3.33	4.10	4.78	5.83	4.56	4.02
<b>Deaths</b>	58	5	0	12	6	4	14	4	3	7	3	3
<b>Injuries</b>	559	497	573	513	601	535	481	658	746	877	708	621
<b>In Train Accs/Highway-Rail</b>												
<b>Deaths</b>	49	2	0	9	1	2	11	0	1	7	1	1
<b>Rate</b>	0.36	0.01	0.00	0.07	0.01	0.01	0.07	0.00	0.01	0.05	0.01	0.01
<b>Injuries</b>	168	154	119	139	94	30	54	95	149	304	148	66
<b>...TRESPASSER COUNTS...</b>												
<b>Rate 3/</b>	1.68	1.50	1.43	1.41	1.55	1.54	1.30	1.21	1.29	1.28	1.21	1.15
<b>Deaths</b>	523	529	494	471	533	536	479	463	511	540	500	482
<b>Injuries</b>	509	452	461	474	516	513	445	414	404	395	398	401
<b>---OPERATIONS(millions)</b>												
<b>Total train miles 4/</b>	613.974	655.083	669.823	670.924	676.716	682.895	712.453	722.877	711.550	728.674	743.526	769.293
<b>Yard switching miles 5/</b>	87.122	89.776	89.892	87.823	84.874	83.692	87.459	88.919	85.747	81.002	81.703	83.997
<b>Employee hours 6/</b>	519.673	518.634	510.457	504.599	503.918	514.870	509.997	490.926	475.120	454.102	451.136	458.234
<b>Passengers carried 7/</b>	371.610	393.600	385.827	397.394	408.619	439.958	464.885	501.750	517.249	503.930	494.226	534.460

*Total employee deaths, injuries, illnesses \* 200,000 / total hours worked*  
*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.*  
*All trespasser deaths and injuries \* 1,000,000 / total train miles*  
*Movement of a train for a distance of one mile*  
*Movement of trains doing yard switching for a distance of one mile*  
*Total hours worked by employees of the railroad. Excluded contractors.*  
*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				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
A - Worker on duty(rr empl)	4	4	3	2	7	148	156	157	139	155
B - Employee not on duty	-	-	-	-	-	15	21	-	2	5
C - Passenger on train	-	1	7	-	1	85	129	278	74	52
D - Nontrespasser	3	-	-	-	-	11	1	2	4	-
E - Trespasser	2	1	4	2	1	1	-	3	1	-
F - Worker on duty(contractr)	-	-	-	-	1	-	-	-	3	7
G - Contractor(other)	-	-	-	-	-	2	1	2	2	1
J - Nontrespasser, off rr prop	1	-	1	-	3	13	2	1,442	2	9
--Total...	10	6	15	4	13	275	310	1,884	227	229

## Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities					Nonfatal Conditions				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
A - Worker on duty(rr empl)	2	1	1	1	2	100	97	110	76	114
B - Employee not on duty	-	-	-	-	-	3	1	-	-	4
C - Passenger on train	-	-	-	1	-	10	20	26	74	14
D - Nontrespasser	315	258	249	197	218	906	803	636	649	667
E - Trespasser	107	162	106	134	146	192	223	214	226	259
F - Worker on duty(contractr)	-	-	-	1	-	-	1	-	2	-
G - Contractor(other)	-	-	1	-	-	1	2	1	-	1
J - Nontrespasser, off rr prop	1	-	-	-	2	7	10	12	4	22
--Total...	425	421	357	334	368	1,219	1,157	999	1,031	1,081

## Other Incidents, Excluding HRC

Type Person	Fatalities					Nonfatal Conditions				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
A - Worker on duty(rr empl)	18	17	16	16	16	8,175	7,562	6,377	6,000	5,629
B - Employee not on duty	1	-	1	1	-	268	187	213	224	188
C - Passenger on train	4	2	-	2	2	563	597	573	560	555
D - Nontrespasser	14	11	17	7	14	347	348	251	365	430
E - Trespasser	461	510	536	498	481	413	404	392	397	401
F - Worker on duty(contractr)	-	2	3	2	1	183	167	181	178	143
G - Contractor(other)	3	2	6	2	2	182	212	191	185	195
H - Worker on duty(volunteer)	-	-	-	-	-	6	4	5	5	3
I - Volunteer(other)	-	-	-	-	-	2	-	-	2	2
J - Nontrespasser, off rr prop	1	-	-	1	1	10	37	37	6	15
--Total...	502	544	579	529	517	10,149	9,518	8,220	7,922	7,561

## GRAND TOTAL

Type Person	Fatalities					Nonfatal Conditions				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
A - Worker on duty(rr empl)	24	22	20	19	25	8,423	7,815	6,644	6,215	5,898
B - Employee not on duty	1	-	1	1	-	286	209	213	226	197
C - Passenger on train	4	3	7	3	3	658	746	877	708	621
D - Nontrespasser	332	269	266	204	232	1,264	1,152	889	1,018	1,097
E - Trespasser	570	673	646	634	628	606	627	609	624	660
F - Worker on duty(contractr)	-	2	3	3	2	183	168	181	183	150
G - Contractor(other)	3	2	7	2	2	185	215	194	187	197
H - Worker on duty(volunteer)	-	-	-	-	-	6	4	5	5	3
I - Volunteer(other)	-	-	-	-	-	2	-	-	2	2
J - Nontrespasser, off rr prop	3	-	1	1	6	30	49	1,491	12	46
--Total...	937	971	951	867	898	11,643	10,985	11,103	9,180	8,871

**TABLE 1-4 TOTAL CASUALTIES BY RAILROAD**

Railroads	Fatalities					Nonfatal				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
Alton & Southern	-	-	-	-	-	22	8	13	11	8
Alaska RR Corp.	1	-	-	-	-	50	57	30	29	28
Amtrak	131	139	126	118	128	1,412	1,527	1,484	1,338	1,326
Bangor & Aroostook	-	-	-	-	-	26	15	15	-	-
Burlington Northern Santa Fe	151	126	149	135	143	1,493	1,485	1,242	1,104	1,077
Belt Rwy Of Chicago	-	-	-	-	-	5	10	10	15	15
Conrail Shared Assets	1	7	2	1	1	56	53	51	51	35
CSX Transportation	124	143	120	134	139	1,324	1,119	859	979	979
Delaware & Hudson	4	5	2	1	1	49	52	47	40	21
Dakota, Minnesota & Eastern	1	-	-	2	1	22	17	14	16	41
Duluth, Missabe & Iron Range	-	-	-	-	1	38	32	21	23	20
Elgin, Joliet & Eastern	-	-	-	-	-	32	39	12	23	13
Florida East Coast	22	13	24	18	17	46	27	34	37	32
Grand Canyon Railway	-	-	-	-	-	28	43	32	21	27
Guilford Rail System	3	1	-	3	1	29	16	7	23	10
Grand Trunk Western RR	4	7	7	6	1	120	96	64	77	68
Gateway Western	4	1	-	-	-	7	10	-	-	-
Illinois Central	17	26	18	9	10	225	183	150	153	131
Iowa Chicago & Eastern RR	6	5	1	3	1	68	43	28	42	44
Indiana Harbor Belt	2	-	-	-	-	43	42	22	33	29
Kansas City Southern	24	21	21	16	21	143	126	137	129	162
Long Island Rail Road	7	10	9	7	4	414	382	323	321	327
MD Assn. of Rail Comm	2	-	-	-	2	5	7	18	7	8
Mass Bay Transit Auth.	11	11	15	5	4	103	113	127	120	91
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	11	12
Metro North Commuter	4	3	6	1	4	476	466	375	430	354
Montana Rail Link	3	2	1	1	-	22	38	26	35	49
Northern IN Comm Trans	-	-	-	-	-	25	16	32	24	35
Northeast IL Reg Comm	5	17	23	16	12	283	388	360	261	265
New Jersey Transit Rail	21	32	16	8	17	174	219	208	226	186
Norfolk Southern Corp.	118	126	126	108	127	778	653	614	662	617
Paducah & Louisville	-	1	1	-	1	16	9	8	8	10
Port Auth Trans Hudson	1	2	1	-	-	199	158	206	170	173
Peninsula Comm San Mateo Cnty	14	12	5	10	9	25	23	31	29	34
Port Terminal RR Assn	-	-	-	-	-	11	11	20	17	14
Southern CA Reg Rail Auth.	1	1	9	13	5	31	24	53	59	24
Southeastern PA Trans.	3	3	4	-	7	279	262	202	232	246
Soo Line	5	6	8	8	2	166	166	1,606	107	92
Texas Mexican	1	-	1	1	4	27	16	22	12	16
Term RR Assn Of St. Louis	-	-	-	-	-	8	13	5	6	5
Union Pacific	204	211	221	207	205	1,994	1,877	1,566	1,371	1,331
Union RR (Pittsburgh)	-	-	-	-	-	21	25	16	30	18
Wisconsin Central Ltd.	11	11	8	5	4	161	121	97	95	74
Wheeling & Lake Erie	-	-	1	-	-	19	15	9	18	12
Wisconsin & Southern RR	2	-	-	-	-	38	36	37	32	21
Other Railroads	29	29	26	31	26	1,130	947	870	753	791
<b>Total</b>	<b>937</b>	<b>971</b>	<b>951</b>	<b>867</b>	<b>898</b>	<b>11,643</b>	<b>10,985</b>	<b>11,103</b>	<b>9,180</b>	<b>8,871</b>

**TABLE 1-5 TOTAL CASUALTIES BY STATE**

States	Fatalities					Nonfatal					5 year Total	
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	Kld	Nonf
Alabama	20	22	18	16	19	143	142	123	132	121	95	661
Alaska	2	-	-	-	-	82	102	47	43	41	2	315
Arizona	27	15	16	17	19	147	173	135	112	139	94	706
Arkansas	30	16	28	11	11	225	231	152	142	125	96	875
California	101	132	130	118	124	808	718	723	696	489	605	3,434
Colorado	10	9	12	6	4	112	167	123	127	137	41	666
Connecticut	6	3	7	2	7	159	169	127	128	111	25	694
Delaware	2	3	7	3	1	47	48	44	63	63	16	265
Dist Of Columbia	-	1	1	1	3	90	87	75	140	206	6	598
Florida	45	43	54	47	41	303	299	377	259	238	230	1,476
Georgia	23	27	20	31	34	231	231	169	227	179	135	1,037
Hawaii	-	-	-	-	-	-	1	-	1	-	-	2
Idaho	11	3	2	6	5	53	60	50	71	53	27	287
Illinois	69	73	58	58	59	1,109	1,103	949	841	832	317	4,834
Indiana	36	28	26	29	38	317	240	201	199	210	157	1,167
Iowa	9	20	22	11	8	211	220	126	119	151	70	827
Kansas	21	11	15	9	13	226	198	129	142	137	69	832
Kentucky	14	15	11	13	15	170	136	124	131	149	68	710
Louisiana	16	35	28	22	34	310	252	214	174	225	135	1,175
Maine	2	-	-	3	1	58	33	32	27	23	6	173
Maryland	9	7	9	8	10	103	113	176	93	78	43	563
Massachusetts	17	14	15	12	13	183	205	219	195	158	71	960
Michigan	23	22	11	15	17	300	246	191	186	180	88	1,103
Minnesota	11	15	17	17	19	303	261	199	172	167	79	1,102
Mississippi	17	33	24	12	19	120	115	95	95	143	105	568
Missouri	29	16	19	20	17	221	233	179	199	181	101	1,013
Montana	4	3	5	6	5	108	109	82	74	128	23	501
Nebraska	8	7	18	8	13	247	241	185	165	158	54	996
Nevada	1	3	4	6	3	25	32	26	24	23	17	130
New Hampshire	-	-	-	1	-	15	6	10	3	6	1	40
New Jersey	28	38	23	19	24	432	438	464	444	369	132	2,147
New Mexico	4	17	12	13	18	106	76	75	55	58	64	370
New York	32	28	30	30	24	1,168	1,132	956	961	914	144	5,131
North Carolina	24	26	23	21	32	121	113	98	104	111	126	547
North Dakota	9	4	3	6	2	82	76	1,523	61	67	24	1,809
Ohio	28	34	48	26	35	339	247	250	274	278	171	1,388
Oklahoma	22	17	21	20	21	124	109	85	95	102	101	515
Oregon	9	14	7	11	11	152	140	130	96	109	52	627
Pennsylvania	23	35	31	21	18	583	540	481	489	513	128	2,606
Rhode Island	1	1	1	1	1	19	20	19	29	22	5	109
South Carolina	20	12	22	12	18	141	83	101	98	84	84	507
South Dakota	3	1	3	1	1	43	31	20	37	41	9	172
Tennessee	15	24	16	22	16	163	173	143	155	144	93	778
Texas	90	88	83	88	74	777	750	765	556	568	423	3,416
Utah	5	4	5	4	9	88	102	47	37	55	27	329
Vermont	1	1	-	-	-	22	19	30	19	19	2	109
Virginia	13	6	13	13	4	169	154	136	166	129	49	754
Washington	16	23	15	20	23	230	229	179	185	156	97	979
West Virginia	9	5	3	10	9	93	88	76	93	75	36	425
Wisconsin	20	15	13	16	6	258	202	180	170	135	70	945
Wyoming	2	2	2	5	-	107	92	63	76	71	11	409
<b>Total</b>	<b>937</b>	<b>971</b>	<b>951</b>	<b>867</b>	<b>898</b>	<b>11,643</b>	<b>10,985</b>	<b>11,103</b>	<b>9,180</b>	<b>8,871</b>	<b>4,624</b>	<b>51,782</b>

**TABLE 1-6 TOTAL EMPLOYEE ON DUTY CASES BY RAILROAD**

Railroads	2000		2001		2002		2003		2004	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	22	6.62	8	2.33	12	3.44	11	3.21	8	2.30
Alaska RR Corp.	40	6.13	50	7.01	28	3.89	26	3.66	28	3.77
Amtrak	920	4.01	881	4.10	824	4.18	793	4.20	828	4.35
Bangor & Aroostook	26	8.33	15	5.97	15	6.89	-	-	-	-
Burlington Northern Santa Fe	1,059	2.61	1,067	2.67	854	2.27	732	1.99	637	1.64
Belt Rwy Of Chicago	5	0.80	10	1.83	10	2.11	14	2.70	15	2.93
Conrail Shared Assets	32	1.68	28	1.81	33	2.39	33	2.50	20	1.63
CSX Transportation	998	2.89	806	2.44	636	2.00	731	2.30	691	2.29
Delaware & Hudson	40	4.57	49	7.37	47	8.88	38	6.48	18	3.21
Dakota, Minnesota & Eastern	19	5.22	16	4.10	11	3.10	16	4.36	32	7.60
Duluth, Missabe & Iron Range	37	5.56	32	5.77	21	3.76	22	4.64	20	4.01
Elgin, Joliet & Eastern	32	4.24	36	4.98	8	1.13	20	2.86	13	1.87
Florida East Coast	26	3.15	15	1.88	22	2.83	14	1.83	13	1.68
Grand Canyon Railway	26	13.20	35	17.58	28	13.28	19	7.86	18	6.70
Guilford Rail System	28	2.91	11	1.20	6	0.70	18	2.15	9	1.06
Grand Trunk Western RR	108	5.79	84	4.37	59	3.25	65	3.57	59	3.36
Gateway Western	2	0.73	8	2.83	-	-	-	-	-	-
Illinois Central	159	3.85	132	3.06	113	2.72	121	3.00	103	2.60
Iowa Chicago & Eastern RR	51	7.78	27	3.54	18	1.58	29	5.29	38	6.51
Indiana Harbor Belt	37	4.25	39	5.07	20	2.63	31	4.07	26	3.27
Kansas City Southern	77	2.75	64	2.41	90	3.20	83	2.97	99	3.28
Long Island Rail Road	350	5.59	303	5.12	259	4.17	241	3.50	187	2.80
MD Assn. of Rail Comm	4	1.65	3	1.10	8	2.81	3	1.08	2	0.78
Mass Bay Transit Auth.	80	4.50	91	4.92	104	5.63	94	5.14	78	4.28
Montreal, Maine & Atlantic	-	-	-	-	-	-	10	5.00	12	5.37
Metro North Commuter	367	7.00	347	6.50	282	5.20	305	5.41	267	4.61
Montana Rail Link	21	2.19	37	3.97	25	2.90	30	3.15	41	4.22
Northern IN Comm Trans	25	6.46	13	3.17	25	6.30	24	6.10	34	8.72
Northeast IL Reg Comm	132	5.03	180	4.27	121	2.80	64	1.52	76	1.78
New Jersey Transit Rail	141	3.61	163	4.17	158	3.78	150	3.39	128	2.83
Norfolk Southern Corp.	499	1.46	399	1.33	386	1.33	410	1.40	352	1.19
Paducah & Louisville	13	4.29	4	1.40	4	1.43	6	2.20	7	2.55
Port Auth Trans Hudson	105	11.32	108	11.22	108	10.61	78	7.55	108	10.65
Peninsula Comm San Mateo Cnty	22	5.15	18	4.12	23	5.36	20	4.78	22	5.50
Port Terminal RR Assn	8	2.44	9	2.70	19	6.17	16	5.37	14	4.37
Southern CA Reg Rail Auth.	14	4.72	8	2.68	9	2.83	5	1.52	7	2.10
Southeastern PA Trans.	142	8.30	178	10.01	164	9.49	184	10.56	168	10.37
Soo Line	147	5.08	150	4.84	123	3.92	84	2.69	71	2.25
Texas Mexican	20	8.60	15	6.44	12	6.19	10	5.06	10	4.63
Term RR Assn Of St. Louis	7	2.27	13	4.52	5	1.78	5	1.84	4	1.38
Union Pacific	1,532	3.10	1,464	3.01	1,159	2.57	980	2.19	939	1.99
Union RR (Pittsburgh)	21	6.68	25	5.85	15	3.06	30	6.35	17	3.97
Wisconsin Central Ltd.	102	4.35	84	3.84	77	3.98	76	4.17	52	3.14
Wheeling & Lake Erie	16	3.64	9	2.22	6	1.54	9	2.34	5	1.20
Wisconsin & Southern RR	34	18.37	31	16.81	32	16.32	30	14.85	19	9.41
Other Railroads	901	7.12	772	6.34	685	5.87	554	4.77	628	5.25

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



**TABLE 1-7 TRAIN ACCIDENTS BY RAILROAD, EXCLUDING HRC**

Railroads	2000		2001		2002		2003		2004	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	6	7.80	11	13.82	15	18.43	14	15.34	16	15.78
Alaska RR Corp.	2	1.49	1	0.70	5	3.46	6	3.81	1	0.61
Amtrak	148	4.10	150	3.89	112	2.82	111	2.81	111	2.83
Bangor & Aroostook	6	5.41	2	2.44	2	3.15	-	-	-	-
Burlington Northern Santa Fe	573	3.57	623	3.82	538	3.32	572	3.30	650	3.49
Belt Rwy Of Chicago	20	43.56	15	33.53	18	47.81	19	39.53	26	47.66
Conrail Shared Assets	40	15.59	33	14.50	31	14.58	42	18.33	35	15.39
CSX Transportation	484	4.23	389	3.58	354	3.22	514	4.78	527	4.78
Delaware & Hudson	9	3.72	8	3.95	9	4.98	4	2.17	12	6.65
Dakota, Minnesota & Eastern	23	28.63	15	19.40	16	21.25	19	27.26	42	57.11
Duluth, Missabe & Iron Range	7	9.60	4	5.57	12	18.05	2	3.69	5	8.13
Elgin, Joliet & Eastern	10	15.37	11	17.23	15	24.38	9	13.46	17	24.35
Florida East Coast	18	6.27	15	5.89	11	4.91	11	4.49	11	4.63
Grand Canyon Railway	-	-	-	-	-	-	-	-	-	-
Guilford Rail System	9	9.06	3	1.77	3	2.03	6	4.09	5	3.41
Grand Trunk Western RR	20	3.71	15	2.94	16	3.32	17	3.76	12	2.55
Gateway Western	9	10.37	12	13.16	-	-	-	-	-	-
Illinois Central	71	6.13	66	6.10	60	6.08	66	6.36	37	3.53
Iowa Chicago & Eastern RR	37	18.56	36	18.54	30	10.15	37	10.74	50	15.11
Indiana Harbor Belt	26	17.00	24	18.15	16	11.92	17	12.54	28	19.08
Kansas City Southern	94	11.84	92	12.01	93	10.88	99	11.80	125	14.81
Long Island Rail Road	18	2.19	19	2.31	14	1.71	12	1.46	13	1.60
MD Assn. of Rail Comm	2	1.82	-	-	2	1.65	-	-	4	3.27
Mass Bay Transit Auth.	1	0.26	2	0.52	-	-	2	0.51	1	0.26
Montreal, Maine & Atlantic	-	-	-	-	-	-	2	4.56	6	12.59
Metro North Commuter	38	4.63	55	6.55	46	5.33	70	8.10	56	6.31
Montana Rail Link	13	3.75	19	5.40	17	4.83	11	3.00	14	3.72
Northern IN Comm Trans	1	1.14	1	1.14	-	-	-	-	1	1.14
Northeast IL Reg Comm	5	1.39	7	0.80	5	0.56	3	0.34	6	0.65
New Jersey Transit Rail	17	2.02	25	2.95	39	4.82	42	4.95	48	5.44
Norfolk Southern Corp.	275	2.87	239	2.66	232	2.52	315	3.39	315	3.25
Paducah & Louisville	3	5.07	5	8.78	4	6.93	1	1.81	5	8.86
Port Auth Trans Hudson	2	0.99	3	1.48	3	1.35	2	0.96	2	0.95
Peninsula Comm San Mateo Cnty	2	1.81	1	0.83	1	0.85	-	-	2	1.92
Port Terminal RR Assn	13	10.51	18	14.40	15	12.02	12	9.67	14	11.32
Southern CA Reg Rail Auth.	1	0.57	3	1.65	3	1.50	-	-	2	0.94
Southeastern PA Trans.	16	2.96	10	1.87	22	4.16	15	2.82	10	1.98
Soo Line	23	2.80	31	3.74	17	2.01	27	2.99	18	1.93
Texas Mexican	9	10.26	14	53.05	8	36.00	10	46.28	7	30.66
Term RR Assn Of St. Louis	7	10.44	9	13.64	13	21.95	11	19.37	9	14.30
Union Pacific	758	4.19	896	5.19	824	4.41	797	4.19	938	4.86
Union RR (Pittsburgh)	7	50.96	2	17.71	5	37.41	6	46.24	6	48.04
Wisconsin Central Ltd.	48	8.27	34	5.44	31	5.21	18	3.37	18	3.21
Wheeling & Lake Erie	8	12.11	10	15.47	12	14.72	13	15.25	3	3.24
Wisconsin & Southern RR	10	41.61	8	31.42	9	34.85	5	17.19	2	6.64
Other Railroads	328	13.17	345	13.83	272	10.64	300	11.68	358	13.19

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

**TABLE 1-8 TRAIN ACCIDENTS BY STATE, EXCLUDING HRC**

States	2000		2001		2002		2003		2004		5 year Total	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	51	1.7	76	2.5	54	2.0	77	2.6	78	2.4	336	2.2
Alaska	2	0.1	1	0.0	5	0.2	6	0.2	2	0.1	16	0.1
Arizona	48	1.6	43	1.4	33	1.2	24	0.8	38	1.2	186	1.2
Arkansas	72	2.4	62	2.1	66	2.4	79	2.6	106	3.2	385	2.6
California	183	6.1	182	6.0	184	6.7	173	5.8	174	5.3	896	6.0
Colorado	57	1.9	59	2.0	56	2.0	50	1.7	60	1.8	282	1.9
Connecticut	36	1.2	36	1.2	27	1.0	43	1.4	34	1.0	176	1.2
Delaware	7	0.2	12	0.4	7	0.3	10	0.3	9	0.3	45	0.3
Dist Of Columbia	15	0.5	21	0.7	8	0.3	14	0.5	8	0.2	66	0.4
Florida	66	2.2	43	1.4	52	1.9	49	1.6	58	1.8	268	1.8
Georgia	66	2.2	58	1.9	61	2.2	83	2.8	82	2.5	350	2.3
Idaho	25	0.8	18	0.6	24	0.9	22	0.7	24	0.7	113	0.8
Illinois	231	7.7	229	7.6	241	8.8	260	8.7	266	8.1	1,227	8.2
Indiana	79	2.6	90	3.0	54	2.0	83	2.8	78	2.4	384	2.6
Iowa	82	2.7	91	3.0	90	3.3	73	2.4	104	3.2	440	2.9
Kansas	91	3.1	100	3.3	83	3.0	90	3.0	104	3.2	468	3.1
Kentucky	44	1.5	32	1.1	42	1.5	39	1.3	69	2.1	226	1.5
Louisiana	79	2.6	113	3.7	79	2.9	76	2.5	97	2.9	444	3.0
Maine	13	0.4	7	0.2	5	0.2	7	0.2	8	0.2	40	0.3
Maryland	51	1.7	29	1.0	28	1.0	39	1.3	41	1.2	188	1.3
Massachusetts	23	0.8	24	0.8	18	0.7	25	0.8	28	0.8	118	0.8
Michigan	47	1.6	35	1.2	41	1.5	34	1.1	29	0.9	186	1.2
Minnesota	80	2.7	70	2.3	61	2.2	68	2.3	70	2.1	349	2.3
Mississippi	61	2.0	49	1.6	38	1.4	33	1.1	56	1.7	237	1.6
Missouri	83	2.8	90	3.0	77	2.8	87	2.9	84	2.5	421	2.8
Montana	30	1.0	29	1.0	28	1.0	24	0.8	34	1.0	145	1.0
Nebraska	82	2.7	99	3.3	85	3.1	82	2.7	122	3.7	470	3.1
Nevada	12	0.4	14	0.5	9	0.3	8	0.3	17	0.5	60	0.4
New Hampshire	-	-	1	0.0	1	0.0	-	-	1	0.0	3	0.0
New Jersey	56	1.9	52	1.7	71	2.6	84	2.8	89	2.7	352	2.3
New Mexico	25	0.8	32	1.1	15	0.5	22	0.7	32	1.0	126	0.8
New York	139	4.7	132	4.4	106	3.9	117	3.9	103	3.1	597	4.0
North Carolina	28	0.9	29	1.0	21	0.8	52	1.7	38	1.2	168	1.1
North Dakota	24	0.8	26	0.9	22	0.8	18	0.6	17	0.5	107	0.7
Ohio	120	4.0	97	3.2	82	3.0	150	5.0	113	3.4	562	3.7
Oklahoma	61	2.0	68	2.2	49	1.8	49	1.6	62	1.9	289	1.9
Oregon	41	1.4	53	1.8	59	2.2	56	1.9	89	2.7	298	2.0
Pennsylvania	127	4.3	92	3.0	101	3.7	117	3.9	141	4.3	578	3.8
Rhode Island	1	0.0	2	0.1	1	0.0	1	0.0	8	0.2	13	0.1
South Carolina	28	0.9	24	0.8	22	0.8	19	0.6	36	1.1	129	0.9
South Dakota	22	0.7	14	0.5	13	0.5	16	0.5	33	1.0	98	0.7
Tennessee	66	2.2	64	2.1	57	2.1	69	2.3	67	2.0	323	2.1
Texas	274	9.2	363	12.0	342	12.5	313	10.4	347	10.5	1,639	10.9
Utah	38	1.3	36	1.2	25	0.9	40	1.3	29	0.9	168	1.1
Vermont	4	0.1	7	0.2	2	0.1	5	0.2	5	0.2	23	0.2
Virginia	44	1.5	35	1.2	42	1.5	57	1.9	40	1.2	218	1.4
Washington	41	1.4	53	1.8	35	1.3	61	2.0	67	2.0	257	1.7
West Virginia	15	0.5	23	0.8	20	0.7	18	0.6	25	0.8	101	0.7
Wisconsin	63	2.1	56	1.9	54	2.0	37	1.2	27	0.8	237	1.6
Wyoming	50	1.7	52	1.7	42	1.5	38	1.3	47	1.4	229	1.5
Total	2,983	100.0	3,023	100.0	2,738	100.0	2,997	100.0	3,296	100.0	15,037	100.0

TABLE 1-9 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD

Railroads	2000			2001			2002			2003			2004		
	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	-	7	4	1
Alaska RR Corp.	1	1	1	-	-	-	1	-	-	1	1	-	2	-	-
Amtrak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bangor & Aroostook	2	1	-	2	1	-	-	-	-	-	-	-	-	-	-
Burlington Northern Santa Fe	253	120	7	265	133	9	218	102	5	270	127	4	305	130	10
Belt Rwy Of Chicago	3	3	-	1	1	-	2	1	-	3	1	-	3	2	-
Conrail Shared Assets	9	6	-	10	10	-	10	6	-	11	2	-	8	5	-
CSX Transportation	116	58	6	94	36	7	98	47	4	147	65	5	159	64	4
Delaware & Hudson	4	3	1	4	2	-	7	5	1	1	1	-	7	1	-
Dakota, Minnesota & Eastern	-	-	-	-	-	-	-	-	-	2	1	-	5	2	1
Duluth, Missabe & Iron Range	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Elgin, Joliet & Eastern	1	1	-	1	1	-	2	1	-	-	-	-	3	2	-
Florida East Coast	3	1	-	1	1	-	2	2	-	1	1	1	3	1	-
Guilford Rail System	2	-	-	2	-	-	-	-	-	3	2	-	3	-	-
Grand Trunk Western RR	2	1	-	6	4	-	8	5	1	9	5	-	7	3	1
Gateway Western	3	1	-	7	5	1	-	-	-	-	-	-	-	-	-
Illinois Central	21	11	-	28	19	2	23	15	2	23	12	2	20	12	-
Iowa Chicago & Eastern RR	15	7	1	14	7	-	3	2	-	10	4	-	8	1	-
Indiana Harbor Belt	3	1	-	3	1	-	2	1	-	3	1	-	5	1	-
Kansas City Southern	34	18	1	31	19	1	59	33	1	38	19	1	48	22	-
Long Island Rail Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-
Metro North Commuter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana Rail Link	7	5	-	10	5	-	5	3	1	4	1	-	7	4	-
Northern IN Comm Trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey Transit Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norfolk Southern Corp.	44	22	5	53	25	2	48	27	6	40	15	4	57	27	3
Paducah & Louisville	3	3	-	-	-	-	-	-	-	-	-	-	3	3	-
Port Auth Trans Hudson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Terminal RR Assn	2	1	-	10	8	-	7	5	-	6	5	-	5	5	-
Southern CA Reg Rail Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soo Line	6	3	1	5	-	-	5	2	1	11	1	1	5	2	-
Texas Mexican	6	-	-	7	2	-	4	1	-	3	1	1	3	-	-
Term RR Assn Of St. Louis	1	1	-	1	-	-	-	-	-	1	-	-	-	-	-
Union Pacific	152	79	8	184	90	8	176	99	7	150	91	8	161	76	7
Union RR (Pittsburgh)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin Central Ltd.	20	5	2	11	2	-	10	5	-	8	2	-	7	1	-
Wheeling & Lake Erie	2	1	-	2	1	-	2	1	-	4	3	-	-	-	-
Wisconsin & Southern RR	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Railroads	36	27	2	46	27	2	43	24	2	45	30	-	31	21	2
Total	753	381	35	799	401	32	737	389	31	798	393	27	877	390	29

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

**TABLE 1-10 CONSISTS TRANSPORTING HAZMAT, BY STATE**

States	2000			2001			2002			2003			2004		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alabama	19	11	2	23	13	3	13	7	1	20	12	1	21	8	1
Alaska	1	1	1	-	-	-	1	-	-	1	1	-	2	-	-
Arizona	20	9	2	16	6	2	14	8	1	12	8	-	21	10	1
Arkansas	16	9	1	15	7	-	18	10	1	17	10	1	18	9	-
California	46	24	2	46	25	1	64	29	1	47	27	1	48	25	3
Colorado	14	7	-	16	6	-	7	4	-	12	5	1	22	13	1
Connecticut	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Delaware	-	-	-	2	1	-	3	2	-	3	2	1	2	1	-
Dist Of Columbia	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Florida	13	9	2	5	3	-	13	7	-	11	5	1	10	6	-
Georgia	8	3	1	14	7	3	16	8	1	19	10	1	15	6	-
Idaho	9	4	-	10	3	-	8	1	-	5	2	-	3	1	1
Illinois	54	32	1	56	25	1	65	34	1	68	31	2	69	30	2
Indiana	10	6	1	14	8	-	13	5	1	18	7	1	20	9	1
Iowa	17	10	1	21	7	1	18	9	-	17	5	1	18	6	-
Kansas	26	14	-	31	19	1	23	13	2	28	16	1	24	13	1
Kentucky	9	5	-	8	5	-	11	8	-	9	4	-	19	7	-
Louisiana	45	28	3	53	33	3	41	29	4	28	19	2	47	25	-
Maine	4	1	-	4	2	-	-	-	-	2	1	-	6	1	-
Maryland	9	3	-	7	5	2	10	6	1	7	5	-	12	5	1
Massachusetts	2	-	-	3	1	-	-	-	-	2	1	-	5	1	-
Michigan	14	7	-	11	8	-	14	8	1	11	6	-	8	3	1
Minnesota	22	14	1	16	4	-	16	6	-	24	6	1	25	8	1
Mississippi	15	8	-	18	11	-	17	12	1	12	6	-	25	7	-
Missouri	27	10	-	29	15	1	21	6	-	31	12	1	18	6	1
Montana	16	6	-	12	6	-	11	6	1	9	3	-	17	7	-
Nebraska	18	4	1	18	7	-	7	4	-	22	12	-	33	17	2
Nevada	2	1	-	4	1	1	2	1	-	1	1	1	4	3	1
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	7	4	-	8	7	-	8	3	-	9	3	-	10	6	-
New Mexico	6	2	-	19	9	1	7	4	-	13	9	-	15	6	-
New York	21	14	2	19	10	1	9	5	1	13	7	-	23	11	1
North Carolina	7	5	2	7	2	-	10	3	-	10	4	-	18	9	1
North Dakota	6	2	-	3	1	-	6	6	1	3	1	-	3	1	-
Ohio	26	14	2	21	5	1	20	10	-	36	13	-	28	12	1
Oklahoma	19	10	-	28	15	1	21	8	-	21	9	-	16	5	-
Oregon	12	6	1	15	8	-	9	3	-	9	3	-	17	5	1
Pennsylvania	26	14	1	16	7	-	20	7	-	29	11	-	22	11	1
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
South Carolina	8	5	-	4	2	-	6	4	1	3	-	-	8	5	-
South Dakota	-	-	-	2	1	-	2	1	-	1	-	-	5	2	1
Tennessee	25	11	-	18	9	-	23	11	4	30	11	1	24	13	-
Texas	92	40	4	140	80	8	131	82	5	118	74	6	127	56	4
Utah	4	3	1	1	-	-	2	2	-	5	2	-	1	1	-
Vermont	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-
Virginia	3	2	-	2	1	-	4	3	1	6	5	3	7	1	-
Washington	20	7	-	13	4	-	9	2	1	30	14	-	19	10	1
West Virginia	1	-	-	5	-	-	3	2	-	3	-	-	6	2	-
Wisconsin	21	7	2	13	4	-	11	5	-	14	4	-	7	3	-
Wyoming	13	9	1	11	8	1	9	4	-	8	5	-	7	3	-
Total	753	381	35	799	401	32	737	389	31	798	393	27	877	390	29

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

Railroads	At Public Crossing					At Private Crossing				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
Alaska RR Corp.	7	4	4	1	1	-	-	-	-	-
Amtrak	168	140	118	130	130	34	22	24	20	16
Bangor & Aroostook	1	1	2	-	-	-	1	-	-	-
Burlington Northern Santa Fe	437	410	408	346	372	99	63	54	61	73
Belt Rwy Of Chicago	-	3	-	-	2	-	1	2	-	-
Conrail Shared Assets	20	17	21	24	21	2	2	-	4	4
CSX Transportation	441	471	481	482	442	49	50	55	57	62
Delaware & Hudson	6	2	3	2	2	1	2	-	1	1
Dakota,Minnesota & Eastern	10	9	9	7	15	1	3	1	1	1
Duluth,Missabe & Iron Range	1	1	2	1	1	-	-	-	-	-
Elgin, Joliet & Eastern	4	3	6	-	2	1	2	3	4	6
Florida East Coast	13	21	18	19	30	1	1	-	1	-
Guilford Rail System	4	3	5	9	2	2	1	-	1	1
Grand Trunk Western RR	24	23	17	34	20	2	1	2	2	-
Gateway Western	5	3	-	-	-	1	1	-	-	-
Illinois Central	101	82	66	91	91	6	8	11	11	3
Iowa Chicago & Eastern RR	38	32	23	19	11	7	4	3	1	3
Indiana Harbor Belt	6	8	3	6	3	3	2	1	-	2
Kansas City Southern	131	113	91	99	107	17	7	13	12	7
Long Island Rail Road	8	5	7	5	7	-	-	-	-	-
MD Assn. of Rail Comm	1	-	1	2	1	-	-	-	-	1
Mass Bay Transit Auth.	6	6	4	6	10	-	-	-	-	-
Montreal, Maine & Atlantic	-	-	-	-	1	-	-	-	1	1
Metro North Commuter	1	1	2	1	3	-	-	2	1	1
Montana Rail Link	9	10	10	7	10	4	1	2	5	3
Northern IN Comm Trans	5	3	7	4	3	-	1	1	-	-
Northeast IL Reg Comm	18	31	24	28	25	1	-	2	-	-
New Jersey Transit Rail	6	13	16	10	15	-	-	-	-	-
Norfolk Southern Corp.	513	432	449	416	474	73	75	79	75	98
Paducah & Louisville	9	5	8	5	9	1	3	-	-	-
Peninsula Comm San Mateo Cnty	4	6	1	6	4	-	-	1	-	-
Port Terminal RR Assn	3	6	4	6	2	5	2	7	1	3
Southern CA Reg Rail Auth.	8	9	15	17	11	-	1	2	-	-
Southeastern PA Trans.	4	-	-	1	6	-	-	1	-	-
Soo Line	25	27	39	30	23	10	6	3	6	3
Texas Mexican	13	4	16	5	11	2	2	-	2	1
Term RR Assn Of St. Louis	1	1	4	1	2	-	-	-	-	-
Union Pacific	602	555	479	440	453	83	74	53	54	83
Wisconsin Central Ltd.	90	79	50	47	47	6	-	3	4	8
Wheeling & Lake Erie	8	11	8	18	12	-	1	-	1	-
Wisconsin & Southern RR	9	13	9	6	4	3	1	-	-	-
Other Railroads	272	280	279	279	259	56	56	43	41	38
<b>Total</b>	<b>3,032</b>	<b>2,843</b>	<b>2,709</b>	<b>2,610</b>	<b>2,644</b>	<b>470</b>	<b>394</b>	<b>368</b>	<b>367</b>	<b>419</b>



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

States	At Public Crossing					At Private Crossing					At Public Crossing			At Private Crossing		
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	Cnt	Kld	Nonf	Cnt	Kld	Nonf
Alabama	84	93	107	83	101	11	10	11	8	12	468	48	156	52	3	18
Alaska	7	4	4	1	1	-	-	-	-	-	17	-	3	-	-	-
Arizona	26	28	17	31	29	3	1	2	8	1	131	17	39	15	6	1
Arkansas	99	83	83	71	66	16	4	1	9	6	402	65	149	36	2	6
California	141	163	117	120	134	33	17	23	21	20	675	155	229	114	17	48
Colorado	31	28	33	29	27	5	6	5	6	9	148	13	41	31	4	14
Connecticut	4	1	2	-	8	4	2	3	4	2	15	5	2	15	3	6
Delaware	10	6	4	6	5	-	1	2	2	2	31	3	16	7	-	3
Dist Of Columbia	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-
Florida	75	99	86	93	97	11	15	13	7	10	450	71	185	56	8	21
Georgia	119	118	128	107	134	9	4	14	7	20	606	51	188	54	5	10
Hawaii	-	1	-	-	1	-	-	-	-	-	2	-	-	-	-	-
Idaho	26	17	18	18	18	7	3	2	3	6	97	16	26	21	4	7
Illinois	196	187	155	152	158	21	25	17	18	19	848	135	341	100	8	25
Indiana	188	153	162	135	149	6	12	13	11	10	787	102	228	52	2	8
Iowa	99	100	63	62	77	10	10	6	3	4	401	33	135	33	1	5
Kansas	58	56	68	50	63	9	7	3	8	9	295	32	103	36	3	5
Kentucky	57	60	72	72	64	12	19	13	19	16	325	29	103	79	7	29
Louisiana	162	147	136	132	145	19	14	13	14	22	722	82	316	82	4	39
Maine	5	7	5	8	4	3	2	1	3	2	29	-	10	11	2	2
Maryland	12	14	10	18	8	7	3	1	4	4	62	2	18	19	-	7
Massachusetts	11	15	12	15	15	1	2	-	1	3	68	8	17	7	-	2
Michigan	128	92	91	101	96	6	4	6	6	6	508	45	174	28	2	6
Minnesota	84	73	72	66	73	7	9	4	9	11	368	43	139	40	9	9
Mississippi	107	96	86	84	81	6	6	11	7	6	454	69	198	36	3	12
Missouri	67	55	64	54	45	21	9	12	11	14	285	49	120	67	4	18
Montana	14	15	23	16	14	10	1	2	10	7	82	4	19	30	6	6
Nebraska	46	39	49	39	47	9	11	6	3	11	220	32	68	40	3	12
Nevada	1	2	1	1	2	1	-	1	1	-	7	-	1	3	2	2
New Hampshire	3	1	-	1	1	-	1	1	-	-	6	-	-	2	-	2
New Jersey	34	31	32	40	40	2	5	1	10	3	177	32	53	21	-	1
New Mexico	13	20	14	8	14	4	4	3	4	7	69	12	30	22	5	9
New York	33	22	31	36	28	8	10	8	7	6	150	23	51	39	6	14
North Carolina	94	65	61	64	60	19	14	17	8	15	344	28	77	73	10	30
North Dakota	16	15	22	22	13	1	2	3	1	2	88	13	37	9	1	6
Ohio	138	123	127	115	119	10	17	14	11	18	622	83	188	70	7	7
Oklahoma	83	65	65	64	53	6	4	4	3	5	330	60	148	22	1	7
Oregon	21	25	24	22	20	9	18	11	9	9	112	14	36	56	2	18
Pennsylvania	59	59	59	71	66	10	9	14	17	13	314	22	62	63	4	10
Rhode Island	-	-	-	2	-	-	-	-	-	-	2	-	-	-	-	-
South Carolina	67	58	61	61	64	13	7	5	9	3	311	35	108	37	5	33
South Dakota	8	16	20	14	16	3	4	1	1	-	74	2	29	9	-	2
Tennessee	80	81	75	75	66	10	16	7	9	10	377	37	111	52	3	13
Texas	327	313	277	258	250	61	49	48	26	42	1,425	163	557	226	27	79
Utah	15	18	16	18	9	3	2	5	1	1	76	7	33	12	3	1
Vermont	2	-	4	2	4	-	-	1	1	1	12	-	3	3	-	4
Virginia	34	31	24	40	39	20	13	15	18	25	168	7	50	91	6	49
Washington	24	30	25	31	41	21	8	10	12	4	151	12	36	55	6	10
West Virginia	14	13	21	30	19	6	7	9	9	12	97	6	36	43	3	16
Wisconsin	110	102	79	69	59	12	2	4	5	9	419	38	171	32	2	6
Wyoming	-	3	4	3	1	3	5	2	3	2	11	-	4	15	3	5
Total	3,032	2,843	2,709	2,610	2,644	470	394	368	367	419	13,838	1,703	4,844	2,018	202	643

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

Railroads	Fatalities					Nonfatal				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
Alaska RR Corp.	-	-	-	-	-	-	1	1	1	-
Amtrak	56	69	42	52	46	90	84	93	125	64
Bangor & Aroostook	-	-	-	-	-	-	1	-	-	-
Burlington Northern Santa Fe	65	55	69	55	51	202	181	169	162	183
Belt Rwy Of Chicago	-	-	-	-	-	-	1	-	-	-
Conrail Shared Assets	1	2	-	1	-	10	6	4	9	3
CSX Transportation	55	63	39	52	58	212	206	142	159	207
Delaware & Hudson	1	2	-	-	-	4	1	-	2	1
Dakota, Minnesota & Eastern	-	-	-	1	-	4	1	2	-	8
Duluth, Missabe & Iron Range	-	-	-	-	1	1	-	-	1	-
Elgin, Joliet & Eastern	-	-	-	-	-	-	2	2	1	-
Florida East Coast	7	3	8	2	7	6	3	5	11	11
Guilford Rail System	-	-	-	1	-	1	2	1	2	1
Grand Trunk Western RR	1	1	5	1	-	10	9	1	8	6
Gateway Western	2	-	-	-	-	3	1	-	-	-
Illinois Central	14	21	7	6	8	55	47	34	27	27
Iowa Chicago & Eastern RR	5	4	1	3	1	15	18	10	14	5
Indiana Harbor Belt	1	-	-	-	-	3	2	1	-	1
Kansas City Southern	19	15	11	10	16	57	60	45	31	53
Long Island Rail Road	1	4	2	2	1	3	1	-	-	4
MD Assn. of Rail Comm	-	-	-	-	-	-	-	1	1	1
Mass Bay Transit Auth.	1	-	4	-	2	1	1	1	2	2
Montreal, Maine & Atlantic	-	-	-	-	-	-	-	-	1	-
Metro North Commuter	-	-	1	-	-	1	-	2	-	18
Montana Rail Link	3	1	-	1	-	-	2	1	4	3
Northern IN Comm Trans	-	-	-	-	-	-	2	7	-	1
Northeast IL Reg Comm	3	9	7	7	5	-	15	6	19	13
New Jersey Transit Rail	3	6	4	2	8	-	1	8	2	1
Norfolk Southern Corp.	59	67	58	42	60	129	129	96	121	143
Paducah & Louisville	-	-	-	-	-	2	4	4	3	4
Peninsula Comm San Mateo Cnty	2	4	-	1	1	3	-	2	-	2
Port Terminal RR Assn	-	-	-	-	-	2	3	-	1	1
Southern CA Reg Rail Auth.	1	1	5	9	2	2	6	10	26	4
Southeastern PA Trans.	-	-	-	-	-	3	-	-	1	2
Soo Line	2	2	6	3	-	19	17	28	14	15
Texas Mexican	1	-	-	-	4	7	-	8	1	5
Term RR Assn Of St. Louis	-	-	-	-	-	-	-	-	1	2
Union Pacific	101	72	69	70	77	244	227	208	172	197
Wisconsin Central Ltd.	9	10	4	2	3	43	35	20	16	19
Wheeling & Lake Erie	-	-	-	-	-	3	5	1	9	6
Wisconsin & Southern RR	1	-	-	-	-	4	5	3	2	1
Other Railroads	11	10	15	11	17	80	78	83	82	67
<b>Total</b>	<b>425</b>	<b>421</b>	<b>357</b>	<b>334</b>	<b>368</b>	<b>1,219</b>	<b>1,157</b>	<b>999</b>	<b>1,031</b>	<b>1,081</b>

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

States	Fatalities					Nonfatal					5 year Total	
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	Kld	Nonf
Alabama	10	9	13	10	9	39	28	32	38	37	51	174
Alaska	-	-	-	-	-	-	1	1	1	-	-	3
Arizona	8	6	-	7	2	13	10	5	3	9	23	40
Arkansas	27	9	14	9	8	36	39	29	23	28	67	155
California	27	54	30	27	34	54	49	55	66	53	172	277
Colorado	6	3	6	1	1	8	10	12	10	15	17	55
Connecticut	2	-	2	-	4	-	2	1	-	5	8	8
Delaware	-	1	2	-	-	7	-	1	4	7	3	19
Florida	15	15	16	14	19	67	36	32	36	35	79	206
Georgia	10	19	5	7	15	38	50	13	55	42	56	198
Idaho	11	1	1	3	4	1	7	7	7	11	20	33
Illinois	31	31	24	30	27	68	89	67	71	71	143	366
Indiana	23	19	17	20	25	55	62	44	37	38	104	236
Iowa	6	16	4	3	5	31	35	28	21	25	34	140
Kansas	11	5	9	3	7	18	20	26	28	16	35	108
Kentucky	5	10	5	8	8	20	31	24	24	33	36	132
Louisiana	14	22	12	15	23	88	93	65	43	66	86	355
Maine	1	-	-	1	-	1	4	1	3	3	2	12
Maryland	1	1	-	-	-	2	9	4	4	6	2	25
Massachusetts	1	-	4	-	3	4	4	1	3	7	8	19
Michigan	13	11	7	7	9	51	36	34	28	31	47	180
Minnesota	6	9	11	11	15	40	25	30	27	26	52	148
Mississippi	15	22	14	9	12	44	47	31	44	44	72	210
Missouri	17	4	14	9	9	27	22	26	32	31	53	138
Montana	1	1	2	4	2	2	4	6	4	9	10	25
Nebraska	7	3	13	5	7	14	17	20	12	17	35	80
Nevada	-	-	1	1	-	-	-	1	2	-	2	3
New Hampshire	-	-	-	-	-	-	-	2	-	-	-	2
New Jersey	5	8	4	7	8	10	11	13	13	7	32	54
New Mexico	-	8	1	3	5	11	8	4	7	9	17	39
New York	5	8	3	8	5	14	5	10	7	29	29	65
North Carolina	14	6	2	4	12	25	21	20	15	26	38	107
North Dakota	6	2	-	6	-	2	8	13	9	11	14	43
Ohio	15	22	26	13	14	38	40	35	47	35	90	195
Oklahoma	12	9	20	11	9	47	19	27	32	30	61	155
Oregon	-	6	-	3	7	13	13	14	7	7	16	54
Pennsylvania	8	8	6	3	1	17	15	12	13	15	26	72
South Carolina	10	4	9	5	12	24	23	42	25	27	40	141
South Dakota	-	1	-	1	-	5	4	5	8	9	2	31
Tennessee	8	10	8	8	6	26	39	14	18	27	40	124
Texas	52	39	37	36	26	164	132	125	106	109	190	636
Utah	2	2	3	-	3	7	8	6	6	7	10	34
Vermont	-	-	-	-	-	-	-	3	2	2	-	7
Virginia	3	1	1	7	1	21	18	12	27	21	13	99
Washington	1	5	2	6	4	10	7	8	10	11	18	46
West Virginia	1	1	1	3	3	8	9	6	21	8	9	52
Wisconsin	15	10	7	4	4	49	43	31	30	24	40	177
Wyoming	-	-	1	2	-	-	4	1	2	2	3	9
<b>Total</b>	<b>425</b>	<b>421</b>	<b>357</b>	<b>334</b>	<b>368</b>	<b>1,219</b>	<b>1,157</b>	<b>999</b>	<b>1,031</b>	<b>1,081</b>	<b>1,905</b>	<b>5,487</b>

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

Railroads	Fatalities					Nonfatal					5 year Total	
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	Kld	Nonf
Alaska RR Corp.	-	-	-	-	-	-	1	-	1	-	-	2
Amtrak	70	67	78	64	77	18	37	28	22	26	356	131
Burlington Northern Santa Fe	77	62	64	69	81	57	47	52	40	65	353	261
Conrail Shared Assets	-	5	2	-	1	3	4	6	2	1	8	16
CSX Transportation	61	78	77	77	76	58	84	54	55	67	369	318
Delaware & Hudson	3	3	1	1	1	2	2	1	-	2	9	7
Dakota, Minnesota & Eastern	-	-	-	1	1	-	-	1	-	2	2	3
Elgin, Joliet & Eastern	-	-	-	-	-	-	2	-	2	-	-	4
Florida East Coast	15	10	16	16	10	13	7	6	8	7	67	41
Guilford Rail System	3	1	-	2	1	-	3	-	3	-	7	6
Grand Trunk Western RR	3	3	2	4	1	2	2	3	3	4	13	14
Gateway Western	2	1	-	-	-	1	-	-	-	-	3	1
Illinois Central	3	4	11	2	2	10	3	5	4	1	22	23
Iowa Chicago & Eastern RR	1	1	-	-	-	1	-	-	-	1	2	2
Indiana Harbor Belt	-	-	-	-	-	2	1	1	1	2	-	7
Kansas City Southern	5	6	10	6	5	9	2	9	11	11	32	42
Long Island Rail Road	4	6	5	4	2	9	5	3	2	5	21	24
MD Assn. of Rail Comm	2	-	-	-	2	-	-	-	-	-	4	-
Mass Bay Transit Auth.	10	10	11	4	2	5	1	2	1	-	37	9
Metro North Commuter	4	2	4	1	1	1	2	-	2	1	12	6
Montana Rail Link	-	1	1	-	-	-	-	-	1	3	2	4
Northeast IL Reg Comm	2	8	14	8	6	6	7	9	8	7	38	37
New Jersey Transit Rail	17	25	12	6	9	4	5	5	4	4	69	22
Norfolk Southern Corp.	56	55	63	65	60	41	42	50	54	39	299	226
Paducah & Louisville	-	-	1	-	1	1	2	-	-	-	2	3
Port Auth Trans Hudson	-	1	-	-	-	-	1	1	-	2	1	4
Peninsula Comm San Mateo Cnty	12	8	5	9	8	-	1	3	1	3	42	8
Port Terminal RR Assn	-	-	-	-	-	1	-	-	-	-	-	1
Southern CA Reg Rail Auth.	-	-	1	2	3	-	1	2	3	-	6	6
Southeastern PA Trans.	3	1	3	-	6	2	2	1	1	-	13	6
Soo Line	1	3	1	5	2	1	2	4	1	3	12	11
Texas Mexican	-	-	1	1	-	1	-	2	1	2	2	6
Union Pacific	95	132	146	133	117	141	127	133	145	124	623	670
Wisconsin Central Ltd.	2	1	3	3	1	6	2	-	3	1	10	12
Wheeling & Lake Erie	-	-	1	-	-	-	-	2	-	-	1	2
Wisconsin & Southern RR	1	-	-	-	-	-	-	-	-	1	1	1
Other Railroads	11	17	7	17	6	19	9	12	19	17	58	76
<b>Total</b>	<b>463</b>	<b>511</b>	<b>540</b>	<b>500</b>	<b>482</b>	<b>414</b>	<b>404</b>	<b>395</b>	<b>398</b>	<b>401</b>	<b>2,496</b>	<b>2,012</b>

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

States	Fatalities					Nonfatal					5 year Total	
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	Kld	Nonf
Alabama	10	12	5	5	9	7	3	4	5	10	41	29
Alaska	-	-	-	-	-	-	1	-	1	-	-	2
Arizona	15	9	14	10	17	14	9	11	17	21	65	72
Arkansas	2	7	12	2	3	5	6	9	8	3	26	31
California	72	76	90	85	86	45	39	43	50	46	409	223
Colorado	4	6	4	5	2	4	4	1	2	12	21	23
Connecticut	4	3	4	2	1	-	2	1	2	1	14	6
Delaware	2	1	4	3	1	-	4	-	-	-	11	4
Dist Of Columbia	-	1	1	1	2	1	2	1	2	-	5	6
Florida	29	28	33	32	21	20	26	15	23	13	143	97
Georgia	11	8	14	22	18	5	9	13	15	15	73	57
Idaho	-	2	1	2	1	-	1	1	2	2	6	6
Illinois	31	39	32	26	26	26	27	26	29	26	154	134
Indiana	11	9	8	9	12	5	5	4	7	9	49	30
Iowa	2	1	16	6	3	8	5	4	2	2	28	21
Kansas	9	5	4	6	5	7	12	3	1	8	29	31
Kentucky	8	4	5	5	7	8	8	5	1	9	29	31
Louisiana	2	10	16	7	11	14	8	13	13	7	46	55
Maine	1	-	-	2	1	-	2	-	2	-	4	4
Maryland	7	6	9	8	10	5	2	3	4	3	40	17
Massachusetts	16	13	11	11	10	5	8	4	5	1	61	23
Michigan	9	8	4	7	6	11	4	6	10	10	34	41
Minnesota	5	5	6	5	4	5	6	3	4	2	25	20
Mississippi	2	11	10	2	6	-	5	4	6	4	31	19
Missouri	11	12	5	11	8	8	8	14	12	14	47	56
Montana	2	2	3	2	2	1	1	1	1	3	11	7
Nebraska	1	4	3	2	5	4	1	1	2	2	15	10
Nevada	1	3	3	5	3	4	2	2	5	4	15	17
New Hampshire	-	-	-	1	-	-	-	1	-	-	1	1
New Jersey	21	29	18	12	15	11	8	7	7	10	95	43
New Mexico	4	8	10	8	10	6	3	6	5	3	40	23
New York	24	18	23	19	14	26	25	10	8	14	98	83
North Carolina	10	19	20	17	20	11	13	6	5	15	86	50
North Dakota	2	2	1	-	2	1	3	-	2	1	7	7
Ohio	12	11	20	12	19	9	9	10	11	8	74	47
Oklahoma	10	5	1	9	10	7	9	7	5	7	35	35
Oregon	9	7	7	8	4	14	5	11	5	10	35	45
Pennsylvania	14	23	22	18	15	11	19	22	8	14	92	74
Rhode Island	1	1	1	1	1	-	1	-	-	1	5	2
South Carolina	9	8	13	5	6	7	4	8	5	2	41	26
South Dakota	2	-	3	-	1	6	-	1	1	2	6	10
Tennessee	6	13	7	13	10	1	8	18	12	4	49	43
Texas	34	47	44	51	41	56	60	68	54	54	217	292
Utah	3	2	2	2	5	3	1	2	4	1	14	11
Vermont	1	1	-	-	-	-	-	1	-	-	2	1
Virginia	8	4	11	6	2	4	14	8	14	7	31	47
Washington	14	18	13	13	19	15	4	8	11	13	77	51
West Virginia	8	4	2	7	6	10	4	5	7	4	27	30
Wisconsin	4	5	5	12	2	4	1	4	3	4	28	16
Wyoming	-	1	-	3	-	-	3	-	-	-	4	3
Total	463	511	540	500	482	414	404	395	398	401	2,496	2,012



## **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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### **CHAPTER 2**

#### **CURRENT YEAR SUMMARY OF ACCIDENTS/INCIDENTS AND RATES**

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**TABLE 2-1 ACCIDENTS/INCIDENTS, BY MONTH, 2004**

Months	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
January	1,264	74	791	268	-	15	298	41	96	698	33	680
February	1,195	67	739	287	2	16	254	29	87	654	36	636
March	1,180	65	778	272	-	30	212	30	75	696	35	673
April	1,111	60	706	251	1	43	223	24	50	637	35	613
May	1,180	87	730	281	1	11	262	36	96	637	50	623
June	1,268	81	806	315	4	17	257	37	117	696	40	672
July	1,210	77	770	269	-	18	251	25	91	690	52	661
August	1,236	85	790	283	-	15	253	33	112	700	52	663
September	1,136	78	728	249	1	17	239	29	94	648	48	617
October	1,165	77	697	277	1	13	248	25	78	640	51	606
November	1,126	79	665	247	2	15	281	30	85	598	47	565
December	1,161	68	671	297	1	19	285	29	100	579	38	552
Total	14,232	898	8,871	3,296	13	229	3,063	368	1,081	7,873	517	7,561

**TABLE 2-2 ACCIDENT/INCIDENT RATES, BY MONTH, 2004**

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	12.60	4.28	2.85	4.76	6.96	0.80	4.19	2.02	18.82	2.46
February	12.41	4.76	2.80	4.21	6.79	0.96	3.42	1.00	23.39	2.41
March	11.15	4.15	2.66	3.23	6.58	1.02	4.34	1.05	22.01	1.91
April	10.91	3.95	2.43	3.51	6.26	0.99	6.66	1.49	20.66	1.87
May	11.46	4.35	2.49	4.06	6.19	1.38	5.35	1.22	24.44	1.89
June	12.47	5.01	2.66	4.09	6.85	1.43	4.12	1.74	25.32	2.47
July	11.81	4.17	2.64	3.89	6.73	1.33	4.35	1.44	21.15	2.11
August	11.72	4.30	2.75	3.84	6.64	1.23	2.87	1.29	23.85	1.97
September	11.12	3.87	2.63	3.71	6.34	1.23	3.59	1.51	20.63	1.86
October	10.96	4.12	2.38	3.69	6.02	1.22	3.43	1.45	23.70	1.78
November	11.08	3.85	2.49	4.38	5.89	1.20	1.82	1.37	18.49	2.08
December	11.54	4.66	2.23	4.47	5.76	0.96	4.02	1.32	23.19	2.39
Total	11.59	4.28	2.59	3.98	6.41	1.15	4.02	1.41	22.14	2.10

**TABLE 2-3 ACCIDENTS/INCIDENTS BY RAILROAD GROUPS, 2004**

Groups	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
I	9,994	776	5,783	2,547	13	166	2,457	316	895	4,990	447	4,722
II	2,921	96	2,297	440	-	43	309	35	119	2,172	61	2,135
III	1,317	26	791	309	-	20	297	17	67	711	9	704
All	14,232	898	8,871	3,296	13	229	3,063	368	1,081	7,873	517	7,561



**TABLE 2-4 OPERATIONAL DATA BY RAILROAD GROUPS, 2004**

Groups	Train Miles	Freight Train Miles	Passenger Train Miles	Yard Switching Train Miles	Other Train Miles	Employee Hours	Passengers Carried
<b>I</b>	658,927,975	546,457,964	37,166,000	63,155,186	12,148,825	353,575,418	25,215,344
<b>II</b>	83,215,439	21,966,301	48,160,966	12,440,129	648,043	80,746,915	480,030,827
<b>III</b>	27,149,153	14,631,696	3,997,469	8,401,994	117,994	23,912,156	29,214,114
<b>All</b>	769,292,567	583,055,961	89,324,435	83,997,309	12,914,862	458,234,489	534,460,285

**TABLE 2-5 ACCIDENT/INCIDENT RATES BY RAILROAD GROUPS, 2004**

Groups	Total Accident/ Incident	Train Accidents	Employee On Duty	Highway-rail Crossing	Other Events	Trespasser	Passenger On Trains	Passenger Train	Yard Track	Other Track
<b>I</b>	9.87	3.87	2.14	3.73	4.93	1.15	5.15	1.37	24.08	1.72
<b>II</b>	17.82	5.29	3.75	3.71	13.25	1.19	3.29	1.43	18.41	2.98
<b>III</b>	25.79	11.38	5.25	10.94	13.92	0.85	5.18	1.25	13.09	10.61
<b>Tot</b>	11.59	4.28	2.59	3.98	6.41	1.15	4.02	1.40	22.14	2.10

TABLE 2-6 ACCIDENTS/INCIDENTS BY RAILROAD, 2004

	Group - Railroads	Total			Train Accidents			HRC Incidents			Other Incidents		
		Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
1	Amtrak	1,493	128	1,326	111	2	69	146	46	64	1,236	80	1,193
	Burlington Northern Santa Fe	2,015	143	1,077	650	2	24	445	51	183	920	90	870
	CSX Transportation	1,835	139	979	527	1	21	504	58	207	804	80	751
	Grand Trunk Western RR	92	1	68	12	-	3	20	-	6	60	1	59
	Illinois Central	236	10	131	37	-	-	94	8	27	105	2	104
	Kansas City Southern	344	21	162	125	-	4	114	16	53	105	5	105
	Norfolk Southern Corp.	1,413	127	617	315	-	5	572	60	143	526	67	469
	Soo Line	119	2	92	18	-	-	26	-	15	75	2	77
	Union Pacific	2,633	205	1,331	938	8	40	536	77	197	1,159	120	1,094
2	Alton & Southern	23	-	8	16	-	1	-	-	-	7	-	7
	Alaska RR Corp.	30	-	28	1	-	-	1	-	-	28	-	28
	Belt Rwy Of Chicago	43	-	15	26	-	-	2	-	-	15	-	15
	Conrail Shared Assets	93	1	35	35	-	-	25	-	3	33	1	32
	Delaware & Hudson	36	1	21	12	-	-	3	-	1	21	1	20
	Dakota, Minnesota & Eastern	92	1	41	42	-	-	16	-	8	34	1	33
	Duluth, Missabe & Iron Range	26	1	20	5	-	-	1	1	-	20	-	20
	Elgin, Joliet & Eastern	38	-	13	17	-	-	8	-	-	13	-	13
	Florida East Coast	72	17	32	11	-	-	30	7	11	31	10	21
	Grand Canyon Railway	27	-	27	-	-	-	-	-	-	27	-	27
	Guilford Rail System	18	1	10	5	-	-	3	-	1	10	1	9
	Iowa Chicago & Eastern RR	102	1	44	50	-	-	14	1	5	38	-	39
	Indiana Harbor Belt	59	-	29	28	-	2	5	-	1	26	-	26
	Long Island Rail Road	345	4	327	13	-	1	7	1	4	325	3	322
	MD Assn. of Rail Comm	15	2	8	4	-	-	2	-	1	9	2	7
	Mass Bay Transit Auth.	101	4	91	1	-	-	10	2	2	90	2	89
	Montreal, Maine & Atlantic	20	-	12	6	-	-	2	-	-	12	-	12
	Metro North Commuter	396	4	354	56	-	4	4	-	18	336	4	332
	Montana Rail Link	73	-	49	14	-	-	13	-	3	46	-	46
	Northern IN Comm Trans	38	-	35	1	-	-	3	-	1	34	-	34
	Northeast IL Reg Comm	262	12	265	6	-	20	25	5	13	231	7	232
	New Jersey Transit Rail	251	17	186	48	-	5	15	8	1	188	9	180
	Paducah & Louisville	21	1	10	5	-	-	9	-	4	7	1	6
	Port Auth Trans Hudson	164	-	173	2	-	3	-	-	-	162	-	170
	Peninsula Comm San Mateo Cnty	45	9	34	2	-	-	4	1	2	39	8	32
	Port Terminal RR Assn	32	-	14	14	-	-	5	-	1	13	-	13
	Southern CA Reg Rail Auth.	36	5	24	2	-	-	11	2	4	23	3	20
	Southeastern PA Trans.	260	7	246	10	-	4	6	-	2	244	7	240
	Texas Mexican	29	4	16	7	-	-	12	4	5	10	-	11
	Term RR Assn Of St. Louis	14	-	5	9	-	-	2	-	2	3	-	3
	Union RR (Pittsburgh)	24	-	18	6	-	-	-	-	-	18	-	18
	Wisconsin Central Ltd.	126	4	74	18	-	3	55	3	19	53	1	52
	Wheeling & Lake Erie	21	-	12	3	-	-	12	-	6	6	-	6
	Wisconsin & Southern RR	26	-	21	2	-	-	4	-	1	20	-	20
3	Other Railroads	1,366	26	791	358	-	20	297	17	67	711	9	704

Highway-Rail Counts Are Excluded From Other Categories

TABLE 2-7 ACCIDENT/INCIDENT RATES BY RAILROAD, 2004

Group - Railroads		Total Rate 1/	Train Acc Rate 2/	EOD Rate 3/	HRC Rate 4/	Other Events 5/	Tres Rate 6/	Psgr Rate 7/	Psgr Train Rate 8/	Yard Rate 9/	Other Track Rate 10/
1	Amtrak	19.32	2.83	4.35	3.72	15.99	2.62	5.15	1.37	19.22	1.91
	Burlington Northern Santa Fe	7.62	3.49	1.64	2.39	3.48	0.78	.	.	27.63	1.58
	CSX Transportation	10.76	4.78	2.29	4.57	4.71	1.30	.	.	25.83	2.20
	Grand Trunk Western RR	11.20	2.55	3.36	4.26	7.30	1.06	.	.	5.00	1.89
	Illinois Central	12.82	3.53	2.60	8.98	5.70	0.29	.	.	7.44	2.19
	Kansas City Southern	23.76	14.81	3.28	13.51	7.25	1.90	.	.	61.28	7.30
	Norfolk Southern Corp.	9.06	3.25	1.19	5.90	3.37	1.02	.	.	13.53	1.67
	Soo Line	7.61	1.93	2.25	2.79	4.79	0.54	.	.	3.64	1.49
	Union Pacific	9.15	4.86	1.99	2.78	4.03	1.25	.	.	37.96	1.93
2	Alton & Southern	13.45	15.78	2.30	.	4.09	.	.	.	13.80	.
	Alaska RR Corp.	9.63	0.61	3.77	0.61	8.99	.	.	.	.	1.00
	Belt Rwy Of Chicago	27.39	47.66	2.93	3.67	9.55	.	.	.	41.83	89.03
	Conrail Shared Assets	19.65	15.39	1.63	10.99	6.97	0.88	.	.	13.73	22.05
	Delaware & Hudson	12.31	6.65	3.21	1.66	7.18	1.66	.	.	3.94	7.09
	Dakota,Minnesota & Eastern	58.30	57.11	7.60	21.75	21.55	4.08	.	.	165.20	48.46
	Duluth,Missabe & Iron Range	16.12	8.13	4.01	1.63	12.40	.	.	.	44.56	5.26
	Elgin, Joliet & Eastern	18.20	24.35	1.87	11.46	6.23	.	.	.	54.30	6.82
	Florida East Coast	18.36	4.63	1.68	12.62	7.91	7.15	.	.	17.61	2.02
	Grand Canyon Railway	45.28	.	6.70	.	45.28	.	18.16	.	.	.
	Guilford Rail System	5.69	3.41	1.06	2.05	3.16	0.68	.	.	.	5.72
	Iowa Chicago & Eastern RR	22.79	15.11	6.51	4.23	8.49	0.30	.	.	81.61	9.79
	Indiana Harbor Belt	19.29	19.08	3.27	3.41	8.50	1.36	.	.	.	3.41
	Long Island Rail Road	16.05	1.60	2.80	0.86	15.12	0.86	2.66	0.25	.	0.74
	MD Assn. of Rail Comm	8.66	3.27	0.78	1.64	5.19	1.64	1.11	2.60	259.20	2.46
	Mass Bay Transit Auth.	13.36	0.26	4.28	2.56	11.90	0.51	2.71	0.26	.	0.26
	Montreal, Maine & Atlantic	21.65	12.59	5.37	4.20	12.99	.	.	.	20.14	10.61
	Metro North Commuter	19.36	6.31	4.61	0.45	16.42	0.23	1.25	4.39	.	5.29
	Montana Rail Link	12.80	3.72	4.22	3.46	8.07	0.80	.	.	19.55	1.52
	Northern IN Comm Trans	22.89	1.14	8.72	3.41	20.48	.	.	.	.	1.14
	Northeast IL Reg Comm	14.79	0.65	1.78	2.72	13.04	1.42	7.61	0.14	1.47	0.51
	New Jersey Transit Rail	14.04	5.44	2.83	1.70	10.52	1.47	1.77	1.73	96.85	1.77
	Paducah & Louisville	18.86	8.86	2.55	15.94	6.29	1.77	.	.	17.40	6.67
	Port Auth Trans Hudson	39.78	0.95	10.65	.	39.29	0.95	3.38	.	3.66	0.55
	Peninsula Comm San Mateo Cnty	24.42	1.92	5.50	3.84	21.16	10.55	0.63	.	49.57	.
	Port Terminal RR Assn	17.05	11.32	4.37	4.04	6.92	.	.	.	8.09	.
	Southern CA Reg Rail A uth.	12.89	0.94	2.10	5.17	8.23	1.41	0.31	0.47	.	0.94
	Southeastern PA Trans.	31.35	1.98	10.37	1.19	29.42	1.19	10.68	1.58	.	1.78
	Texas Mexican	43.92	30.66	4.63	52.56	15.14	8.76	.	.	13.14	.
	Term RR Assn Of St. Louis	11.57	14.30	1.38	3.18	2.48	.	.	.	9.53	.
	Union RR (Pittsburgh)	24.47	48.04	3.97	.	18.36	.	.	.	40.04	.
	Wisconsin Central Ltd.	14.12	3.21	3.14	9.81	5.94	0.36	.	.	9.16	1.19
	Wheeling & Lake Erie	11.91	3.24	1.20	12.96	3.40	.	.	.	3.83	3.01
	Wisconsin & Southern RR	36.90	6.64	9.41	13.29	28.38	3.32	.	.	16.78	4.14
3	Other Railroads	26.75	13.19	5.25	10.94	13.92	0.85	5.18	1.25	16.31	11.79

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

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

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

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

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

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

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

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

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

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

TABLE 2-8 RAILROAD RANKINGS, 2004

	Railroads	Train		Total		Train		Other	Tres
		Miles	Hours	Rate	Rate	EOD	HRC		
						Rate	Rate	Events	Rate
1	ATK - Amtrak	5	5	19	3	4	4	16	3
	BNSF - Burlington Northern Santa Fe	2	2	8	3	2	2	3	1
	CSX - CSX Transportation	3	3	11	5	2	5	5	1
	GTW - Grand Trunk Western RR	9	9	11	3	3	4	7	1
	IC - Illinois Central	6	6	13	4	3	9	6	0
	KCS - Kansas City Southern	8	8	24	15	3	14	7	2
	NS - Norfolk Southern Corp.	4	4	9	3	1	6	3	1
	SOO - Soo Line	7	7	8	2	2	3	5	1
	UP - Union Pacific	1	1	9	5	2	3	4	1
2	ALS - Alton & Southern	21	25	13	16	2	0	4	0
	ARR - Alaska RR Corp.	15	14	10	1	4	1	9	0
	BRC - Belt Rwy Of Chicago	29	18	27	48	3	4	10	0
	CRSH - Conrail Shared Assets	11	8	20	15	2	11	7	1
	DH - Delaware & Hudson	14	17	12	7	3	2	7	2
	DME - Dakota,Minnesota & Eastern	24	21	58	57	8	22	22	4
	DMIR - Duluth, Missabe & Iron Range	27	19	16	8	4	2	12	0
	EJE - Elgin, Joliet & Eastern	25	15	18	24	2	11	6	0
	FEC - Florida East Coast	10	13	18	5	2	13	8	7
	GCRX - Grand Canyon Railway	34	30	45	0	7	0	45	0
	GRS - Guilford Rail System	17	11	6	3	1	2	3	1
	ICE - Iowa Chicago & Eastern RR	9	16	23	15	7	4	8	0
	IHB - Indiana Harbor Belt	16	12	19	19	3	3	9	1
	LI - Long Island Rail Road	4	1	16	2	3	1	15	1
	MACZ - MD Assn. of Rail Comm	19	31	9	3	1	2	5	2
	MBTA - Mass Bay Transit Auth.	7	5	13	0	4	3	12	1
	MMA - Montreal, Maine & Atlantic	30	32	22	13	5	4	13	0
	MNCW - Metro North Commuter	2	2	19	6	5	0	16	0
	MRL - Montana Rail Link	8	10	13	4	4	3	8	1
	NICD - Northern IN Comm Trans	23	24	23	1	9	3	20	0
	NIRC - Northeast IL Reg Comm	1	4	15	1	2	3	13	1
	NJTR - New Jersey Transit Rail	3	3	14	5	3	2	11	1
	PAL - Paducah & Louisville	28	29	19	9	3	16	6	2
	PATH - Port Auth Trans Hudson	13	9	40	1	11	0	39	1
	PCMZ - Peninsula Comm San Mateo Cnty	20	23	24	2	5	4	21	11
	PTRA - Port Terminal RR Assn	18	27	17	11	4	4	7	0
	SCAX - Southern CA Reg Rail Auth.	12	26	13	1	2	5	8	1
	SEPA - Southeastern PA Trans.	6	7	31	2	10	1	29	1
	TM - Texas Mexican	32	33	44	31	5	53	15	9
	TRRA - Term RR Assn Of St. Louis	26	28	12	14	1	3	2	0
	URR - Union RR (Pittsburgh)	33	20	24	48	4	0	18	0
	WC - Wisconsin Central Ltd.	5	6	14	3	3	10	6	0
	WE - Wheeling & Lake Erie	22	22	12	3	1	13	3	0
	WSOR - Wisconsin & Southern RR	31	34	37	7	9	13	28	3

TABLE 2-9 OPERATIONAL DATA, BY RAILROAD, 2004

Railroads	Total Train Miles	%	Employee Hours Worked	%	Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgs Carried	Psgs Miles Millions
ALS	1,014,172	0.13	696,297	0.15	-	-	1,014,172	-	-	-
ARR	1,629,170	0.21	1,486,885	0.32	809,639	192,564	626,685	282	175,244	22
ATK	39,246,704	5.10	38,039,779	8.30	-	37,166,000	2,080,704	-	25,215,344	5,511
BNSF	186,458,968	24.24	77,821,155	16.98	172,814,565	-	13,644,403	-	-	-
BRC	545,544	0.07	1,024,529	0.22	67,394	-	478,150	-	-	-
CRSH	2,274,784	0.30	2,457,538	0.54	453,586	-	1,821,198	-	-	-
CSX	110,285,062	14.34	60,236,240	13.15	98,246,429	-	12,038,633	-	-	-
DH	1,804,292	0.23	1,120,660	0.24	1,550,523	-	253,769	-	-	-
DME	735,473	0.10	842,563	0.18	680,993	-	54,480	-	-	-
DMIR	615,272	0.08	997,349	0.22	570,393	-	44,879	-	-	-
EJE	698,038	0.09	1,389,807	0.30	440,201	-	257,837	-	-	-
FEC	2,377,083	0.31	1,543,981	0.34	1,979,688	-	397,395	-	-	-
GCRX	59,130	0.01	537,109	0.12	-	54,544	1,722	2,864	450,345	28
GRS	1,464,256	0.19	1,698,985	0.37	873,579	-	590,677	-	-	-
GTW	4,700,290	0.61	3,514,567	0.77	3,692,471	-	1,000,256	7,563	-	-
IC	10,467,769	1.36	7,937,517	1.73	7,763,807	-	2,688,124	15,838	-	-
ICE	3,308,374	0.43	1,167,772	0.25	3,063,310	-	245,064	-	-	-
IHB	1,467,836	0.19	1,590,354	0.35	1,467,836	-	-	-	-	-
KCS	8,437,968	1.10	6,038,249	1.32	7,262,952	-	1,175,016	-	-	-
LI	8,148,650	1.06	13,350,894	2.91	-	8,148,650	-	-	79,757,085	2,146
MACZ	1,221,725	0.16	511,027	0.11	-	1,152,924	3,858	64,943	5,894,040	180
MBTA	3,911,565	0.51	3,648,894	0.80	-	3,911,565	-	-	38,515,816	406
MMA	476,436	0.06	447,279	0.10	377,154	-	99,282	-	-	-
MNCW	8,881,223	1.15	11,578,443	2.53	-	8,881,223	-	-	70,795,696	2,081
MRL	3,760,288	0.49	1,943,009	0.42	3,280,824	19,075	460,389	-	9,176	2
NICD	880,234	0.11	780,048	0.17	118,401	761,833	-	-	3,759,822	114
NIRC	9,181,172	1.19	8,531,472	1.86	696,507	6,937,531	1,362,568	184,566	73,513,032	1,642
NJTR	8,823,402	1.15	9,054,029	1.98	-	8,095,738	340,735	386,929	63,571,700	1,521
NS	96,872,856	12.59	59,162,395	12.91	83,943,000	-	12,929,856	-	-	-
PAL	564,619	0.07	548,707	0.12	449,676	-	114,943	-	-	-
PATH	2,094,794	0.27	2,028,391	0.44	-	1,821,562	273,232	-	97,749,401	414
PCMZ	1,042,476	0.14	800,612	0.17	-	1,002,132	40,344	-	7,787,256	159
PTRA	1,236,348	0.16	640,993	0.14	-	-	1,236,348	-	-	-
SCAX	2,127,561	0.28	665,705	0.15	-	2,127,561	-	-	9,830,915	327
SEPA	5,054,064	0.66	3,239,761	0.71	-	5,054,064	-	-	28,221,299	384
SOO	9,327,901	1.21	6,314,251	1.38	7,402,217	-	1,925,684	-	-	-
TM	228,330	0.03	431,970	0.09	-	-	228,330	-	-	-
TRRA	629,480	0.08	580,196	0.13	-	-	629,480	-	-	-
UP	193,130,457	25.10	94,511,265	20.63	165,332,523	-	15,672,510	12,125,424	-	-
URR	124,888	0.02	855,724	0.19	-	-	124,888	-	-	-
WC	5,607,690	0.73	3,315,456	0.72	4,182,790	-	1,419,028	5,872	-	-
WE	926,043	0.12	836,806	0.18	664,977	-	261,066	-	-	-
WSOR	301,027	0.04	403,670	0.09	238,830	-	59,610	2,587	-	-
XXXX	27,149,153	3.53	23,912,156	5.22	14,631,696	3,997,469	8,401,994	117,994	29,214,114	579
Total	769,292,567	100.0	458,234,489	100.0	583,055,961	89,324,435	83,997,309	12,914,862	534,460,285	15,514

XXXX = all other railroads

**TABLE 2-10 OPERATIONAL DATA, BY MONTH, 2004**

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	62,637,733	8.14	37,700,062	8.23	47,275,961	7,428,451	6,958,890	974,431	41,309,651	1,192
February	60,339,503	7.84	35,936,977	7.84	45,679,677	6,967,047	6,756,452	936,327	40,435,185	1,140
March	65,544,198	8.52	40,279,916	8.79	49,521,456	7,645,418	7,315,723	1,061,601	45,870,491	1,313
April	63,563,084	8.26	38,254,972	8.35	48,077,486	7,391,039	7,019,321	1,075,238	44,688,514	1,306
May	64,573,776	8.39	38,408,510	8.38	49,119,347	7,353,676	7,038,240	1,062,513	44,088,887	1,289
June	62,819,264	8.17	38,833,958	8.47	47,282,670	7,457,962	6,991,620	1,087,012	46,719,959	1,384
July	64,443,841	8.38	38,037,207	8.30	48,758,280	7,615,453	6,996,203	1,073,905	45,412,522	1,404
August	65,876,183	8.56	39,598,533	8.64	49,997,717	7,742,511	7,002,032	1,133,923	45,554,639	1,395
September	64,365,358	8.37	37,808,854	8.25	49,080,594	7,303,684	6,882,101	1,098,979	44,320,363	1,224
October	67,220,910	8.74	39,121,944	8.54	51,319,479	7,568,514	7,172,782	1,160,135	45,956,678	1,284
November	64,134,637	8.34	37,461,124	8.18	48,809,436	7,293,594	6,922,301	1,109,306	44,445,791	1,265
December	63,774,080	8.29	36,792,432	8.03	48,133,858	7,557,086	6,941,644	1,141,492	45,657,605	1,319
<b>Total</b>	769,292,567	100.0	458,234,489	100.0	583,055,961	89,324,435	83,997,309	12,914,862	534,460,285	15,514

TABLE 2-11 SUMMARY OF ACCIDENTS/INCIDENTS BY STATE, 2004

States	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
Alabama	283	19	121	78	-	1	113	9	37	92	10	83
Alaska	44	-	41	2	-	-	1	-	-	41	0	41
Arizona	206	19	139	38	-	1	30	2	9	138	17	129
Arkansas	273	11	125	106	-	4	72	8	28	95	3	93
California	832	124	489	174	1	12	154	34	53	504	89	424
Colorado	218	4	137	60	-	3	36	1	15	122	3	119
Connecticut	147	7	111	34	1	5	10	4	5	103	2	101
Delaware	72	1	63	9	-	-	7	-	7	56	1	56
Dist Of Columbia	216	3	206	8	-	1	-	-	-	208	3	205
Florida	385	41	238	58	1	2	107	19	35	220	21	201
Georgia	384	34	179	82	-	4	154	15	42	148	19	133
Hawaii	1	-	-	0	-	-	1	-	-	-	0	0
Idaho	89	5	53	24	-	1	24	4	11	41	1	41
Illinois	1,181	59	832	266	1	35	177	27	71	738	31	726
Indiana	419	38	210	78	-	2	159	25	38	182	13	170
Iowa	307	8	151	104	-	3	81	5	25	122	3	123
Kansas	290	13	137	104	-	10	72	7	16	114	6	111
Kentucky	261	15	149	69	-	3	80	8	33	112	7	113
Louisiana	419	34	225	97	-	1	167	23	66	155	11	158
Maine	35	1	23	8	-	-	6	-	3	21	1	20
Maryland	132	10	78	41	-	2	12	-	6	79	10	70
Massachusetts	203	13	158	28	-	1	18	3	7	157	10	150
Michigan	285	17	180	29	-	3	102	9	31	154	8	146
Minnesota	295	19	167	70	-	2	84	15	26	141	4	139
Mississippi	207	19	143	56	1	40	87	12	44	64	6	59
Missouri	294	17	181	84	-	7	59	9	31	151	8	143
Montana	167	5	128	34	-	5	21	2	9	112	3	114
Nebraska	318	13	158	122	-	7	58	7	17	138	6	134
Nevada	43	3	23	17	-	-	2	-	-	24	3	23
New Hampshire	8	-	6	1	-	-	1	-	-	6	0	6
New Jersey	492	24	369	89	-	9	43	8	7	360	16	353
New Mexico	110	18	58	32	2	-	21	5	9	57	11	49
New York	1,019	24	914	103	-	11	34	5	29	882	19	874
North Carolina	213	32	111	38	-	1	75	12	26	100	20	84
North Dakota	88	2	67	17	-	-	15	-	11	56	2	56
Ohio	501	35	278	113	-	8	137	14	35	251	21	235
Oklahoma	197	21	102	62	-	2	58	9	30	77	12	70
Oregon	218	11	109	89	-	-	29	7	7	100	4	102
Pennsylvania	722	18	513	141	-	8	79	1	15	502	17	490
Rhode Island	30	1	22	8	-	1	-	-	-	22	1	21
South Carolina	160	18	84	36	-	6	67	12	27	57	6	51
South Dakota	82	1	41	33	-	-	16	-	9	33	1	32
Tennessee	266	16	144	67	-	2	76	6	27	123	10	115
Texas	1,082	74	568	347	5	19	292	26	109	443	43	440
Utah	87	9	55	29	-	1	10	3	7	48	6	47
Vermont	27	-	19	5	-	-	5	-	2	17	0	17
Virginia	208	4	129	40	-	1	64	1	21	104	3	107
Washington	264	23	156	67	1	4	45	4	11	152	18	141
West Virginia	128	9	75	25	-	-	31	3	8	72	6	67
Wisconsin	208	6	135	27	-	-	68	4	24	113	2	111
Wyoming	116	-	71	47	-	1	3	-	2	66	0	68
Total	14,232	898	8,871	3,296	13	229	3,063	368	1,081	7,873	517	7,561





## 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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### **CHAPTER 3**

#### **CASUALTY REPORTING**

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**TABLE 3-1 CASUALTIES BY TYPE PERSON AND PRIMARY EVENT, 2004**

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)	23	5,683	25	5,898	7	155	2	114	16	5,629
B - Employee not on duty	.	176	.	197	.	5	.	4	.	188
C - Passenger on train	3	530	3	621	1	52	.	14	2	555
D - Nontrespasser	195	922	232	1,097	.	.	218	667	14	430
E - Trespasser	609	567	628	660	1	.	146	259	481	401
F - Worker on duty(contractors)	2	141	2	150	1	7	.	.	1	143
G - Contractor(other)	2	189	2	197	.	1	.	1	2	195
H - Worker on duty(volunteer)	.	3	.	3	.	.	.	.	.	3
I - Volunteer(other)	.	2	.	2	.	.	.	.	.	2
J - Nontrespasser, off rr property	4	32	6	46	3	9	2	22	1	15
Total..	838	8,245	898	8,871	13	229	368	1,081	517	7,561

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



**TABLE 3-2 FATALITIES BY TYPE PERSON AND RAILROAD, 2004**

	Total	%	Type Person Codes						
			A	C	D	E	F	G	J
Amtrak	128	14.3	-	2	11	114	1	-	-
Burlington Northern Santa Fe	143	15.9	6	-	36	101	-	-	-
Conrail Shared Assets	1	0.1	-	-	-	1	-	-	-
CSX Transportation	139	15.5	2	-	37	97	-	-	3
Delaware & Hudson	1	0.1	-	-	-	1	-	-	-
Dakota, Minnesota & Eastern	1	0.1	-	-	-	1	-	-	-
Duluth, Missabe & Iron Range	1	0.1	-	-	1	-	-	-	-
Florida East Coast	17	1.9	-	-	7	10	-	-	-
Guilford Rail System	1	0.1	-	-	-	1	-	-	-
Grand Trunk Western RR	1	0.1	-	-	-	1	-	-	-
Illinois Central	10	1.1	-	-	8	2	-	-	-
Iowa Chicago & Eastern RR	1	0.1	-	-	-	1	-	-	-
Kansas City Southern	21	2.3	-	-	16	5	-	-	-
Long Island Rail Road	4	0.4	1	-	-	3	-	-	-
MD Assn. of Rail Comm	2	0.2	-	-	-	2	-	-	-
Mass Bay Transit Auth.	4	0.4	-	-	-	4	-	-	-
Metro North Commuter	4	0.4	2	-	1	1	-	-	-
Northeast IL Reg Comm	12	1.3	-	-	2	10	-	-	-
New Jersey Transit Rail	17	1.9	-	-	-	17	-	-	-
Norfolk Southern Corp.	127	14.1	7	-	39	79	1	1	-
Paducah & Louisville	1	0.1	-	-	-	1	-	-	-
Peninsula Comm San Mateo Cnty	9	1.0	-	-	-	9	-	-	-
Southern CA Reg Rail Auth.	5	0.6	-	-	-	5	-	-	-
Southeastern PA Trans.	7	0.8	-	1	-	6	-	-	-
Soo Line	2	0.2	-	-	-	2	-	-	-
Texas Mexican	4	0.4	-	-	4	-	-	-	-
Union Pacific	205	22.8	5	-	53	143	-	1	3
Wisconsin Central Ltd.	4	0.4	-	-	3	1	-	-	-
Other Railroads	26	2.9	2	-	14	10	-	-	-
<b>Total</b>	<b>898</b>	<b>100</b>	<b>25</b>	<b>3</b>	<b>232</b>	<b>628</b>	<b>2</b>	<b>2</b>	<b>6</b>

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

**TABLE 3-3 FATALITIES BY TYPE PERSON KILLED AND STATE, 2004**

States			Type Person Codes						
	Total	%	A	C	D	E	F	G	J
Alabama	19	2.1	1	-	9	9	-	-	-
Arizona	19	2.1	-	-	-	19	-	-	-
Arkansas	11	1.2	-	-	8	3	-	-	-
California	124	13.8	1	-	5	117	-	1	-
Colorado	4	0.4	1	-	-	3	-	-	-
Connecticut	7	0.8	1	-	2	3	1	-	-
Delaware	1	0.1	-	-	-	1	-	-	-
Dist Of Columbia	3	0.3	-	-	1	2	-	-	-
Florida	41	4.6	1	-	14	26	-	-	-
Georgia	34	3.8	-	-	11	22	-	-	1
Idaho	5	0.6	-	-	4	1	-	-	-
Illinois	59	6.6	2	-	20	36	1	-	-
Indiana	38	4.2	1	-	4	33	-	-	-
Iowa	8	0.9	-	-	2	6	-	-	-
Kansas	13	1.4	1	-	5	7	-	-	-
Kentucky	15	1.7	-	-	7	8	-	-	-
Louisiana	34	3.8	2	-	19	13	-	-	-
Maine	1	0.1	-	-	-	1	-	-	-
Maryland	10	1.1	-	-	-	10	-	-	-
Massachusetts	13	1.4	-	-	-	13	-	-	-
Michigan	17	1.9	2	-	6	9	-	-	-
Minnesota	19	2.1	-	-	12	7	-	-	-
Mississippi	19	2.1	-	1	9	8	-	-	1
Missouri	17	1.9	-	-	3	14	-	-	-
Montana	5	0.6	1	-	2	2	-	-	-
Nebraska	13	1.4	-	-	8	5	-	-	-
Nevada	3	0.3	-	-	-	3	-	-	-
New Jersey	24	2.7	-	-	1	23	-	-	-
New Mexico	18	2.0	3	-	3	12	-	-	-
New York	24	2.7	3	1	4	16	-	-	-
North Carolina	32	3.6	-	-	4	28	-	-	-
North Dakota	2	0.2	-	-	-	2	-	-	-
Ohio	35	3.9	-	-	11	23	-	1	-
Oklahoma	21	2.3	-	-	11	10	-	-	-
Oregon	11	1.2	-	-	3	8	-	-	-
Pennsylvania	18	2.0	1	1	-	16	-	-	-
Rhode Island	1	0.1	-	-	-	1	-	-	-
South Carolina	18	2.0	-	-	11	7	-	-	-
South Dakota	1	0.1	-	-	-	1	-	-	-
Tennessee	16	1.8	-	-	3	12	-	-	1
Texas	74	8.2	3	-	19	49	-	-	3
Utah	9	1.0	-	-	4	5	-	-	-
Virginia	4	0.4	1	-	1	2	-	-	-
Washington	23	2.6	-	-	-	23	-	-	-
West Virginia	9	1.0	-	-	3	6	-	-	-
Wisconsin	6	0.7	-	-	3	3	-	-	-
Total	898	100.0	25	3	232	628	2	2	6

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

TABLE 3-4 NONFATAL CONDITIONS BY TYPE PERSON AND RAILROAD, 2004

	Total %		Type Person Codes									
			A	B	C	D	E	F	G	H	I	J
Alton & Southern	8	0.1	8	-	-	-	-	-	-	-	-	-
Alaska RR Corp.	28	0.3	28	-	-	-	-	-	-	-	-	-
Amtrak	1,326	14.9	828	41	282	102	52	10	8	-	-	3
Burlington Northern Santa Fe	1,077	12.1	631	48	-	149	111	23	113	1	-	1
Belt Rwy Of Chicago	15	0.2	15	-	-	-	-	-	-	-	-	-
Conrail Shared Assets	35	0.4	20	-	-	9	3	3	-	-	-	-
CSX Transportation	979	11.0	689	22	-	125	125	5	3	-	-	10
Delaware & Hudson	21	0.2	18	-	-	1	2	-	-	-	-	-
Dakota,Minnesota & Eastern	41	0.5	32	-	-	-	9	-	-	-	-	-
Duluth,Missabe & Iron Range	20	0.2	20	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	13	0.1	13	-	-	-	-	-	-	-	-	-
Florida East Coast	32	0.4	13	-	-	10	7	-	2	-	-	-
Grand Canyon Railway	27	0.3	18	1	5	3	-	-	-	-	-	-
Guilford Rail System	10	0.1	9	-	-	-	1	-	-	-	-	-
Grand Trunk Western RR	68	0.8	59	1	-	4	4	-	-	-	-	-
Illinois Central	131	1.5	103	-	-	21	5	2	-	-	-	-
Iowa Chicago & Eastern RR	44	0.5	38	-	-	-	6	-	-	-	-	-
Indiana Harbor Belt	29	0.3	26	-	-	-	3	-	-	-	-	-
Kansas City Southern	162	1.8	99	-	-	41	11	5	1	-	1	4
Long Island Rail Road	327	3.7	186	-	57	75	5	-	4	-	-	-
MD Assn. of Rail Comm	8	0.1	2	-	2	4	-	-	-	-	-	-
Mass Bay Transit Auth.	91	1.0	78	-	11	-	2	-	-	-	-	-
Montreal, Maine & Atlantic	12	0.1	12	-	-	-	-	-	-	-	-	-
Metro North Commuter	354	4.0	265	17	26	40	1	-	5	-	-	-
Montana Rail Link	49	0.6	41	-	-	5	3	-	-	-	-	-
Northern IN Comm Trans	35	0.4	34	-	-	-	1	-	-	-	-	-
Northeast IL Reg Comm	265	3.0	76	6	125	32	19	1	4	-	-	2
New Jersey Transit Rail	186	2.1	128	3	27	21	5	1	1	-	-	-
Norfolk Southern Corp.	617	7.0	345	19	-	115	64	52	18	-	-	4
Paducah & Louisville	10	0.1	7	-	-	-	3	-	-	-	-	-
Port Auth Trans Hudson	173	2.0	108	4	14	39	2	2	4	-	-	-
Peninsula Comm San Mateo Cnty	34	0.4	22	-	1	2	5	3	1	-	-	-
Port Terminal RR Assn	14	0.2	14	-	-	-	-	-	-	-	-	-
Southern CA Reg Rail Auth.	24	0.3	7	-	1	-	4	12	-	-	-	-
Southeastern PA Trans.	246	2.8	168	-	40	36	-	-	-	-	-	2
Soo Line	92	1.0	71	1	-	15	3	1	1	-	-	-
Texas Mexican	16	0.2	10	-	-	4	2	-	-	-	-	-
Term RR Assn Of St. Louis	5	0.1	4	-	-	-	1	-	-	-	-	-
Union Pacific	1,331	15.0	934	28	-	175	164	7	10	-	-	13
Union RR (Pittsburgh)	18	0.2	17	1	-	-	-	-	-	-	-	-
Wisconsin Central Ltd.	74	0.8	52	1	-	16	4	-	1	-	-	-
Wheeling & Lake Erie	12	0.1	5	-	-	-	6	1	-	-	-	-
Wisconsin & Southern RR	21	0.2	19	-	-	1	1	-	-	-	-	-
Other Railroads	791	8.9	626	4	30	52	26	22	21	2	1	7
<b>Total</b>	<b>8,871</b>	<b>100</b>	<b>5,898</b>	<b>197</b>	<b>621</b>	<b>1,097</b>	<b>660</b>	<b>150</b>	<b>197</b>	<b>3</b>	<b>2</b>	<b>46</b>

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, 2004**

	Total	%	Type Person codes									
			A	B	C	D	E	F	G	H	I	J
Alabama	121	1.4	72	2	-	27	15	1	2	-	-	2
Alaska	41	0.5	36	-	5	-	-	-	-	-	-	-
Arizona	139	1.6	81	9	10	7	28	3	1	-	-	-
Arkansas	125	1.4	90	2	-	26	3	1	2	-	-	1
California	489	5.5	285	13	44	32	73	17	20	-	-	5
Colorado	137	1.5	93	1	10	16	14	-	3	-	-	-
Connecticut	111	1.3	86	7	4	7	2	3	2	-	-	-
Delaware	63	0.7	45	4	4	3	6	-	1	-	-	-
Dist Of Columbia	206	2.3	194	4	5	2	-	-	1	-	-	-
Florida	238	2.7	124	5	29	28	24	9	18	-	-	1
Georgia	179	2.0	109	2	5	27	24	6	5	-	-	1
Idaho	53	0.6	40	-	-	10	2	-	1	-	-	-
Illinois	832	9.4	449	14	141	92	57	31	43	-	1	4
Indiana	210	2.4	153	5	2	20	27	2	-	1	-	-
Iowa	151	1.7	111	4	4	23	6	1	1	-	1	-
Kansas	137	1.5	99	2	4	14	10	2	5	1	-	-
Kentucky	149	1.7	106	2	-	18	18	2	1	-	-	2
Louisiana	225	2.5	145	7	2	51	9	5	-	-	-	6
Maine	23	0.3	20	-	-	-	1	-	-	-	-	2
Maryland	78	0.9	61	-	4	5	7	1	-	-	-	-
Massachusetts	158	1.8	131	1	15	3	4	2	2	-	-	-
Michigan	180	2.0	124	3	5	22	21	4	1	-	-	-
Minnesota	167	1.9	126	4	4	15	9	5	3	1	-	-
Mississippi	143	1.6	68	-	27	35	8	2	1	-	-	2
Missouri	181	2.0	121	2	8	26	18	1	5	-	-	-
Montana	128	1.4	100	6	5	14	3	-	-	-	-	-
Nebraska	158	1.8	128	10	-	13	5	-	2	-	-	-
Nevada	23	0.3	19	-	-	-	4	-	-	-	-	-
New Hampshire	6	0.1	6	-	-	-	-	-	-	-	-	-
New Jersey	369	4.2	249	7	40	51	12	7	3	-	-	-
New Mexico	58	0.7	38	2	5	4	4	1	3	-	-	1
New York	914	10.3	611	26	96	142	19	7	12	-	-	1
North Carolina	111	1.3	58	3	4	27	18	-	1	-	-	-
North Dakota	67	0.8	47	1	5	12	1	-	1	-	-	-
Ohio	278	3.1	214	9	4	17	23	8	1	-	-	2
Oklahoma	102	1.1	56	2	-	31	10	-	2	-	-	1
Oregon	109	1.2	77	1	6	10	12	-	3	-	-	-
Pennsylvania	513	5.8	368	7	47	59	18	8	4	-	-	2
Rhode Island	22	0.2	17	-	3	1	1	-	-	-	-	-
South Carolina	84	0.9	48	1	2	26	3	-	-	-	-	4
South Dakota	41	0.5	30	1	-	4	6	-	-	-	-	-
Tennessee	144	1.6	97	4	2	21	11	1	8	-	-	-
Texas	568	6.4	319	12	30	80	90	9	21	-	-	7
Utah	55	0.6	38	-	6	9	1	1	-	-	-	-
Vermont	19	0.2	16	-	1	2	-	-	-	-	-	-
Virginia	129	1.5	72	3	17	22	7	4	2	-	-	2
Washington	156	1.8	105	4	10	11	15	4	7	-	-	-
West Virginia	75	0.8	59	1	-	7	5	-	3	-	-	-
Wisconsin	135	1.5	98	1	5	23	6	-	2	-	-	-
Wyoming	71	0.8	59	3	1	2	-	2	4	-	-	-
Total	8,871	100.0	5,898	197	621	1,097	660	150	197	3	2	46

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

**TABLE 3-6 REPORTABLE CONDITIONS, ALL TYPE PERSONS, 2004**

Condition	Cnt	%	Type of Person *									
			A	B	C	D	E	F	G	H	I	J
Bruise/contusion	1,508	15.4	859	40	192	245	112	19	28	1	1	11
Occ. Illness	239	2.4	231	5	-	-	-	-	3	-	-	-
Crushing injury	118	1.2	79	1	2	8	16	7	5	-	-	-
Sprain/Str., other	91	0.9	55	4	10	12	10	-	-	-	-	-
Sprain/Str.,arm/hand	309	3.2	270	-	18	7	2	6	6	-	-	-
Sprain/Str.,leg/foot	953	9.8	785	29	59	50	1	13	15	-	-	1
Sprain/Str.,head/face	291	3.0	190	8	30	43	9	6	5	-	-	-
Sprain/Str.,torso	1,729	17.7	1,488	44	79	54	8	22	28	-	-	6
Cut/abrasion	1,087	11.1	651	11	79	174	93	28	41	2	-	8
Puncture wound	95	1.0	86	1	-	3	2	3	-	-	-	-
Needle stick	11	0.1	9	-	1	-	-	-	1	-	-	-
Electric shock/burn	30	0.3	21	-	-	-	6	1	2	-	-	-
Other burn	61	0.6	49	1	7	-	-	2	1	-	-	1
Dislocation	83	0.8	60	2	5	10	2	2	1	-	-	1
Fracture,other	11	0.1	1	-	1	4	4	-	1	-	-	-
Fracture,arm/hand	347	3.6	224	6	30	48	19	8	12	-	-	-
Fracture,leg/foot	347	3.6	175	12	38	67	37	6	12	-	-	-
Fracture,head/face	56	0.6	19	1	4	22	10	-	-	-	-	-
Fracture,torso	174	1.8	69	4	23	46	21	5	6	-	-	-
Fracture,multiple	21	0.2	1	1	-	6	12	1	-	-	-	-
Rupture/tear, tendon, e	83	0.8	70	2	3	6	-	-	2	-	-	-
Gunshot/knife wound	1	0.0	1	-	-	-	-	-	-	-	-	-
Animal/snake/insect bit	46	0.5	38	8	-	-	-	-	-	-	-	-
Dental related	41	0.4	27	1	8	4	-	1	-	-	-	-
Amputation,arm/hand	35	0.4	16	-	-	2	13	2	2	-	-	-
Amputation,leg/foot	88	0.9	11	-	-	2	71	2	1	-	-	1
Amputation,torso	1	0.0	-	-	-	-	1	-	-	-	-	-
Amputation,other	1	0.0	-	-	-	-	1	-	-	-	-	-
Fatality	898	9.2	25	-	3	232	628	2	2	-	-	6
Object in eye	137	1.4	113	5	10	1	-	7	-	-	1	-
Hernia	50	0.5	49	1	-	-	-	-	-	-	-	-
Concussion	77	0.8	32	-	6	19	9	2	7	-	-	2
Nervous shock	3	0.0	3	-	-	-	-	-	-	-	-	-
Internal injury	76	0.8	10	-	6	40	19	1	-	-	-	-
Skin reaction	38	0.4	27	-	-	2	-	-	2	-	-	7
One-time exp. to noise	14	0.1	12	1	-	-	-	1	-	-	-	-
Unspecified injury	544	5.6	103	5	9	221	182	3	13	-	-	8
One-time exp.-fumes	75	0.8	64	4	1	1	-	2	3	-	-	-
<b>Total</b>	<b>9,769</b>	<b>100.0</b>	<b>5,923</b>	<b>197</b>	<b>624</b>	<b>1,329</b>	<b>1,288</b>	<b>152</b>	<b>199</b>	<b>3</b>	<b>2</b>	<b>52</b>

**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 - Non trespasser, off rr property**

**TABLE 3-7 TOTAL CASUALTIES BY AGE OF INDIVIDUAL  
AND TYPE OF PERSON, 2004**

Age		Total		Type of Person *									
		Cnt	%	A	B	C	D	E	F	G	H	I	J
Kld	Unk	70	0.7	-	-	-	19	50	-	-	-	-	1
	1-5	3	0.0	-	-	-	1	2	-	-	-	-	-
	6-10	5	0.1	-	-	-	2	3	-	-	-	-	-
	11-15	24	0.2	-	-	-	10	14	-	-	-	-	-
	16-20	88	0.9	-	-	-	30	58	-	-	-	-	-
	21-25	84	0.9	1	-	-	20	63	-	-	-	-	-
	26-30	93	1.0	3	-	-	15	74	-	-	-	-	1
	31-35	90	0.9	3	-	-	15	70	-	1	-	-	1
	36-40	76	0.8	2	-	-	21	52	-	-	-	-	1
	41-45	83	0.8	4	-	1	14	62	1	-	-	-	1
	46-50	83	0.8	4	-	-	20	58	1	-	-	-	-
	51-55	52	0.5	2	-	-	12	38	-	-	-	-	-
	56-60	41	0.4	6	-	-	11	24	-	-	-	-	-
	> 60	106	1.1	-	-	2	42	60	-	1	-	-	1
	Total	898	9.2	25	-	3	232	628	2	2	-	-	6
Nonfatal	Unk	342	3.5	-	-	90	142	71	20	16	-	-	3
	1-5	32	0.3	-	-	7	18	6	-	-	-	-	1
	6-10	45	0.5	-	-	13	19	12	-	-	-	-	1
	11-15	64	0.7	-	-	5	26	31	-	-	-	-	2
	16-20	228	2.3	44	1	4	91	70	8	8	-	-	2
	21-25	526	5.4	270	8	20	92	85	18	27	-	-	6
	26-30	771	7.9	527	16	26	86	80	14	18	1	-	3
	31-35	935	9.6	690	28	32	97	40	17	28	-	-	3
	36-40	985	10.1	689	20	53	98	71	24	26	-	-	4
	41-45	1,031	10.6	794	29	44	74	52	16	18	1	-	3
	46-50	1,304	13.3	1,025	38	61	92	44	16	21	-	1	6
	51-55	1,232	12.6	1,035	28	61	49	33	7	15	-	-	4
	56-60	809	8.3	651	23	47	53	17	8	8	-	-	2
	> 60	567	5.8	173	6	158	160	48	2	12	1	1	6
	Total	8,871	90.8	5,898	197	621	1,097	660	150	197	3	2	46
Total		9,769	100.0	5,923	197	624	1,329	1,288	152	199	3	2	52

*A - Worker on duty(rr employee), B - Employee not on duty, C - Passenger on train, D - Nontrespasser  
 E - Trespasser, F - Worker on duty(contractors), 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, 2004**

Month		Total	Type of Person *									
		Cnt	A	B	C	D	E	F	G	H	I	J
Kld	January	74	2	-	-	26	45	-	-	-	-	1
	February	67	2	-	-	18	47	-	-	-	-	-
	March	65	1	-	-	20	43	-	-	-	-	1
	April	60	-	-	1	18	41	-	-	-	-	-
	May	87	4	-	-	22	61	-	-	-	-	-
	June	81	3	-	-	25	50	1	-	-	-	2
	July	77	1	-	1	10	64	-	-	-	-	1
	August	85	-	-	-	26	58	-	1	-	-	-
	September	78	4	-	1	19	54	-	-	-	-	-
	October	77	4	-	-	18	55	-	-	-	-	-
	November	79	2	-	-	15	60	-	1	-	-	1
	December	68	2	-	-	15	50	1	-	-	-	-
	Total	898	25	-	3	232	628	2	2	-	-	6
Nonfatal	January	791	536	17	50	105	50	11	17	-	-	5
	February	739	501	17	39	102	41	15	21	1	-	2
	March	778	534	20	57	83	55	10	15	-	-	4
	April	706	465	14	86	76	38	11	14	-	-	2
	May	730	474	13	69	85	66	12	9	-	-	2
	June	806	513	8	57	108	81	13	20	-	-	6
	July	770	502	18	60	100	52	17	20	-	-	1
	August	790	545	12	40	103	51	14	16	1	-	8
	September	728	493	21	43	79	57	11	17	-	1	6
	October	697	462	21	44	89	50	15	15	-	-	1
	November	665	465	19	23	71	58	11	12	1	-	5
	December	671	408	17	53	96	61	10	21	-	1	4
	Total	8,871	5,898	197	621	1,097	660	150	197	3	2	46
Total		9,769	5,923	197	624	1,329	1,288	152	199	3	2	52

**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, 2004**

Time	Total		Type of Person *									
	Cnt	%	A	B	C	D	E	F	G	H	I	J
<b>AM 1</b>	289	3.0	182	6	7	27	61	-	6	-	-	-
<b>2</b>	241	2.5	164	7	1	19	44	3	2	1	-	-
<b>3</b>	247	2.5	160	6	3	10	56	8	4	-	-	-
<b>4</b>	144	1.5	94	8	2	8	27	2	2	-	-	1
<b>5</b>	221	2.3	137	11	5	23	29	4	6	-	-	6
<b>6</b>	262	2.7	127	19	14	43	45	4	4	-	-	6
<b>7</b>	454	4.6	216	15	89	71	47	7	8	-	-	1
<b>8</b>	594	6.1	373	9	53	99	34	12	11	-	-	3
<b>9</b>	653	6.7	453	5	35	75	39	19	20	1	1	5
<b>10</b>	872	8.9	661	7	38	86	46	17	16	-	-	1
<b>11</b>	614	6.3	434	10	23	68	51	11	15	1	-	1
<b>12</b>	264	2.7	151	2	15	30	63	2	1	-	-	-
<b>Total</b>	4,855	49.7	3,152	105	285	559	542	89	95	3	1	24
<b>PM 1</b>	546	5.6	359	6	27	83	46	12	9	-	-	4
<b>2</b>	540	5.5	329	12	12	93	65	7	17	-	-	5
<b>3</b>	460	4.7	263	16	31	78	54	5	12	-	-	1
<b>4</b>	416	4.3	240	8	21	78	50	4	13	-	-	2
<b>5</b>	441	4.5	234	8	40	77	68	-	10	-	1	3
<b>6</b>	445	4.6	224	12	58	63	72	8	4	-	-	4
<b>7</b>	381	3.9	202	2	29	67	73	4	1	-	-	3
<b>8</b>	346	3.5	193	3	22	52	66	5	5	-	-	-
<b>9</b>	300	3.1	155	7	17	29	81	4	6	-	-	1
<b>10</b>	235	2.4	133	6	8	35	48	-	4	-	-	1
<b>11</b>	273	2.8	154	6	13	24	63	7	5	-	-	1
<b>12</b>	531	5.4	285	6	61	91	60	7	18	-	-	3
<b>Total</b>	4,914	50.3	2,771	92	339	770	746	63	104	-	1	28
<b>Total</b>	9,769	100	5,923	197	624	1,329	1,288	152	199	3	2	52

**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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### CHAPTER 4

#### EMPLOYEE ON DUTY CASUALTIES

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**TABLE 4-1 REPORTABLE CONDITIONS TO RR EMPLOYEES ON DUTY, 2004**

Condition	Total		Days Absent			Absent Cases 1/		Term./ Trans. 2/	Days Restricted			Hazmat Exp. 3/
	Cnt	%	Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.	Cnt
Bruise/contusion	859	14.5	36,458	13.1	42	594	14.9	2	5,151	12.8	6	-
Occ. Illness	231	3.9	4,075	1.5	18	62	1.6	-	764	1.9	3	-
Crushing injury	79	1.3	1,889	0.7	24	40	1.0	1	779	1.9	10	-
Sprain/Str., other	55	0.9	3,155	1.1	57	40	1.0	-	143	0.4	3	-
Sprain/Str.,arm/hand	270	4.6	12,698	4.6	47	178	4.5	-	2,847	7.1	11	-
Sprain/Str.,leg/foot	785	13.3	43,073	15.5	55	649	16.3	3	5,947	14.7	8	-
Sprain/Str.,head/face	190	3.2	12,581	4.5	66	142	3.6	-	581	1.4	3	-
Sprain/Str.,torso	1,488	25.1	89,735	32.3	60	1,157	29.1	5	12,225	30.3	8	1
Cut/abrasion	651	11.0	9,930	3.6	15	273	6.9	-	1,523	3.8	2	-
Puncture wound	86	1.5	1,149	0.4	13	26	0.7	-	147	0.4	2	-
Needle stick	9	0.2	3	0.0	0	2	0.1	-	0	0.0	0	-
Electric shock/burn	21	0.4	455	0.2	22	12	0.3	-	74	0.2	4	-
Other burn	49	0.8	929	0.3	19	28	0.7	-	435	1.1	9	1
Dislocation	60	1.0	4,851	1.7	81	46	1.2	1	623	1.5	10	-
Fracture,arm/hand	224	3.8	12,087	4.4	54	155	3.9	4	3,913	9.7	17	1
Fracture,leg/foot	175	3.0	16,037	5.8	92	155	3.9	3	2,012	5.0	11	-
Fracture,head/face	19	0.3	1,454	0.5	77	16	0.4	-	44	0.1	2	-
Fracture,torso	69	1.2	6,137	2.2	89	59	1.5	-	661	1.6	10	-
Fracture,multiple	1	0.0	180	0.1	180	1	0.0	-	0	0.0	0	-
Fracture,other	1	0.0	16	0.0	16	1	0.0	-	0	0.0	0	-
Rupture/tear, tendon, etc	70	1.2	5,180	1.9	74	61	1.5	-	1,726	4.3	25	-
Gunshot/knife wound	1	0.0	180	0.1	180	1	0.0	-	0	0.0	0	-
Animal/snake/insect bite	38	0.6	199	0.1	5	13	0.3	-	20	0.0	1	-
Dental related	27	0.5	61	0.0	2	10	0.3	-	0	0.0	0	-
Amputation,arm/hand	16	0.3	1,193	0.4	75	15	0.4	-	232	0.6	15	-
Amputation,leg/foot	11	0.2	1,978	0.7	180	11	0.3	1	2	0.0	0	-
Fatality	25	0.4	0	0.0	0	-	-	-	0	0.0	0	3
Object in eye	113	1.9	387	0.1	3	36	0.9	-	10	0.0	0	1
Hernia	49	0.8	3,175	1.1	65	44	1.1	1	390	1.0	8	-
Concussion	32	0.5	1,158	0.4	36	26	0.7	-	3	0.0	0	-
Nervous shock	3	0.1	2	0.0	1	1	0.0	-	7	0.0	2	-
Internal injury	10	0.2	883	0.3	88	8	0.2	-	60	0.1	6	-
Skin reaction	27	0.5	879	0.3	33	14	0.4	-	5	0.0	0	8
One-time exp. to noise	12	0.2	744	0.3	62	8	0.2	-	0	0.0	0	-
Unspecified injury	103	1.7	3,685	1.3	36	61	1.5	-	31	0.1	0	2
One-time exp.-fumes	64	1.1	1,090	0.4	17	32	0.8	1	0	0.0	0	10
<b>Total</b>	<b>5,923</b>	<b>100</b>	<b>277,686</b>	<b>100</b>	<b>47</b>	<b>3,977</b>	<b>100</b>	<b>22</b>	<b>40,355</b>	<b>100</b>	<b>7</b>	<b>27</b>

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, 2004

RR	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Trans.	Cnt	%	Avg.	Exp.
ALS	8	0.1	-	0.0	8	0.1	163	0.1	20	8	0.2	-	0	0.0	0	-
ARR	28	0.5	-	0.0	28	0.5	322	0.1	12	18	0.5	-	189	0.5	7	-
ATK	828	14.0	-	0.0	828	14.0	32,120	11.6	39	505	12.7	-	7,575	18.8	9	-
BNSF	637	10.8	6	24.0	631	10.7	28,010	10.1	44	398	10.0	-	10,782	26.7	17	9
BRC	15	0.3	-	0.0	15	0.3	699	0.3	47	11	0.3	-	186	0.5	12	-
CRSH	20	0.3	-	0.0	20	0.3	1,530	0.6	77	15	0.4	-	31	0.1	2	-
CSX	691	11.7	2	8.0	689	11.7	46,991	16.9	68	574	14.4	-	146	0.4	0	2
DH	18	0.3	-	0.0	18	0.3	647	0.2	36	16	0.4	-	35	0.1	2	-
DME	32	0.5	-	0.0	32	0.5	865	0.3	27	21	0.5	-	267	0.7	8	-
DMIR	20	0.3	-	0.0	20	0.3	80	0.0	4	10	0.3	-	2	0.0	0	-
EJE	13	0.2	-	0.0	13	0.2	40	0.0	3	3	0.1	-	12	0.0	1	-
FEC	13	0.2	-	0.0	13	0.2	753	0.3	58	12	0.3	-	60	0.1	5	-
GCRX	18	0.3	-	0.0	18	0.3	34	0.0	2	7	0.2	-	137	0.3	8	-
GRS	9	0.2	-	0.0	9	0.2	388	0.1	43	8	0.2	-	52	0.1	6	-
GTW	59	1.0	-	0.0	59	1.0	3,207	1.2	54	40	1.0	-	1	0.0	0	1
IC	103	1.7	-	0.0	103	1.7	3,495	1.3	34	62	1.6	-	183	0.5	2	2
ICE	38	0.6	-	0.0	38	0.6	691	0.2	18	26	0.7	1	103	0.3	3	-
IHB	26	0.4	-	0.0	26	0.4	812	0.3	31	21	0.5	-	0	0.0	0	-
KCS	99	1.7	-	0.0	99	1.7	2,522	0.9	25	34	0.9	6	2,745	6.8	28	2
LI	187	3.2	1	4.0	186	3.2	3,898	1.4	21	170	4.3	-	3,410	8.5	18	-
MACZ	2	0.0	-	0.0	2	0.0	183	0.1	92	2	0.1	-	0	0.0	0	-
MBTA	78	1.3	-	0.0	78	1.3	2,914	1.0	37	59	1.5	-	239	0.6	3	-
MMA	12	0.2	-	0.0	12	0.2	78	0.0	7	4	0.1	-	92	0.2	8	-
MNCW	267	4.5	2	8.0	265	4.5	12,524	4.5	47	148	3.7	-	3,926	9.7	15	-
MRL	41	0.7	-	0.0	41	0.7	1,263	0.5	31	31	0.8	-	401	1.0	10	-
NICD	34	0.6	-	0.0	34	0.6	257	0.1	8	17	0.4	-	465	1.2	14	-
NIRC	76	1.3	-	0.0	76	1.3	4,013	1.4	53	63	1.6	-	179	0.4	2	-
NJTR	128	2.2	-	0.0	128	2.2	5,052	1.8	39	111	2.8	1	8	0.0	0	-
NS	352	5.9	7	28.0	345	5.8	39,945	14.4	113	277	7.0	-	149	0.4	0	5
PAL	7	0.1	-	0.0	7	0.1	75	0.0	11	5	0.1	-	0	0.0	0	-
PATH	108	1.8	-	0.0	108	1.8	4,985	1.8	46	105	2.6	-	40	0.1	0	-
PCMZ	22	0.4	-	0.0	22	0.4	719	0.3	33	16	0.4	-	20	0.0	1	-
PTRA	14	0.2	-	0.0	14	0.2	188	0.1	13	11	0.3	-	0	0.0	0	-
SCAX	7	0.1	-	0.0	7	0.1	13	0.0	2	1	0.0	-	6	0.0	1	-
SEPA	168	2.8	-	0.0	168	2.8	4,464	1.6	27	128	3.2	2	306	0.8	2	-
SOO	71	1.2	-	0.0	71	1.2	3,737	1.3	53	53	1.3	2	238	0.6	3	-
TM	10	0.2	-	0.0	10	0.2	240	0.1	24	8	0.2	2	131	0.3	13	-
TRRA	4	0.1	-	0.0	4	0.1	207	0.1	52	4	0.1	-	61	0.2	15	-
UP	939	15.9	5	20.0	934	15.8	59,018	21.3	63	623	15.7	3	3,794	9.4	4	3
URR	17	0.3	-	0.0	17	0.3	616	0.2	36	11	0.3	-	234	0.6	14	1
WC	52	0.9	-	0.0	52	0.9	2,757	1.0	53	44	1.1	-	46	0.1	1	-
WE	5	0.1	-	0.0	5	0.1	7	0.0	1	1	0.0	1	61	0.2	12	-
WSOR	19	0.3	-	0.0	19	0.3	446	0.2	23	6	0.2	-	514	1.3	27	-
XXXX	628	10.6	2	8.0	626	10.6	6,718	2.4	11	290	7.3	4	3,529	8.7	6	2
Tot.	5,923	100	25	100	5,898	100	277,686	100	47	3,977	100	22	40,355	100	7	27

XXXX = All other railroads

**TABLE 4-3 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY STATE, 2004**

	Total			Deaths			Nonfatal			Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%		Cnt	%		Cnt	%		Cnt	%	Avg.	Cnt	%	Cnt	Cnt	%	Avg.	Exp.
AL	73	1.2	1	4.0	72	1.2	7,153	2.6	98	56	1.4	1	356	0.9	5	-	-	-	-
AK	36	0.6	-	0.0	36	0.6	332	0.1	9	21	0.5	-	196	0.5	5	-	-	-	-
AZ	81	1.4	-	0.0	81	1.4	4,374	1.6	54	54	1.4	-	954	2.4	12	2	-	-	-
AR	90	1.5	-	0.0	90	1.5	4,402	1.6	49	45	1.1	1	387	1.0	4	-	-	-	-
CA	286	4.8	1	4.0	285	4.8	13,377	4.8	47	187	4.7	-	2,560	6.3	9	1	-	-	-
CO	94	1.6	1	4.0	93	1.6	3,001	1.1	32	42	1.1	-	975	2.4	10	-	-	-	-
CT	87	1.5	1	4.0	86	1.5	3,734	1.3	43	55	1.4	-	950	2.4	11	-	-	-	-
DE	45	0.8	-	0.0	45	0.8	1,457	0.5	32	26	0.7	-	609	1.5	14	-	-	-	-
DC	194	3.3	-	0.0	194	3.3	2,261	0.8	12	42	1.1	-	213	0.5	1	-	-	-	-
FL	125	2.1	1	4.0	124	2.1	6,619	2.4	53	97	2.4	-	1,172	2.9	9	-	-	-	-
GA	109	1.8	-	0.0	109	1.8	7,754	2.8	71	83	2.1	-	87	0.2	1	-	-	-	-
ID	40	0.7	-	0.0	40	0.7	2,710	1.0	68	26	0.7	-	61	0.2	2	-	-	-	-
IL	451	7.6	2	8.0	449	7.6	23,818	8.6	53	331	8.3	1	2,368	5.9	5	3	-	-	-
IN	154	2.6	1	4.0	153	2.6	7,091	2.6	46	94	2.4	1	1,096	2.7	7	-	-	-	-
IA	111	1.9	-	0.0	111	1.9	3,140	1.1	28	66	1.7	-	339	0.8	3	-	-	-	-
KS	100	1.7	1	4.0	99	1.7	3,151	1.1	32	52	1.3	-	1,721	4.3	17	-	-	-	-
KY	106	1.8	-	0.0	106	1.8	7,095	2.6	67	85	2.1	-	96	0.2	1	-	-	-	-
LA	147	2.5	2	8.0	145	2.5	6,103	2.2	42	72	1.8	5	1,662	4.1	11	6	-	-	-
ME	20	0.3	-	0.0	20	0.3	470	0.2	24	11	0.3	-	92	0.2	5	-	-	-	-
MD	61	1.0	-	0.0	61	1.0	2,597	0.9	43	45	1.1	-	770	1.9	13	-	-	-	-
MA	131	2.2	-	0.0	131	2.2	4,903	1.8	37	101	2.5	-	407	1.0	3	-	-	-	-
MI	126	2.1	2	8.0	124	2.1	6,676	2.4	53	85	2.1	-	76	0.2	1	1	-	-	-
MN	126	2.1	-	0.0	126	2.1	3,045	1.1	24	65	1.6	-	939	2.3	7	-	-	-	-
MS	68	1.1	-	0.0	68	1.2	3,884	1.4	57	48	1.2	-	649	1.6	10	-	-	-	-
MO	121	2.0	-	0.0	121	2.1	6,363	2.3	53	76	1.9	2	1,255	3.1	10	-	-	-	-
MT	101	1.7	1	4.0	100	1.7	4,294	1.5	43	68	1.7	-	1,342	3.3	13	-	-	-	-
NE	128	2.2	-	0.0	128	2.2	6,091	2.2	48	75	1.9	-	633	1.6	5	-	-	-	-
NV	19	0.3	-	0.0	19	0.3	1,885	0.7	99	14	0.4	-	67	0.2	4	-	-	-	-
NH	6	0.1	-	0.0	6	0.1	27	0.0	5	3	0.1	-	119	0.3	20	-	-	-	-
NJ	249	4.2	-	0.0	249	4.2	10,741	3.9	43	217	5.5	1	59	0.1	0	-	-	-	-
NM	41	0.7	3	12.0	38	0.6	2,683	1.0	65	29	0.7	-	250	0.6	6	-	-	-	-
NY	614	10.4	3	12.0	611	10.4	25,718	9.3	42	468	11.8	-	7,503	18.6	12	-	-	-	-
NC	58	1.0	-	0.0	58	1.0	4,519	1.6	78	46	1.2	-	259	0.6	4	1	-	-	-
ND	47	0.8	-	0.0	47	0.8	1,564	0.6	33	31	0.8	1	555	1.4	12	-	-	-	-
OH	214	3.6	-	0.0	214	3.6	13,166	4.7	62	166	4.2	3	312	0.8	1	-	-	-	-
OK	56	0.9	-	0.0	56	0.9	2,174	0.8	39	32	0.8	-	281	0.7	5	-	-	-	-
OR	77	1.3	-	0.0	77	1.3	3,125	1.1	41	48	1.2	-	441	1.1	6	-	-	-	-
PA	369	6.2	1	4.0	368	6.2	15,337	5.5	42	261	6.6	3	1,890	4.7	5	1	-	-	-
RI	17	0.3	-	0.0	17	0.3	1,334	0.5	78	13	0.3	-	103	0.3	6	-	-	-	-
SC	48	0.8	-	0.0	48	0.8	4,036	1.5	84	35	0.9	-	163	0.4	3	-	-	-	-
SD	30	0.5	-	0.0	30	0.5	852	0.3	28	18	0.5	-	137	0.3	5	-	-	-	-
TN	97	1.6	-	0.0	97	1.6	4,796	1.7	49	73	1.8	-	415	1.0	4	1	-	-	-
TX	322	5.4	3	12.0	319	5.4	18,325	6.6	57	213	5.4	3	2,469	6.1	8	9	-	-	-
UT	38	0.6	-	0.0	38	0.6	1,876	0.7	49	30	0.8	-	278	0.7	7	-	-	-	-
VT	16	0.3	-	0.0	16	0.3	61	0.0	4	8	0.2	-	179	0.4	11	-	-	-	-
VA	73	1.2	1	4.0	72	1.2	4,670	1.7	64	50	1.3	-	82	0.2	1	-	-	-	-
WA	105	1.8	-	0.0	105	1.8	3,254	1.2	31	64	1.6	-	1,061	2.6	10	1	-	-	-
WV	59	1.0	-	0.0	59	1.0	3,343	1.2	57	43	1.1	-	8	0.0	0	-	-	-	-
WI	98	1.7	-	0.0	98	1.7	5,130	1.8	52	69	1.7	-	1,214	3.0	12	-	-	-	-
WY	59	1.0	-	0.0	59	1.0	3,175	1.1	54	38	1.0	-	545	1.4	9	1	-	-	-
Tot.	5,923	100	25	100	5,898	100	277,686	100	47	3,977	100	22	40,355	100	7	27	-	-	-

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2004

Activity	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Adjusting coupler	24	0.4	1,542	0.6	19	0.5	-	24	0.1	-
Adjusting drawbar	17	0.3	596	0.2	13	0.3	-	211	0.5	-
Adjusting, other	69	1.2	2,328	0.8	39	1.0	-	287	0.7	-
Applying rail anchor/fastener	17	0.3	172	0.1	5	0.1	-	152	0.4	1
Bending, stooping	78	1.3	4,029	1.5	54	1.4	-	577	1.4	-
Carrying	47	0.8	1,681	0.6	33	0.8	-	470	1.2	-
Chaining, cabling car or locomotiv	6	0.1	880	0.3	5	0.1	-	117	0.3	-
Cleaning	82	1.4	3,031	1.1	49	1.2	-	697	1.7	-
Climbing over/on	93	1.6	4,863	1.8	64	1.6	-	804	2.0	-
Closing	79	1.3	2,220	0.8	53	1.3	-	408	1.0	-
Coupling electric cables	7	0.1	604	0.2	5	0.1	-	23	0.1	-
Coupling steam hose	1	0.0	9	0.0	1	0.0	-	0	0.0	-
Coupling air hose	42	0.7	1,284	0.5	24	0.6	1	254	0.6	-
Crossing over	14	0.2	1,293	0.5	11	0.3	-	363	0.9	-
Crossing between	5	0.1	394	0.1	4	0.1	-	199	0.5	-
Cutting rail	14	0.2	303	0.1	7	0.2	-	284	0.7	-
Cutting vegetation	16	0.3	164	0.1	5	0.1	-	13	0.0	-
Cutting, other	51	0.9	793	0.3	19	0.5	-	253	0.6	-
Digging, excavating	26	0.4	740	0.3	16	0.4	-	201	0.5	-
Driving (motor vehicle, forklift,	101	1.7	3,578	1.3	66	1.7	1	484	1.2	-
Flagging	5	0.1	82	0.0	2	0.1	-	135	0.3	-
Fueling	4	0.1	252	0.1	4	0.1	-	0	0.0	-
Getting on	72	1.2	3,139	1.1	53	1.3	2	358	0.9	-
Getting off	187	3.2	9,584	3.5	147	3.7	4	1,679	4.2	-
Grinding	28	0.5	374	0.1	6	0.2	-	248	0.6	-
Handling baggage	18	0.3	1,177	0.4	17	0.4	-	219	0.5	-
Handling car parts	24	0.4	483	0.2	11	0.3	-	312	0.8	-
Handling material, general	39	0.7	1,078	0.4	23	0.6	-	174	0.4	-
Handling locomotive parts	19	0.3	698	0.3	7	0.2	-	208	0.5	-
Handling wheels/trucks	6	0.1	473	0.2	5	0.1	-	98	0.2	-
Handling, other	83	1.4	1,659	0.6	46	1.2	-	1,196	3.0	-
Handling other track material/supp	24	0.4	853	0.3	14	0.4	-	32	0.1	-
Handling poles	2	0.0	180	0.1	1	0.0	-	13	0.0	-
Handling tie plates	8	0.1	186	0.1	4	0.1	-	186	0.5	-
Handling ties	34	0.6	666	0.2	14	0.4	1	64	0.2	-
Handling rail	21	0.4	638	0.2	13	0.3	-	41	0.1	-
Inspecting	62	1.0	2,888	1.0	39	1.0	1	106	0.3	-
Installing	53	0.9	1,650	0.6	26	0.7	-	580	1.4	1
Jumping from	45	0.8	2,528	0.9	34	0.9	-	263	0.7	-
Jumping onto	3	0.1	211	0.1	2	0.1	-	109	0.3	-
Laying	2	0.0	1	0.0	1	0.0	-	1	0.0	-
Lifting other material	130	2.2	5,932	2.1	96	2.4	1	1,858	4.6	-
Lifting equipment (tools, parts, e	144	2.4	7,190	2.6	98	2.5	-	2,001	5.0	-
Lining switches	139	2.3	8,041	2.9	105	2.6	1	1,017	2.5	-
Lining, other	3	0.1	301	0.1	3	0.1	-	0	0.0	-
Loading/unloading	80	1.4	2,628	0.9	44	1.1	-	890	2.2	-
Maintaining	41	0.7	920	0.3	26	0.7	-	194	0.5	-
Opening	134	2.3	6,637	2.4	106	2.7	-	784	1.9	-
Opening/closing angle cock	25	0.4	397	0.1	15	0.4	-	20	0.0	-
Operating	240	4.1	14,478	5.2	177	4.5	-	1,345	3.3	5
Pulling pin lifter/operating uncou	38	0.6	1,596	0.6	26	0.7	-	259	0.6	-
Pulling	130	2.2	6,491	2.3	80	2.0	-	1,152	2.9	-
Pushing	44	0.7	1,481	0.5	32	0.8	-	189	0.5	-

**TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2004**

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
Reaching	48	0.8	1,587	0.6	30	0.8	1	478	1.2	-
Removing rail anchors/fasteners	24	0.4	555	0.2	10	0.3	-	357	0.9	-
Repairing	100	1.7	2,715	1.0	48	1.2	-	708	1.8	1
Riding	407	6.9	27,891	10.0	307	7.7	2	1,645	4.1	5
Running	12	0.2	503	0.2	10	0.3	-	3	0.0	-
Sitting	217	3.7	11,946	4.3	146	3.7	-	1,085	2.7	2
Spiking (installation/removal)	68	1.1	1,530	0.6	24	0.6	-	402	1.0	-
Standing	422	7.1	13,111	4.7	205	5.2	1	1,295	3.2	8
Stepping up	46	0.8	2,536	0.9	35	0.9	1	469	1.2	-
Stepping down	172	2.9	10,048	3.6	142	3.6	-	1,537	3.8	-
Stepping over	49	0.8	2,652	1.0	40	1.0	-	563	1.4	-
Uncoupling air hose	6	0.1	236	0.1	4	0.1	-	28	0.1	-
Uncoupling electric cables	6	0.1	277	0.1	5	0.1	-	0	0.0	-
Using hand signals	2	0.0	80	0.0	2	0.1	-	0	0.0	-
Using hand tool	167	2.8	2,951	1.1	67	1.7	-	1,154	2.9	-
Using, other	21	0.4	943	0.3	12	0.3	-	179	0.4	-
Walking	882	14.9	53,488	19.3	684	17.2	1	5,539	13.7	2
Welding (includes field welding)	19	0.3	92	0.0	11	0.3	-	33	0.1	-
Handbrakes, applying	92	1.6	6,181	2.2	75	1.9	1	280	0.7	-
Handbrakes, releasing	68	1.1	4,395	1.6	51	1.3	1	322	0.8	1
Handbrakes, other	2	0.0	39	0.0	2	0.1	-	0	0.0	-
Derail, applying	6	0.1	380	0.1	6	0.2	-	0	0.0	-
Derail, removing	8	0.1	420	0.2	8	0.2	-	92	0.2	-
Derail, other	2	0.0	496	0.2	2	0.1	-	0	0.0	-
Other (Narrative must be provided)	67	1.1	1,361	0.5	41	1.0	-	278	0.7	-
Replacing	45	0.8	1,746	0.6	27	0.7	-	439	1.1	-
Ascending	35	0.6	1,743	0.6	27	0.7	-	3	0.0	-
Descending	95	1.6	6,059	2.2	76	1.9	-	271	0.7	-
Exercising	1	0.0	3	0.0	1	0.0	-	72	0.2	-
Getting in	13	0.2	361	0.1	10	0.3	-	0	0.0	-
Getting out	32	0.5	1,866	0.7	24	0.6	1	424	1.1	-
Hauling	2	0.0	95	0.0	2	0.1	-	3	0.0	-
Moving	34	0.6	1,161	0.4	24	0.6	-	496	1.2	-
Washing	13	0.2	533	0.2	8	0.2	-	47	0.1	1
Servicing	11	0.2	322	0.1	9	0.2	-	26	0.1	-
Sanding	7	0.1	94	0.0	3	0.1	1	198	0.5	-
Arresting/apprehending/subduing	10	0.2	248	0.1	5	0.1	-	167	0.4	-
Stepped on	34	0.6	1,646	0.6	25	0.6	-	210	0.5	-
Lying down	2	0.0	0	0.0	-	-	-	0	0.0	-
<b>Total</b>	<b>5,923</b>	<b>100</b>	<b>277,686</b>	<b>100</b>	<b>3,977</b>	<b>100</b>	<b>22</b>	<b>40,355</b>	<b>100</b>	<b>27</b>

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure



**TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2004**

Event	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Aggravated pre-existing condition	55	0.9	2,697	1.0	37	0.9	-	588	1.5	-
Apprehending/removing from property	5	0.1	109	0.0	2	0.1	-	48	0.1	-
Assaulted by other	38	0.6	1,828	0.7	29	0.7	-	198	0.5	-
Assaulted by coworker	10	0.2	550	0.2	7	0.2	-	0	0.0	-
Bitten/stung by bee, spider, other insect	66	1.1	483	0.2	21	0.5	-	22	0.1	-
Bitten by animal	4	0.1	6	0.0	1	0.0	-	0	0.0	-
Bodily function/sudden movement, e.g., sneez	132	2.2	6,190	2.2	97	2.4	-	924	2.3	-
Caught in/compressed by hand tools	25	0.4	520	0.2	9	0.2	-	288	0.7	-
Caught in/compressed by other machinery	23	0.4	813	0.3	13	0.3	-	178	0.4	-
Caught in/crushed by materials	40	0.7	961	0.3	18	0.5	-	74	0.2	-
Caught in/crushed in excavation, land slide	2	0.0	273	0.1	2	0.1	-	0	0.0	-
Caught in/compressed by powered hand tools	11	0.2	301	0.1	4	0.1	-	184	0.5	-
Cave in, slide, etc.	4	0.1	128	0.0	3	0.1	-	0	0.0	-
Climatic conditions, other (e.g., high wind	9	0.2	162	0.1	3	0.1	-	4	0.0	-
Climatic condition, exposure to environment	14	0.2	247	0.1	9	0.2	-	6	0.0	-
Collision - between on track equipment	101	1.7	7,687	2.8	83	2.1	-	500	1.2	2
Collision/impact - auto, truck, bus, van, e	190	3.2	8,615	3.1	134	3.4	1	879	2.2	-
Defective/malfunctioning equipment	83	1.4	5,272	1.9	57	1.4	-	447	1.1	-
Derailment	85	1.4	8,696	3.1	74	1.9	-	292	0.7	2
Electrical shock due to contact with 3rd ra	1	0.0	1	0.0	1	0.0	-	0	0.0	-
Electrical shock, other (explain in narrati	15	0.3	400	0.1	9	0.2	-	30	0.1	-
Electrical shock from hand tool	1	0.0	15	0.0	1	0.0	-	0	0.0	-
Exposure to fumes - inhalation	95	1.6	2,310	0.8	53	1.3	1	0	0.0	13
Exposure to chemicals - external	23	0.4	429	0.2	12	0.3	-	6	0.0	4
Exposure to poisonous plants	4	0.1	23	0.0	3	0.1	-	0	0.0	-
Exposure to noise over time	141	2.4	0	0.0	-	-	-	0	0.0	-
Exposure to noise - single incident	14	0.2	753	0.3	10	0.3	-	0	0.0	-
Exposure to welding light	5	0.1	7	0.0	3	0.1	-	0	0.0	-
Highway-rail collision/impact	116	2.0	8,759	3.2	95	2.4	-	839	2.1	3
Horseplay, practical joke, etc.	2	0.0	180	0.1	1	0.0	-	0	0.0	-
Lost balance	176	3.0	9,301	3.3	129	3.2	-	1,160	2.9	-
Missed handhold, grabiron, step, etc.	42	0.7	2,901	1.0	28	0.7	1	299	0.7	-
Needle puncture/prick/stick	20	0.3	36	0.0	7	0.2	-	1	0.0	-
Other impacts - on track equipment	19	0.3	1,123	0.4	13	0.3	-	198	0.5	-
Overexertion	886	15.0	51,433	18.5	695	17.5	6	8,718	21.6	-
Pushed/shoved into/against	10	0.2	123	0.0	7	0.2	-	8	0.0	-
Pushed/shoved onto	2	0.0	84	0.0	1	0.0	-	0	0.0	-
Pushed/shoved from	3	0.1	347	0.1	3	0.1	-	10	0.0	-
Ran into on-track equipment	8	0.1	403	0.1	4	0.1	-	2	0.0	-
Ran into object/equipment	11	0.2	740	0.3	8	0.2	-	0	0.0	-
Repetitive motion - work processes	37	0.6	2,442	0.9	27	0.7	-	137	0.3	-
Repetitive motion - typing, keyboard, etc.	4	0.1	0	0.0	-	-	-	1	0.0	-
Repetitive motion - tools	19	0.3	168	0.1	6	0.2	-	374	0.9	-
Repetitive motion - other (describe in narr	21	0.4	377	0.1	7	0.2	-	160	0.4	-
Rubbed, abraded, etc.	24	0.4	40	0.0	8	0.2	-	30	0.1	-

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

**TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2004**

Event	Total		Days Absent		Absent Cases		Term./ Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	Cnt
Shot	1	0.0	180	0.1	1	0.0	-	0	0.0	-
Slack action, draft, compressive buff/coupl	40	0.7	2,790	1.0	32	0.8	-	13	0.0	-
Slipped,fell,stumbled,etc. due to irregular	208	3.5	13,060	4.7	169	4.2	1	1,571	3.9	-
Slipped, fell, stumbled, etc. due to climat	259	4.4	13,943	5.0	195	4.9	1	2,663	6.6	-
Slipped,fell,stumbled,etc. on oil, grease,e	85	1.4	5,451	2.0	68	1.7	-	1,179	2.9	-
Slipped,fell,stumbled,etc. due to object,ba	346	5.8	23,870	8.6	280	7.0	1	2,993	7.4	-
Stabbing, knifing, etc.	6	0.1	92	0.0	1	0.0	-	12	0.0	-
Stepped on object	80	1.4	3,485	1.3	56	1.4	-	694	1.7	-
Struck by thrown or propelled object	101	1.7	1,343	0.5	36	0.9	-	379	0.9	-
Struck by object	289	4.9	7,250	2.6	159	4.0	1	1,390	3.4	1
Struck by on-track equipment	52	0.9	3,669	1.3	36	0.9	-	147	0.4	-
Struck by falling object	144	2.4	6,065	2.2	105	2.6	-	899	2.2	1
Struck against object	228	3.8	4,891	1.8	128	3.2	2	924	2.3	-
Sudden release of air	7	0.1	338	0.1	4	0.1	-	0	0.0	-
Sudden/unexpected movement of material	70	1.2	1,553	0.6	36	0.9	-	1,109	2.7	-
Sudden/unexpected movement of on-track equ	94	1.6	7,333	2.6	71	1.8	1	807	2.0	-
Sudden/unexpected movement of vehicle	58	1.0	3,354	1.2	46	1.2	1	140	0.3	-
Sustained viewing	2	0.0	2	0.0	2	0.1	-	0	0.0	-
Caught, crushed, pinched, other	268	4.5	9,095	3.3	162	4.1	2	2,670	6.6	-
On track equipment, other incidents	19	0.3	1,058	0.4	11	0.3	-	14	0.0	-
Slipped, fell, stumbled, other	417	7.0	25,077	9.0	323	8.1	-	2,712	6.7	-
Sudden, unexpected movement, other	121	2.0	6,546	2.4	91	2.3	1	1,395	3.5	1
Bumped	19	0.3	295	0.1	11	0.3	-	10	0.0	-
Burned	34	0.6	802	0.3	21	0.5	-	189	0.5	-
Blowing/falling debris	63	1.1	87	0.0	20	0.5	-	6	0.0	-
Sudden/Unexpected Movement of tools	60	1.0	795	0.3	19	0.5	-	490	1.2	-
Struck by Own Remote Control Locomotive	1	0.0	0	0.0	-	-	-	0	0.0	-
Struck by Other Remote Control Locomotive	4	0.1	258	0.1	4	0.1	-	0	0.0	-
Caught Between Machinery	5	0.1	77	0.0	3	0.1	-	26	0.1	-
Slack adjustment during switching operation	16	0.3	956	0.3	11	0.3	-	273	0.7	-
Caught Between Equipment	8	0.1	536	0.2	6	0.2	-	4	0.0	-
Caught Between Material	13	0.2	463	0.2	9	0.2	-	141	0.3	-
Other (describe in narrative)	209	3.5	5,039	1.8	127	3.2	2	900	2.2	-
<b>Total</b>	<b>5,923</b>	<b>100</b>	<b>277,686</b>	<b>100</b>	<b>3,977</b>	<b>100</b>	<b>22</b>	<b>40,355</b>	<b>100</b>	<b>27</b>

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

**TABLE 4-6 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY LOCATION, 2004**

Location	Total		Days Absent		Absent Cases		Term./ Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Main/branch	1,826	30.8	94,448	34.0	1,264	31.8	4	11,915	29.5	16
Yard	1,863	31.5	103,767	37.4	1,353	34.0	10	12,750	31.6	7
Siding	157	2.7	8,558	3.1	104	2.6	1	1,344	3.3	1
Industry	276	4.7	11,259	4.1	187	4.7	4	2,171	5.4	2
Repair	133	2.2	3,009	1.1	59	1.5	1	1,640	4.1	-
Break/lunch room	18	0.3	931	0.3	12	0.3	-	33	0.1	1
Freight terminal	21	0.4	1,792	0.6	16	0.4	-	1	0.0	-
Highway/roadway	210	3.5	8,084	2.9	143	3.6	1	985	2.4	-
Loading dock	29	0.5	1,244	0.4	22	0.6	-	210	0.5	-
Lodging facility	2	0.0	4	0.0	1	0.0	-	0	0.0	-
Office environment	112	1.9	2,970	1.1	63	1.6	-	714	1.8	-
Parking lot	60	1.0	2,025	0.7	42	1.1	-	474	1.2	-
Passenger terminal	500	8.4	15,280	5.5	283	7.1	-	2,775	6.9	-
Repair shop	551	9.3	19,759	7.1	328	8.2	-	4,430	11.0	-
Storage facility	43	0.7	704	0.3	20	0.5	-	201	0.5	-
Sidewalk/walkway	22	0.4	1,422	0.5	17	0.4	-	65	0.2	-
Other, (off site location	38	0.6	1,051	0.4	22	0.6	1	126	0.3	-
Other (explain in narrati	18	0.3	302	0.1	12	0.3	-	258	0.6	-
Other location (describe	44	0.7	1,077	0.4	29	0.7	-	263	0.7	-
<b>Total</b>	<b>5,923</b>	<b>100</b>	<b>277,686</b>	<b>100</b>	<b>3,977</b>	<b>100</b>	<b>22</b>	<b>40,355</b>	<b>100</b>	<b>27</b>

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

**TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2004**
**Executives, Officials, and Staff Assistants**

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Executives, officials, and staff assistants (miscellaneous)	-	1	-	0	0
Executives and general officers	-	4	-	4	0
Corporate staff managers	-	10	1	161	0
Regional/division officers, assistants and staff assistants	-	6	1	101	46
Transportation officers/managers	-	3	1	48	0
<b>Total</b>	-	24	3	314	46

**Professional and Administrative**

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Professional and administrative (miscellaneous)	-	10	-	108	51
Professional	-	5	-	95	20
Subprofessionals	-	5	-	2	47
Auditors, traveling auditors or accountants	-	1	-	19	0
General and administrative supervisors	-	5	-	297	0
Sales and traffic representatives and agents	-	11	1	99	0
Freight and other claim agents and investigators	-	2	-	1	0
Lieutenants and sergeants of police	-	6	1	160	2
Police officers, watchmen, guards (except crossing & bridge)	-	28	-	1,242	235
Inspectors, (except MOW & MOE), other investigators, etc	-	5	-	326	0
Buyers, and sales agents	-	2	-	4	0
Clerical technicians and clerical specialists	-	19	2	593	502
Office machine and data equipment operators	-	2	1	60	0
Secretaries, stenographers, and typists	-	6	-	5	89
General/other clerks (except yd clerk and crew dispatcher)	-	46	-	1,534	266
Telephone and switchboard operators	-	1	-	1	0
Building and office attendants	-	30	-	2,098	349
Messengers and office persons	-	4	-	23	12
Motor vehicle operators	-	46	3	1,869	74
<b>Total</b>	-	234	8	8,536	1,647

**TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2004**
**Maintenance of Way and Structures**

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of way and structures (miscellaneous)	-	20	2	215	190
Supervisors, MOW, structures, communication & signals	-	34	-	889	244
MOW, structures, comm. & signals, & scale inspectors	-	25	3	1,222	120
Bridge and building gang foreman	-	16	-	543	3
Bridge and building carpenters	-	39	4	1,446	295
Bridge and building ironworkers	-	13	-	16	67
Bridge and building painters	-	7	-	228	180
Masons, bricklayers, plasterers, and plumbers	-	84	3	2,957	708
Bridge and building helpers and apprentices	-	19	-	795	101
Bridge/building gang and bridge/building dept laborers	-	38	1	736	604
Track gang foremen (extra gang work train laborers)	-	48	3	1,610	116
Gang or section foreman	1	83	-	2,740	778
Extra gang laborers	-	141	3	4,614	1,444
Section laborers	1	246	4	7,797	1,708
Machine operators	1	208	5	9,005	2,152
Gang foremen, communications and signals	-	13	1	539	175
Signalmen and signal maintainers	-	161	3	6,736	1,308
Linemen and groundmen and communications craftsman	-	71	-	2,088	1,008
Assistant signalmen and assistant signal maintainers	-	25	1	532	425
Signal helpers and signal maintainer helpers	-	11	-	384	41
Camp car cooks	-	2	1	215	0
<b>Total</b>	<b>3</b>	<b>1,304</b>	<b>34</b>	<b>45,307</b>	<b>11,667</b>

**Maintenance of Equipment and Stores**

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of equipment and stores (miscellaneous)	-	14	2	218	94
Supervisors and general foremen, maintenance of equipment	-	16	1	197	93
Supervisors and general foremen, materials and stores	-	3	-	101	0
Equipment, shop, electrical inspectors	-	6	1	66	17
Materials and supplies inspectors	-	4	-	0	102
Storekeeper	-	10	-	440	101
Gang foremen, maintenance of equipment	-	14	-	711	179
Blacksmiths	-	2	-	0	3
Boilermakers	-	12	-	336	9
Carmen (freight)	-	213	5	11,275	1,324
Carmen (other)	-	174	2	5,094	2,494
Electrical workers (A)	-	148	1	4,143	1,936
Electrical workers (B)	-	10	-	569	0
Electrical workers (C)	-	1	-	0	1
Machinists	1	217	6	8,708	1,391
Sheet metal workers	-	41	6	1,730	636
Skilled trades, helpers, maintenance of equipment and stores	-	40	-	963	163
Apprentices, maintenance of equipment and stores	-	5	1	85	61
Coach cleaners	-	115	2	6,604	811
Laborers: shops, enginehouses and power plants	-	75	1	3,945	470
Gang foremen, materials and stores	-	1	1	0	0
Equipment operators/general laborers, materials and stores	-	21	1	683	54
Stationary engineers	-	3	-	110	5
<b>Total</b>	<b>1</b>	<b>1,145</b>	<b>30</b>	<b>45,978</b>	<b>9,944</b>

**TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2004**
**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)	-	4	-	68	33
Transportation supervisor and chief train dispatcher	-	1	2	112	0
Train dispatchers	-	12	-	456	0
Station, freight and passenger agents	-	10	-	167	0
Chief operators and wire chiefs	-	-	1	0	0
Clerk operators, towerman, train directors	-	4	2	65	14
Station masters & assts, super bag. agents, bag. agents, etc	-	4	-	207	0
Baggage, parcel room and station attendents	-	26	-	1,144	321
Gen/asst gnrl foremen,stations,warehouses,grain elev., docks	-	2	-	3	1
Gang foreman, stations, warehouses, grain elevators, docks	-	1	-	0	0
Grain elevator, and dock laborers	-	5	-	423	143
Station, and warehouse laborers	-	15	1	660	25
Truckers (station, warehouse and platforms)	-	1	1	180	2
Food and lodging manager, supervisors	-	1	1	5	0
Transportation and dining-service inspectors	-	-	1	0	0
Waiters and kitchen helpers (restaurant and dining car)	-	3	-	0	0
Chefs and cooks (restaurant and dining car)	-	24	1	1,270	109
Marine officers and workers and shore workers	-	3	-	143	0
Train attendants	-	94	5	5,333	1,018
Bridge operators and helpers	1	3	-	248	0
Bridge and crossing flagmen and gatemen	-	2	-	3	3
Yards clerks	-	28	1	1,122	598
Crew dispatchers	-	2	-	92	0
Yardmasters and assistant yardmasters	-	13	-	690	0
<b>Total</b>	<b>1</b>	<b>258</b>	<b>16</b>	<b>12,391</b>	<b>2,267</b>

**TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2004**
**Transportation, Train and Engine**

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, train and engine (miscellaneous)	-	36	4	332	257
Switchtenders	-	14	1	2,417	20
Outside hostlers	-	8	1	515	27
Outside hostler helpers	-	7	-	291	32
Inside hostler	-	1	-	0	7
Road passenger conductors	-	243	30	10,107	1,264
Assistant road passenger conductors and ticket collectors	-	86	24	4,346	269
Road freight conductors (through freight)	5	470	10	35,690	2,795
Road freight conductors (local and way freight)	2	256	3	15,430	1,377
Road passenger baggage person	-	1	-	0	0
Road Passenger brakemen and flagmen	-	16	-	413	98
Road freight brakemen and flagmen (through freight)	-	33	-	2,128	288
Road freight brakemen and flagmen (local and way freight)	4	176	-	10,471	765
Yard conductors and yard foremen	4	289	2	16,839	1,563
Yard brakemen and yard helpers	-	234	-	11,713	1,623
Road passenger engineers and motormen	-	118	51	5,665	1,054
Road freight engineers (through freight)	3	327	7	24,737	1,412
Road freight engineers (local and way freight)	-	138	2	8,163	367
Yard engineers	1	127	2	8,143	618
Road freight firemen and helpers (through freight)	-	2	1	168	0
Yard firemen and helpers	-	-	1	0	0
Remote control locomotive operator -operating	-	46	1	3,214	414
Remote control locomotive operator - not operating	1	74	-	4,378	534
<b>Total</b>	<b>20</b>	<b>2,702</b>	<b>140</b>	<b>165,160</b>	<b>14,784</b>

**TABLE 4-8 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, 2004**

Illness	Total		Kld	Nonfatal	Days Absent	Absent Cases	Term./Trans.	Days Restricted	Hazmat Exp.
	Cnt	%							
Dermatitis	2	0.9	-	2	23	2	-	0	-
Rashes	3	1.3	-	3	8	2	-	0	-
Misc. skin diseases/disorders	1	0.4	-	1	68	1	-	0	-
Acute congestion, dust/gas/etc.	1	0.4	-	1	8	1	-	0	-
Misc. respiratory conditions	1	0.4	-	1	0	-	-	0	-
Poisoning, gases	1	0.4	-	1	24	1	-	0	-
Effects, non-ionizing radiation	1	0.4	-	1	3	1	-	0	-
Heat exhaustion	10	4.3	-	10	243	8	-	1	-
Freezing/frostbite	1	0.4	-	1	0	-	-	0	-
Noise induced hearing loss	141	61.0	-	141	0	-	-	0	-
Synovitis	5	2.2	-	5	124	2	-	1	-
Tenosynovitis	6	2.6	-	6	-50	1	-	4	-
Bursitis	2	0.9	-	2	95	1	-	0	-
Carpal tunnel syndrome	9	3.9	-	9	499	8	-	381	-
Misc. repeated trauma condition	17	7.4	-	17	789	10	-	147	-
Stress related syndromes	17	7.4	-	17	1,396	15	-	35	-
Misc. illnesses, unclassified	3	1.3	-	3	0	-	-	0	-
Emotional trauma/nervous shock	10	4.3	-	10	845	9	-	195	-
<b>Total</b>	<b>231</b>	<b>100</b>	<b>-</b>	<b>231</b>	<b>4,075</b>	<b>62</b>	<b>-</b>	<b>764</b>	<b>-</b>

**TABLE 4-9 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, BY RAILROAD, 2004**

RR	Total		Kld	Nonfatal	Days Absent			Absent Cases		Term./Trans.	Days Restricted			Hazmat Exp.
	Cnt	%			Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.	
ATK	158	68.4	-	158	1,350	33.1	9	16	25.8	-	163	21.3	1	-
BNSF	20	8.7	-	20	1,335	32.8	67	16	25.8	-	191	25.0	10	-
CSX	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
IC	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
ICE	1	0.4	-	1	4	0.1	4	1	1.6	-	0	0.0	0	-
MBTA	1	0.4	-	1	8	0.2	8	1	1.6	-	0	0.0	0	-
MMA	1	0.4	-	1	42	1.0	42	1	1.6	-	67	8.8	67	-
MNCW	1	0.4	-	1	262	6.4	262	1	1.6	-	32	4.2	32	-
MRL	1	0.4	-	1	51	1.3	51	1	1.6	-	0	0.0	0	-
NIRC	1	0.4	-	1	18	0.4	18	1	1.6	-	0	0.0	0	-
NJTR	2	0.9	-	2	7	0.2	4	2	3.2	-	0	0.0	0	-
NS	3	1.3	-	3	111	2.7	37	1	1.6	-	0	0.0	0	-
PATH	1	0.4	-	1	1	0.0	1	1	1.6	-	0	0.0	0	-
SOO	1	0.4	-	1	-68	-1.7	-68	-	-	-	0	0.0	0	-
UP	21	9.1	-	21	707	17.3	34	12	19.4	-	66	8.6	3	-
WC	1	0.4	-	1	180	4.4	180	1	1.6	-	0	0.0	0	-
WSOR	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
XXXX	15	6.5	-	15	67	1.6	4	7	11.3	-	245	32.1	16	-
<b>Tot.</b>	<b>231</b>	<b>100</b>	<b>-</b>	<b>231</b>	<b>4,075</b>	<b>100</b>	<b>18</b>	<b>62</b>	<b>100</b>	<b>-</b>	<b>764</b>	<b>100</b>	<b>3</b>	<b>-</b>

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure



## **CHAPTER 5**

### **TRAIN ACCIDENTS**

Collisions, derailments, fires, explosions, acts of God, or other events involving the operation of railroad on-track equipment (standing or moving) and causing reportable damages greater than the reporting threshold for the year in which the accident/incident occurred must be reported using Form FRA F 6180.54. The reporting threshold for calendar years 1992-1996 was \$6,300. The reporting threshold for calendar year 1998 was \$6,600, and in 2004 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, 2004

Railroad	Total		Type of Accident				Reportable Damage	Casualties		Causes						
	Cnt	%	Coll	Der	HRC	Othr		Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Alton & Southern	16	0.4	2	8	-	6	829,992	-	1	2	-	10	3	-	1	
Alaska RR Corp.	2	0.1	-	1	1	-	113,650	-	-	-	1	-	1	-	-	
Amtrak	151	3.9	7	43	40	61	10,880,158	18	101	35	40	20	14	-	42	
Burlington Northern Santa Fe	706	18.4	46	483	56	121	84,839,807	9	57	92	56	281	97	10	170	
Belt Rwy Of Chicago	26	0.7	4	9	-	13	411,187	-	-	2	-	14	5	2	3	
Conrail Shared Assets	35	0.9	8	22	-	5	1,047,300	-	-	-	-	28	2	3	2	
CSX Transportation	546	14.2	35	385	19	107	39,662,300	7	27	50	19	258	99	5	115	
Delaware & Hudson	13	0.3	-	12	1	-	1,121,862	-	-	-	1	2	4	-	6	
Dakota,Minnesota & Eastern	45	1.2	-	40	3	2	3,201,444	-	4	5	3	3	4	-	30	
Duluth,Missabe & Iron Range	5	0.1	-	5	-	-	387,567	-	-	2	-	-	1	-	2	
Elgin, Joliet & Eastern	17	0.4	1	8	-	8	347,951	-	-	1	-	11	-	2	3	
Florida East Coast	13	0.3	-	10	2	1	1,061,644	1	1	1	2	2	-	-	8	
Guilford Rail System	5	0.1	-	5	-	-	284,734	-	-	2	-	1	-	-	2	
Grand Trunk Western RR	14	0.4	3	8	2	1	1,731,361	-	6	1	2	9	-	-	2	
Illinois Central	41	1.1	3	22	4	12	2,602,905	-	-	6	4	17	3	-	11	
Iowa Chicago & Eastern RR	50	1.3	2	37	-	11	3,034,389	-	-	4	-	17	5	-	24	
Indiana Harbor Belt	28	0.7	7	20	-	1	727,805	-	2	-	-	22	-	-	6	
Kansas City Southern	140	3.6	14	88	15	23	7,372,471	2	16	9	15	65	8	1	42	
Long Island Rail Road	15	0.4	2	6	2	5	5,046,207	1	1	2	2	7	2	-	2	
MD Assn. of Rail Comm	5	0.1	-	1	1	3	566,400	-	1	-	1	-	2	-	2	
Mass Bay Transit Auth.	1	0.0	-	1	-	-	17,546	-	-	-	-	-	-	-	1	
Montreal, Maine & Atlantic	7	0.2	-	6	1	-	350,129	-	-	2	1	-	-	-	4	
Metro North Commuter	59	1.5	2	4	3	50	2,656,960	-	22	21	3	9	13	-	13	
Montana Rail Link	14	0.4	2	9	-	3	2,132,376	-	-	1	-	8	-	-	5	
Northern IN Comm Trans	1	0.0	-	1	-	-	1,041,994	-	-	-	-	1	-	-	-	
Northeast IL Reg Comm	8	0.2	3	3	2	-	286,176	-	20	1	2	3	1	-	1	
New Jersey Transit Rail	49	1.3	2	25	1	21	1,439,923	1	5	10	1	28	2	-	8	
Norfolk Southern Corp.	337	8.8	32	243	22	40	22,219,709	7	14	56	22	101	40	14	104	
Paducah & Louisville	5	0.1	1	4	-	-	2,679,300	-	-	1	-	-	1	-	3	
Port Auth Trans Hudson	2	0.1	-	-	-	2	84,143	-	3	-	-	2	-	-	-	
Peninsula Comm San Mateo Cnty	3	0.1	-	2	1	-	49,930	1	-	1	1	-	-	-	1	
Port Terminal RR Assn	14	0.4	2	5	-	7	314,791	-	-	-	-	12	-	-	2	
Southern CA Reg Rail Auth.	5	0.1	-	1	3	1	145,019	1	-	-	3	-	1	-	1	
Southeastern PA Trans.	12	0.3	-	2	2	8	1,578,230	-	6	6	2	2	1	-	1	
Soo Line	19	0.5	3	9	1	6	1,347,704	-	-	4	1	5	6	-	3	
Texas Mexican	7	0.2	3	3	-	1	328,100	-	-	1	-	3	2	-	1	
Term RR Assn Of St. Louis	9	0.2	1	6	-	2	132,160	-	-	-	-	4	2	-	3	
Union Pacific	1,011	26.4	61	704	73	173	112,318,129	14	60	101	73	363	151	27	296	
Union RR (Pittsburgh)	6	0.2	-	3	-	3	91,762	-	-	-	-	3	-	-	3	
Wisconsin Central Ltd.	20	0.5	1	10	2	7	1,232,250	1	3	2	2	8	3	-	5	
Wheeling & Lake Erie	3	0.1	-	3	-	-	198,193	-	-	-	-	-	-	-	3	
Wisconsin & Southern RR	2	0.1	-	2	-	-	198,900	-	-	-	-	-	-	-	2	
Other Railroads	369	9.6	12	308	11	38	20,074,864	2	21	28	11	109	33	2	186	

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

TABLE 5-2 TRAIN ACCIDENTS BY STATE, TYPE AND MAJOR CAUSE, 2004

State	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Accs	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Alabama	81	2.3	8	59	3	11	5,898,832	1.8	-	4	11	3	27	11	2	27
Alaska	3	0.1	-	1	1	1	2,113,650	0.6	-	-	1	1	-	1	-	-
Arizona	38	1.1	1	29	-	8	1,685,108	0.5	-	1	7	-	16	5	-	10
Arkansas	118	3.4	9	72	12	25	7,609,715	2.3	-	9	12	12	29	17	3	45
California	201	5.7	12	132	27	30	23,495,949	7.0	9	28	20	27	84	32	1	37
Colorado	63	1.8	4	45	3	11	7,562,695	2.2	-	6	2	3	33	8	-	17
Connecticut	37	1.1	1	3	3	30	1,249,117	0.4	3	9	10	3	5	7	-	12
Delaware	9	0.3	1	5	-	3	176,777	0.1	-	-	1	-	3	-	-	5
Dist Of Columbi	8	0.2	2	4	-	2	909,544	0.3	-	1	2	-	1	1	-	4
Florida	64	1.8	4	45	6	9	4,831,501	1.4	4	4	3	6	30	7	-	18
Georgia	88	2.5	7	58	6	17	6,971,799	2.1	6	8	10	6	36	20	-	16
Idaho	26	0.7	-	22	2	2	3,663,621	1.1	-	1	4	2	8	4	-	8
Illinois	275	7.8	33	159	9	74	14,471,417	4.3	3	40	25	9	144	36	4	57
Indiana	85	2.4	6	47	7	25	6,123,739	1.8	4	4	13	7	35	14	5	11
Iowa	109	3.1	4	84	5	16	8,862,706	2.6	2	4	9	5	37	16	-	42
Kansas	109	3.1	4	89	5	11	16,574,496	4.9	1	12	14	5	34	12	1	43
Kentucky	71	2.0	2	54	2	13	7,695,719	2.3	1	3	9	2	21	14	1	24
Louisiana	114	3.2	12	70	17	15	6,068,927	1.8	4	9	7	17	44	12	-	34
Maine	9	0.3	-	8	1	-	481,881	0.1	-	-	2	1	1	-	-	5
Maryland	45	1.3	1	30	4	10	3,882,175	1.2	-	4	3	4	13	11	-	14
Massachusetts	28	0.8	1	18	-	9	849,670	0.3	-	1	8	-	10	2	1	7
Michigan	34	1.0	3	19	5	7	1,665,000	0.5	-	8	4	5	18	1	-	6
Minnesota	81	2.3	3	56	11	11	6,627,834	2.0	2	8	12	11	23	7	1	27
Mississippi	65	1.8	3	40	9	13	11,141,158	3.3	1	51	6	9	23	8	1	18
Missouri	88	2.5	9	62	4	13	5,595,050	1.7	-	8	10	4	31	13	-	30
Montana	35	1.0	4	23	1	7	7,167,224	2.1	-	5	3	1	14	3	-	14
Nebraska	130	3.7	8	86	8	28	31,266,973	9.3	2	11	20	8	47	20	11	24
Nevada	17	0.5	-	15	-	2	1,684,247	0.5	-	-	2	-	8	2	-	5
New Hampshire	1	0.0	-	-	-	1	25,000	0.0	-	-	-	-	1	-	-	-
New Jersey	91	2.6	11	44	2	34	2,689,036	0.8	1	9	11	2	53	7	3	15
New Mexico	36	1.0	1	21	4	10	3,120,844	0.9	2	5	6	4	16	4	-	6
New York	109	3.1	9	55	6	39	12,425,403	3.7	2	30	21	6	38	20	-	24
North Carolina	40	1.1	2	27	2	9	3,656,173	1.1	3	2	7	2	20	2	-	9
North Dakota	17	0.5	-	16	-	1	6,751,478	2.0	-	-	3	-	3	1	-	10
Ohio	117	3.3	5	86	4	22	4,757,261	1.4	1	10	15	4	45	15	4	34
Oklahoma	68	1.9	2	56	6	4	11,092,415	3.3	1	6	6	6	16	10	-	30
Oregon	91	2.6	2	75	2	12	6,564,603	2.0	1	1	5	2	29	12	2	41
Pennsylvania	145	4.1	9	107	4	25	9,231,507	2.7	-	10	18	4	45	16	6	56
Rhode Island	8	0.2	-	1	-	7	431,756	0.1	-	1	5	-	1	1	-	1
South Carolina	36	1.0	4	23	-	9	4,575,651	1.4	-	6	1	-	24	4	-	7
South Dakota	35	1.0	-	30	2	3	2,232,252	0.7	-	3	5	2	3	5	-	20
Tennessee	70	2.0	6	53	3	8	5,337,580	1.6	-	4	12	3	23	15	3	14
Texas	375	10.7	32	256	28	59	44,178,979	13.1	9	36	24	28	155	45	10	113
Utah	30	0.9	3	20	1	6	3,877,386	1.2	-	2	2	1	15	4	1	7
Vermont	5	0.1	-	4	-	1	893,850	0.3	-	-	-	-	2	1	-	2
Virginia	42	1.2	4	29	2	7	5,662,837	1.7	1	2	6	2	13	6	2	13
Washington	67	1.9	4	48	-	15	4,219,513	1.3	1	4	13	-	24	10	2	18
West Virginia	27	0.8	-	24	2	1	1,344,438	0.4	-	-	8	2	4	5	-	8
Wisconsin	30	0.9	-	20	3	7	1,763,331	0.5	1	-	7	3	6	4	1	9
Wyoming	47	1.3	1	37	-	9	5,031,605	1.5	-	1	11	-	18	5	-	13
Total	3,518	100	237	2,367	222	692	336,189,422	100.0	65	371	416	222	1,329	476	65	1,010

**TABLE 5-3 TRAIN ACCIDENTS BY MONTH, TYPE AND MAJOR CAUSE, 2004**

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
January	296	8.4	14	192	28	62	33,183,680	9.9	8	27	42	28	104	38	4	80
February	303	8.6	21	206	16	60	33,228,337	9.9	3	24	44	16	101	43	8	91
March	290	8.2	20	191	18	61	28,893,458	8.6	2	42	34	18	119	35	6	78
April	260	7.4	19	176	9	56	26,136,271	7.8	1	46	33	9	93	45	5	75
May	302	8.6	25	199	21	57	23,748,170	7.1	4	28	43	21	122	39	6	71
June	333	9.5	18	237	18	60	27,707,774	8.2	10	32	30	18	115	53	5	112
July	284	8.1	18	199	15	52	24,429,272	7.3	3	21	23	15	98	47	8	93
August	304	8.6	23	195	21	65	28,337,988	8.4	9	33	43	21	129	35	4	72
September	272	7.7	16	172	23	61	27,060,319	8.0	5	45	24	23	123	36	3	63
October	290	8.2	17	198	13	62	37,104,614	11.0	4	18	35	13	118	40	8	76
November	268	7.6	22	182	21	43	25,017,691	7.4	5	26	37	21	98	22	4	86
December	316	9.0	24	220	19	53	21,341,848	6.3	11	29	28	19	109	43	4	113
Total	3,518	100	237	2,367	222	692	336,189,422	100.0	65	371	416	222	1,329	476	65	1,010

**TABLE 5-4 TRAIN ACCIDENTS BY DAY, TYPE AND MAJOR CAUSE, 2004**

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Sunday	437	12.4	46	289	13	89	50,947,263	15.2	2	22	56	13	174	76	9	109	
Monday	494	14.0	35	323	41	95	58,075,033	17.3	16	73	53	41	186	53	5	156	
Tuesday	489	13.9	22	334	41	92	44,472,176	13.2	10	81	62	41	175	59	9	143	
Wednesday	545	15.5	37	355	44	109	39,145,316	11.6	11	51	51	44	213	76	8	153	
Thursday	550	15.6	33	385	20	112	41,531,642	12.4	7	34	54	20	215	80	11	170	
Friday	532	15.1	38	354	42	98	50,319,464	15.0	10	75	82	42	184	64	11	149	
Saturday	471	13.4	26	327	21	97	51,698,528	15.4	9	35	58	21	182	68	12	130	
Total	3,518	100	237	2,367	222	692	336,189,422	100.0	65	371	416	222	1,329	476	65	1,010	

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



**TABLE 5-5 TRAIN ACCIDENTS BY TIME OF DAY, TYPE AND MAJOR CAUSE, 2004**

Time	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
<b>AM 1</b>	150	4.3	9	109	3	29	14,514,637	4.3	1	8	15	3	66	14	5	47
<b>2</b>	151	4.3	16	94	3	38	16,196,035	4.8	1	23	17	3	70	21	5	35
<b>3</b>	121	3.4	12	80	1	28	11,142,936	3.3	2	13	11	1	56	24	5	24
<b>4</b>	126	3.6	12	92	-	22	15,473,554	4.6	-	3	21	-	55	25	1	24
<b>5</b>	135	3.8	17	85	6	27	19,848,947	5.9	7	12	15	6	61	15	2	36
<b>6</b>	121	3.4	9	81	7	24	15,346,809	4.6	2	6	18	7	54	9	1	32
<b>7</b>	118	3.4	12	69	12	25	11,140,768	3.3	3	25	15	12	35	18	3	35
<b>8</b>	115	3.3	8	72	18	17	14,090,209	4.2	4	40	11	18	40	9	2	35
<b>9</b>	157	4.5	8	89	18	42	16,618,285	4.9	3	36	20	18	53	19	2	45
<b>10</b>	181	5.1	7	110	31	33	8,611,081	2.6	6	21	12	31	58	35	3	42
<b>11</b>	173	4.9	7	112	18	36	10,806,670	3.2	2	15	22	18	58	17	3	55
<b>12</b>	133	3.8	12	93	6	22	13,961,885	4.2	2	7	14	6	56	21	2	34
<b>Sub</b>	1,681	47.8	129	1,086	123	343	167,751,816	49.9	33	209	191	123	662	227	34	444
<b>PM 1</b>	158	4.5	13	112	10	23	11,932,391	3.5	3	16	16	10	65	21	2	44
<b>2</b>	160	4.5	7	108	16	29	12,796,387	3.8	3	12	21	16	48	14	3	58
<b>3</b>	151	4.3	9	99	14	29	13,734,512	4.1	8	11	21	14	37	21	1	57
<b>4</b>	137	3.9	3	110	7	17	11,668,803	3.5	3	4	18	7	49	17	1	45
<b>5</b>	165	4.7	13	115	10	27	13,754,835	4.1	3	15	14	10	66	22	3	50
<b>6</b>	172	4.9	10	118	9	35	20,159,808	6.0	3	45	23	9	62	22	2	54
<b>7</b>	180	5.1	12	122	5	41	18,533,658	5.5	-	11	19	5	75	23	5	53
<b>8</b>	172	4.9	9	119	4	40	11,469,127	3.4	1	5	26	4	74	22	3	43
<b>9</b>	153	4.3	15	105	3	30	10,702,838	3.2	1	6	18	3	56	36	4	36
<b>10</b>	120	3.4	8	80	4	28	9,740,823	2.9	-	6	10	4	47	20	4	35
<b>11</b>	132	3.8	4	102	3	23	17,688,853	5.3	3	16	20	3	52	17	-	40
<b>12</b>	137	3.9	5	91	14	27	16,255,571	4.8	4	15	19	14	36	14	3	51
<b>Sub</b>	1,837	52.2	108	1,281	99	349	168,437,606	50.1	32	162	225	99	667	249	31	566
<b>Total</b>	3,518	100	237	2,367	222	692	336,189,422	100	65	371	416	222	1,329	476	65	1,010

**TABLE 5-6 TRAIN ACCIDENTS BY TYPE AND MAJOR CAUSE, 2004**

Type Accident	Total		Reportable Damage		Casualties		Causes					
	Cnt	%	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
<b>Derailments</b>	2,367	67.3	257,669,474	76.6	2	94	306	-	736	321	39	965
<b>Head on collision</b>	10	0.3	6,360,820	1.9	3	23	1	-	8	1	-	-
<b>Rear end collision</b>	17	0.5	1,854,294	0.6	-	9	-	-	17	-	-	-
<b>Side collision</b>	151	4.3	21,879,575	6.5	5	35	4	-	135	8	2	2
<b>Raking collision</b>	51	1.4	3,440,917	1.0	-	6	1	-	42	6	-	2
<b>Broken train coll.</b>	8	0.2	442,757	0.1	-	2	4	-	3	-	-	1
<b>Highway-rail Impact</b>	222	6.3	13,817,035	4.1	52	142	-	222	-	-	-	-
<b>Obstruction impact</b>	68	1.9	3,636,118	1.1	2	11	7	-	14	44	-	3
<b>Explosion/detonation</b>	1	0.0	46,960	0.0	-	-	-	-	-	-	-	1
<b>Fire/violent rupture</b>	18	0.5	1,930,808	0.6	-	6	13	-	-	5	-	-
<b>Other impacts</b>	446	12.7	16,719,132	5.0	1	41	13	-	342	61	23	7
<b>Other events</b>	159	4.5	8,391,532	2.5	-	2	67	-	32	30	1	29
<b>Total</b>	3,518	100	336,189,422	100	65	371	416	222	1,329	476	65	1,010

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

**TABLE 5-7 TRAIN ACCIDENTS BY SUBCAUSE AND TYPE, 2004**

Causes	Total		Type of Accident				Reportable Damage		Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal
Brakes	33	0.9	3	25	-	5	2,956,869	0.9	-	5
Trailer/Container on Flatcar	1	0.0	-	1	-	-	20,969	0.0	-	-
Body	36	1.0	2	23	-	11	2,640,783	0.8	-	1
Coupler & Draft System	42	1.2	4	29	-	9	4,919,305	1.5	-	-
Truck Components	78	2.2	1	74	-	3	13,254,419	3.9	-	2
Axles & Journal Bearings	79	2.2	-	71	-	8	21,165,208	6.3	-	-
Wheels	79	2.2	-	74	-	5	11,116,786	3.3	-	5
Locomotives	51	1.4	-	3	-	48	1,270,165	0.4	-	1
Doors	7	0.2	-	5	-	2	567,505	0.2	-	-
Other Mechanical	10	0.3	-	1	-	9	319,278	0.1	-	7
Brakes, Use of	142	4.0	23	52	-	67	5,236,048	1.6	-	7
Employee Physical Condition	2	0.1	1	1	-	-	2,073,143	0.6	2	-
Flagging, Fixed, Hand & Radio	47	1.3	19	17	-	11	14,859,462	4.4	4	41
General Switching Rules	501	14.2	91	198	-	212	21,522,540	6.4	-	21
Main Track Authority	32	0.9	14	6	-	12	6,620,416	2.0	1	18
Train Handling/Makeup	173	4.9	3	164	-	6	13,413,534	4.0	-	3
Speed	87	2.5	27	34	-	26	6,836,591	2.0	-	15
Switches, Use of	314	8.9	22	251	-	41	13,759,079	4.1	-	14
Miscellaneous Human Factors	31	0.9	5	13	-	13	4,119,726	1.2	-	2
Environmental Conditions	59	1.7	1	42	-	16	14,105,344	4.2	-	8
Loading Procedures	41	1.2	1	36	-	4	6,076,148	1.8	-	1
Highway-Rail Incidents	222	6.3	-	-	222	-	13,817,035	4.1	52	142
Unusual Operational Situations	234	6.7	4	143	-	87	15,061,153	4.5	1	10
Other Miscellaneous Causes	142	4.0	9	100	-	33	13,489,095	4.0	3	6
Signal Defects	65	1.8	2	39	-	24	2,288,206	0.7	-	-
Roadbed	38	1.1	-	36	-	2	3,251,123	1.0	-	-
Track Geometry	380	10.8	4	373	-	3	36,854,602	11.0	1	48
Rail, Joint Bar & Anchors	336	9.6	-	335	-	1	70,063,976	20.8	1	11
Frogs, Switches, Appliances	216	6.1	1	212	-	3	11,300,664	3.4	-	3
Other Track Defects	40	1.1	-	9	-	31	3,210,250	1.0	-	-
<b>Total</b>	<b>3,518</b>	<b>100</b>	<b>237</b>	<b>2,367</b>	<b>222</b>	<b>692</b>	<b>336,189,422</b>	<b>100.0</b>	<b>65</b>	<b>371</b>

**TABLE 5-8 TRAIN ACCIDENTS WITH CONTRIBUTING CAUSE, 2004**

Contributing Cause	Total		Type of Accident				Type of Track				
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry	Other
Brakes	10	2.4	3	7	-	-	3	6	-	1	-
Trailer/Container on Flatcar	1	0.2	-	-	-	1	1	-	-	-	-
Coupler & Draft System	5	1.2	1	2	-	2	2	3	-	-	-
Truck Components	11	2.6	-	10	-	1	6	5	-	-	-
Axles & Journal Bearings	4	0.9	-	4	-	-	4	-	-	-	-
Wheels	15	3.5	-	15	-	-	9	3	2	1	-
Locomotives	2	0.5	-	-	-	2	2	-	-	-	-
Other Mechanical	1	0.2	-	1	-	-	1	-	-	-	-
Brakes, Use of	12	2.8	1	3	-	8	1	8	2	1	-
Employee Physical Condition	6	1.4	5	-	-	1	4	2	-	-	-
Flagging, Fixed, Hand & Radio	6	1.4	1	3	-	2	2	4	-	-	-
General Switching Rules	65	15.4	10	28	-	27	5	49	2	7	2
Main Track Authority	3	0.7	1	1	-	1	-	2	1	-	-
Train Handling/Makeup	34	8.0	1	32	-	1	16	14	2	2	-
Speed	19	4.5	6	11	-	2	8	10	-	1	-
Switches, Use of	33	7.8	3	22	-	8	2	25	4	2	-
Miscellaneous Human Factors	4	0.9	-	2	-	2	1	1	-	2	-
Environmental Conditions	9	2.1	-	5	-	4	8	-	-	1	-
Loading Procedures	9	2.1	1	7	-	1	6	1	-	2	-
Highway-Rail Incidents	19	4.5	-	-	19	-	19	-	-	-	-
Unusual Operational Situations	15	3.5	-	10	1	4	6	8	-	1	-
Other Miscellaneous Causes	22	5.2	-	18	-	4	3	6	-	13	-
Roadbed	16	3.8	-	15	-	1	7	2	1	6	-
Track Geometry	48	11.3	-	47	-	1	23	17	3	5	-
Rail, Joint Bar & Anchors	19	4.5	-	19	-	-	11	5	-	3	-
Frogs, Switches, Appliances	29	6.9	-	29	-	-	5	20	-	4	-
Other Track Defects	6	1.4	-	3	-	3	3	3	-	-	-
<b>Total</b>	<b>423</b>	<b>100</b>	<b>33</b>	<b>294</b>	<b>20</b>	<b>76</b>	<b>158</b>	<b>194</b>	<b>17</b>	<b>52</b>	<b>2</b>

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004

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	-	2	-	-	1	1	122,980	-	-
Failure to secure engine- rr empl	13	0.4	4	4	5	1	12	-	414,937	-	-
Fail to secure car hnd brk -rr emp	42	1.2	3	10	29	3	35	4	851,249	-	-
Fail to release hand brk - rr emp	7	0.2	-	5	2	3	4	-	979,711	-	-
Fail to apply suff. hand brakes -rr emp	40	1.1	9	13	18	1	35	4	1,357,898	-	1
Fail to apply car hnd brks -rr emp	25	0.7	5	12	8	4	16	5	801,706	-	3
Fail to secure equip - not rr emp	3	0.1	1	1	1	1	1	1	233,087	-	3
Fail to ctrl car spd use hnd brk-r emp	2	0.1	-	1	1	-	1	1	109,084	-	-
Use of brakes, other	8	0.2	1	4	3	-	6	2	365,396	-	-
Impairment because of drugs or alcohol	1	0.0	1	-	-	1	-	-	1,718,143	2	-
Employee asleep	1	0.0	-	1	-	1	-	-	355,000	-	-
Absence of fixed signal (Blue Signal)	2	0.1	-	-	2	-	2	-	150,216	-	-
Flagging, improper or failure to flag	3	0.1	-	-	3	2	1	-	100,694	1	5
Radio communication, failure to comply	8	0.2	1	5	2	-	4	4	178,735	1	1
Radio communication, improper	4	0.1	1	1	2	1	3	-	75,136	-	-
Radio comm., failure to give/receive	3	0.1	1	2	-	-	3	-	63,496	-	-
Failure to comply with failed equipment detector warning or with applicable train inspection rules.	4	0.1	-	4	-	3	1	-	1,087,068	-	-
Fixed signal (other than automatic block or interlocking signal), improperly displayed.	1	0.0	-	1	-	1	-	-	15,200	-	-
Fixed signal (other than automatic block or interlocking signal), failure to comply.	6	0.2	3	1	2	2	3	1	621,911	-	1
Automatic block or interlocking signal displaying a stop indication - failure to comply.*	11	0.3	10	1	-	10	1	-	11,851,420	2	12
Automatic block or interlocking signal displaying other than a stop indication - failure to comply.*	5	0.1	3	2	-	5	-	-	565,586	-	22
Other signal causes	-	-	-	-	-	-	-	-	150,000	-	-
Car(s) shoved out & left out of clear	15	0.4	1	1	13	-	14	1	263,426	-	-
Cars left foul	46	1.3	5	6	35	6	35	5	1,356,495	-	1
Derail, failure to apply or remove	36	1.0	-	35	1	-	28	8	845,149	-	1
Instruction to trn/yd crew improper	18	0.5	3	9	6	-	17	1	538,852	-	-
Shoving movement, absence of man	170	4.8	38	71	61	8	132	30	6,703,543	-	2
Shoving movement, failure to control	66	1.9	22	9	35	7	56	3	7,745,822	-	14
Skate, failure to remove or place	7	0.2	3	4	-	-	7	-	104,029	-	-
Failure to stretch cars before shoving	11	0.3	1	5	5	-	11	-	547,219	-	3
Failure to couple	24	0.7	2	8	14	2	20	2	719,233	-	-
Moving cars-load ramp,etc, not in pos	2	0.1	-	1	1	-	-	2	33,041	-	-
Passed couplers	37	1.1	2	30	5	1	33	3	694,433	-	-
Retarder, improper manual operation	9	0.3	3	2	4	-	8	1	151,012	-	-
Retarder yard skate improperly applied	1	0.0	-	1	-	-	1	-	80,189	-	-
Manual intervention of classification yard automatic control system modes by operator	5	0.1	-	3	2	-	5	-	133,470	-	-
Humping or cutting off in motion equipment susceptible to damage, or to cause damage to other equipment	2	0.1	2	-	-	-	2	-	40,469	-	-
Kicking or dropping cars, inadequate precautions	30	0.9	5	6	19	1	28	1	713,884	-	-
Other general switching rules	22	0.6	4	7	11	-	20	2	852,274	-	-
Failure to stop train in clear	9	0.3	5	2	2	3	5	1	1,753,418	-	5
Motor car/on-trk rules, fail to comply	4	0.1	-	1	3	4	-	-	273,999	-	1
Movement without authority - rr emp	4	0.1	2	-	2	-	4	-	100,004	-	-

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004

MAJOR CAUSE= Human Factors

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Fail to comply with trn order, etc.	9	0.3	6	2	1	6	-	3	3,462,956	1	9
Trn orders, trk warrants, radio error	2	0.1	-	-	2	2	-	-	112,449	-	1
Trn orders, trk warrants, written err	2	0.1	-	-	2	2	-	-	83,800	-	-
Other main track authority causes	2	0.1	1	1	-	2	-	-	833,790	-	2
Improper train make-up at init term	7	0.2	-	7	-	4	3	-	531,397	-	-
Improper placement of cars in train	2	0.1	-	2	-	2	-	-	1,075,306	-	-
Buff/slack action excess, trn handling	58	1.6	-	57	1	22	33	3	4,197,315	-	1
Buff/slack action excess, trn make-up	17	0.5	-	16	1	6	10	1	1,013,866	-	-
Lat DB force on curve xcess trn hndlng	10	0.3	-	10	-	3	7	-	764,175	-	-
Lat DB force on curve excess, make-up	6	0.2	-	6	-	1	4	1	275,712	-	-
Lat drawbar force-short/long car combo	5	0.1	-	5	-	-	4	1	147,287	-	-
Improper train make-up	3	0.1	-	3	-	1	1	1	313,916	-	-
Improper train inspection	2	0.1	-	2	-	2	-	-	234,988	-	-
Automatic brake, insufficient	2	0.1	1	1	-	-	2	-	82,343	-	-
Automatic brake, excessive	3	0.1	-	3	-	2	1	-	54,451	-	-
Automatic brake, other improper use	1	0.0	-	1	-	1	-	-	382,000	-	2
Fail to allow air brks to release	6	0.2	-	5	1	-	6	-	195,025	-	-
Fail to cut-out brake valves-loco	1	0.0	-	1	-	-	1	-	12,294	-	-
Dynamic brake, excessive	3	0.1	-	3	-	1	1	1	196,429	-	-
Dynamic brake, too rapid adjustment	5	0.1	-	4	1	2	2	1	1,374,286	-	-
Dynamic brake, other improper use	1	0.0	-	1	-	1	-	-	16,900	-	-
Throttle (power), improper use	5	0.1	-	5	-	1	4	-	162,519	-	-
Throttle (power), too rapid adjustment	1	0.0	-	1	-	1	-	-	24,806	-	-
Excessive horsepower	10	0.3	-	10	-	3	4	3	302,356	-	-
Independent brake, improper use	16	0.5	-	16	-	7	7	2	985,238	-	-
Failure to actuate off independent brk	2	0.1	1	1	-	1	1	-	202,177	-	-
Other train handling/makeup	7	0.2	1	4	2	1	4	2	868,748	-	-
Coupling speed excessive	18	0.5	-	10	8	1	17	-	451,007	-	1
Switch movement, excessive speed	10	0.3	1	5	4	1	9	-	188,250	-	-
Train inside yard limits, excess speed	1	0.0	-	1	-	1	-	-	9,500	-	-
Train outside yd limits, excess speed	4	0.1	-	4	-	4	-	-	2,955,847	-	-
Failure to comply with restricted speed	12	0.3	8	1	3	6	4	2	1,158,067	-	3
Train outside yd limits(nonblk),exc spd	3	0.1	1	2	-	2	1	-	434,217	-	-
Failure to comply with restricted speed or its equivalent not in connection with a block or interlocking signal.	35	1.0	16	8	11	4	28	3	1,540,201	-	11
Speed, other	4	0.1	1	3	-	1	3	-	99,502	-	-
Spring Swtch not clear before reverse	6	0.2	-	5	1	2	3	1	332,393	-	-
Switch improperly lined	216	6.1	22	159	35	17	175	24	7,931,666	-	9
Switch not latched or locked	24	0.7	-	24	-	1	19	4	913,150	-	-
Switch previously run through	63	1.8	-	58	5	13	44	6	4,414,079	-	5
Moveable point trk frog improper lined	-	-	-	-	-	-	-	-	4,088	-	-
Switch improperly lined, radio controlled	1	0.0	-	1	-	-	1	-	15,000	-	-
Use of switches, other	4	0.1	-	4	-	2	2	-	148,703	-	-
Human factors - track	4	0.1	-	3	1	2	1	1	419,419	-	-
Human factors - signal	1	0.0	-	1	-	1	-	-	13,413	-	-
Human factors -motive power & equipment	7	0.2	1	3	3	2	5	-	407,461	-	-
Oversized loads or Excess Height/Width cars, mis-routed or switched.	4	0.1	3	-	1	3	1	-	90,240	-	-
Motor car or other on-track equipment rules (other than main track authority) - Failure to Comply.	4	0.1	-	1	3	3	-	1	53,440	-	1
Other train operation/human factors	11	0.3	1	5	5	4	6	1	3,135,753	-	1
<b>Total</b>	<b>1,329</b>	<b>37.8</b>	<b>205</b>	<b>736</b>	<b>388</b>	<b>215</b>	<b>969</b>	<b>145</b>	<b>88,440,539</b>	<b>7</b>	<b>121</b>

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004

## MAJOR CAUSE= Signal Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Classyard autocontrol sys switch fail	8	0.2	-	6	2	-	8	-	326,592	-	-
Class yd auto ctrl sys retarder fail	26	0.7	2	10	14	-	26	-	814,125	-	-
Power device interlocking failure	2	0.1	-	2	-	1	1	-	78,023	-	-
Power switch failure	12	0.3	-	10	2	2	9	1	426,376	-	-
Radio communication equipment failure	1	0.0	-	1	-	-	-	1	12,855	-	-
Other communication equipment failure	1	0.0	-	-	1	-	1	-	28,731	-	-
Classification yard automatic control system - Inadequate/insufficient control	7	0.2	-	4	3	-	7	-	219,737	-	-
Other signal failures	7	0.2	-	5	2	2	4	1	338,767	-	-
Remote control transmitter, loss of communication.	1	0.0	-	1	-	-	1	-	23,000	-	-
Radio controlled switch communication failure	-	-	-	-	-	-	-	-	20,000	-	-
<b>Total</b>	65	1.8	2	39	24	5	57	3	2,288,206	-	-

## 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	26	0.7	-	26	-	5	12	9	1,260,199	-	-
Washout/rain/slide/etc. dmg -track	8	0.2	-	6	2	5	1	2	249,762	-	-
Other roadbed defects	4	0.1	-	4	-	3	-	1	1,741,162	-	-
Cross level of track irregular(joints)	29	0.8	-	28	1	14	9	6	1,628,909	-	-
Cross level track irreg.(not at joints)	33	0.9	2	31	-	23	6	4	2,889,253	-	2
Deviate frm uniform top of rail profile	2	0.1	-	2	-	1	1	-	578,872	-	-
Superelevation improper, excessive,etc.	4	0.1	-	4	-	1	3	-	136,479	-	-
Trk alignmnt irreg-not buckled/sunkink	11	0.3	-	11	-	6	4	1	1,442,147	-	-
Track alignment irreg(buckled/sunkink)	22	0.6	-	22	-	19	1	2	3,529,848	-	-
Wide gage(defective/missing crossties)	228	6.5	-	228	-	40	129	59	9,981,675	-	9
Wide gage(spikes/other rail fasteners)	21	0.6	-	20	1	8	9	4	6,613,342	-	1
Wide gage(loose,broke, etc, gage rods)	5	0.1	-	5	-	1	3	1	200,776	-	-
Wide gage (due to worn rails)	11	0.3	-	11	-	2	8	1	711,332	-	1
Other track geometry defects	14	0.4	2	11	1	7	6	1	9,141,969	1	35
Bolt hole crack or break	10	0.3	-	10	-	8	1	1	9,540,222	-	3
Broken base of rail	40	1.1	-	40	-	18	18	4	2,772,693	-	-
Broken weld (plant)	2	0.1	-	2	-	2	-	-	527,846	-	-
Broken weld (field)	7	0.2	-	7	-	6	1	-	4,942,059	-	-
Defective or missing crossties	13	0.4	-	13	-	4	6	3	1,178,379	-	-
Defect/missing spike-oth rail fastener	2	0.1	-	2	-	-	2	-	128,003	-	-
Detail fracture - shelling/head check	46	1.3	-	46	-	25	17	4	15,328,436	1	1
Engine burn fracture	1	0.0	-	1	-	1	-	-	16,901	-	-
Head and web sep(outside jt bar limit)	39	1.1	-	39	-	18	11	10	4,626,790	-	-
Head & web separation-in jt bar limit	6	0.2	-	6	-	3	2	1	1,827,173	-	-
Horizontal split head	6	0.2	-	5	1	2	3	1	1,178,942	-	-
Joint bar broken (compromise)	1	0.0	-	1	-	1	-	-	69,591	-	-
Joint bar broken (insulated)	6	0.2	-	6	-	4	1	1	5,247,456	-	-
Joint bar broken (noninsulated)	10	0.3	-	10	-	6	1	3	1,451,405	-	-
Joint bolts, broken, or missing	4	0.1	-	4	-	1	3	-	121,021	-	-

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004

## MAJOR CAUSE= Track Defects

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Mismatched rail-head contour	10	0.3	-	10	-	2	4	4	199,498	-	-
Transverse/compound fissure	73	2.1	-	73	-	29	34	10	14,083,315	-	3
Vertical split head	39	1.1	-	39	-	17	16	6	2,520,099	-	1
Worn rail	7	0.2	-	7	-	2	3	2	388,996	-	-
Rail Condition - Dry rail, freshly ground rail.	-	-	-	-	-	-	-	-	9,750	-	-
Other rail and joint bar defects	14	0.4	-	14	-	6	7	1	3,905,401	-	3
Derail, defective	1	0.0	-	1	-	-	-	1	60,567	-	-
Guard rail loose/broken or mislocated	3	0.1	-	3	-	1	2	-	122,767	-	-
Railroad crossing frog, worn or broken	1	0.0	-	1	-	-	1	-	26,016	-	-
Retarder worn, broken, malfunctioning	2	0.1	-	2	-	-	2	-	30,935	-	-
Retarder yard skate defective	2	0.1	-	-	2	-	2	-	99,033	-	-
Spring/power swtch mech. malfunction	2	0.1	-	2	-	-	2	-	21,172	-	-
Stock rail worn, broken, disconnected	11	0.3	-	11	-	5	6	-	816,077	-	-
Switch (hand op) stand mechanism defect	7	0.2	-	7	-	-	6	1	230,077	-	-
Swtch connect/operate rod broke/defect	4	0.1	-	4	-	-	1	3	200,057	-	-
Switch damaged or out of adjustment	31	0.9	-	30	1	1	21	9	985,335	-	-
Switch lug/crank broken	1	0.0	-	1	-	1	-	-	11,200	-	-
Switch out of adj. insuff. anchoring	4	0.1	-	4	-	2	2	-	204,960	-	-
Switch point worn or broken	93	2.6	1	92	-	15	57	21	5,680,248	-	1
Switch rod worn, bent, broken, etc.	3	0.1	-	3	-	-	1	2	54,400	-	-
Turnout frog (rigid) worn, or broken	1	0.0	-	1	-	1	-	-	79,443	-	-
Turnout frog(self guarded)-worn/broken	2	0.1	-	2	-	-	1	1	56,702	-	-
Turnout frog (spring) worn, or broken	1	0.0	-	1	-	-	-	1	300,000	-	-
Switch pt gap(btw swt pt & stock rail)	38	1.1	-	38	-	4	33	1	1,847,237	-	1
Oth frog, switch, trk appliance defect	9	0.3	-	9	-	2	5	2	474,438	-	1
Bridge misalignment or failure	2	0.1	-	2	-	2	-	-	1,553,715	-	-
Flangeway clogged	2	0.1	-	1	1	1	-	1	167,652	-	-
Engineering design or construction	4	0.1	-	3	1	1	1	2	285,834	-	-
Catenary system defect	24	0.7	-	-	24	22	2	-	783,091	-	-
Other way and structure defect	8	0.2	-	3	5	6	1	1	419,958	-	-
<b>Total</b>	<b>1,010</b>	<b>28.7</b>	<b>5</b>	<b>965</b>	<b>40</b>	<b>354</b>	<b>468</b>	<b>188</b>	<b>124,680,615</b>	<b>2</b>	<b>62</b>

## 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	4	0.1	-	3	1	1	2	1	669,913	-	-
Broken brake pipe or connections	2	0.1	-	2	-	1	-	1	75,091	-	-
Broken brake pipe/connections (LOCO)	1	0.0	-	1	-	-	1	-	8,520	-	-
Oth brk component dmg,worn,broke,etc.	4	0.1	-	4	-	2	1	1	77,167	-	-
Brk valve malf. (undesired emergency)	4	0.1	2	2	-	3	1	-	386,920	-	4
Brake valve malf. (stuck brake, etc.)	4	0.1	-	3	1	2	2	-	125,387	-	-
Rigging down or dragging	6	0.2	1	5	-	3	2	1	1,414,894	-	-
Hand brk broken or defective	3	0.1	-	2	1	-	2	1	31,492	-	-
Other brake defects, cars	4	0.1	-	2	2	1	1	2	144,390	-	1
Other brake defects, (LOCO)	1	0.0	-	1	-	-	1	-	23,095	-	-
Broken or defective container	1	0.0	-	1	-	1	-	-	20,969	-	-
Center sill broken or bent	15	0.4	1	7	7	7	7	1	1,229,687	-	-
Draft sill broken or bent	5	0.1	-	4	1	3	2	-	203,271	-	-
Center plate broken or defective	3	0.1	-	3	-	1	1	1	373,814	-	-
Ctr plate disengaged from truck	5	0.1	-	5	-	4	1	-	421,880	-	-
Center plate attachment defective	1	0.0	-	1	-	1	-	-	16,400	-	-
Side sill broken	2	0.1	-	1	1	2	-	-	78,902	-	-
Other body defects, (CAR)	5	0.1	1	2	2	3	1	1	316,829	-	1

**TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004**

MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Knuckle broken or defective	4	0.1	1	3	-	1	3	-	89,923	-	-
Coupler mismatch, high/low	3	0.1	-	3	-	-	3	-	41,551	-	-
Coupler drawhead broken or defective	1	0.0	-	-	1	1	-	-	9,847	-	-
Coupler drawhead broke/defect-loco	1	0.0	-	1	-	-	1	-	37,200	-	-
Coupler retainer pin/cross key missing	10	0.3	-	8	2	9	1	-	1,483,308	-	-
Draft gear/mechanism broke/defective	5	0.1	1	4	-	1	4	-	310,429	-	-
Coupler carrier broken or defective	2	0.1	1	1	-	-	2	-	72,709	-	-
Coupler shank broken/defective	4	0.1	1	3	-	3	1	-	129,923	-	-
Oth coupler/draft system defects-car	12	0.3	-	6	6	-	11	1	2,744,415	-	-
Side bearing clearance insufficient	19	0.5	1	17	1	9	8	2	3,159,951	-	-
Side bearing clearance excessive	4	0.1	-	4	-	3	1	-	245,768	-	-
Side bearing(s) broken	1	0.0	-	1	-	-	1	-	105,302	-	-
Truck bolster broken	5	0.1	-	4	1	5	-	-	878,272	-	-
Side frame broken	3	0.1	-	3	-	2	1	-	724,656	-	-
Truck bolster stiff	21	0.6	-	21	-	7	13	1	1,855,871	-	-
Truck bolster stiff (LOCO)	1	0.0	-	1	-	-	1	-	500	-	-
Defective snubbing	2	0.1	-	2	-	1	1	-	2,148,815	-	-
Broken, missing, or defective springs	1	0.0	-	1	-	1	-	-	321,168	-	-
Broken/missing/defective springs (LOCO)	1	0.0	-	-	1	1	-	-	10,024	-	-
Other truck component defects, (CAR)	4	0.1	-	4	-	1	2	1	171,513	-	-
Other truck component defects, (LOCO)	1	0.0	-	1	-	-	1	-	6,000	-	-
Gib Clearance (lateral motion excessive)	2	0.1	-	2	-	2	-	-	539,978	-	-
Truck bolster stiff (failure to slew)	8	0.2	-	8	-	3	2	3	208,433	-	2
Truck hunting	5	0.1	-	5	-	4	-	1	2,878,168	-	-
Broken/bent axle between wheel seats	14	0.4	-	13	1	14	-	-	2,669,375	-	-
Broke/bent axle btwn wheel seats-loco	6	0.2	-	6	-	5	1	-	222,153	-	-
Journal (plain) failure from overheat	1	0.0	-	-	1	1	-	-	50,392	-	-
Journal (roller bearing) overheating	47	1.3	-	42	5	46	1	-	15,170,613	-	-
Journal fractured, new cold break	6	0.2	-	6	-	6	-	-	2,422,182	-	-
Oth axle/journal bearing defect-car	4	0.1	-	4	-	4	-	-	606,493	-	-
Oth axle/journal bearing defect-loco	1	0.0	-	-	1	1	-	-	24,000	-	-
Broken flange	3	0.1	-	3	-	2	-	1	130,719	-	-
Broken flange (LOCO)	1	0.0	-	1	-	-	1	-	22,488	-	-
Broken rim	14	0.4	-	12	2	12	1	1	3,477,465	-	3
Broken plate	9	0.3	-	9	-	9	-	-	2,057,280	-	1
Broken hub	1	0.0	-	1	-	1	-	-	694,212	-	-
Worn Flange	14	0.4	-	14	-	3	8	3	539,027	-	-
Worn flange (LOCO)	6	0.2	-	6	-	2	4	-	649,267	-	-
Worn tread	2	0.1	-	2	-	2	-	-	1,054,163	-	1
Worn tread (LOCO)	1	0.0	-	1	-	-	1	-	8,198	-	-
Damaged flange or tread (flat)	2	0.1	-	2	-	2	-	-	46,942	-	-
Damaged flange or tread (build up)	12	0.3	-	12	-	9	3	-	1,872,341	-	-
Damaged flange/tread(build up) (LOCO)	1	0.0	-	1	-	1	-	-	5,546	-	-
Loose wheel	5	0.1	-	4	1	5	-	-	340,203	-	-
Other wheel defects (CAR)	7	0.2	-	6	1	3	4	-	212,126	-	-
Other wheel defects (LOCO)	1	0.0	-	-	1	1	-	-	6,809	-	-



TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2004

MAJOR CAUSE= Mechanical/Electrical

Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Traction motor failure (LOCO)	2	0.1	-	-	2	1	1	-	33,171	-	1
Oil or fuel fire (LOCO)	2	0.1	-	-	2	2	-	-	31,359	-	-
Electrically caused fire (LOCO)	15	0.4	-	-	15	14	1	-	496,334	-	-
Pantograph defect (LOCO)	24	0.7	-	-	24	23	1	-	507,777	-	-
Other LOCO defects	7	0.2	-	3	4	5	2	-	194,305	-	-
Third rail shoe or shoe beam (LOCO)	1	0.0	-	-	1	1	-	-	7,219	-	-
Bottom outlet car door open	3	0.1	-	3	-	2	1	-	317,737	-	-
Bottom outlet door attachment defect	4	0.1	-	2	2	2	1	1	249,768	-	-
Other mechanical/electrical failures	4	0.1	-	1	3	4	-	-	226,508	-	7
Other mechanical/electrical fail(LOCO)	6	0.2	-	-	6	5	1	-	92,770	-	-
Total	416	11.8	10	306	100	277	114	25	58,231,287	-	21

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	26	0.7	-	23	-	3	11	6	9	4,883,226	-	5
Extreme environmental - TORNADO	1	0.0	-	1	-	-	1	-	-	1,359,316	-	-
Extreme environmental - FLOOD	6	0.2	-	3	-	3	2	2	2	3,312,544	-	2
Extreme wind velocity	19	0.5	1	11	-	7	10	6	3	4,185,593	-	1
Other extreme environmental conditions	7	0.2	-	4	-	3	4	2	1	364,665	-	-
Load shifted	9	0.3	1	7	-	1	3	4	2	801,949	-	-
Load fell from car	4	0.1	-	4	-	-	2	1	1	1,760,319	-	-
Overloaded car	5	0.1	-	4	-	1	3	2	-	489,227	-	-
Improperly loaded car	20	0.6	-	18	-	2	14	5	1	2,889,349	-	1
Improperly loaded container/trailer on flat car	1	0.0	-	1	-	-	1	-	-	115,624	-	-
Miscellaneous loading procedures	2	0.1	-	2	-	-	-	2	-	19,680	-	-
Hwy user impairment-drug/alcohol use	4	0.1	-	-	4	-	4	-	-	110,584	1	6
Highway user inattentiveness	99	2.8	-	-	99	-	95	1	3	4,955,485	31	73
Highway user misjudgement	23	0.7	-	-	23	-	23	-	-	663,094	1	7
Highway user cited for violation	42	1.2	-	-	42	-	41	-	1	6,416,863	1	38
Hwy user unaware,environmental factor	1	0.0	-	-	1	-	1	-	-	31,423	-	-
Highway user unable to stop, weather	1	0.0	-	-	1	-	1	-	-	12,935	-	-
Highway user deliberately disregarded crossing warning devices	22	0.6	-	-	22	-	22	-	-	769,522	13	8
Other causes (highway-rail collisions)	30	0.9	-	-	30	-	30	-	-	857,129	5	10
Emergency brke appl. to avoid accident	1	0.0	-	1	-	-	-	-	1	8,453	-	-
Object/equipment (mtr veh) on track	15	0.4	-	-	-	15	14	-	1	953,724	1	1
Livestock on track	3	0.1	-	-	-	3	3	-	-	27,000	-	2
Obj/equip on/fouling track, other	31	0.9	1	9	-	21	22	8	1	2,085,643	-	6
Harmonic rock off, etc.	89	2.5	-	88	-	1	30	50	9	7,425,968	-	1
Fire, other than vandalism	5	0.1	-	-	-	5	4	1	-	1,512,588	-	-
Auto hump retarder failed to slow car	25	0.7	1	6	-	18	-	25	-	609,762	-	-
Yard skate slid and failed to stop car	11	0.3	2	4	-	5	-	11	-	212,388	-	-
Lading chains/straps fouling switches	11	0.3	-	10	-	1	1	10	-	1,066,479	-	-
Lading chains or straps fouling wheels	1	0.0	-	1	-	-	1	-	-	35,797	-	-
Passed couplers (automated classification yard)	42	1.2	-	24	-	18	-	42	-	1,123,351	-	-
Interference(not vandals)with RR op.	12	0.3	1	8	-	3	1	1	10	965,320	-	1
Vandalism of on-track equipment	6	0.2	1	3	-	2	3	2	1	1,569,317	-	-
Vandalism of track or track appliances	28	0.8	1	24	-	3	4	18	6	1,427,796	-	-
Fail by non-rr empto control spd of car	17	0.5	2	13	-	2	1	3	13	502,684	-	-
Cause under investigation	11	0.3	-	9	-	2	8	2	1	1,676,171	-	2
Track damage caused by non-railroad interference with track structure	6	0.2	-	4	-	2	2	1	3	623,513	-	-
Investigation complete, cause could not be determined	34	1.0	1	17	-	16	3	31	-	4,303,224	3	3
Other miscellaneous causes	28	0.8	3	22	-	3	10	17	1	2,421,070	-	-
Total	698	19.8	15	321	222	140	375	253	70	62,548,775	56	167

TABLE 5-10 TRAIN ACCIDENTS BY TYPE TRACK AND CLASS, 2004

Track & Class		Total		Type of Accident				Reportable	Casualties		Causes					
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Main	1	200	5.7	10	164	3	23	14,409,243	-	32	21	3	56	20	3	97
	2	213	6.1	9	177	11	16	34,921,220	4	20	42	11	41	41	-	78
	3	237	6.7	9	139	36	53	49,578,277	10	64	58	36	38	39	2	64
	4	409	11.6	18	191	131	69	109,714,669	33	166	111	131	56	43	-	68
	5	96	2.7	5	42	33	16	29,634,139	15	24	23	33	17	12	-	11
	6	15	0.4	2	2	1	10	1,061,506	1	5	9	1	1	-	-	4
	?	16	0.5	-	1	-	15	417,403	-	-	13	-	-	-	-	3
	X	40	1.1	-	38	2	-	1,731,490	-	2	-	2	6	3	-	29
	-Sub	1,226	34.8	53	754	217	202	241,467,947	63	313	277	217	215	158	5	354
Yard	1	1,677	47.7	146	1,127	-	404	65,643,072	-	35	97	-	892	226	44	418
	2	104	3.0	11	62	-	31	5,056,586	-	3	7	-	47	16	11	23
	3	11	0.3	2	8	-	1	614,895	-	-	2	-	3	1	-	5
	4	5	0.1	-	4	1	-	456,998	-	1	-	1	-	-	-	4
	?	1	0.0	-	1	-	-	11,630	-	-	-	-	1	-	-	-
	X	63	1.8	6	45	-	12	3,827,138	-	-	8	-	26	9	2	18
	-Sub	1,861	52.9	165	1,247	1	448	75,610,319	-	39	114	1	969	252	57	468
Siding	1	74	2.1	2	68	-	4	2,896,716	1	1	6	-	26	5	-	37
	2	14	0.4	2	11	1	-	1,491,849	-	2	1	1	5	1	-	6
	3	13	0.4	-	12	-	1	1,614,315	-	1	-	-	8	-	-	5
	4	7	0.2	1	4	-	2	875,502	-	2	-	-	5	1	-	1
	5	1	0.0	-	1	-	-	314,662	-	-	-	-	-	-	-	1
	X	3	0.1	-	3	-	-	66,128	-	-	-	-	1	-	-	2
	-Sub	112	3.2	5	99	1	7	7,259,172	1	6	7	1	45	7	-	52
Industry	1	253	7.2	8	219	1	25	7,792,284	1	4	13	1	72	51	2	114
	2	7	0.2	1	5	-	1	687,953	-	3	-	-	5	-	1	1
	3	3	0.1	-	2	-	1	176,954	-	1	1	-	2	-	-	-
	4	1	0.0	-	-	1	-	9,396	-	1	-	1	-	-	-	-
	?	1	0.0	1	-	-	-	12,209	-	-	-	-	1	-	-	-
	X	33	0.9	2	27	1	3	1,151,634	-	1	2	1	9	5	-	16
	-Sub	298	8.5	12	253	3	30	9,830,430	1	10	16	3	89	56	3	131
Other	1	2	0.1	-	1	-	1	22,776	-	-	-	-	1	1	-	-
	?	19	0.5	2	13	-	4	1,998,778	-	3	2	-	10	2	-	5
	-Sub	21	0.6	2	14	-	5	2,021,554	-	3	2	-	11	3	-	5
Total		3,518	100	237	2,367	222	692	336,189,422	65	371	416	222	1,329	476	65	1,010

TABLE 5-11 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST SPEED, 2004

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	?	14	0.4	-	5	1	8	289,085	1	-	6	1	4	2	-	1
	1 - 9	287	8.2	17	232	6	32	20,566,504	-	38	34	6	100	32	5	110
	10-19	238	6.8	19	177	15	27	25,018,078	4	19	41	15	56	30	-	96
	20-29	189	5.4	5	146	18	20	52,348,768	2	49	56	18	27	31	-	57
	30-39	119	3.4	4	64	31	20	40,189,772	9	41	34	31	11	17	-	26
	40-49	184	5.2	4	91	63	26	59,719,422	14	53	63	63	10	14	-	34
	50-59	85	2.4	2	30	37	16	26,386,554	10	20	17	37	4	13	-	14
	60-69	51	1.4	1	7	22	21	6,874,076	7	32	6	22	3	11	-	9
	>= 70	59	1.7	1	2	24	32	10,075,688	16	61	20	24	-	8	-	7
	-Sub	1,226	34.8	53	754	217	202	241,467,947	63	313	277	217	215	158	5	354
Yard	?	29	0.8	2	11	-	16	2,809,617	-	1	4	-	7	16	1	1
	1 - 9	1,603	45.6	140	1,097	1	365	58,813,865	-	22	92	1	845	201	46	418
	10-19	210	6.0	19	137	-	54	10,498,728	-	11	16	-	108	27	10	49
	20-29	16	0.5	3	2	-	11	3,315,682	-	3	2	-	7	7	-	-
	30-39	2	0.1	-	-	-	2	160,627	-	2	-	-	2	-	-	-
	40-49	1	0.0	1	-	-	-	11,800	-	-	-	-	-	1	-	-
	-Sub	1,861	52.9	165	1,247	1	448	75,610,319	-	39	114	1	969	252	57	468
Siding	?	3	0.1	-	3	-	-	74,961	-	-	-	-	-	2	-	1
	1 - 9	74	2.1	1	68	-	5	2,876,242	1	1	5	-	29	4	-	36
	10-19	23	0.7	2	20	-	1	2,117,319	-	-	1	-	11	1	-	10
	20-29	9	0.3	2	7	-	-	2,055,856	-	3	1	-	4	-	-	4
	30-39	2	0.1	-	1	-	1	117,920	-	-	-	-	1	-	-	1
	40-49	1	0.0	-	-	1	-	16,874	-	2	-	1	-	-	-	-
	-Sub	112	3.2	5	99	1	7	7,259,172	1	6	7	1	45	7	-	52
Industry	?	3	0.1	-	2	-	1	48,925	-	-	-	-	-	2	1	-
	1 - 9	266	7.6	9	232	1	24	8,236,922	1	5	14	1	75	52	2	122
	10-19	23	0.7	2	17	1	3	969,662	-	-	1	1	11	1	-	9
	20-29	3	0.1	-	1	-	2	192,703	-	2	1	-	1	1	-	-
	30-39	2	0.1	1	1	-	-	372,822	-	2	-	-	2	-	-	-
	40-49	1	0.0	-	-	1	-	9,396	-	1	-	1	-	-	-	-
	-Sub	298	8.5	12	253	3	30	9,830,430	1	10	16	3	89	56	3	131
Other	1 - 9	16	0.5	1	12	-	3	486,445	-	-	1	-	9	2	-	4
	10-19	2	0.1	-	2	-	-	73,707	-	1	-	-	1	-	-	1
	30-39	1	0.0	1	-	-	-	842,741	-	2	-	-	1	-	-	-
	40-49	2	0.1	-	-	-	2	618,661	-	-	1	-	-	1	-	-
	-Sub	21	0.6	2	14	-	5	2,021,554	-	3	2	-	11	3	-	5
Total		3,518	100	237	2,367	222	692	336,189,422	65	371	416	222	1,329	476	65	1,010

TABLE 5-12 TRAIN ACCIDENTS BY WEATHER CONDITION, 2004

Conditions		Total		Type of Accident				Reportable Damage	Casualties		Causes						
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
Dawn	Clear	65	1.8	7	48	1	9	9,231,768	1	2	9	1	28	6	1	20	
	Cloudy	26	0.7	-	19	1	6	7,121,036	-	-	2	1	8	5	-	10	
	Rain	5	0.1	-	3	-	2	358,476	-	1	1	-	1	2	-	1	
	Fog	1	0.0	-	1	-	-	1,275,058	-	-	-	-	-	1	-	-	
	Snow	2	0.1	-	2	-	-	2,591,515	-	-	-	-	-	1	-	1	
	-- Sub	99	2.8	7	73	2	17	20,577,853	1	3	12	2	37	15	1	32	
Day	Clear	1,208	34.3	71	785	118	234	103,253,681	29	155	142	118	416	139	15	378	
	Cloudy	408	11.6	21	264	52	71	35,488,715	15	87	41	52	122	49	8	136	
	Rain	88	2.5	2	59	4	23	7,425,781	2	6	13	4	27	17	3	24	
	Fog	6	0.2	1	4	-	1	617,006	-	1	-	-	2	2	-	2	
	Sleet	1	0.0	-	1	-	-	701,048	-	-	-	-	-	-	-	1	
	Snow	21	0.6	2	15	2	2	3,733,437	-	5	2	2	3	6	-	8	
	-- Sub	1,732	49.2	97	1,128	176	331	151,219,668	46	254	198	176	570	213	26	549	
Dusk	Clear	105	3.0	8	70	3	24	7,150,249	1	2	15	3	41	13	5	28	
	Cloudy	47	1.3	1	35	5	6	6,336,106	1	2	4	5	16	8	2	12	
	Rain	8	0.2	-	7	-	1	573,648	-	-	2	-	2	2	-	2	
	Fog	1	0.0	-	1	-	-	30,119	-	-	-	-	-	-	-	1	
	Snow	2	0.1	-	2	-	-	71,150	-	-	-	-	-	-	-	2	
	-- Sub	163	4.6	9	115	8	31	14,161,272	2	4	21	8	59	23	7	45	
Dark	Clear	926	26.3	69	644	24	189	87,174,261	14	76	113	24	415	132	17	225	
	Cloudy	377	10.7	36	251	7	83	34,432,664	1	20	46	7	154	59	9	102	
	Rain	144	4.1	12	102	2	28	12,990,050	-	4	17	2	60	22	3	40	
	Fog	32	0.9	5	21	2	4	9,398,621	1	5	2	2	16	4	1	7	
	Sleet	6	0.2	-	2	-	4	217,524	-	-	-	-	1	4	-	1	
	Snow	38	1.1	2	31	1	4	6,005,083	-	5	7	1	16	4	1	9	
	Unk	1	0.0	-	-	-	1	12,426	-	-	-	-	1	-	-	-	
-- Sub	1,524	43.3	124	1,051	36	313	150,230,629	16	110	185	36	663	225	31	384		
Total		3,518	100	237	2,367	222	692	336,189,422	65	371	416	222	1,329	476	65	1,010	

**TABLE 5-13 TRAIN ACCIDENTS BY CONSIST LENGTH, 2004**

Length	Consists		Type of Accident				Equipment Damage		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Eqp	HRC	Hmn	Othr	Sig	Trk	
???	3	0.1	-	2	-	1	164,057	0.1	-	-	2	1	-	-	-
1	236	5.8	46	60	4	126	2,673,986	1.1	10	4	145	64	8	5	
2-5	504	12.3	64	202	33	205	13,699,007	5.8	25	33	273	89	21	63	
6-10	354	8.6	34	156	24	140	19,582,422	8.3	51	24	151	40	4	84	
11-15	229	5.6	14	130	12	73	4,242,310	1.8	16	12	103	32	6	60	
16-20	176	4.3	16	108	7	45	3,132,084	1.3	12	7	88	20	3	46	
21-25	178	4.3	26	114	6	32	3,680,932	1.6	8	6	81	20	6	57	
26-30	187	4.6	17	131	5	34	5,516,279	2.3	9	5	94	21	5	53	
31-35	160	3.9	17	101	13	29	6,992,423	3.0	11	13	71	17	1	47	
36-40	141	3.4	19	94	3	25	5,225,052	2.2	7	3	68	14	4	45	
41-45	159	3.9	20	103	12	24	5,748,837	2.4	10	12	71	13	-	53	
46-50	134	3.3	18	98	1	17	3,455,114	1.5	15	1	62	14	1	41	
51-60	260	6.3	31	179	11	39	14,190,883	6.0	26	11	108	27	3	85	
61-70	207	5.0	19	140	19	29	13,320,887	5.7	19	19	75	24	4	66	
71-80	258	6.3	33	185	17	23	23,427,223	10.0	33	17	92	30	5	81	
81-90	178	4.3	17	128	13	20	17,701,776	7.5	25	13	58	23	7	52	
91-100	169	4.1	17	125	8	19	19,962,138	8.5	25	8	57	26	4	49	
101-110	172	4.2	10	137	6	19	15,192,481	6.5	46	6	51	15	1	53	
111-120	153	3.7	12	123	7	11	15,700,461	6.7	29	7	45	16	3	53	
121-130	114	2.8	9	77	17	11	18,595,913	7.9	20	17	35	13	-	29	
131-140	92	2.2	7	71	5	9	17,854,113	7.6	25	5	17	13	-	32	
141-150	21	0.5	1	18	-	2	2,608,141	1.1	6	-	9	1	-	5	
>= 151	16	0.4	1	11	-	4	2,442,584	1.0	1	-	9	2	-	4	
<b>Total</b>	4,101	100	448	2,493	223	937	235,109,103	100.0	429	223	1,765	535	86	1,063	

TABLE 5-14 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST, 2004

Track	- Equipment	Consists			Type of Accident					Primary Cause					
		Cnt	%	Avg Len.	Coll	Der	HRC	Othr	Eqp	HRC	Hmn	Othr	Sig	Trk	
Main	Freight Train	984	24.0	76	37	654	146	57	205	146	139	111	4	289	
	Psgr Train	156	3.8	8	5	5	27	82	40	27	6	24	-	22	
	Commuter Train	31	0.8	7	-	2	7	15	5	7	1	4	-	7	
	Work Train	10	0.2	29	-	6	-	2	4	-	1	-	-	3	
	Single Car	5	0.1	1	1	-	-	3	-	-	4	-	-	-	
	Cut of Cars	16	0.4	23	2	1	1	5	1	1	5	2	-	-	
	Yard/ Switch	60	1.5	51	3	33	3	7	4	3	20	5	1	13	
	Light loco(s)	21	0.5	3	3	4	3	7	-	3	9	2	-	3	
	Maint/ Insp car	20	0.5	1	1	3	3	9	1	3	11	1	-	-	
	Spec MOW Eqp	7	0.2	2	1	-	1	2	1	1	2	-	-	-	
	-Sub total	1,310	31.9	61	53	708	191	189	261	191	198	149	5	337	
Yard	Freight Train	551	13.4	68	28	377	1	46	29	1	196	31	1	194	
	Psgr Train	18	0.4	8	2	7	-	4	3	-	5	2	-	3	
	Commuter Train	14	0.3	8	2	6	-	3	-	-	9	-	-	2	
	Work Train	6	0.1	23	-	6	-	-	1	-	2	1	-	2	
	Single Car	126	3.1	1	6	24	-	49	4	-	33	38	3	1	
	Cut of Cars	232	5.7	23	7	61	-	94	6	-	82	49	14	11	
	Yard/ Switch	1,218	29.7	38	99	646	-	225	62	-	542	120	38	208	
	Light loco(s)	145	3.5	2	18	63	-	22	3	-	76	5	1	18	
	Maint/ Insp car	1	0.0	1	1	-	-	-	-	-	1	-	-	-	
	Spec MOW Eqp	3	0.1	6	-	1	-	1	-	-	-	1	-	1	
	-Sub total	2,314	56.4	39	163	1,191	1	444	108	1	946	247	57	440	
Siding	Freight Train	90	2.2	61	3	74	1	2	6	1	27	5	-	41	
	Single Car	3	0.1	2	-	-	-	1	-	-	1	-	-	-	
	Cut of Cars	4	0.1	26	1	1	-	1	-	-	2	1	-	-	
	Yard/ Switch	17	0.4	34	-	15	-	1	-	-	9	1	-	6	
	Light loco(s)	7	0.2	3	1	4	-	1	-	-	5	-	-	1	
	Maint/ Insp car	1	0.0	1	-	-	-	1	-	-	1	-	-	-	
	-Sub total	122	3.0	51	5	94	1	7	6	1	45	7	-	48	
Industry	Freight Train	139	3.4	54	4	114	2	10	8	2	38	24	1	57	
	Work Train	1	0.0	52	-	1	-	-	-	-	-	-	-	1	
	Single Car	9	0.2	1	2	-	-	3	-	-	2	2	1	-	
	Cut of Cars	22	0.5	19	1	9	-	5	-	-	4	11	-	-	
	Yard/ Switch	147	3.6	35	3	117	1	10	6	1	39	16	-	69	
	Light loco(s)	11	0.3	2	1	7	-	2	-	-	5	2	-	3	
	-Sub total	329	8.0	40	11	248	3	30	14	3	88	55	2	130	
Other	Freight Train	11	0.3	80	1	7	-	2	2	-	3	2	-	3	
	Single Car	1	0.0	1	-	1	-	-	-	-	-	1	-	-	
	Cut of Cars	1	0.0	40	-	-	-	1	-	-	1	-	-	-	
	Yard/ Switch	12	0.3	55	1	6	-	2	-	-	7	-	-	2	
	Light loco(s)	1	0.0	2	-	-	-	-	-	-	-	-	-	-	
-Sub total	26	0.6	61	2	14	-	5	2	-	11	3	-	5		
Total		4,101	100	47	234	2,255	196	675	391	196	1,288	461	64	960	

**TABLE 5-15 TRAIN ACCIDENTS BY CONSIST LENGTH AND TYPE CONSIST, 2004**

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	-	-	2	-	-
1	-	1	-	-	140	-	2	65	22	6
2-5	24	46	16	4	2	111	188	110	-	3
6-10	54	97	22	2	-	33	138	8	-	-
11-15	54	18	7	1	-	34	114	-	-	1
16-20	49	7	-	-	-	11	109	-	-	-
21-25	59	3	-	-	-	11	105	-	-	-
26-30	71	1	-	1	-	15	99	-	-	-
31-35	72	1	-	4	1	5	77	-	-	-
36-40	59	-	-	-	-	11	71	-	-	-
41-45	77	-	-	-	-	5	77	-	-	-
46-50	70	-	-	2	-	6	56	-	-	-
51-60	148	-	-	2	-	10	100	-	-	-
61-70	124	-	-	1	-	5	77	-	-	-
71-80	184	-	-	-	-	8	66	-	-	-
81-90	138	-	-	-	-	-	40	-	-	-
91-100	138	-	-	-	-	1	30	-	-	-
101-110	130	-	-	-	-	5	37	-	-	-
111-120	118	-	-	-	-	-	35	-	-	-
121-130	100	-	-	-	-	1	13	-	-	-
131-140	77	-	-	-	-	-	15	-	-	-
141-150	18	-	-	-	-	-	3	-	-	-
>= 151	11	-	-	-	-	3	2	-	-	-
<b>Total</b>	1,775	174	45	17	144	275	1,454	185	22	10

**TABLE 5-16 INVOLVEMENT IN TRAIN ACCIDENTS BY TYPE CONSIST, 2004**

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	1,719	44.2	106	1,316	155	142	948	536	86	138	11	258	155	480	187	7	632
Psgr Train	170	4.4	8	20	48	94	152	18	-	-	-	46	48	12	30	-	34
Commuter Train	43	1.1	2	9	7	25	30	13	-	-	-	9	7	11	6	-	10
Work Train	17	0.4	-	14	-	3	10	6	-	1	-	5	-	4	1	-	7
Single Car	126	3.2	15	30	-	81	5	109	3	8	1	5	-	68	46	6	1
Cut of Cars	269	6.9	24	94	1	150	16	226	4	22	1	10	1	149	73	19	17
Yard/ Switch	1,345	34.5	147	878	4	316	59	1,113	17	145	11	80	4	733	160	48	320
Light loco(s)	176	4.5	38	86	4	48	21	137	6	11	1	4	4	127	10	2	29
Maint/ Insp car	19	0.5	3	3	3	10	17	1	1	-	-	2	3	13	1	-	-
Spec MOW Eqp	9	0.2	2	1	1	5	6	3	-	-	-	1	1	4	2	-	1
<b>Total</b>	<b>3,893</b>	<b>100</b>	<b>345</b>	<b>2,451</b>	<b>223</b>	<b>874</b>	<b>1,264</b>	<b>2,162</b>	<b>117</b>	<b>325</b>	<b>25</b>	<b>420</b>	<b>223</b>	<b>1,601</b>	<b>516</b>	<b>82</b>	<b>1,051</b>

**TABLE 5-17 DAMAGE BY TRACK TYPE, 2004**

Track	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Main	241,467,947	165,730	169,582,992	116,392	71,884,955	49,338
Yard	75,610,319	31,270	52,752,526	21,817	22,857,793	9,453
Siding	7,259,172	54,580	4,755,182	35,753	2,503,990	18,827
Industry	9,830,430	29,084	6,953,933	20,574	2,876,497	8,510
Other	2,021,554	48,132	1,107,903	26,379	913,651	21,754
<b>Total</b>	<b>336,189,422</b>	<b>76,616</b>	<b>235,152,536</b>	<b>53,590</b>	<b>101,036,886</b>	<b>23,026</b>

**TABLE 5-18 DAMAGE BY CONSIST TYPE, 2004**

Type Equipment	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Freight Train	241,752,144	136,198	170,792,833	96,221	70,959,311	39,977
Psgr Train	15,360,758	88,280	14,901,123	85,639	459,635	2,642
Commuter Train	1,498,473	33,299	1,443,416	32,076	55,057	1,223
Work Train	1,608,009	94,589	950,985	55,940	657,024	38,648
Single Car	1,357,030	9,424	1,185,016	8,229	172,014	1,195
Cut of Cars	9,489,248	34,506	8,433,108	30,666	1,056,140	3,841
Yard/ Switch	48,557,600	33,396	33,491,605	23,034	15,065,995	10,362
Light loco(s)	3,698,779	19,993	2,874,506	15,538	824,273	4,456
Maint/ Insp car	678,815	30,855	443,915	20,178	234,900	10,677
Spec MOW Eqp	632,066	63,207	592,596	59,260	39,470	3,947
Other	11,556,500	40,267	43,433	151	11,513,067	40,115
<b>Total</b>	<b>336,189,422</b>	<b>76,616</b>	<b>235,152,536</b>	<b>53,590</b>	<b>101,036,886</b>	<b>23,026</b>



## **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 2004 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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**CHAPTER 6**

**TRAIN ACCIDENTS/INVOLVING CONSISTS TRANSPORTING HAZARDOUS  
MATERIALS**

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**TABLE 6-1 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD, 2004**

Railroad	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Alton & Southern	7	4	1	233	31	10	2	1	140
Alaska RR Corp.	2	-	-	104	101	-	-	-	-
Burlington Northern Santa Fe	305	130	10	18,124	3,142	310	17	6	270
Belt Rwy Of Chicago	3	2	-	22	15	2	-	-	-
Conrail Shared Assets	8	5	-	178	26	11	-	-	-
CSX Transportation	159	64	4	8,910	1,279	155	6	1	300
Delaware & Hudson	7	1	-	476	33	2	-	-	-
Dakota,Minnesota & Eastern	5	2	1	379	13	9	2	1	100
Elgin, Joliet & Eastern	3	2	-	74	8	2	-	-	-
Florida East Coast	3	1	-	227	5	2	-	-	-
Guilford Rail System	3	-	-	141	6	0	0	-	50
Grand Trunk Western RR	7	3	1	521	115	11	2	1	2,500
Illinois Central	20	12	-	1,632	419	30	-	-	-
Iowa Chicago & Eastern RR	8	1	-	566	39	1	-	-	-
Indiana Harbor Belt	5	1	-	247	34	3	-	-	-
Kansas City Southern	48	22	-	2,684	411	37	-	-	-
Montreal, Maine & Atlantic	5	1	-	226	19	1	-	-	-
Metro North Commuter	-	-	-	-	0	0	0	-	32
Montana Rail Link	7	4	-	302	93	18	-	-	-
Norfolk Southern Corp.	57	27	3	4,153	392	58	4	1	2,075
Paducah & Louisville	3	3	-	112	19	7	-	-	-
Port Terminal RR Assn	5	5	-	76	38	7	-	-	-
Soo Line	5	2	-	282	50	15	-	1	17
Texas Mexican	3	-	-	269	14	-	-	-	-
Union Pacific	161	76	7	10,690	1,781	203	8	3	354
Wisconsin Central Ltd.	7	1	-	637	57	4	-	-	-
Other Railroads	31	21	2	1,307	318	66	6	1	100
<b>Total</b>	<b>877</b>	<b>390</b>	<b>29</b>	<b>52,572</b>	<b>8,458</b>	<b>964</b>	<b>47</b>	<b>16</b>	<b>5,938</b>

**TABLE 6-2 CONSISTS TRANSPORTING HAZMAT, BY STATE, 2004**

States	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Alabama	21	8	1	1,431	191	28	1	-	-
Alaska	2	-	-	104	101	-	-	-	-
Arizona	21	10	1	1,155	356	45	5	1	8
Arkansas	18	9	-	1,252	221	40	-	-	-
California	48	25	3	2,553	527	68	3	2	254
Colorado	22	13	1	1,410	380	26	1	1	2
Connecticut	-	-	-	-	0	0	0	-	17
Delaware	2	1	-	50	6	1	-	-	-
Florida	10	6	-	611	119	23	-	-	-
Georgia	15	6	-	786	110	11	-	-	-
Idaho	3	1	1	157	29	3	1	-	-
Illinois	69	30	2	4,219	599	63	3	2	440
Indiana	20	9	1	1,023	133	20	1	-	-
Iowa	18	6	-	1,104	135	18	-	-	-
Kansas	24	13	1	1,287	295	31	1	1	100
Kentucky	19	7	-	936	92	14	-	-	-
Louisiana	47	25	-	2,811	585	40	-	-	-
Maine	6	1	-	253	20	1	0	-	50
Maryland	12	5	1	606	130	21	3	-	-
Massachusetts	5	1	-	364	14	2	-	-	-
Michigan	8	3	1	494	85	10	2	1	2,500
Minnesota	25	8	1	1,564	199	37	2	2	117
Mississippi	25	7	-	1,654	332	14	-	-	-
Missouri	18	6	1	1,012	102	14	1	-	-
Montana	17	7	-	831	163	26	-	-	-
Nebraska	33	17	2	2,156	180	26	2	-	-
Nevada	4	3	1	282	78	11	1	-	-
New Jersey	10	6	-	254	31	13	-	1	100
New Mexico	15	6	-	1,092	166	9	-	-	-
New York	23	11	1	1,657	203	29	1	-	15
North Carolina	18	9	1	919	124	19	1	-	-
North Dakota	3	1	-	272	16	2	-	-	-
Ohio	28	12	1	1,653	233	23	1	1	2,075
Oklahoma	16	5	-	1,308	122	7	-	-	-
Oregon	17	5	1	962	134	13	1	-	-
Pennsylvania	22	11	1	1,446	162	25	2	-	-
Rhode Island	1	1	-	5	1	1	-	-	-
South Carolina	8	5	-	309	29	10	-	-	-
South Dakota	5	2	1	287	8	3	2	-	-
Tennessee	24	13	-	1,897	202	17	-	-	-
Texas	127	56	4	7,474	1,526	152	10	3	240
Utah	1	1	-	14	2	2	-	-	-
Vermont	1	-	-	19	2	-	-	-	-
Virginia	7	1	-	490	41	1	-	-	-
Washington	19	10	1	924	90	18	2	1	20
West Virginia	6	2	-	465	57	5	-	-	-
Wisconsin	7	3	-	526	54	7	-	-	-
Wyoming	7	3	-	494	73	15	-	-	-
Total	877	390	29	52,572	8,458	964	47	16	5,938

**TABLE 6-3 CONSISTS TRANSPORTING HAZMAT, BY SUBCAUSE, 2004**

Causes	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Brakes	6	4	-	553	74	8	-	-	-
Trailer/Container on Flatcar	1	-	-	102	3	-	-	-	-
Body	9	3	2	756	73	16	2	-	-
Coupler & Draft System	10	5	-	679	86	10	-	-	-
Truck Components	25	11	1	1,843	299	37	2	1	8
Axles & Journal Bearings	17	5	-	1,403	159	6	-	-	-
Wheels	20	7	1	1,819	166	16	2	-	-
Locomotives	2	1	-	121	21	1	-	-	-
Doors	1	-	-	105	4	-	-	-	-
Other Mechanical	-	-	-	-	0	0	0	-	15
Brakes, Use of	50	28	-	1,666	338	48	-	1	100
Flagging, Fixed, Hand & Radio	11	3	2	849	146	5	2	1	100
General Switching Rules	157	74	2	7,206	1,314	128	2	-	-
Main Track Authority	11	3	1	759	216	12	1	1	4
Train Handling/Makeup	56	22	1	4,879	651	54	2	1	70
Speed	22	8	-	1,545	263	14	-	-	-
Switches, Use of	89	46	2	4,933	939	104	3	1	2,500
Miscellaneous Human Factors	8	7	1	422	79	21	2	1	140
Environmental Conditions	12	4	1	603	93	7	2	-	-
Loading Procedures	16	6	1	896	107	13	1	1	100
Highway-Rail Incidents	44	1	-	2,714	563	1	-	-	-
Unusual Operational Situations	54	26	1	3,165	390	61	1	-	17
Other Miscellaneous Causes	33	14	2	1,844	226	43	3	3	167
Signal Defects	26	15	1	1,218	174	27	1	1	2,075
Roadbed	10	1	-	758	79	1	-	-	-
Track Geometry	69	37	1	3,836	663	127	3	-	-
Rail, Joint Bar & Anchors	71	36	7	4,939	686	130	16	3	640
Frogs, Switches, Appliances	47	23	2	2,959	646	74	2	1	2
<b>Total</b>	<b>877</b>	<b>390</b>	<b>29</b>	<b>52,572</b>	<b>8,458</b>	<b>964</b>	<b>47</b>	<b>16</b>	<b>5,938</b>

**TABLE 6-4 CONSISTS TRANSPORTING HAZMAT, BY ACCIDENT TYPE, 2004**

Type Accident	Hazmat Consists				Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing	Total Cars In Consist	Cnt	Damaged	Releasing	Cnt	People
Derailments	564	273	22	36,292	5,645	747	38	12	5,562
Head on collision	3	1	-	293	24	1	-	-	-
Rear end collision	6	1	1	493	93	4	1	1	4
Side collision	64	25	2	3,716	609	37	2	1	100
Raking collision	24	13	-	928	133	18	-	-	-
Broken train coll.	2	2	1	142	3	3	1	-	-
Highway-rail Impact	44	1	-	2,714	563	1	-	-	-
Obstruction impact	12	2	-	913	115	9	0	-	17
Explosion/detonation	1	1	-	118	47	4	-	-	-
Other impacts	147	68	2	6,319	1,140	135	3	2	240
Other events	10	3	1	644	86	5	2	-	15
<b>Total</b>	<b>877</b>	<b>390</b>	<b>29</b>	<b>52,572</b>	<b>8,458</b>	<b>964</b>	<b>47</b>	<b>16</b>	<b>5,938</b>

## 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 2004 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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### **CHAPTER 7**

#### **HIGHWAY-RAIL INCIDENTS**

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**TABLE 7-1 TOTAL HIGHWAY-RAIL INCIDENTS BY RAILROAD, 2004**

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	-	-	-	-	-	-	-	-	-	-	-
Amtrak	146	46	64	106	24	46	24	16	6	14	4	12	2	2	-
Burlington Northern Santa Fe	445	51	183	353	32	147	19	12	5	71	6	31	2	1	-
Belt Rwy Of Chicago	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Conrail Shared Assets	25	-	3	21	-	3	-	-	-	4	-	-	-	-	-
CSX Transportation	504	58	207	421	46	177	21	7	12	62	5	18	-	-	-
Delaware & Hudson	3	-	1	2	-	1	-	-	-	1	-	-	-	-	-
Dakota,Minnesota & Eastern	16	-	8	15	-	8	-	-	-	1	-	-	-	-	-
Duluth,Missabe & Iron Range	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-
Elgin, Joliet & Eastern	8	-	-	2	-	-	-	-	-	6	-	-	-	-	-
Florida East Coast	30	7	11	23	1	10	7	6	1	-	-	-	-	-	-
Guilford Rail System	3	-	1	2	-	-	-	-	-	1	-	1	-	-	-
Grand Trunk Western RR	20	-	6	20	-	6	-	-	-	-	-	-	-	-	-
Illinois Central	94	8	27	90	7	25	1	1	-	3	-	2	-	-	-
Iowa Chicago & Eastern RR	14	1	5	11	1	5	-	-	-	3	-	-	-	-	-
Indiana Harbor Belt	5	-	1	3	-	-	-	-	-	2	-	1	-	-	-
Kansas City Southern	114	16	53	104	15	51	3	1	1	6	-	1	1	-	-
Long Island Rail Road	7	1	4	7	1	4	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	2	-	1	1	-	-	-	-	-	1	-	1	-	-	-
Mass Bay Transit Auth.	10	2	2	8	-	2	2	2	-	-	-	-	-	-	-
Montreal, Maine & Atlantic	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-
Metro North Commuter	4	-	18	2	-	18	1	-	-	1	-	-	-	-	-
Montana Rail Link	13	-	3	9	-	2	1	-	1	3	-	-	-	-	-
Northern IN Comm Trans	3	-	1	3	-	1	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	25	5	13	21	1	13	4	4	-	-	-	-	-	-	-
New Jersey Transit Rail	15	8	1	11	5	1	4	3	-	-	-	-	-	-	-
Norfolk Southern Corp.	572	60	143	458	38	109	16	11	4	96	9	30	2	2	-
Paducah & Louisville	9	-	4	9	-	4	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	4	1	2	3	1	1	1	-	1	-	-	-	-	-	-
Port Terminal RR Assn	5	-	1	2	-	-	-	-	-	3	-	1	-	-	-
Southern CA Reg Rail Auth.	11	2	4	10	1	4	1	1	-	-	-	-	-	-	-
Southeastern PA Trans.	6	-	2	6	-	2	-	-	-	-	-	-	-	-	-
Soo Line	26	-	15	23	-	14	-	-	-	3	-	1	-	-	-
Texas Mexican	12	4	5	11	4	3	-	-	-	1	-	2	-	-	-
Term RR Assn Of St. Louis	2	-	2	2	-	2	-	-	-	-	-	-	-	-	-
Union Pacific	536	77	197	418	55	152	35	16	10	78	5	32	5	1	3
Wisconsin Central Ltd.	55	3	19	46	3	18	1	-	-	8	-	1	-	-	-
Wheeling & Lake Erie	12	-	6	12	-	6	-	-	-	-	-	-	-	-	-
Wisconsin & Southern RR	4	-	1	4	-	1	-	-	-	-	-	-	-	-	-
Other Railroads	297	17	67	252	13	63	7	2	2	36	1	2	2	1	-
<b>Total</b>	<b>3,063</b>	<b>368</b>	<b>1,081</b>	<b>2,496</b>	<b>249</b>	<b>899</b>	<b>148</b>	<b>82</b>	<b>43</b>	<b>405</b>	<b>30</b>	<b>136</b>	<b>14</b>	<b>7</b>	<b>3</b>

TABLE 7-2 TOTAL HIGHWAY-RAIL INCIDENTS BY STATE, 2004

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	113	9	37	101	9	34	-	-	-	12	-	3	-	-	-
Alaska	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Arizona	30	2	9	26	-	9	3	2	-	1	-	-	-	-	-
Arkansas	72	8	28	63	7	26	3	1	2	6	-	-	-	-	-
California	154	34	53	106	15	37	28	18	9	19	1	6	1	-	1
Colorado	36	1	15	26	-	11	1	1	-	9	-	4	-	-	-
Connecticut	10	4	5	6	2	-	2	-	1	2	2	4	-	-	-
Delaware	7	-	7	5	-	5	-	-	-	2	-	2	-	-	-
Florida	107	19	35	82	7	31	15	10	3	9	1	1	1	1	-
Georgia	154	15	42	131	11	37	3	1	2	20	3	3	-	-	-
Hawaii	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Idaho	24	4	11	18	3	5	-	-	-	5	-	5	1	1	1
Illinois	177	27	71	143	17	61	15	8	4	17	1	6	2	1	-
Indiana	159	25	38	139	19	34	10	6	1	10	-	3	-	-	-
Iowa	81	5	25	73	4	25	4	1	-	4	-	-	-	-	-
Kansas	72	7	16	62	7	12	1	-	1	9	-	3	-	-	-
Kentucky	80	8	33	61	6	21	3	-	4	16	2	8	-	-	-
Louisiana	167	23	66	144	22	55	1	1	-	19	-	11	3	-	-
Maine	6	-	3	4	-	2	-	-	-	2	-	1	-	-	-
Maryland	12	-	6	7	-	3	1	-	1	4	-	2	-	-	-
Massachusetts	18	3	7	13	1	6	2	2	-	3	-	1	-	-	-
Michigan	102	9	31	95	8	29	1	-	1	5	-	1	1	1	-
Minnesota	84	15	26	70	11	23	3	1	1	10	2	2	1	1	-
Mississippi	87	12	44	77	10	42	4	2	1	6	-	1	-	-	-
Missouri	59	9	31	43	8	22	2	-	2	14	1	7	-	-	-
Montana	21	2	9	13	-	4	1	-	1	7	2	4	-	-	-
Nebraska	58	7	17	45	5	14	2	-	1	10	2	1	1	-	1
Nevada	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
New Jersey	43	8	7	36	5	7	4	3	-	3	-	-	-	-	-
New Mexico	21	5	9	11	2	3	3	2	1	7	1	5	-	-	-
New York	34	5	29	27	3	28	1	1	-	6	1	1	-	-	-
North Carolina	75	12	26	56	7	18	4	3	1	13	-	7	2	2	-
North Dakota	15	-	11	13	-	11	-	-	-	2	-	-	-	-	-
Ohio	137	14	35	116	11	32	3	2	-	18	1	3	-	-	-
Oklahoma	58	9	30	52	9	26	1	-	-	5	-	4	-	-	-
Oregon	29	7	7	14	2	5	6	5	1	9	-	1	-	-	-
Pennsylvania	79	1	15	64	-	14	2	1	1	13	-	-	-	-	-
South Carolina	67	12	27	62	10	23	2	1	1	3	1	3	-	-	-
South Dakota	16	-	9	16	-	9	-	-	-	-	-	-	-	-	-
Tennessee	76	6	27	65	5	23	1	-	1	10	1	3	-	-	-
Texas	292	26	109	241	18	91	9	4	1	41	4	17	1	-	-
Utah	10	3	7	8	1	7	1	2	-	1	-	-	-	-	-
Vermont	5	-	2	4	-	2	-	-	-	1	-	-	-	-	-
Virginia	64	1	21	39	-	16	-	-	-	25	1	5	-	-	-
Washington	45	4	11	36	-	9	5	4	1	4	-	1	-	-	-
West Virginia	31	3	8	19	-	4	-	-	-	12	3	4	-	-	-
Wisconsin	68	4	24	58	4	23	1	-	-	9	-	1	-	-	-
Wyoming	3	-	2	1	-	-	-	-	-	2	-	2	-	-	-
Total	3,063	368	1,081	2,496	249	899	148	82	43	405	30	136	14	7	3

**TABLE 7-3 TOTAL HRC CASUALTIES BY STATE AND AGE GROUP, 2004**

States	Deaths						Nonfatal Cases					
	Age Group				Total		Age Group				Total	
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	2	-	4	3	9	2.4	1	1	2	33	37	3.4
Arizona	-	-	-	2	2	0.5	1	-	1	7	9	0.8
Arkansas	-	-	1	7	8	2.2	3	3	2	20	28	2.6
California	4	2	6	22	34	9.2	8	2	2	41	53	4.9
Colorado	-	-	-	1	1	0.3	4	-	-	11	15	1.4
Connecticut	-	-	-	4	4	1.1	-	-	1	4	5	0.5
Delaware	-	-	-	-	0	0.0	-	-	1	6	7	0.6
Florida	2	-	1	16	19	5.2	4	-	3	28	35	3.2
Georgia	6	1	3	5	15	4.1	6	4	5	27	42	3.9
Idaho	-	1	2	1	4	1.1	1	1	2	7	11	1.0
Illinois	2	3	2	20	27	7.3	5	4	8	54	71	6.6
Indiana	1	1	2	21	25	6.8	5	4	5	24	38	3.5
Iowa	-	-	-	5	5	1.4	1	4	2	18	25	2.3
Kansas	-	-	1	6	7	1.9	1	-	4	11	16	1.5
Kentucky	1	2	3	2	8	2.2	5	4	4	20	33	3.1
Louisiana	1	-	4	18	23	6.3	6	4	10	46	66	6.1
Maine	-	-	-	-	0	0.0	-	-	-	3	3	0.3
Maryland	-	-	-	-	0	0.0	1	-	-	5	6	0.6
Massachusetts	-	2	-	1	3	0.8	1	-	2	4	7	0.6
Michigan	-	1	-	8	9	2.4	3	3	4	21	31	2.9
Minnesota	-	1	-	14	15	4.1	5	2	-	19	26	2.4
Mississippi	-	1	4	7	12	3.3	8	4	7	25	44	4.1
Missouri	1	1	3	4	9	2.4	2	2	8	19	31	2.9
Montana	-	-	-	2	2	0.5	-	1	1	7	9	0.8
Nebraska	-	-	-	7	7	1.9	2	-	4	11	17	1.6
New Jersey	-	-	-	8	8	2.2	1	-	-	6	7	0.6
New Mexico	1	-	1	3	5	1.4	2	-	1	6	9	0.8
New York	1	-	-	4	5	1.4	4	-	5	20	29	2.7
North Carolina	1	-	3	8	12	3.3	3	3	10	10	26	2.4
North Dakota	-	-	-	-	0	0.0	2	2	1	6	11	1.0
Ohio	-	1	2	11	14	3.8	1	3	9	22	35	3.2
Oklahoma	-	1	1	7	9	2.4	7	2	3	18	30	2.8
Oregon	-	-	1	6	7	1.9	-	-	-	7	7	0.6
Pennsylvania	-	-	-	1	1	0.3	2	1	3	9	15	1.4
South Carolina	1	-	1	10	12	3.3	5	1	7	14	27	2.5
South Dakota	-	-	-	-	0	0.0	3	-	-	6	9	0.8
Tennessee	-	1	-	5	6	1.6	1	1	4	21	27	2.5
Texas	1	1	7	17	26	7.1	5	7	11	86	109	10.1
Utah	-	-	-	3	3	0.8	2	2	-	3	7	0.6
Vermont	-	-	-	-	0	0.0	1	-	-	1	2	0.2
Virginia	-	-	-	1	1	0.3	1	-	5	15	21	1.9
Washington	-	-	-	4	4	1.1	1	1	-	9	11	1.0
West Virginia	-	1	-	2	3	0.8	-	-	-	8	8	0.7
Wisconsin	1	-	1	2	4	1.1	2	1	3	18	24	2.2
Wyoming	-	-	-	-	0	0.0	-	2	-	-	2	0.2
Total	26	21	53	268	368	100.0	116	69	140	756	1,081	100.0

**TABLE 7-4 TOTAL HIGHWAY-RAIL INCIDENTS BY MONTH, 2004**

Railroads	Totals			At Public Crossing						At Private Crossing					
				Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
January	298	41	96	248	29	81	13	9	3	36	2	12	1	1	-
February	254	29	87	208	18	71	15	8	6	29	1	9	2	2	1
March	212	30	75	170	21	66	11	7	1	30	2	8	1	-	-
April	223	24	50	193	22	45	3	1	1	27	1	4	-	-	-
May	262	36	96	210	23	78	18	10	7	33	3	11	1	-	-
June	257	37	117	208	24	99	13	8	5	33	2	13	3	3	-
July	251	25	91	193	15	74	13	8	3	42	2	13	3	-	1
August	253	33	112	201	22	81	11	5	5	41	6	26	-	-	-
September	239	29	94	177	12	76	17	10	4	42	6	13	3	1	1
October	248	25	78	209	15	71	14	7	3	25	3	4	-	-	-
November	281	30	85	234	23	73	10	6	3	37	1	9	-	-	-
December	285	29	100	245	25	84	10	3	2	30	1	14	-	-	-
<b>Total</b>	<b>3,063</b>	<b>368</b>	<b>1,081</b>	<b>2,496</b>	<b>249</b>	<b>899</b>	<b>148</b>	<b>82</b>	<b>43</b>	<b>405</b>	<b>30</b>	<b>136</b>	<b>14</b>	<b>7</b>	<b>3</b>

**TABLE 7-5 TOTAL HIGHWAY-RAIL INCIDENTS BY DAY, 2004**
**Rail Equip Struck Highway User**

Day	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	231	7.54	35	84	195	27	71	11	6	4	23	1	9	2	1	-
Monday	354	11.56	55	121	270	37	93	25	14	5	58	4	23	1	-	-
Tuesday	380	12.41	50	136	308	33	111	18	12	3	53	5	21	1	-	1
Wednesday	381	12.44	53	138	300	34	115	20	11	8	60	7	15	1	1	-
Thursday	346	11.30	39	120	275	27	97	14	7	6	52	4	16	5	1	1
Friday	408	13.32	48	113	304	28	82	27	15	6	76	4	25	1	1	-
Saturday	291	9.50	51	102	232	30	76	20	13	4	36	5	21	3	3	1
Total	2,391	78.06	331	814	1,884	216	645	135	78	36	358	30	130	14	7	3

**Highway User Struck Rail Equip**

Day	Total Incidents		Total		At Public Crossing						At Private Crossing		
					Motor Vehicle			Other			Motor Vehicle		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	64	2.09	7	17	59	7	15	2	-	-	2	3	-
Monday	82	2.68	3	43	77	3	41	-	-	-	5	-	2
Tuesday	120	3.92	7	49	109	4	48	3	3	-	8	-	1
Wednesday	104	3.40	4	33	94	4	32	1	-	-	9	-	1
Thursday	98	3.20	6	41	85	5	38	4	1	2	9	-	1
Friday	117	3.82	2	46	106	2	44	2	-	2	9	-	-
Saturday	87	2.84	8	38	82	8	36	1	-	1	4	-	1
Total	672	21.94	37	267	612	33	254	13	4	7	47	-	6

**Grand Total**

Day	Total Incidents		Total		At Public Crossing						At Private Crossing					
					Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	295	9.63	42	101	254	34	86	13	6	6	26	1	9	2	1	-
Monday	436	14.23	58	164	347	40	134	25	14	5	63	4	25	1	-	-
Tuesday	500	16.32	57	185	417	37	159	21	15	3	61	5	22	1	-	1
Wednesday	485	15.83	57	171	394	38	147	21	11	8	69	7	16	1	1	-
Thursday	444	14.50	45	161	360	32	135	18	8	8	61	4	17	5	1	1
Friday	525	17.14	50	159	410	30	126	29	15	8	85	4	25	1	1	-
Saturday	378	12.34	59	140	314	38	112	21	13	5	40	5	22	3	3	1
Total	3,063	100.0	368	1,081	2,496	249	899	148	82	43	405	30	136	14	7	3

**TABLE 7-6 TOTAL HIGHWAY-RAIL INCIDENTS BY HOUR OF DAY, 2004**

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	88	2.87	13	23	78	7	21	6	5	1	4	1	1	-	-	-			
	2	92	3.00	5	12	80	4	9	2	1	-	10	-	3	-	-	-			
	3	70	2.29	3	22	58	1	17	4	1	3	7	-	2	1	1	-			
	4	47	1.53	4	10	39	3	10	1	1	-	6	-	-	1	-	-			
	5	62	2.02	7	25	55	5	22	3	2	1	4	-	2	-	-	-			
	6	82	2.68	18	26	75	16	22	2	1	1	5	1	3	-	-	-			
	7	128	4.18	13	48	108	8	42	6	5	-	14	-	6	-	-	-			
	8	158	5.16	27	88	124	20	75	5	3	-	29	4	13	-	-	-			
	9	163	5.32	14	54	114	7	44	10	5	1	38	1	9	1	1	-			
	10	183	5.97	19	72	148	15	60	9	4	4	24	-	8	2	-	-			
	11	180	5.88	26	49	145	20	36	5	4	1	30	2	12	-	-	-			
	12	90	2.94	11	23	75	8	18	7	3	4	8	-	1	-	-	-			
	Total	1,343	43.85	160	452	1,099	114	376	60	35	16	179	9	60	5	2	-			
PM	1	172	5.62	23	73	135	10	52	9	6	3	25	5	16	3	2	2			
	2	183	5.97	22	78	150	18	62	7	3	1	25	1	14	1	-	1			
	3	173	5.65	21	66	127	15	58	6	4	1	39	2	7	1	-	-			
	4	161	5.26	21	50	133	15	44	7	4	2	20	2	4	1	-	-			
	5	176	5.75	15	71	142	6	61	8	5	3	25	3	7	1	1	-			
	6	141	4.60	24	48	116	18	41	7	5	-	18	1	7	-	-	-			
	7	126	4.11	18	55	105	13	53	9	4	1	11	-	1	1	1	-			
	8	93	3.04	16	33	76	9	30	9	7	2	8	-	1	-	-	-			
	9	105	3.43	10	33	85	7	26	8	2	5	11	-	2	1	1	-			
	10	112	3.66	6	38	90	3	32	6	3	3	16	-	3	-	-	-			
	11	94	3.07	10	28	84	8	24	6	1	4	4	1	-	-	-	-			
	12	184	6.01	22	56	154	13	40	6	3	2	24	6	14	-	-	-			
	Total	1,720	56.15	208	629	1,397	135	523	88	47	27	226	21	76	9	5	3			
Total	3,063	100.0	368	1081	2,496	249	899	148	82	43	405	30	136	14	7	3				

**TABLE 7-7 TOTAL HIGHWAY-RAIL INCIDENTS BY TYPE HIGHWAY USER, 2004**
**Rail Equip Struck Highway User**

Highway User					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
Car	1,035	33.79	135	319	946	123	293	-	-	-	89	12	26	-	-	-
Truck	272	8.88	25	110	210	18	77	-	-	-	62	7	33	-	-	-
Trk& Trail	399	13.03	17	140	297	14	110	-	-	-	102	3	30	-	-	-
Pickup Trk	353	11.52	51	140	285	44	111	-	-	-	68	7	29	-	-	-
Van	91	2.97	10	35	77	10	31	-	-	-	14	-	4	-	-	-
Bus	3	0.10	-	-	3	-	-	-	-	-	-	-	-	-	-	-
School Bus	4	0.13	-	7	4	-	7	-	-	-	-	-	-	-	-	-
Motorcycle	6	0.20	1	3	5	-	3	-	-	-	1	1	-	-	-	-
Oth Mtr V.	79	2.58	7	21	57	7	13	-	-	-	22	-	8	-	-	-
Pedestrian	105	3.43	73	25	-	-	-	99	69	25	-	-	-	6	4	-
Other	44	1.44	12	14	-	-	-	36	9	11	-	-	-	8	3	3
Total	2,391	78.06	331	814	1,884	216	645	135	78	36	358	30	130	14	7	3

**Highway User Struck Rail Equip**

Highway User							At Public Crossing						At Private Crossing		
	Total Incidents		Total		Motor Vehicle			Other			Motor Vehicle				
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal		
Car	389	12.70	15	167	378	15	164	-	-	-	11	-	3		
Truck	70	2.29	3	29	61	3	29	-	-	-	9	-	-		
Trk& Trail	32	1.04	-	9	19	-	9	-	-	-	13	-	-		
Pickup Trk	131	4.28	12	40	120	12	38	-	-	-	11	-	2		
Van	23	0.75	-	11	22	-	11	-	-	-	1	-	-		
Motorcycle	4	0.13	2	2	4	2	2	-	-	-	-	-	-		
Oth Mtr V.	10	0.33	1	2	8	1	1	-	-	-	2	-	1		
Pedestrian	6	0.20	-	5	-	-	-	6	-	5	-	-	-		
Other	7	0.23	4	2	-	-	-	7	4	2	-	-	-		
Total	672	21.94	37	267	612	33	254	13	4	7	47	-	6		

**Grand Total**

Highway User					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
Car	1,424	46.49	150	486	1,324	138	457	-	-	-	100	12	29	-	-	-
Truck	342	11.17	28	139	271	21	106	-	-	-	71	7	33	-	-	-
Trk& Trail	431	14.07	17	149	316	14	119	-	-	-	115	3	30	-	-	-
Pickup Trk	484	15.80	63	180	405	56	149	-	-	-	79	7	31	-	-	-
Van	114	3.72	10	46	99	10	42	-	-	-	15	-	4	-	-	-
Bus	3	0.10	-	-	3	-	-	-	-	-	-	-	-	-	-	-
School Bus	4	0.13	-	7	4	-	7	-	-	-	-	-	-	-	-	-
Motorcycle	10	0.33	3	5	9	2	5	-	-	-	1	1	-	-	-	-
Oth Mtr V.	89	2.91	8	23	65	8	14	-	-	-	24	-	9	-	-	-
Pedestrian	111	3.62	73	30	-	-	-	105	69	30	-	-	-	6	4	-
Other	51	1.67	16	16	-	-	-	43	13	13	-	-	-	8	3	3
Total	3,063	100.0	368	1081	2,496	249	899	148	82	43	405	30	136	14	7	3



**TABLE 7-8 HIGHWAY-RAIL INCIDENTS BY USERS, 2004**
**Rail Equip Struck Highway User**

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	1,035	33.8	803	73	27	6	2	-	48	57	15	4
Truck	272	8.9	199	16	4	4	-	-	24	19	5	1
Trk& Trail	399	13.0	292	23	2	2	-	-	45	29	3	3
Pickup Trk	353	11.5	264	24	2	4	-	-	26	24	6	3
Van	91	3.0	70	4	3	-	-	-	8	5	1	-
Bus	3	0.1	2	-	-	-	-	-	-	-	1	-
School Bus	4	0.1	3	1	-	-	-	-	-	-	-	-
Motorcycle	6	0.2	5	-	-	1	-	-	-	-	-	-
Oth Mtr V.	79	2.6	61	4	1	1	-	1	2	8	-	1
Pedestrian	105	3.4	69	23	10	-	-	-	2	1	-	-
Other	44	1.4	32	4	2	-	-	-	1	5	-	-
<b>Total</b>	<b>2,391</b>	<b>78.1</b>	<b>1,800</b>	<b>172</b>	<b>51</b>	<b>18</b>	<b>2</b>	<b>1</b>	<b>156</b>	<b>148</b>	<b>31</b>	<b>12</b>

**Highway User Struck Rail Equip**

Highway User	Total		Freight Train	Psgr Train	Commuter Train	Cut of Cars	Yard/ Switch	Light loco(s)	Maint Insp car	Spec MOW Eqp
	Cnt	%								
Car	389	12.7	298	10	3	1	37	29	8	3
Truck	70	2.3	47	2	1	1	11	8	-	-
Trk& Trail	32	1.0	15	1	-	1	11	3	1	-
Pickup Trk	131	4.3	98	1	2	-	12	16	2	-
Van	23	0.8	15	-	-	1	2	4	-	1
Motorcycle	4	0.1	2	-	1	-	1	-	-	-
Oth Mtr V.	10	0.3	8	1	-	-	1	-	-	-
Pedestrian	6	0.2	5	-	1	-	-	-	-	-
Other	7	0.2	4	-	2	-	-	1	-	-
<b>Total</b>	<b>672</b>	<b>21.9</b>	<b>492</b>	<b>15</b>	<b>10</b>	<b>4</b>	<b>75</b>	<b>61</b>	<b>11</b>	<b>4</b>

**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	1,424	46.5	1,101	83	30	6	2	1	85	86	23	7
Truck	342	11.2	246	18	5	4	-	1	35	27	5	1
Trk& Trail	431	14.1	307	24	2	2	-	1	56	32	4	3
Pickup Trk	484	15.8	362	25	4	4	-	-	38	40	8	3
Van	114	3.7	85	4	3	-	-	1	10	9	1	1
Bus	3	0.1	2	-	-	-	-	-	-	-	1	-
School Bus	4	0.1	3	1	-	-	-	-	-	-	-	-
Motorcycle	10	0.3	7	-	1	1	-	-	1	-	-	-
Oth Mtr V.	89	2.9	69	5	1	1	-	1	3	8	-	1
Pedestrian	111	3.6	74	23	11	-	-	-	2	1	-	-
Other	51	1.7	36	4	4	-	-	-	1	6	-	-
<b>Total</b>	<b>3,063</b>	<b>100.0</b>	<b>2,292</b>	<b>187</b>	<b>61</b>	<b>18</b>	<b>2</b>	<b>5</b>	<b>231</b>	<b>209</b>	<b>42</b>	<b>16</b>

**TABLE 7-9 TOTAL HIGHWAY-RAIL INCIDENTS BY WARNING DEVICE, 2004**

Warning	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
Unknown	116	3.79	4	25	14	-	9	-	-	-	97	1	15	5	3	1
Other	6	0.20	-	2	1	-	-	-	-	-	5	-	2	-	-	-
Cross bucks	872	28.47	85	335	755	66	287	14	3	4	100	14	44	3	2	-
Stop signs	425	13.88	57	155	268	42	95	2	-	-	151	13	58	4	2	2
Special warning	39	1.27	-	7	30	-	7	-	-	-	9	-	-	-	-	-
HWTs,WW,Bells	36	1.18	-	11	30	-	9	1	-	1	5	-	1	-	-	-
Flashing lights	573	18.71	59	238	535	51	216	16	6	9	20	2	13	2	-	-
Gates	996	32.52	163	308	863	90	276	115	73	29	18	-	3	-	-	-
Total	3,063	100.0	368	1,081	2,496	249	899	148	82	43	405	30	136	14	7	3

**TABLE 7-10 TOTAL HIGHWAY-RAIL INCIDENTS BY WEATHER, 2004**
**Rail Equip Struck Highway User**

Type Weather	Total Incidents		At Public Crossing									At Private Crossing					
			Total		Motor Vehicle			Other				Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
Clear	1,623	52.99	243	553	1,263	157	428	102	58	31	246	23	91	12	5	3	
Cloudy	548	17.89	69	205	441	48	170	24	14	4	82	6	31	1	1	-	
Rain	146	4.77	14	42	119	9	35	6	4	1	20	-	6	1	1	-	
Fog	23	0.75	5	5	16	2	3	2	2	-	5	1	2	-	-	-	
Sleet	5	0.16	-	-	4	-	-	-	-	-	1	-	-	-	-	-	
Snow	46	1.50	-	9	41	-	9	1	-	-	4	-	-	-	-	-	
Total	2,391	78.06	331	814	1,884	216	645	135	78	36	358	30	130	14	7	3	

**Highway User Struck Rail Equip**

Type Weather	Total Incidents		At Public Crossing									At Private Crossing		
			Total		Motor Vehicle			Other				Motor Vehicle		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
Clear	436	14.23	30	175	397	26	166	11	4	6	28	-	3	
Cloudy	142	4.64	4	57	128	4	54	1	-	1	13	-	2	
Rain	55	1.80	2	18	51	2	17	-	-	-	4	-	1	
Fog	16	0.52	1	12	15	1	12	-	-	-	1	-	-	
Sleet	3	0.10	-	2	3	-	2	-	-	-	-	-	-	
Snow	20	0.65	-	3	18	-	3	1	-	-	1	-	-	
Total	672	21.94	37	267	612	33	254	13	4	7	47	-	6	

**Grand total**

Type Weather	Total Incidents		At Public Crossing									At Private Crossing					
			Total		Motor Vehicle			Other				Motor Vehicle			Other		
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
Clear	2,059	67.22	273	728	1,660	183	594	113	62	37	274	23	94	12	5	3	
Cloudy	690	22.53	73	262	569	52	224	25	14	5	95	6	33	1	1	-	
Rain	201	6.56	16	60	170	11	52	6	4	1	24	-	7	1	1	-	
Fog	39	1.27	6	17	31	3	15	2	2	-	6	1	2	-	-	-	
Sleet	8	0.26	-	2	7	-	2	-	-	-	1	-	-	-	-	-	
Snow	66	2.15	-	12	59	-	12	2	-	-	5	-	-	-	-	-	
Total	3,063	100.0	368	1,081	2,496	249	899	148	82	43	405	30	136	14	7	3	

## 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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### CHAPTER 8

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**TABLE 8-1 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS BY STATE, 2004**

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	101	3.03	2.30	1.51	9	0.27	0.20	0.13	34	1.02	7.73	0.05
Alaska	1	0.44	0.15	0.21	.	.	.	.	.	.	.	.
Arizona	26	2.89	0.69	0.88	.	.	.	.	9	1.00	2.38	0.03
Arkansas	63	2.06	3.27	1.73	7	0.23	0.36	0.19	26	0.85	13.49	0.07
California	106	1.37	0.34	0.26	15	0.19	0.05	0.04	37	0.48	1.20	0.01
Colorado	26	1.38	1.28	0.70	.	.	.	.	11	0.58	5.40	0.03
Connecticut	6	1.62	0.20	0.46	2	0.54	0.07	0.15	.	.	.	.
Delaware	5	1.68	0.71	0.47	.	.	.	.	5	1.68	7.12	0.05
Dist Of Columbia	.	.	.	.	.	.	.	.	.	.	.	.
Florida	82	2.13	0.55	0.44	7	0.18	0.05	0.04	31	0.80	2.08	0.02
Georgia	131	2.27	1.67	1.47	11	0.19	0.14	0.12	37	0.64	4.71	0.04
Hawaii	1	12.50	.	3.70	.	.	.	.	.	.	.	.
Idaho	18	1.38	1.34	1.04	3	0.23	0.22	0.17	5	0.38	3.72	0.03
Illinois	143	1.75	1.50	0.67	17	0.21	0.18	0.08	61	0.75	6.41	0.03
Indiana	139	2.29	2.36	0.98	19	0.31	0.32	0.13	34	0.56	5.78	0.02
Iowa	73	1.62	2.08	1.61	4	0.09	0.11	0.09	25	0.55	7.12	0.06
Kansas	62	1.00	2.62	1.20	7	0.11	0.30	0.13	12	0.19	5.06	0.02
Kentucky	61	2.52	1.77	1.59	6	0.25	0.17	0.16	21	0.87	6.10	0.05
Louisiana	144	4.19	3.82	2.08	22	0.64	0.58	0.32	55	1.60	14.59	0.08
Maine	4	0.48	0.37	0.20	.	.	.	.	2	0.24	1.84	0.01
Maryland	7	1.01	0.18	0.28	.	.	.	.	3	0.43	0.76	0.01
Massachusetts	13	1.61	0.23	0.26	1	0.12	0.02	0.02	6	0.75	1.07	0.01
Michigan	95	1.78	1.08	0.64	8	0.15	0.09	0.05	29	0.54	3.31	0.02
Minnesota	70	1.42	1.49	1.06	11	0.22	0.23	0.17	23	0.47	4.89	0.03
Mississippi	77	3.14	3.89	1.76	10	0.41	0.51	0.23	42	1.71	21.23	0.10
Missouri	43	0.93	0.95	0.89	8	0.17	0.18	0.17	22	0.48	4.85	0.05
Montana	13	0.90	1.21	1.02	.	.	.	.	4	0.28	3.72	0.03
Nebraska	45	1.21	2.64	1.87	5	0.13	0.29	0.21	14	0.37	8.21	0.06
Nevada	2	0.67	0.16	0.22	.	.	.	.	.	.	.	.
New Hampshire	1	0.25	0.08	0.10	.	.	.	.	.	.	.	.
New Jersey	36	2.36	0.53	0.41	5	0.33	0.07	0.06	7	0.46	1.02	0.01
New Mexico	11	1.49	0.71	1.24	2	0.27	0.13	0.23	3	0.41	1.95	0.03
New York	27	0.92	0.25	0.35	3	0.10	0.03	0.04	28	0.96	2.56	0.04
North Carolina	56	1.27	0.90	0.63	7	0.16	0.11	0.08	18	0.41	2.90	0.02
North Dakota	13	0.32	1.82	1.12	.	.	.	.	11	0.27	15.42	0.09
Ohio	116	1.85	1.07	0.82	11	0.18	0.10	0.08	32	0.51	2.96	0.02
Oklahoma	52	1.27	1.65	1.17	9	0.22	0.29	0.20	26	0.63	8.26	0.06
Oregon	14	0.62	0.45	0.31	2	0.09	0.06	0.04	5	0.22	1.59	0.01
Pennsylvania	64	1.34	0.64	0.45	.	.	.	.	14	0.29	1.40	0.01
Rhode Island	.	.	.	.	.	.	.	.	.	.	.	.
South Carolina	62	2.18	1.93	0.89	10	0.35	0.31	0.14	23	0.81	7.14	0.03
South Dakota	16	0.75	1.85	1.26	.	.	.	.	9	0.42	10.41	0.07
Tennessee	65	2.05	1.33	0.98	5	0.16	0.10	0.08	23	0.73	4.70	0.03
Texas	241	2.20	1.59	0.65	18	0.16	0.12	0.05	91	0.83	6.01	0.02
Utah	8	0.88	0.39	0.49	1	0.11	0.05	0.06	7	0.77	3.42	0.04
Vermont	4	0.80	0.74	0.52	.	.	.	.	2	0.40	3.69	0.03
Virginia	39	1.91	0.61	0.67	.	.	.	.	16	0.78	2.49	0.03
Washington	36	1.36	0.65	0.74	.	.	.	.	9	0.34	1.63	0.02
West Virginia	19	1.24	1.33	1.14	.	.	.	.	4	0.26	2.80	0.02
Wisconsin	58	1.40	1.19	0.62	4	0.10	0.08	0.04	23	0.56	4.71	0.02
Wyoming	1	0.25	0.15	0.29	.	.	.	.	.	.	.	.
Total...	2,496	1.69	1.06	0.75	249	0.17	0.11	0.07	899	0.61	3.81	0.03

**TABLE 8-2 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS  
BY WARNING DEVICE, 2004**

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	14	0.30	0.20	.	.	.	9	0.19	0.01	4,651
Other	1	0.18	0.15	.	.	.	.	.	.	556
Cross bucks	755	1.16	1.58	66	0.10	0.14	287	0.44	0.06	64,985
Stop signs	268	2.31	4.04	42	0.36	0.63	95	0.82	0.14	11,584
Special warning	30	1.05	0.31	.	.	.	7	0.25	0.01	2,845
HWTS,WW,Bells	30	2.44	0.56	.	.	.	9	0.73	0.02	1,230
Flashing lights	535	2.13	0.53	51	0.20	0.05	216	0.86	0.02	25,067
Gates	863	2.35	0.55	90	0.24	0.06	276	0.75	0.02	36,763
Total	2,496	1.69	0.75	249	0.17	0.07	899	0.61	0.03	147,681

**TABLES 8-3 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY RAILROAD AND TYPE WARNING, 2004**

Railroads	Types of Warning								Type Incident	
	Unknown	Other	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	-	-	13	5	-	2	11	75	98	8
Burlington Northern Santa Fe	-	-	127	19	5	3	64	135	274	79
Belt Rwy Of Chicago	-	-	-	-	1	-	1	-	2	-
Conrail Shared Assets	3	-	7	-	-	-	10	1	14	7
CSX Transportation	3	-	98	50	1	2	99	168	321	100
Delaware & Hudson	-	-	1	-	-	-	-	1	2	-
Dakota,Minnesota & Eastern	-	-	3	5	-	-	5	2	8	7
Duluth,Missabe & Iron Range	-	-	1	-	-	-	-	-	-	1
Elgin, Joliet & Eastern	-	-	-	-	-	-	1	1	1	1
Florida East Coast	-	-	-	-	-	-	-	23	16	7
Guilford Rail System	-	-	1	-	-	-	1	-	1	1
Grand Trunk Western RR	-	-	1	8	-	-	1	10	14	6
Illinois Central	-	-	34	20	-	1	28	7	70	20
Iowa Chicago & Eastern RR	-	-	8	2	-	-	1	-	7	4
Indiana Harbor Belt	-	-	1	-	-	-	-	2	-	3
Kansas City Southern	1	-	49	-	-	-	39	15	78	26
Long Island Rail Road	2	-	-	-	-	-	-	5	6	1
MD Assn. of Rail Comm	-	-	-	-	-	-	-	1	1	-
Mass Bay Transit Auth.	-	-	-	-	-	-	2	6	7	1
Montreal, Maine & Atlantic	-	-	-	-	-	-	1	-	-	1
Metro North Commuter	-	-	-	-	-	-	-	2	2	-
Montana Rail Link	-	-	6	-	-	-	2	1	6	3
Northern IN Comm Trans	-	-	-	1	-	-	2	-	2	1
Northeast IL Reg Comm	-	-	-	-	-	-	1	20	17	4
New Jersey Transit Rail	-	-	-	-	-	-	1	10	10	1
Norfolk Southern Corp.	3	1	117	54	8	9	112	154	381	77
OTHER	1	-	124	26	8	10	56	27	149	103
Paducah & Louisville	-	-	3	-	-	-	6	-	5	4
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	3	3	-
Port Terminal RR Assn	-	-	1	-	-	-	-	1	-	2
Southern CA Reg Rail Auth.	-	-	-	-	-	-	-	10	9	1
Southeastern PA Trans.	-	-	-	-	-	-	-	6	4	2
Soo Line	-	-	8	7	1	-	3	4	14	9
Texas Mexican	1	-	5	-	-	-	1	4	10	1
Term RR Assn Of St. Louis	-	-	1	-	-	-	-	1	-	2
Union Pacific	-	-	116	61	4	3	72	162	320	98
Wisconsin Central Ltd.	-	-	20	9	2	-	10	5	21	25
Wheeling & Lake Erie	-	-	10	-	-	-	2	-	9	3
Wisconsin & Southern RR	-	-	-	1	-	-	3	-	1	3
<b>Total</b>	<b>14</b>	<b>1</b>	<b>755</b>	<b>268</b>	<b>30</b>	<b>30</b>	<b>535</b>	<b>863</b>	<b>1,884</b>	<b>612</b>



**TABLES 8-4 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY STATE AND TYPE WARNING, 2004**

States	Type of Warning							
	Unknown	Other	Cross bucks	Stop signs	Special warning	HWTs,WW,Bells	Flashing lights	Gates
Alabama	-	-	27	29	2	2	24	17
Alaska	-	-	-	-	-	-	-	1
Arizona	-	-	-	-	-	1	10	15
Arkansas	-	-	21	13	1	1	20	7
California	-	-	5	7	1	2	12	79
Colorado	-	-	14	3	-	-	3	6
Connecticut	-	-	-	-	-	-	1	5
Delaware	-	-	1	-	-	-	-	4
Florida	-	-	6	4	-	-	11	61
Georgia	-	1	29	34	2	1	18	46
Hawaii	-	-	-	-	-	1	-	-
Idaho	-	-	3	7	1	-	6	1
Illinois	-	-	40	2	3	-	30	68
Indiana	-	-	25	17	1	3	31	62
Iowa	-	-	31	8	1	1	22	10
Kansas	-	-	40	1	1	2	5	13
Kentucky	2	-	17	-	2	-	27	13
Louisiana	1	-	53	28	1	2	40	19
Maine	-	-	3	-	-	-	1	-
Maryland	-	-	2	-	-	1	1	3
Massachusetts	-	-	1	-	-	-	6	6
Michigan	1	-	29	19	-	2	26	18
Minnesota	-	-	27	22	-	-	8	13
Mississippi	1	-	23	8	-	-	35	10
Missouri	-	-	22	2	1	1	4	13
Montana	-	-	9	1	-	-	2	1
Nebraska	-	-	22	5	-	-	2	16
Nevada	-	-	-	-	-	-	-	2
New Hampshire	-	-	-	-	-	1	-	-
New Jersey	2	-	5	-	1	3	10	15
New Mexico	-	-	5	1	-	-	1	4
New York	2	-	3	-	1	-	3	18
North Carolina	1	-	19	1	-	-	11	24
North Dakota	-	-	11	-	-	-	-	2
Ohio	-	-	43	2	-	-	19	52
Oklahoma	-	-	21	4	-	-	15	12
Oregon	-	-	2	3	-	1	1	7
Pennsylvania	3	-	21	5	1	-	17	17
South Carolina	-	-	17	11	-	1	14	19
South Dakota	-	-	5	2	-	-	7	2
Tennessee	-	-	22	3	-	1	22	17
Texas	1	-	77	9	2	3	33	116
Utah	-	-	2	2	-	-	1	3
Vermont	-	-	3	-	-	-	1	-
Virginia	-	-	10	2	1	-	8	18
Washington	-	-	14	4	3	-	6	9
West Virginia	-	-	6	-	-	-	5	8
Wisconsin	-	-	19	9	4	-	16	10
Wyoming	-	-	-	-	-	-	-	1
<b>Total</b>	<b>14</b>	<b>1</b>	<b>755</b>	<b>268</b>	<b>30</b>	<b>30</b>	<b>535</b>	<b>863</b>

**TABLE 8-5 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING,  
BY TYPE CONSIST AND CONSIST SPEED, 2004**

**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	Unk	Yes	No
Unknown	-	-	-	-	-	-	-	-	-	-	-
1-9	288	129	8	4	17	88	38	4	9	17	262
10-19	236	172	9	2	9	13	27	4	8	8	220
20-29	320	279	13	5	-	3	20	-	8	10	302
30-39	327	302	14	-	1	-	10	-	11	10	306
40-49	397	362	23	2	1	1	8	-	13	10	374
50-59	182	168	11	1	-	-	2	-	7	9	166
>= 60	134	39	90	-	-	-	5	-	8	6	120
Total	1,884	1,451	168	14	28	105	110	8	64	70	1,750

**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	Unk	Yes	No	
Unknown	58	41	-	-	4	11	2	-	2	1	55	
1-9	171	93	1	-	6	41	26	4	10	4	157	
10-19	116	86	5	-	4	9	12	-	2	6	108	
20-29	100	87	5	-	1	1	6	-	3	3	94	
30-39	70	65	2	-	-	-	3	-	3	-	67	
40-49	64	59	1	-	-	-	4	-	2	-	62	
50-59	22	21	1	-	-	-	-	-	1	-	21	
>= 60	11	6	5	-	-	-	-	-	2	-	9	
Total	612	458	20	-	15	62	53	4	25	14	573	

**Grand Total**

Grand Total:											
Consist Speed								Whistle Ban?			
	Total	Freight Train	Psg Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	Unk	Yes	No
Unknown	58	41	-	-	4	11	2	-	2	1	55
1-9	459	222	9	4	23	129	64	8	19	21	419
10-19	352	258	14	2	13	22	39	4	10	14	328
20-29	420	366	18	5	1	4	26	-	11	13	396
30-39	397	367	16	-	1	-	13	-	14	10	373
40-49	461	421	24	2	1	1	12	-	15	10	436
50-59	204	189	12	1	-	-	2	-	8	9	187
>= 60	145	45	95	-	-	-	5	-	10	6	129
Total	2,496	1,909	188	14	43	167	163	12	89	84	2,323

**TABLE 8-6 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY TYPE WARNING, MOTORIST ACTION, AND WARNING LOCATION, 2004**

**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	12	0.5	-	1	7	2	2	10	2	-	-
Other	1	0.0	-	-	1	-	-	-	1	-	-
Cross bucks	547	21.9	-	39	354	139	15	3	513	27	4
Stop signs	223	8.9	-	35	129	56	3	-	215	5	3
Special warning	15	0.6	-	1	12	-	2	-	10	3	2
HWTS,WW,Bells	19	0.8	-	1	11	7	-	-	16	2	1
Flashing lights	367	14.7	-	46	204	107	10	1	354	12	-
Gates	700	28.0	191	17	60	333	99	-	690	10	-
Total	1,884	75.5	191	140	778	644	131	14	1,801	59	10

**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	2	0.1	-	-	2	-	-	1	1	-	-
Other	-	0.0	-	-	-	-	-	-	-	-	-
Cross bucks	208	8.3	-	10	191	-	7	-	193	15	-
Stop signs	45	1.8	-	6	39	-	-	-	42	2	1
Special warning	15	0.6	-	3	11	-	1	-	12	2	1
HWTS,WW,Bells	11	0.4	-	2	9	-	-	-	10	1	-
Flashing lights	168	6.7	-	17	144	-	7	-	164	4	-
Gates	163	6.5	96	10	48	-	9	-	156	6	1
Total	612	24.5	96	48	444	-	24	1	578	30	3

**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	14	0.6	-	1	9	2	2	11	3	-	-
Other	1	0.0	-	-	1	-	-	-	1	-	-
Cross bucks	755	30.2	-	49	545	139	22	3	706	42	4
Stop signs	268	10.7	-	41	168	56	3	-	257	7	4
Special warning	30	1.2	-	4	23	-	3	-	22	5	3
HWTS,WW,Bells	30	1.2	-	3	20	7	-	-	26	3	1
Flashing lights	535	21.4	-	63	348	107	17	1	518	16	-
Gates	863	34.6	287	27	108	333	108	-	846	16	1
Total	2,496	100.0	287	188	1,222	644	155	15	2,379	89	13

**TABLE 8-7 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY TYPE VEHICLE, VEHICLE SPEED AND DRIVER GENDER, 2004**

**Rail Equip Struck Highway User**

Vehicle Speed								Driver Gender		
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	84	45	18	13	3	2	3	1	57	26
Stopped	718	418	134	106	37	-	23	43	485	190
1-9	493	198	159	99	15	3	19	13	375	105
10-19	323	148	100	51	11	1	12	13	233	77
20-29	145	73	49	15	5	-	3	6	99	40
30-39	67	36	19	8	1	1	2	4	42	21
40-49	31	19	8	3	1	-	-	1	23	7
50-59	18	6	6	2	4	-	-	1	13	4
>= 60	5	3	2	-	-	-	-	-	4	1
<b>Total</b>	<b>1,884</b>	<b>946</b>	<b>495</b>	<b>297</b>	<b>77</b>	<b>7</b>	<b>62</b>	<b>82</b>	<b>1,331</b>	<b>471</b>

**Highway User Struck Rail Equip**

Vehicle Speed								Driver Gender		
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	26	18	6	1	1	-	-	2	14	10
Stopped	1	1	-	-	-	-	-	-	-	1
1-9	188	114	60	6	5	-	3	2	137	49
10-19	128	85	34	1	6	-	2	8	91	29
20-29	79	51	20	2	3	-	3	2	65	12
30-39	79	53	21	2	3	-	-	3	57	19
40-49	63	34	22	3	2	-	2	1	51	11
50-59	32	16	11	2	1	-	2	-	24	8
>= 60	16	6	7	2	1	-	-	-	15	1
<b>Total</b>	<b>612</b>	<b>378</b>	<b>181</b>	<b>19</b>	<b>22</b>	<b>-</b>	<b>12</b>	<b>18</b>	<b>454</b>	<b>140</b>

**Grand Total**

Vehicle Speed								Driver Gender		
	Total	Car	Trucks	Trk& Trail	Van	Buses	Oth Mtr V.	?	M	F
Unknown	110	63	24	14	4	2	3	3	71	36
Stopped	719	419	134	106	37	-	23	43	485	191
1-9	681	312	219	105	20	3	22	15	512	154
10-19	451	233	134	52	17	1	14	21	324	106
20-29	224	124	69	17	8	-	6	8	164	52
30-39	146	89	40	10	4	1	2	7	99	40
40-49	94	53	30	6	3	-	2	2	74	18
50-59	50	22	17	4	5	-	2	1	37	12
>= 60	21	9	9	2	1	-	-	-	19	2
<b>Total</b>	<b>2,496</b>	<b>1,324</b>	<b>676</b>	<b>316</b>	<b>99</b>	<b>7</b>	<b>74</b>	<b>100</b>	<b>1,785</b>	<b>611</b>

**TABLE 8-8 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,  
BY VEHICLE SPEED, WEATHER AND CONDITION OF DRIVER, 2004**

**Rail Equip Struck Highway User**

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	84	54	24	2	-	-	4	-	3	19	62
Stopped	718	462	163	56	10	4	23	8	29	81	600
1-9	493	338	124	29	-	-	2	1	46	136	310
10-19	323	224	74	16	1	-	8	-	41	84	198
20-29	145	104	31	6	2	-	2	-	29	29	87
30-39	67	42	15	7	1	-	2	-	9	22	36
40-49	31	22	5	2	2	-	-	-	-	16	15
50-59	18	13	5	-	-	-	-	-	5	5	8
>= 60	5	4	-	1	-	-	-	1	2	1	1
<b>Total</b>	<b>1,884</b>	<b>1,263</b>	<b>441</b>	<b>119</b>	<b>16</b>	<b>4</b>	<b>41</b>	<b>10</b>	<b>164</b>	<b>393</b>	<b>1,317</b>

**Highway User Struck Rail Equip**

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	26	18	4	3	1	-	-	-	2	10	14
Stopped	1	1	-	-	-	-	-	-	-	1	-
1-9	188	121	47	15	3	1	1	1	4	47	136
10-19	128	85	21	10	2	-	10	-	3	27	98
20-29	79	49	17	6	3	1	3	-	4	21	54
30-39	79	44	25	7	1	-	2	1	3	28	47
40-49	63	43	7	8	4	1	-	-	3	28	32
50-59	32	23	6	1	1	-	1	-	2	13	17
>= 60	16	13	1	1	-	-	1	-	5	6	5
<b>Total</b>	<b>612</b>	<b>397</b>	<b>128</b>	<b>51</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>2</b>	<b>26</b>	<b>181</b>	<b>403</b>

**Grand Total**

Vehicle Speed									Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	110	72	28	5	1	-	4	-	5	29	76
Stopped	719	463	163	56	10	4	23	8	29	82	600
1-9	681	459	171	44	3	1	3	2	50	183	446
10-19	451	309	95	26	3	-	18	-	44	111	296
20-29	224	153	48	12	5	1	5	-	33	50	141
30-39	146	86	40	14	2	-	4	1	12	50	83
40-49	94	65	12	10	6	1	-	-	3	44	47
50-59	50	36	11	1	1	-	1	-	7	18	25
>= 60	21	17	1	2	-	-	1	1	7	7	6
<b>Total</b>	<b>2,496</b>	<b>1,660</b>	<b>569</b>	<b>170</b>	<b>31</b>	<b>7</b>	<b>59</b>	<b>12</b>	<b>190</b>	<b>574</b>	<b>1,720</b>

**TABLE 8-9 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,  
BY DRIVER AGE, GENDER, AND TYPE VEHICLE, 2004**

Age	Total		Type Vehicle										Driver Gender		
	Cnt	%	Car	Truck	Trk& Trail	Pickup Trk	Van	Bus	School Bus	Motorcycle	Oth Mtr V.	?	M	F	
Unknown	416	16.7	225	37	48	75	16	-	2	1	12	96	266	54	
6-10	1	0.0	1	-	-	-	-	-	-	-	-	-	1	-	
11-15	5	0.2	5	-	-	-	-	-	-	-	-	-	-	5	
16-20	243	9.7	172	20	1	40	7	-	-	-	3	1	159	83	
21-25	306	12.3	199	31	10	47	12	-	-	1	6	3	231	72	
26-30	234	9.4	124	31	23	36	9	-	1	3	7	-	169	65	
31-35	231	9.3	116	29	40	35	7	-	-	2	2	-	172	59	
36-40	203	8.1	83	28	36	37	12	1	1	-	5	-	151	52	
41-45	183	7.3	74	23	47	21	10	2	-	1	5	-	131	52	
46-50	180	7.2	75	23	41	29	7	-	-	-	5	-	141	39	
51-55	122	4.9	53	15	22	21	6	-	-	-	5	-	95	27	
56-60	93	3.7	31	14	20	16	1	-	-	1	10	-	72	21	
61-65	72	2.9	32	4	16	14	4	-	-	-	2	-	57	15	
66-70	50	2.0	28	5	9	5	2	-	-	-	1	-	34	16	
Other	157	6.3	106	11	3	29	6	-	-	-	2	-	106	51	
Total	2,496	100.0	1,324	271	316	405	99	3	4	9	65	100	1,785	611	

**TABLE 8-10 MOTOR VEHICLES THAT STRUCK CONSIST AT PUBLIC CROSSINGS,  
BY CONSIST LENGTH, PORTION OF TRAIN STRUCK AND WARNING TYPE, 2004**

Consist Length	Position of Consist Struck						Type of Warning						
	Total	1st car/ loco	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Unknown	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates
1	37	36	1	-	-	-	1	10	2	-	1	9	14
2-5	94	68	1	5	3	17	-	35	5	10	2	22	20
6-10	56	41	1	6	5	3	-	23	4	2	3	11	13
11-15	40	23	5	3	3	6	-	16	5	1	1	13	4
16-20	25	15	3	4	1	2	-	12	-	1	1	8	3
21-25	30	15	3	3	2	7	1	11	3	-	-	8	7
26-30	15	9	-	2	-	4	-	6	2	-	1	2	4
31-35	20	9	3	5	3	-	-	7	-	-	-	8	5
36-40	17	10	2	-	3	2	-	7	2	-	-	4	4
41-45	17	11	3	1	1	1	-	6	2	-	-	2	7
46-50	10	3	4	1	-	2	-	3	-	-	1	4	2
51-60	40	16	12	8	3	1	-	8	3	-	-	15	14
61-70	34	14	9	3	2	6	-	8	3	-	-	12	11
71-80	34	16	9	2	3	4	-	13	3	-	-	7	11
81-90	23	10	5	3	2	3	-	7	4	-	-	3	9
91-100	30	13	5	3	3	6	-	9	1	1	-	12	7
> 100	90	30	25	7	15	13	-	27	6	-	1	28	28
-Total	612	339	91	56	49	77	2	208	45	15	11	168	163

**TABLE 8-11 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,  
BY CONSIST LENGTH, TYPE CONSIST, AND DRIVER GENDER, 2004**

**Rail Equip Struck Highway User**

Consist Length										Driver Gender	
	Total	Freight Train	Psgr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	?	M	F
???	1	-	-	-	-	-	-	1	-	1	-
1	84	-	-	-	27	-	51	6	3	64	17
2-5	194	51	51	5	-	32	54	1	5	131	58
6-10	200	92	74	2	1	27	4	-	13	138	49
11-15	104	62	26	1	-	14	1	-	5	77	22
16-20	62	45	5	2	-	10	-	-	1	43	18
21-25	74	62	4	1	-	7	-	-	7	48	19
26-30	63	58	3	-	-	2	-	-	4	51	8
31-35	65	63	-	1	-	1	-	-	2	46	17
36-40	53	53	-	-	-	-	-	-	2	35	16
41-45	75	70	3	1	-	1	-	-	2	63	10
46-50	53	49	1	1	-	2	-	-	5	37	11
51-60	117	115	-	-	-	2	-	-	5	82	30
61-70	120	118	1	-	-	1	-	-	6	84	30
71-80	139	137	-	-	-	2	-	-	5	97	37
81-90	101	100	-	-	-	1	-	-	7	65	29
91-100	105	104	-	-	-	1	-	-	3	78	24
> 100	274	272	-	-	-	2	-	-	7	191	76
<b>Total</b>	<b>1,884</b>	<b>1,451</b>	<b>168</b>	<b>14</b>	<b>28</b>	<b>105</b>	<b>110</b>	<b>882</b>	<b>1,331</b>	<b>471</b>	

**Highway User Struck Rail Equip**

Consist Length										Driver Gender	
	Total	Freight Train	Psgr Comm Trn	Work Train	Car(s)	Yard Switch	Light loco(s)	A	?	M	F
???	-	-	-	-	-	-	-	-	-	-	-
1	37	-	-	-	11	-	24	2	1	29	7
2-5	94	39	13	-	-	12	28	2	1	72	21
6-10	56	37	5	-	1	12	1	-	1	39	16
11-15	40	29	2	-	-	9	-	-	2	32	6
16-20	25	17	-	-	-	8	-	-	-	18	7
21-25	30	26	-	-	-	4	-	-	1	22	7
26-30	15	14	-	-	1	-	-	-	1	9	5
31-35	20	18	-	-	-	2	-	-	-	16	4
36-40	17	16	-	-	1	-	-	-	-	11	6
41-45	17	11	-	-	-	6	-	-	-	15	2
46-50	10	9	-	-	-	1	-	-	-	8	2
51-60	40	36	-	-	1	3	-	-	3	30	7
61-70	34	32	-	-	-	2	-	-	3	23	8
71-80	34	33	-	-	-	1	-	-	1	24	9
81-90	23	23	-	-	-	-	-	-	1	18	4
91-100	30	29	-	-	-	1	-	-	-	24	6
> 100	90	89	-	-	-	1	-	-	3	64	23
<b>Total</b>	<b>612</b>	<b>458</b>	<b>20</b>	<b>-</b>	<b>15</b>	<b>62</b>	<b>53</b>	<b>4</b>	<b>18</b>	<b>454</b>	<b>140</b>

**TABLE 8-12 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,  
BY TYPE CONSIST, NUMBER OF PEOPLE ON TRAIN, AND TYPE PERSON HURT, 2004**

Consist	People on Train		Total		Hwy User		RR Employees		Others	
	Total	Avg	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
Freight Train	4,199	2	197	690	195	643	2	47	0	0
Psgr Train	23,246	163	27	76	27	47	0	16	0	13
Commuter Train	7,342	163	10	12	10	12	0	0	0	0
Work Train	39	3	5	4	5	3	0	1	0	0
Single Car	2	2	-	-	0	0	0	0	0	0
Cut of Cars	5	1	-	2	0	2	0	0	0	0
Yard/ Switch	462	3	-	58	0	50	0	8	0	0
Light loco(s)	379	2	9	36	9	33	0	3	0	0
Maint Insp car	41	1	1	17	1	14	0	3	0	0
Spec MOW Eqp	14	1	-	4	0	3	0	1	0	0
<b>Total</b>	<b>35,729</b>	<b>14</b>	<b>249</b>	<b>899</b>	<b>247</b>	<b>807</b>	<b>2</b>	<b>79</b>	<b>0</b>	<b>13</b>

**TABLE 8-13 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,  
BY TYPE VEHICLE, NUMBER OF OCCUPANTS, AND VEHICLE DAMAGE, 2004**

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	1,619	1	4,104,146	3,100	138	457	138	448	0	8	0	1
Truck	311	1	1,480,624	5,464	21	106	21	92	0	13	0	1
Trk& Trail	322	1	3,427,982	10,848	14	119	12	58	2	50	0	11
Pickup Trk	518	1	1,797,597	4,439	56	149	56	143	0	6	0	0
Van	142	1	355,913	3,595	10	42	10	41	0	1	0	0
Bus	6	2	17,000	5,667	-	-	0	0	0	0	0	0
School Bus	9	2	20,100	5,025	-	7	0	7	0	0	0	0
Motorcycle	9	1	16,000	1,778	2	5	2	5	0	0	0	0
Oth Mtr V.	68	1	465,650	7,164	8	14	8	13	0	1	0	0
<b>Total</b>	<b>3,004</b>	<b>1</b>	<b>11,685,012</b>	<b>4,681</b>	<b>249</b>	<b>899</b>	<b>247</b>	<b>807</b>	<b>2</b>	<b>79</b>	<b>0</b>	<b>13</b>



**TABLE 8-14 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY TYPE WARNING. POSITION ON CROSSING AND IF HAZMAT WAS RELEASED, 2004**

**Rail Equip Struck Highway User**

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy Rail User	Both	Neither
Unknown	12	0.5	-	2	10	-	-	-	2	10
Other	1	0.0	-	-	1	-	-	-	-	1
Cross bucks	547	21.9	21	126	398	2	-	4	126	413
Stop signs	223	8.9	6	53	164	-	-	1	54	163
Special warning	15	0.6	-	-	15	-	-	-	1	14
HWTS,WW,Bells	19	0.8	1	6	12	-	-	-	2	17
Flashing lights	367	14.7	17	93	253	4	-	-	84	281
Gates	700	28.0	84	311	265	40	1	-	144	550
<b>Total</b>	<b>1,884</b>	<b>75.5</b>	<b>129</b>	<b>591</b>	<b>1,118</b>	<b>46</b>	<b>1</b>	<b>5</b>	<b>413</b>	<b>1,449</b>

**Highway User Struck Rail Equip**

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy Rail User	Both	Neither
Unknown	2	0.1	-	-	2	-	-	-	-	2
Other	-	0.0	-	-	-	-	-	-	-	-
Cross bucks	208	8.3	-	-	208	-	-	1	37	170
Stop signs	45	1.8	-	-	45	-	-	-	6	39
Special warning	15	0.6	-	-	15	-	-	-	1	14
HWTS,WW,Bells	11	0.4	-	-	11	-	-	-	1	10
Flashing lights	168	6.7	-	1	166	1	-	1	33	134
Gates	163	6.5	-	-	162	1	-	-	37	125
<b>Total</b>	<b>612</b>	<b>24.5</b>	<b>-</b>	<b>1</b>	<b>609</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>115</b>	<b>494</b>

**Grand Total**

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Unk	Hwy Rail User	Both	Neither
Unknown	14	0.6	-	2	12	-	-	-	2	12
Other	1	0.0	-	-	1	-	-	-	-	1
Cross bucks	755	30.2	21	126	606	2	-	5	163	583
Stop signs	268	10.7	6	53	209	-	-	1	60	202
Special warning	30	1.2	-	-	30	-	-	-	2	28
HWTS,WW,Bells	30	1.2	1	6	23	-	-	-	3	27
Flashing lights	535	21.4	17	94	419	5	-	1	117	415
Gates	863	34.6	84	311	427	41	1	-	181	675
<b>Total</b>	<b>2,496</b>	<b>100.0</b>	<b>129</b>	<b>592</b>	<b>1,727</b>	<b>48</b>	<b>1</b>	<b>7</b>	<b>528</b>	<b>1,943</b>

**TABLE 8-15 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS  
BY TYPE VEHICLE AND WARNING, 2004**

**Rail Equip Struck Highway User**

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%								
Car	946	37.9	5	-	228	94	9	7	201	402
Truck	210	8.4	3	-	64	30	1	3	49	60
Trk& Trail	297	11.9	4	-	100	38	2	4	55	94
Pickup Trk	285	11.4	-	-	109	36	1	4	41	94
Van	77	3.1	-	1	18	12	1	-	14	31
Bus	3	0.1	-	-	-	1	-	-	1	1
School Bus	4	0.2	-	-	1	-	-	-	1	2
Motorcycle	5	0.2	-	-	3	-	-	-	-	2
Oth Mtr V.	57	2.3	-	-	24	12	1	1	5	14
<b>Total</b>	<b>1,884</b>	<b>75.5</b>	<b>12</b>	<b>1</b>	<b>547</b>	<b>223</b>	<b>15</b>	<b>19</b>	<b>367</b>	<b>700</b>

**Highway User Struck Rail Equip**

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%								
Car	378	15.1	2	-	119	19	12	8	103	115
Truck	61	2.4	-	-	23	9	2	2	12	13
Trk& Trail	19	0.8	-	-	5	3	-	-	10	1
Pickup Trk	120	4.8	-	-	44	13	-	1	37	25
Van	22	0.9	-	-	11	1	1	-	4	5
Bus	-	0.0	-	-	-	-	-	-	-	-
School Bus	-	0.0	-	-	-	-	-	-	-	-
Motorcycle	4	0.2	-	-	2	-	-	-	1	1
Oth Mtr V.	8	0.3	-	-	4	-	-	-	1	3
<b>Total</b>	<b>612</b>	<b>24.5</b>	<b>2</b>	<b>-</b>	<b>208</b>	<b>45</b>	<b>15</b>	<b>11</b>	<b>168</b>	<b>163</b>

**Grand Total**

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing lights	Gates
	Cnt	%								
Car	1,324	53.0	7	-	347	113	21	15	304	517
Truck	271	10.9	3	-	87	39	3	5	61	73
Trk& Trail	316	12.7	4	-	105	41	2	4	65	95
Pickup Trk	405	16.2	-	-	153	49	1	5	78	119
Van	99	4.0	-	1	29	13	2	-	18	36
Bus	3	0.1	-	-	-	1	-	-	1	1
School Bus	4	0.2	-	-	1	-	-	-	1	2
Motorcycle	9	0.4	-	-	5	-	-	-	1	3
Oth Mtr V.	65	2.6	-	-	28	12	1	1	6	17
<b>Total</b>	<b>2,496</b>	<b>100.0</b>	<b>14</b>	<b>1</b>	<b>755</b>	<b>268</b>	<b>30</b>	<b>30</b>	<b>535</b>	<b>863</b>

**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, 2004**

**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 < 20 Secs.	Confirm No Warning
Car	610	579	9	5	5	2	1	9
Truck	112	103	5	-	1	-	-	3
Trk& Trail	153	145	5	1	1	-	-	1
Pickup Trk	139	134	2	-	-	-	-	3
Van	45	44	1	-	-	-	-	-
Bus	2	2	-	-	-	-	-	-
School Bus	3	3	-	-	-	-	-	-
Motorcycle	2	2	-	-	-	-	-	-
Oth Mtr V.	20	19	-	-	-	-	-	1
<b>Total</b>	<b>1,086</b>	<b>1,031</b>	<b>22</b>	<b>6</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>17</b>

**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 < 20 Secs.	Confirm No Warning
Car	226	218	2	-	2	-	1	3
Truck	27	26	1	-	-	-	-	-
Trk& Trail	11	10	-	-	-	-	-	1
Pickup Trk	63	62	1	-	-	-	-	-
Van	9	8	-	-	-	-	-	1
Bus	-	-	-	-	-	-	-	-
School Bus	-	-	-	-	-	-	-	-
Motorcycle	2	2	-	-	-	-	-	-
Oth Mtr V.	4	4	-	-	-	-	-	-
<b>Total</b>	<b>342</b>	<b>330</b>	<b>4</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>5</b>

**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 < 20 Secs.	Confirm No Warning
Car	836	797	11	5	7	2	2	12
Truck	139	129	6	-	1	-	-	3
Trk& Trail	164	155	5	1	1	-	-	2
Pickup Trk	202	196	3	-	-	-	-	3
Van	54	52	1	-	-	-	-	1
Bus	2	2	-	-	-	-	-	-
School Bus	3	3	-	-	-	-	-	-
Motorcycle	4	4	-	-	-	-	-	-
Oth Mtr V.	24	23	-	-	-	-	-	1
<b>Total</b>	<b>1,428</b>	<b>1,361</b>	<b>26</b>	<b>6</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>22</b>

## **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 device, 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, 2004**

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.	339	0.1	8	0.0	106	0.0	225	0.1
Amtrak	282	0.1	13	0.0	58	0.0	211	0.1
Bangor & Aroostook	504	0.2	5	0.0	342	0.1	157	0.1
Burlington Northern Santa Fe	29,662	12.1	221	0.1	10,626	4.4	18,815	7.7
Belt Rwy Of Chicago	125	0.1	-	-	82	0.0	43	0.0
Consolidated Rail Corp.	2,059	0.8	29	0.0	825	0.3	1,205	0.5
Conrail Shared Assets	810	0.3	1	0.0	211	0.1	598	0.2
CSX Transportation	28,179	11.5	293	0.1	9,559	3.9	18,327	7.5
Delaware & Hudson	643	0.3	4	0.0	367	0.2	272	0.1
Dakota, Minnesota & Eastern	1,366	0.6	2	0.0	554	0.2	810	0.3
Duluth, Missabe & Iron Range	270	0.1	1	0.0	129	0.1	140	0.1
Elgin, Joliet & Eastern	268	0.1	7	0.0	77	0.0	184	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	1,284	0.5	13	0.0	548	0.2	723	0.3
Grand Trunk Western RR	898	0.4	8	0.0	220	0.1	670	0.3
Gateway Western	1	0.0	-	-	-	-	1	0.0
Illinois Central	5,115	2.1	62	0.0	1,864	0.8	3,189	1.3
Iowa Chicago & Eastern RR	1,549	0.6	5	0.0	388	0.2	1,156	0.5
Indiana Harbor Belt	119	0.0	2	0.0	43	0.0	74	0.0
Kansas City Southern	4,759	1.9	14	0.0	1,899	0.8	2,846	1.2
Long Island Rail Road	359	0.1	11	0.0	59	0.0	289	0.1
MD Assn. of Rail Comm	133	0.1	4	0.0	78	0.0	51	0.0
Mass Bay Transit Auth.	284	0.1	1	0.0	18	0.0	265	0.1
Metro North Commuter	173	0.1	3	0.0	79	0.0	91	0.0
Montana Rail Link	1,138	0.5	3	0.0	708	0.3	427	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	474	0.2	27	0.0	93	0.0	354	0.1
Norfolk Southern Corp.	32,955	13.5	149	0.1	12,943	5.3	19,863	8.1
Paducah & Louisville	382	0.2	3	0.0	152	0.1	227	0.1
Port Auth Trans Hudson	2	0.0	-	-	2	0.0	-	-
Port Terminal RR Assn	171	0.1	1	0.0	101	0.0	69	0.0
Southern CA Reg Rail Auth.	385	0.2	18	0.0	46	0.0	321	0.1
Southeastern PA Trans.	286	0.1	11	0.0	46	0.0	229	0.1
Soo Line	2,857	1.2	26	0.0	1,470	0.6	1,361	0.6
Texas Mexican	431	0.2	-	-	201	0.1	230	0.1
Term RR Assn Of St. Louis	124	0.1	-	-	11	0.0	113	0.0
Union Pacific	48,341	19.8	334	0.1	19,217	7.9	28,790	11.8
Union RR (Pittsburgh)	59	0.0	6	0.0	39	0.0	14	0.0
Wisconsin Central Ltd.	3,871	1.6	50	0.0	1,459	0.6	2,362	1.0
Wheeling & Lake Erie	976	0.4	9	0.0	406	0.2	561	0.2
Wisconsin & Southern RR	1,255	0.5	19	0.0	502	0.2	734	0.3
Other Railroads	70,031	28.7	533	0.2	28,855	11.8	40,643	16.6
<b>Total</b>	<b>244,196</b>	<b>100.0</b>	<b>1,932</b>	<b>0.8</b>	<b>94,583</b>	<b>38.7</b>	<b>147,681</b>	<b>60.5</b>

**TABLE 9-2 AT-GRADE HIGHWAY-RAIL CROSSINGS BY STATE, 2004**

States	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	5,167	2.1	20	0.0	1,814	0.7	3,333	1.4
Alaska	343	0.1	8	0.0	106	0.0	229	0.1
Arizona	1,567	0.6	7	0.0	659	0.3	901	0.4
Arkansas	4,509	1.8	8	0.0	1,438	0.6	3,063	1.3
California	12,489	5.1	161	0.1	4,605	1.9	7,723	3.2
Colorado	3,131	1.3	21	0.0	1,228	0.5	1,882	0.8
Connecticut	657	0.3	9	0.0	278	0.1	370	0.2
Delaware	449	0.2	2	0.0	149	0.1	298	0.1
Dist Of Columbia	40	0.0	10	0.0	22	0.0	8	0.0
Florida	5,166	2.1	58	0.0	1,252	0.5	3,856	1.6
Georgia	8,291	3.4	38	0.0	2,478	1.0	5,775	2.4
Hawaii	8	0.0	-	-	-	-	8	0.0
Idaho	2,488	1.0	14	0.0	1,169	0.5	1,305	0.5
Illinois	13,111	5.4	284	0.1	4,647	1.9	8,180	3.3
Indiana	8,096	3.3	50	0.0	1,979	0.8	6,067	2.5
Iowa	8,117	3.3	45	0.0	3,557	1.5	4,515	1.8
Kansas	10,181	4.2	31	0.0	3,929	1.6	6,221	2.5
Kentucky	4,895	2.0	38	0.0	2,433	1.0	2,424	1.0
Louisiana	6,604	2.7	37	0.0	3,131	1.3	3,436	1.4
Maine	1,680	0.7	9	0.0	834	0.3	837	0.3
Maryland	1,387	0.6	7	0.0	690	0.3	690	0.3
Massachusetts	1,313	0.5	18	0.0	490	0.2	805	0.3
Michigan	7,896	3.2	65	0.0	2,481	1.0	5,350	2.2
Minnesota	7,938	3.3	52	0.0	2,943	1.2	4,943	2.0
Mississippi	4,423	1.8	16	0.0	1,951	0.8	2,456	1.0
Missouri	7,818	3.2	69	0.0	3,128	1.3	4,621	1.9
Montana	3,352	1.4	15	0.0	1,894	0.8	1,443	0.6
Nebraska	6,221	2.5	16	0.0	2,471	1.0	3,734	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	2,107	0.9	45	0.0	535	0.2	1,527	0.6
New Mexico	1,226	0.5	-	-	487	0.2	739	0.3
New York	5,872	2.4	78	0.0	2,875	1.2	2,919	1.2
North Carolina	7,636	3.1	55	0.0	3,187	1.3	4,394	1.8
North Dakota	5,954	2.4	17	0.0	1,822	0.7	4,115	1.7
Ohio	9,632	3.9	37	0.0	3,319	1.4	6,276	2.6
Oklahoma	5,594	2.3	13	0.0	1,482	0.6	4,099	1.7
Oregon	5,174	2.1	90	0.0	2,813	1.2	2,271	0.9
Pennsylvania	8,150	3.3	111	0.0	3,264	1.3	4,775	2.0
Rhode Island	191	0.1	1	0.0	72	0.0	118	0.0
South Carolina	4,103	1.7	10	0.0	1,243	0.5	2,850	1.2
South Dakota	3,390	1.4	7	0.0	1,260	0.5	2,123	0.9
Tennessee	5,032	2.1	24	0.0	1,839	0.8	3,169	1.3
Texas	17,075	7.0	32	0.0	6,095	2.5	10,948	4.5
Utah	1,626	0.7	4	0.0	709	0.3	913	0.4
Vermont	1,185	0.5	44	0.0	640	0.3	501	0.2
Virginia	4,822	2.0	42	0.0	2,735	1.1	2,045	0.8
Washington	5,505	2.3	51	0.0	2,799	1.1	2,655	1.1
West Virginia	3,498	1.4	54	0.0	1,906	0.8	1,538	0.6
Wisconsin	6,748	2.8	95	0.0	2,517	1.0	4,136	1.7
Wyoming	1,153	0.5	1	0.0	757	0.3	395	0.2
Total	244,196	100.0	1,932	0.8	94,583	38.7	147,681	60.5

TABLE 9-3 PUBLIC AT GRADE BY WARNING DEVICE AND RAILROAD, 2004

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.	225	0.15	8	2	96	31	7	-	21	60
Amtrak	211	0.14	6	3	7	4	5	-	5	181
Bangor & Aroostook	157	0.11	-	-	58	3	5	-	86	5
Burlington Northern Santa Fe	18,815	12.74	352	21	9,568	882	139	106	2,299	5,448
Belt Rwy Of Chicago	43	0.03	5	-	13	-	1	-	8	16
Consolidated Rail Corp.	1,205	0.82	144	115	357	31	213	18	242	85
Conrail Shared Assets	598	0.40	40	-	112	7	65	2	308	64
CSX Transportation	18,327	12.41	437	10	5,014	1,629	308	88	3,986	6,855
Delaware & Hudson	272	0.18	4	-	34	2	1	3	24	204
Dakota, Minnesota & Eastern	810	0.55	31	-	598	47	-	3	100	31
Duluth, Missabe & Iron Range	140	0.09	1	2	71	32	2	-	15	17
Elgin, Joliet & Eastern	184	0.12	-	-	19	4	4	1	39	117
Florida East Coast	729	0.49	9	-	46	3	27	-	31	613
Grand Canyon Railway	9	0.01	2	-	6	-	-	-	-	1
Guilford Rail System	723	0.49	19	3	155	31	102	14	233	166
Grand Trunk Western RR	670	0.45	4	-	19	176	19	2	116	334
Gateway Western	1	0.00	-	-	-	-	-	-	-	1
Illinois Central	3,189	2.16	80	17	1,317	274	33	18	764	686
Iowa Chicago & Eastern RR	1,156	0.78	18	1	667	105	11	8	233	113
Indiana Harbor Belt	74	0.05	1	-	10	-	13	-	19	31
Kansas City Southern	2,846	1.93	101	5	1,587	166	2	22	530	433
Long Island Rail Road	289	0.20	-	1	5	-	-	-	-	283
MD Assn. of Rail Comm	51	0.03	7	-	11	6	4	8	9	6
Mass Bay Transit Auth.	265	0.18	8	-	35	2	17	3	25	175
Metro North Commuter	91	0.06	2	-	3	-	1	1	44	40
Montana Rail Link	427	0.29	6	-	249	41	-	1	62	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	12	123
New Jersey Transit Rail	354	0.24	7	-	28	1	11	1	79	227
Norfolk Southern Corp.	19,863	13.45	658	90	6,933	1,797	372	99	3,695	6,219
Paducah & Louisville	227	0.15	10	-	93	10	-	1	93	20
Port Terminal RR Assn	69	0.05	5	-	25	4	-	-	10	25
Southern CA Reg Rail Auth.	321	0.22	-	-	26	4	-	-	17	274
Southeastern PA Trans.	229	0.16	45	10	28	9	17	21	54	45
Soo Line	1,361	0.92	39	-	605	207	10	3	165	332
Texas Mexican	230	0.16	7	-	115	3	10	-	47	48
Term RR Assn Of St. Louis	113	0.08	1	-	11	2	40	-	17	42
Union Pacific	28,790	19.49	1,108	44	13,102	1,707	254	354	3,819	8,402
Union RR (Pittsburgh)	14	0.01	-	-	-	-	-	10	1	3
Wisconsin Central Ltd.	2,362	1.60	15	-	1,017	358	19	12	594	347
Wheeling & Lake Erie	561	0.38	8	-	271	22	1	2	143	114
Wisconsin & Southern RR	734	0.50	6	-	157	242	5	11	281	32
Other Railroads	40,643	27.52	1,449	232	22,475	3,722	1,127	415	6,787	4,436
<b>Total</b>	<b>147,681</b>	<b>100.0</b>	<b>4,651</b>	<b>556</b>	<b>64,985</b>	<b>11,584</b>	<b>2,845</b>	<b>1,230</b>	<b>25,067</b>	<b>36,763</b>



**TABLE 9-4 PUBLIC AT GRADE BY WARNING DEVICE AND STATE, 2004**

States	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates	AADT
	Cnt	%									
Alabama	3,333	2.26	96	10	1,394	667	21	14	608	523	6,677,023
Alaska	229	0.16	9	2	99	31	7	-	21	60	477,438
Arizona	901	0.61	25	-	324	90	11	5	63	383	2,941,774
Arkansas	3,063	2.07	119	1	1,829	201	68	29	410	406	3,632,999
California	7,723	5.23	172	17	2,795	319	42	270	983	3,125	40,225,051
Colorado	1,882	1.27	61	3	900	208	31	32	233	414	3,712,409
Connecticut	370	0.25	14	-	28	48	29	5	142	104	1,299,187
Delaware	298	0.20	12	-	37	4	21	1	174	49	1,062,002
Dist Of Columbia	8	0.01	-	-	-	2	4	-	2	-	144,200
Florida	3,856	2.61	54	4	791	141	78	10	542	2,236	18,798,249
Georgia	5,775	3.91	153	7	2,388	1,084	101	14	304	1,724	8,918,314
Hawaii	8	0.01	-	1	6	1	-	-	-	-	27,000
Idaho	1,305	0.88	6	-	430	542	1	4	174	148	1,738,607
Illinois	8,180	5.54	220	1	3,127	61	110	77	2,147	2,437	21,393,519
Indiana	6,067	4.11	155	6	1,771	1,134	3	66	1,433	1,499	14,121,955
Iowa	4,515	3.06	35	1	2,461	324	20	29	894	751	4,523,623
Kansas	6,221	4.21	109	7	4,203	224	68	40	551	1,019	5,187,370
Kentucky	2,424	1.64	116	-	1,018	53	49	13	769	406	3,841,223
Louisiana	3,436	2.33	190	10	1,679	254	34	16	633	620	6,939,201
Maine	837	0.57	7	-	273	11	66	4	396	80	1,964,995
Maryland	690	0.47	27	1	254	38	26	23	213	108	2,461,618
Massachusetts	805	0.55	32	3	115	9	60	10	294	282	4,925,177
Michigan	5,350	3.62	145	7	1,182	1,598	90	30	1,359	939	14,794,976
Minnesota	4,943	3.35	83	4	2,761	759	18	11	517	790	6,614,438
Mississippi	2,456	1.66	109	79	952	491	27	8	507	283	4,384,671
Missouri	4,621	3.13	220	4	2,538	138	84	52	862	723	4,816,994
Montana	1,443	0.98	44	-	950	84	10	3	157	195	1,271,237
Nebraska	3,734	2.53	108	7	2,492	216	4	10	254	643	2,404,587
Nevada	299	0.20	3	3	126	10	2	1	24	130	909,766
New Hampshire	403	0.27	2	2	110	39	80	10	125	35	1,039,669
New Jersey	1,527	1.03	49	-	312	17	125	20	582	422	8,843,494
New Mexico	739	0.50	8	4	377	19	1	5	104	221	887,420
New York	2,919	1.98	88	21	564	22	162	51	421	1,590	7,793,017
North Carolina	4,394	2.98	174	5	1,893	56	124	17	700	1,425	8,955,168
North Dakota	4,115	2.79	136	-	3,357	64	1	-	48	509	1,163,026
Ohio	6,276	4.25	72	9	2,564	164	68	23	1,092	2,284	14,226,306
Oklahoma	4,099	2.78	65	7	2,597	111	56	19	566	678	4,458,875
Oregon	2,271	1.54	120	44	830	424	90	42	133	588	4,465,735
Pennsylvania	4,775	3.23	320	260	1,636	118	412	70	1,202	757	14,183,799
Rhode Island	118	0.08	22	1	7	4	22	22	24	16	547,375
South Carolina	2,850	1.93	15	-	898	471	105	4	439	918	6,996,678
South Dakota	2,123	1.44	75	-	1,796	30	-	1	200	21	1,270,292
Tennessee	3,169	2.15	193	2	1,487	159	172	16	691	449	6,620,059
Texas	10,948	7.41	440	7	4,901	275	85	73	1,292	3,875	36,956,936
Utah	913	0.62	61	4	378	45	76	6	151	192	1,644,101
Vermont	501	0.34	8	-	188	29	36	2	206	32	764,371
Virginia	2,045	1.38	53	4	486	9	7	9	412	1,065	5,822,561
Washington	2,655	1.80	254	2	1,330	100	38	25	368	538	4,845,294
West Virginia	1,538	1.04	122	6	684	25	17	5	454	225	1,672,633
Wisconsin	4,136	2.80	40	-	1,543	653	82	32	1,119	667	9,359,648
Wyoming	395	0.27	10	-	124	8	1	1	72	179	350,147
<b>Total</b>	<b>147,681</b>	<b>100.0</b>	<b>4,651</b>	<b>556</b>	<b>64,985</b>	<b>11,584</b>	<b>2,845</b>	<b>1,230</b>	<b>25,067</b>	<b>36,763</b>	<b>333,076,207</b>

**TABLE 9-5 PRIVATE/PEDESTRIAN AT GRADE BY DEVELOPMENT AND RAILROAD, 2004**

Railroads	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alton & Southern	22	0.02	-	8	5	-	9
Alaska RR Corp.	107	0.11	-	4	14	5	84
Amtrak	58	0.06	-	27	11	2	18
Bangor & Aroostook	342	0.36	-	148	33	45	116
Burlington Northern Santa Fe	10,624	11.23	3	7,274	799	113	2,435
Belt Rwy Of Chicago	82	0.09	-	-	-	-	82
Consolidated Rail Corp.	825	0.87	-	360	91	32	342
Conrail Shared Assets	211	0.22	-	42	19	5	145
CSX Transportation	9,566	10.11	395	5,103	1,731	177	2,160
Delaware & Hudson	367	0.39	-	246	48	24	49
Dakota, Minnesota & Eastern	554	0.59	-	477	8	1	68
Duluth, Missabe & Iron Range	129	0.14	-	24	17	1	87
Elgin, Joliet & Eastern	77	0.08	4	22	-	-	51
Florida East Coast	111	0.12	84	3	2	1	21
Grand Canyon Railway	13	0.01	-	11	-	1	1
Guilford Rail System	549	0.58	-	162	54	23	310
Grand Trunk Western RR	220	0.23	-	155	12	3	50
Illinois Central	1,864	1.97	7	1,212	218	12	415
Iowa Chicago & Eastern RR	388	0.41	1	291	53	9	34
Indiana Harbor Belt	43	0.05	4	-	-	-	39
Kansas City Southern	1,899	2.01	5	1,307	195	11	381
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	93	0.10	-	35	18	4	36
Norfolk Southern Corp.	12,948	13.68	930	6,862	2,543	205	2,408
Paducah & Louisville	152	0.16	-	65	36	-	51
Port Auth Trans Hudson	2	0.00	-	1	-	-	1
Port Terminal RR Assn	101	0.11	-	2	-	-	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	1,470	1.55	1	1,196	64	14	195
Texas Mexican	201	0.21	1	123	18	2	57
Term RR Assn Of St. Louis	11	0.01	-	3	-	-	8
Union Pacific	19,217	20.31	162	12,432	1,529	207	4,887
Union RR (Pittsburgh)	39	0.04	-	-	-	-	39
Wisconsin Central Ltd.	1,459	1.54	-	840	150	47	422
Wheeling & Lake Erie	406	0.43	1	217	36	6	146
Wisconsin & Southern RR	502	0.53	-	393	16	21	72
Other Railroads	28,874	30.52	250	17,385	3,871	617	6,751
<b>Total</b>	<b>94,621</b>	<b>100.0</b>	<b>1,857</b>	<b>57,099</b>	<b>11,707</b>	<b>1,627</b>	<b>22,331</b>

**TABLE 9-6 PRIVATE/PEDESTRIAN AT GRADE BY TYPE DEVELOPMENT AND STATE, 2004**

States	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alabama	1,814	1.92	6	1,032	313	31	432
Alaska	107	0.11	-	4	14	5	84
Arizona	659	0.70	1	375	24	10	249
Arkansas	1,438	1.52	-	947	208	20	263
California	4,606	4.87	10	2,046	325	120	2,105
Colorado	1,228	1.30	2	747	233	12	234
Connecticut	278	0.29	3	55	39	33	148
Delaware	149	0.16	-	82	37	4	26
Dist Of Columbia	30	0.03	2	-	1	-	27
Florida	1,261	1.33	212	408	180	25	436
Georgia	2,478	2.62	-	1,361	597	32	488
Idaho	1,170	1.24	1	762	42	9	356
Illinois	4,646	4.91	5	3,002	413	63	1,163
Indiana	1,993	2.11	107	1,195	371	19	301
Iowa	3,557	3.76	6	2,585	317	47	602
Kansas	3,929	4.15	-	3,331	192	7	399
Kentucky	2,433	2.57	-	1,384	676	15	358
Louisiana	3,131	3.31	-	1,712	479	20	920
Maine	834	0.88	-	348	114	72	300
Maryland	690	0.73	-	390	71	15	214
Massachusetts	490	0.52	1	164	56	37	232
Michigan	2,481	2.62	4	1,259	371	122	725
Minnesota	2,943	3.11	3	2,107	240	52	541
Mississippi	1,951	2.06	15	1,254	397	9	276
Missouri	3,128	3.31	1	2,222	323	21	561
Montana	1,894	2.00	-	1,471	107	25	291
Nebraska	2,471	2.61	-	2,188	79	10	194
Nevada	247	0.26	161	32	3	7	44
New Hampshire	225	0.24	2	112	32	23	56
New Jersey	535	0.57	1	188	60	10	276
New Mexico	487	0.51	-	357	24	2	104
New York	2,883	3.05	6	1,871	346	154	506
North Carolina	3,187	3.37	1	1,582	820	28	756
North Dakota	1,822	1.93	-	1,624	25	6	167
Ohio	3,319	3.51	17	2,087	350	38	827
Oklahoma	1,481	1.57	1	1,086	144	10	240
Oregon	2,814	2.97	-	1,331	334	41	1,108
Pennsylvania	3,265	3.45	6	1,346	586	149	1,178
Rhode Island	72	0.08	-	7	18	10	37
South Carolina	1,243	1.31	-	619	300	19	305
South Dakota	1,260	1.33	-	1,046	77	4	133
Tennessee	1,839	1.94	1	1,072	390	24	352
Texas	6,095	6.44	7	4,007	566	33	1,482
Utah	709	0.75	-	463	34	14	198
Vermont	640	0.68	-	442	63	29	106
Virginia	2,732	2.89	1,269	957	186	17	303
Washington	2,799	2.96	3	1,356	363	48	1,029
West Virginia	1,906	2.01	1	843	573	44	445
Wisconsin	2,517	2.66	-	1,631	182	81	623
Wyoming	755	0.80	2	609	12	1	131
Total	94,621	100.0	1,857	57,099	11,707	1,627	22,331



## **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, 2004**

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	54	7	2	-	1	6	6	8	4	5	6	3	3	1	2	
Crushing injury	15	2	-	-	-	1	3	2	2	2	-	1	-	-	2	
Sprain/Str.,arm/hand	2	-	-	-	-	1	-	-	-	-	1	-	-	-	-	
Sprain/Str.,leg/foot	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Sprain/Str.,torso	4	1	-	-	1	1	-	-	-	-	1	-	-	-	-	
Sprain/Str., other	3	2	-	-	-	-	-	1	-	-	-	-	-	-	-	
Cut/abrasion	65	3	-	2	3	8	7	8	2	12	4	3	7	1	5	
Puncture wound	2	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
Electric shock/burn	6	1	-	-	4	-	-	1	-	-	-	-	-	-	-	
Dislocation	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
Fracture,arm/hand	17	2	-	1	5	2	2	1	-	-	-	4	-	-	-	
Fracture,leg/foot	23	1	-	-	2	2	1	7	2	3	-	2	2	1	-	
Fracture,head/face	7	-	1	-	-	1	1	-	1	-	1	-	1	-	1	
Fracture,torso	13	1	-	-	-	1	2	3	2	1	1	1	-	1	-	
Fracture,multiple	10	-	1	-	1	1	2	3	-	-	-	1	-	1	-	
Fracture,other	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Amputation,arm/hand	13	2	-	-	-	-	-	4	3	1	-	1	1	1	-	
Amputation,leg/foot	71	6	-	2	6	8	8	8	5	8	7	6	2	4	1	
Amputation,torso	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Amputation,other	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Fatality	482	42	2	3	5	41	50	63	55	43	55	48	30	16	29	
Concussion	6	1	-	-	-	1	2	-	-	1	1	-	-	-	-	
Internal injury	12	1	-	-	-	2	3	-	-	6	-	-	-	-	-	
Unspecified injury	72	5	-	2	1	8	11	9	1	13	7	8	4	-	3	
Total	883	78	6	10	29	85	98	118	77	96	86	79	50	27	44	

**TABLE 10-2 TRESPASSERS KILLED, BY RAILROAD AND AGE, NOT AT HRC, 2004**

Railroads	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
Amtrak	77	9	-	1	1	13	7	8	8	6	8	5	3	1	7
Burlington Northern Santa Fe	81	10	-	-	1	8	5	7	11	7	8	8	5	4	7
Conrail Shared Assets	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CSX Transportation	76	11	1	-	1	7	11	8	7	4	9	7	6	2	2
Delaware & Hudson	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dakota, Minnesota & Eastern	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Florida East Coast	10	-	-	-	1	-	1	1	-	2	2	3	-	-	-
Guilford Rail System	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Grand Trunk Western RR	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Illinois Central	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-
Kansas City Southern	5	-	-	-	-	-	1	-	1	1	1	1	-	-	-
Long Island Rail Road	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
Mass Bay Transit Auth.	2	-	-	-	-	-	1	-	-	-	1	-	-	-	-
Metro North Commuter	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	6	-	-	-	-	2	-	-	-	1	-	2	1	-	-
New Jersey Transit Rail	9	-	-	-	-	-	-	2	1	2	-	1	1	1	1
Norfolk Southern Corp.	60	-	-	1	-	2	8	12	5	7	10	5	5	3	2
Paducah & Louisville	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Peninsula Comm San Mateo Cnty	8	1	-	-	-	-	-	-	2	1	-	1	2	1	-
Southern CA Reg Rail Auth.	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-
Southeastern PA Trans.	6	2	-	-	-	1	1	-	-	1	-	-	-	-	1
Soo Line	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Union Pacific	117	-	1	1	1	7	13	21	15	11	15	14	6	3	9
Wisconsin Central Ltd.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Other Railroads	6	4	-	-	-	-	1	1	-	-	-	-	-	-	-
<b>Total</b>	<b>482</b>	<b>42</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>41</b>	<b>50</b>	<b>63</b>	<b>55</b>	<b>43</b>	<b>55</b>	<b>48</b>	<b>30</b>	<b>16</b>	<b>29</b>



**TABLE 10-3 TRESPASSERS KILLED, BY STATE AND AGE, NOT AT HRC, 2004**

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	9	-	-	-	-	1	1	2	1	2	1	1	-	-	-	
Arizona	17	1	-	-	-	-	-	2	4	-	2	3	5	-	-	
Arkansas	3	-	-	-	-	1	-	-	1	1	-	-	-	-	-	
California	86	11	-	1	1	7	2	13	15	9	8	5	4	2	8	
Colorado	2	-	-	-	-	-	1	-	-	-	-	1	-	-	-	
Connecticut	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Delaware	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
Dist Of Columbia	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	
Florida	21	5	-	-	1	1	1	2	2	3	2	3	-	-	1	
Georgia	18	2	-	-	-	-	6	2	-	1	-	1	4	2	-	
Idaho	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
Illinois	26	2	-	-	-	4	3	3	4	2	-	3	3	1	1	
Indiana	12	1	-	-	-	-	3	3	2	-	-	1	1	-	1	
Iowa	3	-	-	-	-	-	-	1	-	1	-	-	-	1	-	
Kansas	5	-	-	1	-	1	-	1	-	1	1	-	-	-	-	
Kentucky	7	-	-	-	1	-	1	-	-	2	1	2	-	-	-	
Louisiana	11	2	-	-	-	-	2	-	1	-	2	2	1	-	1	
Maine	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
Maryland	10	2	-	-	-	1	2	1	1	-	-	1	1	-	1	
Massachusetts	10	4	-	-	-	1	1	-	-	-	2	1	-	1	-	
Michigan	6	-	-	-	-	-	2	2	1	-	-	-	-	1	-	
Minnesota	4	-	-	-	-	-	2	1	-	1	-	-	-	-	-	
Mississippi	6	-	-	-	-	-	1	1	-	2	1	1	-	-	-	
Missouri	8	-	-	-	-	-	2	-	1	2	2	-	-	1	-	
Montana	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	
Nebraska	5	-	-	-	-	-	1	-	1	1	1	1	-	-	-	
Nevada	3	-	1	-	-	-	-	-	-	-	-	1	-	-	1	
New Jersey	15	-	-	-	-	1	-	4	2	4	-	1	1	1	1	
New Mexico	10	2	-	-	-	1	1	-	-	-	1	-	-	2	3	
New York	14	2	-	-	-	2	1	2	-	1	2	1	-	1	2	
North Carolina	20	2	-	-	-	1	-	-	3	1	10	2	-	1	-	
North Dakota	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	
Ohio	19	-	-	1	-	3	4	3	4	-	2	-	2	-	-	
Oklahoma	10	1	-	-	-	-	-	-	2	2	2	2	-	-	1	
Oregon	4	-	-	-	-	-	2	-	-	1	-	1	-	-	-	
Pennsylvania	15	2	-	-	-	4	2	-	1	1	2	1	1	-	1	
Rhode Island	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
South Carolina	6	-	-	-	-	-	-	2	-	1	2	1	-	-	-	
South Dakota	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Tennessee	10	-	-	-	-	1	-	4	-	2	-	1	1	-	1	
Texas	41	1	-	-	-	5	3	8	4	2	8	7	-	1	2	
Utah	5	-	-	-	-	-	1	-	-	-	1	-	2	-	1	
Virginia	2	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
Washington	19	-	-	-	2	5	2	3	2	-	1	1	-	1	2	
West Virginia	6	1	1	-	-	-	1	-	-	-	1	1	1	-	-	
Wisconsin	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	
Total	482	42	2	3	5	41	50	63	55	43	55	48	30	16	29	

**TABLE 10-4 TRESPASSERS INJURED, BY RAILROAD AND AGE, NOT AT HRC, 2004**

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		
Amtrak	26	6.5	3	-	-	2	3	2	4	1	2	5	-	1	2	1	
Burlington Northern Santa Fe	65	16.2	10	1	-	5	6	6	6	2	7	4	7	6	-	5	
Conrail Shared Assets	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
CSX Transportation	67	16.7	10	1	2	7	5	12	4	2	8	5	7	3	-	1	
Delaware & Hudson	2	0.5	-	-	-	-	1	-	-	-	1	-	-	-	-	-	
Dakota, Minnesota & Eastern	2	0.5	-	-	-	-	1	-	-	-	1	-	-	-	-	-	
Florida East Coast	7	1.7	-	-	1	-	-	-	1	1	2	1	-	-	1	-	
Grand Trunk Western RR	4	1.0	-	-	-	-	1	-	-	-	2	1	-	-	-	-	
Illinois Central	1	0.2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Iowa Chicago & Eastern RR	1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
Indiana Harbor Belt	2	0.5	-	-	-	-	-	1	-	-	-	-	-	-	-	1	
Kansas City Southern	11	2.7	3	-	-	-	1	1	-	-	3	1	-	1	1	-	
Long Island Rail Road	5	1.2	-	-	-	-	-	-	1	-	1	-	-	2	-	1	
Metro North Commuter	1	0.2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Montana Rail Link	3	0.7	1	-	-	-	-	-	1	-	-	-	-	-	1	-	
Northeast IL Reg Comm	7	1.7	-	-	-	-	1	-	2	-	-	-	2	1	-	1	
New Jersey Transit Rail	4	1.0	2	-	-	-	-	-	1	-	-	-	1	-	-	-	
Norfolk Southern Corp.	39	9.7	-	1	1	3	7	1	5	3	5	5	5	2	1	-	
Port Auth Trans Hudson	2	0.5	-	-	-	-	-	1	-	1	-	-	-	-	-	-	
Peninsula Comm San Mateo Cnty	3	0.7	-	-	-	-	2	-	-	-	-	1	-	-	-	-	
Soo Line	3	0.7	-	-	-	-	-	1	2	-	-	-	-	-	-	-	
Texas Mexican	2	0.5	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
Union Pacific	124	30.9	-	1	2	6	14	19	21	12	19	8	9	4	4	5	
Wisconsin Central Ltd.	1	0.2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
Wisconsin & Southern RR	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Other Railroads	17	4.2	6	-	1	-	2	2	4	-	2	-	-	-	-	-	
Total	401	100	36	4	7	24	44	48	55	22	53	31	31	20	11	15	

**TABLE 10-5 TRESPASSERS INJURED, BY STATE AND AGE, NOT AT HRC, 2004**

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	10	2.5	1	-	-	-	2	-	1	-	-	1	2	1	2	-
Arizona	21	5.2	-	-	-	-	3	7	1	-	6	3	-	1	-	-
Arkansas	3	0.7	-	-	-	-	-	1	1	-	1	-	-	-	-	-
California	46	11.5	4	-	1	4	5	7	10	2	4	3	2	1	-	3
Colorado	12	3.0	1	-	-	-	1	-	2	1	1	1	2	-	-	3
Connecticut	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	13	3.2	3	-	1	-	-	2	1	1	2	1	1	-	1	-
Georgia	15	3.7	1	2	-	-	-	4	1	-	5	1	1	-	-	-
Idaho	2	0.5	-	-	-	-	-	-	-	1	-	-	-	-	1	-
Illinois	26	6.5	1	-	-	1	5	-	6	1	2	-	4	3	-	3
Indiana	9	2.2	2	-	-	-	-	1	2	-	2	1	-	-	-	1
Iowa	2	0.5	-	-	-	-	-	-	-	-	-	-	-	1	1	-
Kansas	8	2.0	-	1	-	1	1	-	-	-	-	1	2	-	1	1
Kentucky	9	2.2	-	-	-	4	3	-	-	-	1	1	-	-	-	-
Louisiana	7	1.7	2	-	-	-	-	-	-	2	1	2	-	-	-	-
Maryland	3	0.7	-	-	1	-	-	1	-	-	1	-	-	-	-	-
Massachusetts	1	0.2	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Michigan	10	2.5	-	-	-	-	-	3	1	-	3	1	-	1	-	1
Minnesota	2	0.5	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Mississippi	4	1.0	1	-	-	-	1	1	-	-	1	-	-	-	-	-
Missouri	14	3.5	2	-	1	2	2	2	1	-	3	1	-	-	-	-
Montana	3	0.7	1	-	-	-	-	-	1	-	-	-	-	-	1	-
Nebraska	2	0.5	-	-	-	-	-	-	-	-	-	-	1	-	1	-
Nevada	4	1.0	-	-	-	-	-	-	-	-	1	2	-	-	-	1
New Jersey	10	2.5	2	-	-	-	1	2	3	1	-	-	1	-	-	-
New Mexico	3	0.7	-	-	-	-	1	-	-	1	1	-	-	-	-	-
New York	14	3.5	-	-	-	1	1	2	3	-	3	-	1	2	-	1
North Carolina	15	3.7	3	-	-	2	2	-	1	1	-	2	3	-	1	-
North Dakota	1	0.2	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ohio	8	2.0	1	-	1	-	2	-	-	-	-	3	1	-	-	-
Oklahoma	7	1.7	-	-	-	-	3	1	-	1	-	-	-	2	-	-
Oregon	10	2.5	1	-	-	1	-	2	2	-	-	3	1	-	-	-
Pennsylvania	14	3.5	1	-	-	-	3	1	4	2	2	-	1	-	-	-
Rhode Island	1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	1	-
South Carolina	2	0.5	1	-	-	1	-	-	-	-	-	-	-	-	-	-
South Dakota	2	0.5	-	-	-	-	1	-	-	-	1	-	-	-	-	-
Tennessee	4	1.0	1	-	-	2	-	-	-	-	-	-	1	-	-	-
Texas	54	13.5	3	1	-	2	6	4	11	4	9	2	5	5	1	1
Utah	1	0.2	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Virginia	7	1.7	-	-	-	-	-	1	-	-	2	1	1	2	-	-
Washington	13	3.2	2	-	2	1	-	1	2	2	1	-	1	1	-	-
West Virginia	4	1.0	1	-	-	-	-	1	-	1	-	1	-	-	-	-
Wisconsin	4	1.0	-	-	-	1	-	2	1	-	-	-	-	-	-	-
<b>Total</b>	<b>401</b>	<b>100</b>	<b>36</b>	<b>4</b>	<b>7</b>	<b>24</b>	<b>44</b>	<b>48</b>	<b>55</b>	<b>22</b>	<b>53</b>	<b>31</b>	<b>31</b>	<b>20</b>	<b>11</b>	<b>15</b>

**TABLE 10-6 TRESPASSERS NOT AT HRC BY STATE AND AGE GROUP, 2004**

States	Deaths				Total Killed		Nonfatal Cases				Total Injured	
	Age Group			Age Group								
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	-	-	2	7	9	1.9	1	-	2	7	10	2.5
Arizona	1	-	-	16	17	3.5	-	-	6	15	21	5.2
Arkansas	-	-	1	2	3	0.6	-	-	-	3	3	0.7
California	11	2	7	66	86	17.8	4	5	6	31	46	11.5
Colorado	-	-	-	2	2	0.4	1	-	1	10	12	3.0
Connecticut	-	-	-	1	1	0.2	1	-	-	-	1	0.2
Delaware	-	-	1	-	1	0.2	-	-	-	-	0	0.0
Dist Of Columbia	-	-	-	2	2	0.4	-	-	-	-	0	0.0
Florida	5	1	1	14	21	4.4	3	1	1	8	13	3.2
Georgia	2	-	-	16	18	3.7	1	2	2	10	15	3.7
Idaho	-	-	-	1	1	0.2	-	-	-	2	2	0.5
Illinois	2	-	4	20	26	5.4	1	1	5	19	26	6.5
Indiana	1	-	-	11	12	2.5	2	-	-	7	9	2.2
Iowa	-	-	-	3	3	0.6	-	-	-	2	2	0.5
Kansas	-	1	1	3	5	1.0	-	2	1	5	8	2.0
Kentucky	-	1	-	6	7	1.5	-	4	3	2	9	2.2
Louisiana	2	-	-	9	11	2.3	2	-	-	5	7	1.7
Maine	-	-	-	1	1	0.2	-	-	-	-	0	0.0
Maryland	2	-	3	5	10	2.1	-	1	1	1	3	0.7
Massachusetts	4	-	1	5	10	2.1	-	-	1	-	1	0.2
Michigan	-	-	-	6	6	1.2	-	-	2	8	10	2.5
Minnesota	-	-	1	3	4	0.8	-	-	-	2	2	0.5
Mississippi	-	-	-	6	6	1.2	1	-	2	1	4	1.0
Missouri	-	-	-	8	8	1.7	2	3	2	7	14	3.5
Montana	-	-	-	2	2	0.4	1	-	-	2	3	0.7
Nebraska	-	-	-	5	5	1.0	-	-	-	2	2	0.5
Nevada	-	1	-	2	3	0.6	-	-	-	4	4	1.0
New Jersey	-	-	1	14	15	3.1	2	-	1	7	10	2.5
New Mexico	2	-	2	6	10	2.1	-	-	1	2	3	0.7
New York	2	-	3	9	14	2.9	-	1	2	11	14	3.5
North Carolina	2	-	1	17	20	4.1	3	2	2	8	15	3.7
North Dakota	1	-	-	1	2	0.4	-	1	-	-	1	0.2
Ohio	-	1	3	15	19	3.9	1	1	2	4	8	2.0
Oklahoma	1	-	-	9	10	2.1	-	-	3	4	7	1.7
Oregon	-	-	1	3	4	0.8	1	1	-	8	10	2.5
Pennsylvania	2	-	5	8	15	3.1	1	-	4	9	14	3.5
Rhode Island	-	-	-	1	1	0.2	-	-	-	1	1	0.2
South Carolina	-	-	-	6	6	1.2	1	1	-	-	2	0.5
South Dakota	-	-	-	1	1	0.2	-	-	1	1	2	0.5
Tennessee	-	-	1	9	10	2.1	1	2	-	1	4	1.0
Texas	1	-	6	34	41	8.5	3	3	8	40	54	13.5
Utah	-	-	-	5	5	1.0	-	-	-	1	1	0.2
Virginia	-	-	-	2	2	0.4	-	-	1	6	7	1.7
Washington	-	2	6	11	19	3.9	2	3	1	7	13	3.2
West Virginia	1	1	-	4	6	1.2	1	-	-	3	4	1.0
Wisconsin	-	-	-	2	2	0.4	-	1	1	2	4	1.0
Total	42	10	51	379	482	100.0	36	35	62	268	401	100.0

**TABLE 10-7 TRESPASSERS CASUALTIES, BY MONTH AND DAY, NOT AT HRC, 2004**

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	29	3.3	5	2	1	3	7	6	5	4	-	1	24
	February	34	3.9	10	7	2	5	5	3	2	1	-	6	27
	March	34	3.9	5	3	2	3	7	7	7	3	1	3	27
	April	35	4.0	7	4	3	4	5	7	5	4	1	4	26
	May	46	5.2	10	12	5	3	7	2	7	2	3	3	38
	June	38	4.3	5	5	4	10	5	5	4	2	-	4	32
	July	50	5.7	9	7	2	4	18	3	7	4	-	6	40
	August	47	5.3	11	7	4	7	6	2	10	5	2	1	39
	September	41	4.6	8	4	5	8	7	5	4	7	1	5	28
	October	48	5.4	9	4	7	6	8	5	9	1	1	7	39
	November	44	5.0	7	7	12	7	1	5	5	3	-	6	35
	December	36	4.1	5	3	5	6	4	7	6	6	1	5	24
	Total	482	54.6	91	65	52	66	80	57	71	42	10	51	379
Nonfatal	January	21	2.4	3	2	2	1	2	4	7	2	3	3	13
	February	24	2.7	2	3	3	2	3	4	7	1	1	3	19
	March	33	3.7	5	9	4	5	4	4	2	-	3	4	26
	April	28	3.2	3	-	3	7	5	4	6	3	2	6	17
	May	43	4.9	11	7	3	2	9	6	5	3	9	9	22
	June	52	5.9	17	2	5	6	5	10	7	9	5	8	30
	July	36	4.1	6	4	3	6	6	6	5	1	1	7	27
	August	34	3.9	6	4	9	4	6	-	5	4	3	4	23
	September	38	4.3	10	1	4	4	6	12	1	2	2	5	29
	October	34	3.9	6	1	4	4	2	10	7	1	4	8	21
	November	33	3.7	4	3	6	7	3	4	6	4	1	4	24
	December	25	2.8	3	4	1	3	6	5	3	6	1	1	17
	Total	401	45.4	76	40	47	51	57	69	61	36	35	62	268
Total		883	100	167	105	99	117	137	126	132	78	45	113	647

**TABLE 10-8 TRESPASSERS CASUALTIES, BY TIME AND DAY, NOT AT HRC, 2004**

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
<b>AM 1</b>	49	6	3	6	-	1	4	3	1	9	3	3	2	6	2
<b>2</b>	38	4	5	3	3	2	2	-	-	3	3	1	4	4	4
<b>3</b>	42	7	2	3	2	2	4	5	-	5	-	1	1	7	3
<b>4</b>	21	2	1	3	2	1	2	3	-	-	2	1	1	1	2
<b>5</b>	21	3	2	2	1	-	-	2	-	2	-	2	2	3	2
<b>6</b>	31	2	3	2	-	2	5	4	3	3	2	3	2	-	-
<b>7</b>	26	1	4	2	-	1	-	1	5	-	1	2	2	6	1
<b>8</b>	16	1	-	-	-	-	1	1	3	1	3	1	1	2	2
<b>9</b>	25	3	1	1	2	6	-	2	1	2	3	1	-	1	2
<b>10</b>	24	3	1	2	-	2	3	2	2	3	1	1	1	-	3
<b>11</b>	32	4	1	2	2	3	2	2	2	3	2	4	2	2	1
<b>12</b>	47	5	4	5	2	5	1	4	1	5	2	6	1	4	2
<b>Total</b>	372	41	27	31	14	25	24	29	18	36	22	26	19	36	24
<b>PM 1</b>	29	2	2	2	-	3	1	2	2	3	1	4	2	2	3
<b>2</b>	44	2	5	2	4	2	2	4	-	-	5	5	4	3	6
<b>3</b>	35	3	2	4	5	1	1	2	3	3	-	2	8	1	-
<b>4</b>	30	6	1	2	3	-	2	1	3	-	2	-	3	2	5
<b>5</b>	38	5	4	-	1	3	3	4	4	2	2	1	2	2	5
<b>6</b>	49	2	4	3	2	1	2	7	2	4	9	2	5	5	1
<b>7</b>	47	9	4	2	2	1	3	3	3	2	4	3	7	2	2
<b>8</b>	52	5	9	4	2	5	2	3	3	3	3	3	4	3	3
<b>9</b>	62	5	9	6	-	4	4	3	2	10	3	3	6	6	1
<b>10</b>	35	5	2	4	1	4	1	3	2	5	1	1	1	3	2
<b>11</b>	46	2	1	2	3	2	-	2	5	7	4	4	3	5	6
<b>12</b>	44	4	6	3	3	1	2	3	4	5	1	3	5	1	3
<b>Total</b>	511	50	49	34	26	27	23	37	33	44	35	31	50	35	37
<b>Total</b>	883	91	76	65	40	52	47	66	51	80	57	57	69	71	61

**TABLE 10-9 TRESPASSERS CASUALTIES, BY LOCATION, NOT AT HRC, 2004**

Location	Total		Fatal		Nonfatal		Age of Person				
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21	
Alongside of on-track equipment	68	7.7	30	6.2	38	9.5	7	3	11	47	
At work station	3	0.3	-	0.0	3	0.7	-	-	-	3	
Beside track	140	15.9	53	11.0	87	21.7	5	11	20	104	
Between tracks	161	18.2	120	24.9	41	10.2	9	7	16	129	
Between cars/locomotives	31	3.5	10	2.1	21	5.2	5	2	6	18	
In car	4	0.5	1	0.2	3	0.7	-	-	1	3	
In/operating vehicle	20	2.3	6	1.2	14	3.5	5	-	2	13	
In tunnel	2	0.2	1	0.2	1	0.2	1	-	-	1	
On bridge/trestle	24	2.7	12	2.5	12	3.0	2	2	7	13	
On highway-rail crossing	8	0.9	2	0.4	6	1.5	1	-	1	6	
On side of car	35	4.0	3	0.6	32	8.0	2	5	8	20	
On track	360	40.8	239	49.6	121	30.2	39	13	38	270	
On end of car	4	0.5	-	0.0	4	1.0	-	1	-	3	
On platform	3	0.3	-	0.0	3	0.7	-	-	-	3	
On stairs	2	0.2	1	0.2	1	0.2	-	-	-	2	
On ladder	1	0.1	-	0.0	1	0.2	-	-	-	1	
Other location on locomotive	1	0.1	-	0.0	1	0.2	-	-	-	1	
Under car	4	0.5	1	0.2	3	0.7	-	-	1	3	
Under locomotive	1	0.1	-	0.0	1	0.2	-	-	-	1	
Car, on top of (rail car)	2	0.2	1	0.2	1	0.2	-	1	-	1	
Depot	2	0.2	1	0.2	1	0.2	-	-	-	2	
Other location	7	0.8	1	0.2	6	1.5	2	-	2	3	
Total	883	100	482	100	401	100	78	45	113	647	

**TABLE 10-10 TRESPASSERS CASUALTIES, BY EVENT, NOT AT HRC, 2004**

Location	Total		Fatal		Nonfatal		Age of Person			
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21
Caught in/compressed by other machinery	1	0.1	-	0.0	1	0.2	-	-	-	1
Caught in/crushed by materials	1	0.1	-	0.0	1	0.2	1	-	-	-
Climatic condition, exposure to environmental co	1	0.1	1	0.2	-	0.0	-	-	-	1
Collision - between on track equipment	1	0.1	1	0.2	-	0.0	-	-	-	1
Collision/impact - auto, truck, bus, van, etc.	11	1.2	4	0.8	7	1.7	4	1	-	6
Electrical shock due to contact with 3rd rail, c	1	0.1	-	0.0	1	0.2	1	-	-	-
Electrical shock, other (explain in narrative)	5	0.6	1	0.2	4	1.0	-	5	-	-
Horseplay, practical joke, etc.	5	0.6	2	0.4	3	0.7	-	1	3	1
Lost balance	23	2.6	6	1.2	17	4.2	-	-	1	22
Missed handhold, grabiron, step, etc.	3	0.3	-	0.0	3	0.7	-	-	-	3
Other impacts - on track equipment	1	0.1	1	0.2	-	0.0	-	-	-	1
Ran into on-track equipment	6	0.7	2	0.4	4	1.0	2	-	-	4
Ran into object/equipment	6	0.7	1	0.2	5	1.2	-	-	-	6
Slipped,fell,stumbled,etc. due to irregular surf	1	0.1	-	0.0	1	0.2	-	-	-	1
Slipped, fell, stumbled, etc. due to climatic co	1	0.1	-	0.0	1	0.2	-	-	-	1
Slipped,fell,stumbled,etc. due to object,ballast	2	0.2	-	0.0	2	0.5	-	-	1	1
Struck by object	4	0.5	2	0.4	2	0.5	2	-	-	2
Struck by on-track equipment	694	78.6	439	91.1	255	63.6	53	26	85	530
Struck by falling object	1	0.1	-	0.0	1	0.2	-	-	-	1
Struck against object	12	1.4	2	0.4	10	2.5	2	1	2	7
Sudden/unexpected movement of on-track equipmen	3	0.3	-	0.0	3	0.7	-	-	2	1
Sudden/unexpected movement of vehicle	4	0.5	2	0.4	2	0.5	-	-	-	4
Thrill seeking	7	0.8	2	0.4	5	1.2	-	4	-	3
Caught, crushed, pinched, other	11	1.2	-	0.0	11	2.7	-	1	5	5
On track equipment, other incidents	2	0.2	1	0.2	1	0.2	-	-	-	2
Slipped, fell, stumbled, other	50	5.7	9	1.9	41	10.2	5	6	10	29
Sudden, unexpected movement, other	2	0.2	-	0.0	2	0.5	-	-	-	2
Burned	1	0.1	1	0.2	-	0.0	-	-	-	1
Caught Between Equipment	3	0.3	-	0.0	3	0.7	1	-	1	1
Other (describe in narrative)	20	2.3	5	1.0	15	3.7	7	-	3	10
<b>Total</b>	<b>883</b>	<b>100</b>	<b>482</b>	<b>100</b>	<b>401</b>	<b>100</b>	<b>78</b>	<b>45</b>	<b>113</b>	<b>647</b>



## **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

### 2005 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 periodically adjusted in order to keep the procedure matched with the current accident trends. The last recalculation and adjustment was made for Calendar Year 2002 and published in the Appendix for the 2003 *Railroad Safety Statistics Annual Report*. They were used in the Procedure for PCAPS 2003.

Using the accident data for Calendar Years 1999 to 2003 (to predict 2004), the process of determining the three (3) new normalizing constants for PCAPS 2005 is performed such that the sum of the 2004 accident prediction values for all open public at-grade crossings, as of December 2004, 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 (which is downward) for 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 were included, those accidents which occurred prior to the date of a warning device change (at crossings that had a warning device change between 1999 to 2004), were excluded as well as any closed crossings. This means that the number of *observed* accidents, for currently open crossings, will not be equal to the actual number of accidents that are reported in the annual Bulletin.

The constants were redetermined for the National model using the crossings in the National Inventory File as of December 2004. Those using the ADOT 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 December 2005, these new constants will be in the 2005 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					
	2005	2003	1998	1992	1990	1988	1986
(1) Passive	.6407	.6500	.7159	.8239	.9417	.8778	.8644
(2) Flashing Lights	.5233	.5001	.5292	.6935	.8345	.8013	.8887
(3) Gates	.6513	.5725	.4921	.6714	.8901	.8911	.8131

\\wpdata\rxiprogram\acpd\ACPD Constants 2005.wpd

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
AN Rwy LLC [AN ]	2	1	1	-	-	-	1	1	-	1	-	1
Aberdeen & Rockfish RR Co. [AR ]	1	-	-	-	-	-	1	-	-	-	-	-
Aberdeen, Carolina & Western RR [ACWR]	-	-	-	-	-	-	-	-	-	-	-	-
Abilene & Smokey Valley RR [AVSX]	1	-	1	-	-	-	-	-	-	1	-	1
Acadiana Rwy Co. [AKDN]	1	-	1	-	-	-	1	-	1	-	-	-
Adirondack Scenic RR [ADCX]	2	-	3	-	-	-	-	-	-	2	-	3
Adrian & Blissfield RR [ADBF]	-	-	-	-	-	-	-	-	-	-	-	-
Akron Barberton Cluster Rwy Co. [AB ]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Florida Rwy Co. [AF ]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Gulf Coast Rwy LLC [AGR ]	5	-	2	1	-	-	2	-	-	2	-	2
Alabama & Tennessee River Rwy LLC [ATN] [ATN ]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama RR Co., Inc. [ALAB]	2	-	2	-	-	-	-	-	-	2	-	2
Alameda Belt Line [ABL ]	-	-	-	-	-	-	-	-	-	-	-	-
Alamo Gulf Coast RR Co. [AGCR]	4	-	1	3	-	-	-	-	-	1	-	1
Albany & Eastern RR Co. [AERC]	3	-	1	2	-	-	-	-	-	1	-	1
Albany Port RR [APRR]	-	-	-	-	-	-	-	-	-	-	-	-
Alexander RR Co. [ARC ]	-	-	-	-	-	-	-	-	-	-	-	-
Algers, Winslow & Western Rwy Co. [AWW ]	-	-	-	-	-	-	-	-	-	-	-	-
Aliquippa & Ohio River RR Co. [AOR ]	-	-	-	-	-	-	-	-	-	-	-	-
Allegheny Valley RR Co. [AVR ]	9	-	4	5	-	-	-	-	-	4	-	4
Almanor RR Co. [AL ]	-	-	-	-	-	-	-	-	-	-	-	-
Altamont Commuter Express Authority [ACEX]	3	1	1	-	-	-	2	1	-	1	-	1
Amador Foothills RR [AFR ]	-	-	-	-	-	-	-	-	-	-	-	-
Amicor Switching Operation [AMIX]	-	-	-	-	-	-	-	-	-	-	-	-
Angelina & Neches River RR Co. [ANR ]	-	-	-	-	-	-	-	-	-	-	-	-
Ann Arbor RR [AA ]	2	1	1	-	-	-	-	-	-	2	1	1
Apache Rwy Co. [APA ]	-	-	-	-	-	-	-	-	-	-	-	-
Appanoose County Community RR Co. [APNC]	-	-	-	-	-	-	-	-	-	-	-	-
Arcade & Attica RR Corp. [ARA ]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona & California RR Co. [ARZC]	1	-	-	1	-	-	-	-	-	-	-	-
Arizona Central RR, Inc. [AZCR]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona Eastern RR [AZER]	8	1	2	5	-	-	-	-	-	3	1	2
Arkansas & Missouri RR Co. [AM ]	13	-	9	-	-	-	7	-	3	6	-	6
Arkansas Louisiana & Mississippi RR Co. [ALM ]	-	-	-	-	-	-	-	-	-	-	-	-
Arkansas Midland RR Co., Inc. [AKMD]	10	-	4	4	-	-	2	-	-	4	-	4
Arkansas-Oklahoma RR Inc. [AOK ]	1	-	-	1	-	-	-	-	-	-	-	-
Ashland Rwy Inc. [ASRY]	10	-	8	1	-	-	2	-	1	7	-	7
Ashtubula, Carson & Jefferson RR [ACJR]	-	-	-	-	-	-	-	-	-	-	-	-
Athens Line LLC, The [ABR ]	1	-	-	-	-	-	1	-	-	-	-	-
Atlantic & Western Rwy, L.P. [ATW ]	-	-	-	-	-	-	-	-	-	-	-	-
Austin & Texas Central RR [ATCX]	-	-	-	-	-	-	-	-	-	-	-	-
Austin Area Term. RR [AUAR]	5	-	4	-	-	-	1	-	-	4	-	4
Austin, Todd & Ladd RR Co. [ATLT]	-	-	-	-	-	-	-	-	-	-	-	-

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
B&H Rail Corp [BHX ]	1	-	1	-	-	-	-	-	-	1	-	1
Ballard Term. RR Co LLC [BDTL]	-	-	-	-	-	-	-	-	-	-	-	-
Batten Kill RR [BKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Battleground, Yacolt & Chelatchie Prarie RR [BYCX]	-	-	-	-	-	-	-	-	-	-	-	-
Bauxite & Northern Rwy Co. [BXN ]	-	-	-	-	-	-	-	-	-	-	-	-
Bay Colony RR [BCLR]	1	-	1	-	-	-	-	-	-	1	-	1
Bay Line RR, L.L.C., The [BAYL]	1	-	-	-	-	-	1	-	-	-	-	-
Belfast & Moosehead Lake RR Co. [BML ]	-	-	-	-	-	-	-	-	-	-	-	-
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 ]	12	-	11	2	-	-	1	-	1	9	-	10
Big South Fork Scenic Rwy [BSFX]	-	-	-	-	-	-	-	-	-	-	-	-
Bighorn Divide & Wyoming RR, Inc. [BDW ]	-	-	-	-	-	-	-	-	-	-	-	-
Birmingham Southern RR Co. [BS ]	7	-	6	1	-	-	-	-	-	6	-	6
Black Hills Central RR [BHC ]	-	-	-	-	-	-	-	-	-	-	-	-
Blacklands RR, The [BLR ]	-	-	-	-	-	-	-	-	-	-	-	-
Blackwell and Northern Rwy Cmpny Inc., The [BNR ]	-	-	-	-	-	-	-	-	-	-	-	-
Bloomer Shippers Connecting RR Co. [BLOL]	-	-	-	-	-	-	-	-	-	-	-	-
Blue Rock Transportation Co. [BRTR]	-	-	-	-	-	-	-	-	-	-	-	-
Boone Scenic Valley [BSV ]	2	-	1	-	-	-	1	-	-	1	-	1
Boot Hill and Western RR [BHWY]	-	-	-	-	-	-	-	-	-	-	-	-
Border Pacific RR [BOP ]	-	-	-	-	-	-	-	-	-	-	-	-
Brandywine Valley RR Co. [BVRY]	2	-	2	-	-	-	-	-	-	2	-	2
Brownsville & Rio Grande International RR [BRG ]	6	-	6	-	-	-	-	-	-	6	-	6
Buckingham Branch RR Co. [BB ]	3	-	3	-	-	-	-	-	-	3	-	3
Buffalo & Pittsburgh RR, Inc. [BPRR]	12	-	10	2	-	2	3	-	1	7	-	7
Buffalo Southern RR, Inc. [BSOR]	1	-	1	-	-	-	-	-	-	1	-	1
Burlington Junction Rwy [BJRY]	-	-	-	-	-	-	-	-	-	-	-	-
C & NC RR Corp. [CNUR]	-	-	-	-	-	-	-	-	-	-	-	-
CHICAGO, FT. WAYNE & EASTERN [CFE ]	1	-	-	1	-	-	-	-	-	-	-	-
CMC RR Inc. [CMC ]	8	-	3	5	-	-	-	-	-	3	-	3
Caddo Valley RR Co. [CVYR]	6	-	3	3	-	-	-	-	-	3	-	3
Caldwell County RR Co. [CWCY]	-	-	-	-	-	-	-	-	-	-	-	-
California Northern RR Co. [CFNR]	-	-	-	-	-	-	-	-	-	-	-	-
California State RR Museum [CSRM]	-	-	-	-	-	-	-	-	-	-	-	-
Camp Chase Industrial RR Corp [CCRA]	-	-	-	-	-	-	-	-	-	-	-	-
Canadian National Illinois Central [CNIC]	1	-	-	1	-	-	-	-	-	-	-	-
Canadian Pacific Rwy [CPRS]	1	-	1	-	-	-	-	-	-	1	-	1
Caney Fork & Western RR [CFWR]	-	-	-	-	-	-	-	-	-	-	-	-
Canon City And Royal Gorge RR, LLC [CRRX]	2	-	2	-	-	-	-	-	-	2	-	2
Canton RR Co. [CTN ]	-	-	-	-	-	-	-	-	-	-	-	-
Cape Cod Central [CCCX]	1	1	1	-	-	-	1	1	1	-	-	-
Cape Fear Rwys, Inc. [CF ]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Coastal Rwy, Inc. [CLNA]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Southern RR Co., The [CALA]	-	-	-	-	-	-	-	-	-	-	-	-
Carrizo Gorge Rwy Inc. [CZRY]	3	-	3	-	-	-	-	-	-	3	-	3

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Carthage, Knightstown & Shirley RR [CKSI]	-	-	-	-	-	-	-	-	-	-	-	-
Cascade & Columbia River RR [CSCD]	1	-	1	-	-	-	-	-	-	1	-	1
Cass Scenic [CASS]	8	-	8	-	-	-	-	-	-	8	-	8
Catskill Mountain RR [CMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Rapids & Iowa City Rwy Co. [CIC ]	5	-	1	4	-	-	-	-	-	1	-	1
Central California Traction Co. [CCT ]	3	-	2	1	-	-	-	-	-	2	-	2
Central Columbiana & Pennsylvania Rwy Inc. [CQPA]	1	-	-	1	-	-	-	-	-	-	-	-
Central Illinois RR Co. [CIRY]	1	-	-	1	-	-	-	-	-	-	-	-
Central Indiana & Western RR Co. [CEIW]	-	-	-	-	-	-	-	-	-	-	-	-
Central Michigan Rwy Co. [CMGN]	-	-	-	-	-	-	-	-	-	-	-	-
Central Midland Rwy Co. [CMR ]	2	-	2	-	-	-	-	-	-	2	-	2
Central Montana RR [CM ]	-	-	-	-	-	-	-	-	-	-	-	-
Central Oregon & Pacific RR, Inc. [CORP]	17	-	7	8	-	-	3	-	1	6	-	6
Central RR Co. Of Indiana [CIND]	2	-	-	-	-	-	2	-	-	-	-	-
Central RR Co. Of Indianapolis [CERA]	1	-	-	1	-	-	-	-	-	-	-	-
Central Washington RR Co. [CWA ]	-	-	-	-	-	-	-	-	-	-	-	-
Charlotte Southern RR Co. [CHS ]	-	-	-	-	-	-	-	-	-	-	-	-
Chattahoochee & Gulf RR Co., Inc [CHAT]	-	-	-	-	-	-	-	-	-	-	-	-
Chattahoochee Industrial RR [CIRR]	-	-	-	-	-	-	-	-	-	-	-	-
Chattooga & Chickamauga RR [CCKY]	-	-	-	-	-	-	-	-	-	-	-	-
Chehalis & Centralia RR Association [CHCX]	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake & Albemarle RR Co. [CA ]	-	-	-	-	-	-	-	-	-	-	-	-
Chesapeake & Indiana RR [CKIN]	-	-	-	-	-	-	-	-	-	-	-	-
Chestnut Ridge Rwy Co. [CHR ]	-	-	-	-	-	-	-	-	-	-	-	-
Chicago Rail Link [CRL ]	17	-	6	10	-	-	1	-	-	6	-	6
Chicago-Chemung RR Corp. [CCUO]	-	-	-	-	-	-	-	-	-	-	-	-
Cimarron Valley RR L C [CVR ]	5	-	3	2	-	-	-	-	-	3	-	3
Cincinnati Rwy Co., The [CNRX]	-	-	-	-	-	-	-	-	-	-	-	-
City Of Prineville Rwy [COP ]	-	-	-	-	-	-	-	-	-	-	-	-
Claremont Concord RR Corp. [CCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Clarendon & Pittsford RR Co. [CLP ]	2	-	2	-	-	-	-	-	-	2	-	2
Cleveland Commercial RR Co., LLC [CCRL]	-	-	-	-	-	-	-	-	-	-	-	-
Cleveland Works Rwy Co. [CWRO]	21	-	13	7	-	1	2	-	-	12	-	12
Clinton Term. RR Co. [CTR ]	-	-	-	-	-	-	-	-	-	-	-	-
Cloquet Term. RR Co., Inc. [CTRR]	7	-	7	-	-	-	-	-	-	7	-	7
Coe Rail Inc. [CRLE]	-	-	-	-	-	-	-	-	-	-	-	-
Colorado & Wyoming Rwy Co. [CW ]	1	-	-	1	-	-	-	-	-	-	-	-
Colorado Kansas and Pacific [CKP ]	-	-	-	-	-	-	-	-	-	-	-	-
Columbia & Cowlitz Rwy Co. [CLC ]	3	-	3	-	-	-	-	-	-	3	-	3
Columbia Basin RR Co. Inc. [CBRW]	4	-	3	1	-	-	-	-	-	3	-	3
Columbia Business Center [CBCX]	-	-	-	-	-	-	-	-	-	-	-	-
Columbia Term. RR Co. [CT ]	2	-	1	-	-	-	1	-	-	1	-	1
Columbus & Greenville Rwy Co. [CAGY]	8	1	8	-	-	-	3	1	3	5	-	5
Columbus & Ohio River RR [CUOH]	-	-	-	-	-	-	-	-	-	-	-	-
Commonwealth Rwy, Inc. [CWRY]	-	-	-	-	-	-	-	-	-	-	-	-
Conecuh Valley RR [COEH]	1	-	1	-	-	-	1	-	1	-	-	-
Connecticut Department Of Transportation [CDOT]	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut Southern RR Inc. [CSO ]	4	-	3	1	-	-	-	-	-	3	-	3
Connotton Valley Rwy, Inc. [CVRI]	-	-	-	-	-	-	-	-	-	-	-	-

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Consolidated Grain & Barge Co. [CGBX]	1	-	-	-	-	-	1	-	-	-	-	-
Conway Scenic RR [CONW]	4	-	4	-	-	-	-	-	-	4	-	4
Coopersville & Marne RR [CMRX]	-	-	-	-	-	-	-	-	-	-	-	-
Copper Basin Rwy, Inc. [CBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi Term. RR Inc. [CCPN]	4	-	3	-	-	-	1	-	-	3	-	3
Council Bluffs Rwy Co. [CBGR]	2	-	2	-	-	-	1	-	1	1	-	1
Crab Orchard & Egyptian RR [COER]	1	-	1	-	-	-	1	-	1	-	-	-
Cumbres & Toltec Scenic RR [CTSR]	7	-	7	-	-	-	-	-	-	7	-	7
Cuyahoga Valley Scenic Rwy [CVSX]	-	-	-	-	-	-	-	-	-	-	-	-
D & I RR Co. [DAIR]	1	-	-	-	-	-	1	-	-	-	-	-
Dakota Southern Rwy Co. [DSRC]	-	-	-	-	-	-	-	-	-	-	-	-
Dakota, Missouri Valley & Western RR, Inc. [DMVW]	9	-	7	1	-	-	1	-	-	7	-	7
Dallas, Garland & Northeastern RR [DGNO]	9	1	-	4	-	-	5	1	-	-	-	-
Dardanelle & Russellville RR [DR ]	-	-	-	-	-	-	-	-	-	-	-	-
DeQueen & Eastern RR Co. [DQE ]	2	-	1	1	-	-	-	-	-	1	-	1
Decatur Junction Rwy Co. [DT ]	1	-	1	-	-	-	-	-	-	1	-	1
Delaware Coast Line RR [DCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Lackawanna RR [DL ]	7	-	3	4	-	-	-	-	-	3	-	3
Delray Connecting RR Co. [DC ]	4	-	4	-	-	-	-	-	-	4	-	4
Delta Southern RR Co. [DSRR]	3	-	-	3	-	-	-	-	-	-	-	-
Delta Valley & Southern Rwy Co. [DVS ]	-	-	-	-	-	-	-	-	-	-	-	-
Denver Rock Island RR [DRIR]	-	-	-	-	-	-	-	-	-	-	-	-
Dependable Rail Services [DPRX]	1	-	1	-	-	-	-	-	-	1	-	1
Depew, Lancaster & Western RR Co., Inc. [DLWR]	-	-	-	-	-	-	-	-	-	-	-	-
Detroit Connecting RR [DCON]	-	-	-	-	-	-	-	-	-	-	-	-
Detroit Edison [DE ]	2	-	2	-	-	-	-	-	-	2	-	2
Dubois County RR [DCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Duluth, Winnipeg & Pacific Rwy [DWP ]	6	-	5	1	-	1	1	-	-	4	-	4
Durango & Silverton Narrow Gauge RR Co. [DSNG]	26	-	26	-	-	-	-	-	-	26	-	26
East Camden & Highland RR Co. [EACH]	3	-	3	-	-	-	-	-	-	3	-	3
East Chattanooga Belt Rwy Co. [ECTB]	-	-	-	-	-	-	-	-	-	-	-	-
East Cooper & Berkeley RR [ECBR]	2	-	-	2	-	-	-	-	-	-	-	-
East Erie Commercial RR [EEC ]	2	-	2	-	-	-	-	-	-	2	-	2
East Jersey RR & Term. Co. [EJR ]	-	-	-	-	-	-	-	-	-	-	-	-
East Penn Rwy, Inc. [EPRY]	-	-	-	-	-	-	-	-	-	-	-	-
East Tennessee Rwy, L.P. [ETRY]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Alabama Rwy Co. [EARY]	1	-	-	1	-	-	-	-	-	-	-	-
Eastern Idaho RR [EIRR]	10	-	4	3	-	-	3	-	-	4	-	4
Eastern Illinois RR Co. [EIRC]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Maine RR Co. [EMRY]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Shore RR Inc. [ESHR]	1	-	1	-	-	-	-	-	-	1	-	1
Econo Rail Corp. [TXTX]	9	-	5	4	-	-	1	-	1	4	-	4
Effingham RR Co. [EFRR]	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado & Wesson Rwy Co. [EDW ]	-	-	-	-	-	-	-	-	-	-	-	-
Elk River RR, Inc. [ELKR]	-	-	-	-	-	-	-	-	-	-	-	-
Ellis & Eastern Co. [EE ]	-	-	-	-	-	-	-	-	-	-	-	-
Erie Western Rwy [EWR ]	1	-	-	-	-	-	1	-	-	-	-	-
Escalante Western Rwy [ESWR]	-	-	-	-	-	-	-	-	-	-	-	-
Escanaba & Lake Superior RR Co. [ELS ]	2	-	2	-	-	-	-	-	-	2	-	2
Everett RR Co. [EV ]	1	-	1	-	-	-	-	-	-	1	-	1

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Falls Creek RR [FCR ]	2	-	1	1	-	-	-	-	-	1	-	1
Falls Road RR Co. Inc. [FRR ]	2	-	2	-	-	-	-	-	-	2	-	2
Farmrail Corp. [FMRC]	1	-	-	-	-	-	1	-	-	-	-	-
Fillmore And Western [FMWX]	-	-	-	-	-	-	-	-	-	-	-	-
Finger Lakes Rwy Corp. [FGLK]	3	-	1	2	-	-	-	-	-	1	-	1
Flats Industrial RR [FIR ]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Central RR Co. [FCEN]	5	-	3	1	-	-	1	-	-	3	-	3
Florida Midland RR Co., Inc. [FMID]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Northern RR Co., Inc. [FNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Fordyce & Princeton RR Co. [FP ]	-	-	-	-	-	-	-	-	-	-	-	-
Fore River Transportation Corp. [FRVT]	-	-	-	-	-	-	-	-	-	-	-	-
Fort Smith RR Co. [FSR ]	2	-	2	-	-	-	-	-	-	2	-	2
Fort Worth & Western RR [FWWR]	6	-	4	-	-	-	3	-	1	3	-	3
Fremont & Elkhorn Valley RR [FEVR]	1	-	-	1	-	-	-	-	-	-	-	-
Fulton County RR Co. [FC ]	-	-	-	-	-	-	-	-	-	-	-	-
Galveston RR, L.P. [GVSR]	5	-	1	4	-	-	-	-	-	1	-	1
Garden City Western Rwy Co. [GCW ]	2	-	1	-	-	-	1	-	-	1	-	1
Gateway Eastern RR Co. [GWWE]	3	-	2	1	-	-	-	-	-	2	-	2
Georgetown RR Co. [GRR ]	3	-	1	1	-	-	1	-	-	1	-	1
Georgia & Florida Rwy [GFRR]	1	-	-	-	-	-	1	-	-	-	-	-
Georgia Central Rwy, L.P. [GC ]	4	-	-	1	-	-	3	-	-	-	-	-
Georgia Midland RR, Inc. [GMR ]	2	-	1	-	-	-	2	-	1	-	-	-
Georgia Northeastern RR Co. [GNRR]	2	-	1	1	-	-	-	-	-	1	-	1
Georgia Southwestern RR Inc. [GSWR]	2	-	2	-	-	-	-	-	-	2	-	2
Georgia Woodlands RR [GWRC]	-	-	-	-	-	-	-	-	-	-	-	-
Gettysburg and Northern RR [GET ]	3	-	3	-	-	-	-	-	-	3	-	3
Gloster Southern RR [GLSR]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Gate RR Museum [GGMX]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Isles Term. RR, Inc. [GITM]	2	-	2	-	-	-	-	-	-	2	-	2
Golden Triangle RR Co. [GTRA]	-	-	-	-	-	-	-	-	-	-	-	-
Grafton & Upton RR Co. [GU ]	-	-	-	-	-	-	-	-	-	-	-	-
Grainbelt Corp. [GNBC]	2	-	1	-	-	-	1	-	-	1	-	1
Grand Rapids Eastern RR Inc. [GR ]	-	-	-	-	-	-	-	-	-	-	-	-
Grand Transverse Dinner Train [GTDX]	2	-	-	2	-	-	-	-	-	-	-	-
Great Northern RR, Inc. [GRNW]	-	-	-	-	-	-	-	-	-	-	-	-
Great River RR [GTR ]	-	-	-	-	-	-	-	-	-	-	-	-
Great Smoky Mountains Rwy, The [GSM ]	2	-	1	1	-	-	-	-	-	1	-	1
Great Walton RR Co. [GRWR]	-	-	-	-	-	-	-	-	-	-	-	-
Great Western Rwy of Colorado, LLC [GWR ]	9	-	1	2	-	-	6	-	-	1	-	1
Green Mountain RR Corp. [GMRC]	4	-	4	-	-	-	-	-	-	4	-	4
Gulf, Colorado San Saba Rwy Corp. [GCSR]	2	-	-	2	-	-	-	-	-	-	-	-
H & S RR Co., Inc. [HS ]	-	-	-	-	-	-	-	-	-	-	-	-
Hampton & Branchville RR Co. [HB ]	-	-	-	-	-	-	-	-	-	-	-	-
Hardin Southern RR, Inc. [HSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hartwell RR Co. [HRT ]	-	-	-	-	-	-	-	-	-	-	-	-
Hawaiian Rwy Society [HRSX]	-	-	-	-	-	-	-	-	-	-	-	-

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Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Heart of Georgia RR, Inc. [HOG ]	3	-	1	-	-	-	3	-	1	-	-	-
Heber Valley RR Utah [HVRX]	-	-	-	-	-	-	-	-	-	-	-	-
Heritage RR Corp [HR ]	-	-	-	-	-	-	-	-	-	-	-	-
High Point, Thomasville & Denton RR Co. [HPTD]	1	-	1	-	-	-	1	-	1	-	-	-
Hollis & Eastern RR Co. [HE ]	-	-	-	-	-	-	-	-	-	-	-	-
Honey Creek RR, Inc. [HCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hoosier Southern RR [HOS ]	-	-	-	-	-	-	-	-	-	-	-	-
Housatonic RR Co., Inc. [HRRC]	9	-	7	2	-	-	-	-	-	7	-	7
Huntsville & Madison county RR Authority [HMCR]	-	-	-	-	-	-	-	-	-	-	-	-
Huron & Eastern Rwy [HESR]	4	1	2	1	-	-	1	1	-	2	-	2
Hutchinson & Northern Rwy Co. [HN ]	-	-	-	-	-	-	-	-	-	-	-	-
ITS Technologies & Logistics, LLC. [ITSL]	1	-	-	1	-	-	-	-	-	-	-	-
Idaho Northern & Pacific RR Co. [INPR]	7	-	6	-	-	-	2	-	1	5	-	5
Illinois & Midland RR Inc. [IMRR]	9	-	6	2	-	-	1	-	-	6	-	6
Illinois Railnet Inc. [IR ]	5	2	1	2	-	-	1	1	-	2	1	1
Illinois Rwy Museum [IRYM]	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Western RR Co. [ILW ]	-	-	-	-	-	-	-	-	-	-	-	-
Indian Creek RR Co. [ICRK]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana & Ohio Central RR, Inc. [IOCR]	7	-	3	1	-	-	3	-	-	3	-	3
Indiana & Ohio Rwy [IORY]	10	1	4	2	-	-	4	1	-	4	-	4
Indiana Northeastern RR Co., Incorporated [IN ]	6	-	6	-	-	-	-	-	-	6	-	6
Indiana Rail Road Co. [INRD]	7	-	6	-	-	-	3	-	2	4	-	4
Indiana Rwy Museum [IRM ]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Southern RR Co., Inc. [ISRR]	1	-	-	1	-	-	-	-	-	-	-	-
Indiana Southwestern Rwy Co. [ISW ]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Transportation Museum [ITMZ]	-	-	-	-	-	-	-	-	-	-	-	-
Intermodal Transfer, LLC [RSIX]	3	-	1	2	-	-	-	-	-	1	-	1
Iowa Interstate RR [IAIS]	29	-	8	17	-	-	7	-	3	5	-	5
Iowa Northern Rwy Co. [IANR]	7	-	3	2	-	-	2	-	-	3	-	3
Iowa Northwestern RR [IANW]	1	-	-	-	-	-	1	-	-	-	-	-
Iowa Traction RR Co. [IATR]	-	-	-	-	-	-	-	-	-	-	-	-
Jefferson Warrior RR [JEFW]	1	-	1	-	-	-	-	-	-	1	-	1
Johnson County Airport Commission [JCAX]	-	-	-	-	-	-	-	-	-	-	-	-
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 ]	3	-	-	3	-	-	-	-	-	-	-	-
Kansas and Oklahoma RR [KO ]	20	-	6	10	-	-	6	-	2	4	-	4
Kaw River RR [KAW ]	-	-	-	-	-	-	-	-	-	-	-	-
Kendallville Term. Rwy Co. [KTR ]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky & Tennessee Rwy [KT ]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky Rwy Museum [KRM ]	-	-	-	-	-	-	-	-	-	-	-	-
Keokuk Junction Rwy [KJRY]	5	-	2	1	-	-	2	-	-	2	-	2
Kettle Falls International Rwy LLC [KFR ]	-	-	-	-	-	-	-	-	-	-	-	-
Kiamichi RR Co. LLC [KRR ]	8	-	1	6	-	-	1	-	-	1	-	1
Kiski Junction RR [KJR ]	-	-	-	-	-	-	-	-	-	-	-	-
Klamath Northern Rwy Co. [KNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Knox & Kane RR Co. [KKRR]	1	-	-	1	-	-	-	-	-	-	-	-
Knoxville & Holston River RR Co., Inc. [KXHR]	-	-	-	-	-	-	-	-	-	-	-	-

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	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Kyle RR Co. [KYLE]	8	-	2	3	-	-	3	-	-	2	-	2
Lahaina Kaanapoli And Pacific [LKP ]	1	-	-	-	-	-	1	-	-	-	-	-
Lake County RR [LCR ]	2	-	2	-	-	-	-	-	-	2	-	2
Lake Shore Rwy [LSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Lake State Rwy Co. [LSRC]	14	-	10	4	-	-	2	-	2	8	-	8
Lake Superior & Ishpeming RR Co. [LSI ]	14	-	14	-	-	-	-	-	-	14	-	14
Lake Superior & Mississippi RR [LSMR]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Superior RR Museum [LSMT]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Term. RR Co. [LT ]	1	-	1	-	-	-	-	-	-	1	-	1
Lake Whatcom Rwy [LWAT]	-	-	-	-	-	-	-	-	-	-	-	-
Lancaster & Chester Rwy Co. [LC ]	5	-	4	1	-	-	-	-	-	4	-	4
Landisville Term. & Transfer Co. [LNVT]	-	-	-	-	-	-	-	-	-	-	-	-
Laona & Northern Rwy [LNO ]	-	-	-	-	-	-	-	-	-	-	-	-
Lapree Industrial RR [LIRR]	-	-	-	-	-	-	-	-	-	-	-	-
Laurinburg & Southern RR Co. [LRS ]	1	-	-	1	-	-	-	-	-	-	-	-
Leadville, Colorado & Southern RR, Co. [LCSR]	-	-	-	-	-	-	-	-	-	-	-	-
Lehigh Valley Rail Management [LVRX]	2	-	1	-	-	-	1	-	-	1	-	1
Lewis & Clark RR Co. [LINC]	-	-	-	-	-	-	-	-	-	-	-	-
Litchfield Industrial RR [LFIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Little Kanawha River Rail [LKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Little River RR [LRR ]	-	-	-	-	-	-	-	-	-	-	-	-
Little Rock & Western Rwy, L.P. [LRWN]	1	-	-	1	-	-	-	-	-	-	-	-
Little Rock Port RR Co. [LRPA]	-	-	-	-	-	-	-	-	-	-	-	-
Livonia, Avon & Lakeville RR Corp. [LAL ]	1	-	-	1	-	-	-	-	-	-	-	-
Logansport & Eel River Short Line Co., Inc. [LER ]	-	-	-	-	-	-	-	-	-	-	-	-
Lone Star Industries [LSIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Longview Switching [LS ]	-	-	-	-	-	-	-	-	-	-	-	-
Los Angeles Junction Rwy Co. [LAJ ]	6	-	6	-	-	-	-	-	-	6	-	6
Louisiana & Delta RR [LDRR]	4	-	2	-	-	-	3	-	1	1	-	1
Louisiana & North West RR Co. [LNW ]	4	-	2	2	-	-	-	-	-	2	-	2
Louisville & Indiana RR Co. [LIRC]	10	-	4	1	-	-	5	-	-	4	-	4
Louisville & Wadley Rwy Co. [LW ]	-	-	-	-	-	-	-	-	-	-	-	-
Louisville, New Albany & Corydon RR [LNAL]	-	-	-	-	-	-	-	-	-	-	-	-
Lowville & Beaver River RR Co. [LBR ]	-	-	-	-	-	-	-	-	-	-	-	-
Luxapalila Valley RR Inc. [LXVR]	1	-	1	-	-	-	-	-	-	1	-	1
Luzerene & Susquehanna Rwy Co. [LSX ]	-	-	-	-	-	-	-	-	-	-	-	-
Lycoming Valley RR Co. [LVRR]	-	-	-	-	-	-	-	-	-	-	-	-
M & B RR LLC [MNBR]	-	-	-	-	-	-	-	-	-	-	-	-
Madison RR Division [CMPA]	-	-	-	-	-	-	-	-	-	-	-	-
Magma Arizona RR Co. [MAA ]	-	-	-	-	-	-	-	-	-	-	-	-
Mahoning Valley RR Co. [MVRV]	-	-	-	-	-	-	-	-	-	-	-	-
Maine Eastern RR [MERR]	1	-	2	-	-	-	1	-	2	-	-	-
Manufacturers' Junction Rwy Co. [MJ ]	1	-	1	-	-	-	-	-	-	1	-	1
Manufacturers' Rwy Co. [MRS ]	7	-	6	1	-	-	1	-	1	5	-	5
Maryland & Delaware RR Co. [MDDE]	1	-	-	-	-	-	1	-	-	-	-	-
Maryland Midland Rwy, Inc. [MMID]	1	-	1	-	-	-	-	-	-	1	-	1
Massachusetts Central RR Corp. [MCER]	2	-	1	2	-	1	-	-	-	-	-	-
Massena Term. RR Co. [MSTR]	-	-	-	-	-	-	-	-	-	-	-	-

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Maumee & Western RR Corp. [MAW ]	-	-	-	-	-	-	-	-	-	-	-	-
Mccloud Rwy Co. [MCR ]	2	-	-	2	-	-	-	-	-	-	-	-
Mckeessport Connecting RR Co. [MKC ]	-	-	-	-	-	-	-	-	-	-	-	-
Meeker Southern RR [MSN ]	-	-	-	-	-	-	-	-	-	-	-	-
Meridian Southern Rwy LLC [MDS ]	1	-	-	1	-	-	-	-	-	-	-	-
Michigan Shore RR [MS ]	-	-	-	-	-	-	-	-	-	-	-	-
Michigan Southern RR Co., Inc. [MSO ]	2	1	-	-	-	-	1	-	-	1	1	-
Michigan State Trust For Rwy Preservation [MSTP]	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Continent Rwy [MCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Michigan RR Co. [MMRR]	3	-	1	1	-	-	2	-	1	-	-	-
Mid-South Rail Heritage Foundation [MSRJ] [MSRV]	-	-	-	-	-	-	-	-	-	-	-	-
Middletown & Hummelstown RR Co. [MIDH]	-	-	-	-	-	-	-	-	-	-	-	-
Middletown & New Jersey Rwy Co., Inc. [MNJ ]	-	-	-	-	-	-	-	-	-	-	-	-
Midlands Rwy [MDRY]	1	-	-	-	-	-	1	-	-	-	-	-
Milford-Bennington RR Co. [MBRX]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota & Manitoba RR [MMR ]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Commercial Rwy [MNNR]	20	-	17	1	-	-	4	-	2	15	-	15
Minnesota Northern RR Inc. [MNN ]	2	-	-	-	-	-	2	-	-	-	-	-
Minnesota Prairie Line, Inc. [MPLI]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Southern Rwy, Inc. [MSWY]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Transportation Museum [MNTM]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Zephyr, Limited [MZL ]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota, Dakota & Western Rwy Co. [MDW ]	1	-	1	-	-	-	-	-	-	1	-	1
Mississippi & Skuna Valley RR Co. [MSV ]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Central RR Co. [MSCI]	6	-	5	1	-	-	-	-	-	5	-	5
Mississippi Export RR Co. [MSE ]	6	-	1	2	-	-	3	-	-	1	-	1
Mississippi Tennessee RR LLC [MTNR]	1	-	-	1	-	-	-	-	-	-	-	-
Mississippian Rwy Cooperative, Inc. [MSRW]	-	-	-	-	-	-	-	-	-	-	-	-
Missouri & Northern Arkansas RR Co., Inc. [MNA ]	15	-	10	8	-	6	6	-	3	1	-	1
Missouri North Central RR [MNC ]	1	-	-	1	-	-	-	-	-	-	-	-
Modesto & Empire Traction Co. [MET ]	3	-	2	-	-	-	1	-	-	2	-	2
Mohawk, Adirondack & Northern RR Corp. [MHWA]	-	-	-	-	-	-	-	-	-	-	-	-
Monticello Rwy Museum [MRMZ]	-	-	-	-	-	-	-	-	-	-	-	-
Morehead & South Fork RR Co. Inc. [MHSF]	-	-	-	-	-	-	-	-	-	-	-	-
Morristown & Erie Rwy, Inc. [ME ]	-	-	-	-	-	-	-	-	-	-	-	-
Moscow, Camden & San Augustine RR [MCSA]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Dora & Lake Eustis Rwy [MDLX]	1	-	-	-	-	-	1	-	-	-	-	-
Mount Hood Rwy Co. [MH ]	1	-	1	-	-	-	-	-	-	1	-	1
Mount Rainier Scenic RR [MRSR]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Vernon Term. Rwy, Inc. [MVT ]	-	-	-	-	-	-	-	-	-	-	-	-
Municipality Of East Troy [METW]	-	-	-	-	-	-	-	-	-	-	-	-
N C Transportation Museum Foundation [NCMX]	-	-	-	-	-	-	-	-	-	-	-	-
Napa Valley RR [NVRN]	10	-	10	-	-	-	-	-	-	10	-	10
Nash County RR [NCYR]	1	-	-	-	-	-	1	-	-	-	-	-
Nashville & Eastern RR [NERR]	3	-	1	-	-	-	2	-	-	1	-	1
Nashville & Western RR Corp. [NWR ]	3	-	3	-	-	-	-	-	-	3	-	3
Naugatuck RR Co. Inc. [NAUG]	-	-	-	-	-	-	-	-	-	-	-	-
Nebkota Rwy, Inc. [NRI ]	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska Central RR [NCRC]	4	-	-	4	-	-	-	-	-	-	-	-
Nebraska Northeastern Rwy Co. [NENE]	-	-	-	-	-	-	-	-	-	-	-	-

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Nebraska, Kansas, Colorado Railnet [NKCR]	2	-	2	-	-	-	-	-	-	2	-	2
Nevada Northern Rwy [NNRX]	-	-	-	-	-	-	-	-	-	-	-	-
New Castle Industrial RR [NCIR]	-	-	-	-	-	-	-	-	-	-	-	-
New England Central RR [NECR]	9	-	6	3	-	-	2	-	2	4	-	4
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]	4	-	1	-	-	-	3	-	-	1	-	1
New Orleans Public Belt RR [NOPB]	11	-	5	4	-	-	2	-	-	5	-	5
New York & Atlantic Rwy Co. [NYA ]	8	-	8	-	-	-	-	-	-	8	-	8
New York & Greenwood Lake Rwy [NYGL]	-	-	-	-	-	-	-	-	-	-	-	-
New York & Lake Erie [NYLE]	-	-	-	-	-	-	-	-	-	-	-	-
New York & Ogdensburg Rwy Co. Inc. [NYOG]	-	-	-	-	-	-	-	-	-	-	-	-
New York Cross Harbor RR Term. Corp. [NYCH]	-	-	-	-	-	-	-	-	-	-	-	-
New York, Susquehanna & Western RR Co. [NYSW]	12	-	4	3	-	-	5	-	-	4	-	4
Newburgh & South Shore RR [NSR ]	-	-	-	-	-	-	-	-	-	-	-	-
Newport Dinner Train [NPDx]	2	-	2	-	-	-	-	-	-	2	-	2
Niles Canyon Rwy [NICX]	-	-	-	-	-	-	-	-	-	-	-	-
Nimishillen & Tuscarawas, LLC [NTRY]	5	-	5	-	-	-	-	-	-	5	-	5
Nittany & Bald Eagle [NBER]	2	-	-	1	-	-	1	-	-	-	-	-
Norfolk & Portsmouth Belt Line RR Co. [NPB ]	4	-	1	1	-	-	2	-	-	1	-	1
North Carolina & Virginia RR Co. [NCVA]	4	-	1	3	-	-	-	-	-	1	-	1
North Shore RR [NSHR]	4	-	2	-	-	-	2	-	-	2	-	2
North Shore Scenic RR [NSSR]	1	-	-	-	-	-	1	-	-	-	-	-
Northern Ohio & Western Rwy, LTD. [NOW ]	2	-	1	-	-	-	2	-	1	-	-	-
Northern Plains RR, Inc. [NPR ]	1	-	-	1	-	-	-	-	-	-	-	-
Northwestern Oklahoma RR Co. [NOKL]	-	-	-	-	-	-	-	-	-	-	-	-
Oakland Term. Rwy [OTR ]	-	-	-	-	-	-	-	-	-	-	-	-
Ogeechee Rwy Co. [OGEE]	-	-	-	-	-	-	-	-	-	-	-	-
Ohi Rail Corp. [OHIC]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio & Pennsylvania RR Co. [OHPA]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Central RR Co. [OHCR]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Rwy Museum [ORY ]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Southern RR Co. [OSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Ohio Valley RR Co. [OVR ]	-	-	-	-	-	-	-	-	-	-	-	-
Oil Creek & Titusville Lines [OCTL]	-	-	-	-	-	-	-	-	-	-	-	-
Old Augusta RR Co. [OAR ]	-	-	-	-	-	-	-	-	-	-	-	-
Omaha, Lincoln & Beatrice Rwy Co. [OLB ]	1	-	-	1	-	-	-	-	-	-	-	-
OmniTrax Switching Services [OMTX]	1	-	1	-	-	-	-	-	-	1	-	1
Ontario Central RR Corp. [ONCT]	-	-	-	-	-	-	-	-	-	-	-	-
Ontario Midland RR Corp. [OMID]	-	-	-	-	-	-	-	-	-	-	-	-
Oregon Eastern RR [OERR]	-	-	-	-	-	-	-	-	-	-	-	-
Oregon Pacific RR Co. [OPR ]	-	-	-	-	-	-	-	-	-	-	-	-
Orlando & Mount Dora Rwy Co. [OMDX]	-	-	-	-	-	-	-	-	-	-	-	-
Otter Tail Valley RR Co., Inc. [OTVR]	2	1	-	1	-	-	1	1	-	-	-	-
Ouachita RR [OUCH]	-	-	-	-	-	-	-	-	-	-	-	-
Owego & Harford Rwy, Inc. [OHRY]	-	-	-	-	-	-	-	-	-	-	-	-

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Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Pacific & Arctic RR & Navigation Co. [PARN]	14	-	13	1	-	-	-	-	-	13	-	13
Pacific Harbor Line Inc. [PHL]	16	-	9	7	-	-	3	-	3	6	-	6
Pacific SW Rwy Museum [PSRM]	-	-	-	-	-	-	-	-	-	-	-	-
Paducah & Illinois RR Co. [PI]	1	-	-	1	-	-	-	-	-	-	-	-
Palouse River & Coulee City RR Inc. [PCC]	5	-	5	2	-	2	-	-	-	3	-	3
Panhandle Northern RR Co. [PNR]	2	-	1	1	-	-	1	-	1	-	-	-
Patapsco & Back Rivers RR Co. [PBR]	4	-	4	-	-	-	-	-	-	4	-	4
Pearl River Valley RR Co. [PRV]	-	-	-	-	-	-	-	-	-	-	-	-
Pecos Valley Southern Rwy Co. [PVS]	-	-	-	-	-	-	-	-	-	-	-	-
Pend Oreille Valley RR, Inc. [POVA]	9	-	8	1	-	-	-	-	-	8	-	8
Peninsula Term. Co. [PT]	-	-	-	-	-	-	-	-	-	-	-	-
Penn Eastern Rail Lines Inc. [PRL]	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania Southwestern RR, Inc. [PSWR]	1	-	1	-	-	-	-	-	-	1	-	1
Peoria, Peoria Heights & Western RR [PPHW]	-	-	-	-	-	-	-	-	-	-	-	-
Pickens Rwy Co. [PICK]	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Industrial Rwy Co. [PRY]	-	-	-	-	-	-	-	-	-	-	-	-
Pioneer Valley RR Co., Inc. [PVRR]	1	-	1	-	-	-	-	-	-	1	-	1
Pittsburgh & Conneaut Dock Co., The [PCDX]	-	-	-	-	-	-	-	-	-	-	-	-
Pittsburgh & Ohio Central RR Co., The [POHC]	1	-	-	-	-	-	1	-	-	-	-	-
Pittsburgh, Allegheny & McKees Rocks RR [PAM]	-	-	-	-	-	-	-	-	-	-	-	-
Plymouth & Lincoln [PLL]	-	-	-	-	-	-	-	-	-	-	-	-
Point Comfort & Northern Rwy Co. [PCN]	-	-	-	-	-	-	-	-	-	-	-	-
Port Bienville RR [PBVR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Catoosa Term. RR [POCA]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Los Angeles [PLAX]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Manatee [MAUP]	1	-	-	-	-	-	1	-	-	-	-	-
Port Of Palm Beach Term. [PPBD]	-	-	-	-	-	-	-	-	-	-	-	-
Port Of Tillamook Bay RR [POTB]	2	-	2	-	-	-	1	-	-	1	-	2
Port Term. RR Of South Carolina [PTR]	-	-	-	-	-	-	-	-	-	-	-	-
Port Utilities Commission Of Charleston, S.C. [PUC]	2	-	2	-	-	-	-	-	-	2	-	2
Portland & Western RR, Inc. [PNWR]	10	-	1	8	-	-	1	-	-	1	-	1
Portland Term. [PTO]	6	-	1	3	-	-	2	-	-	1	-	1
Potomac Eagle Scenic Rail Excursion [PEX]	-	-	-	-	-	-	-	-	-	-	-	-
Prescott & Northwestern RR Co. [PNW]	-	-	-	-	-	-	-	-	-	-	-	-
Progressive Rail Inc [PGR]	1	-	-	-	-	-	1	-	-	-	-	-
Providence & Worcester RR Co. [PW]	7	2	2	4	-	-	1	2	-	2	-	2
Puget Sound & Pacific RR Co. [PSAP]	4	-	1	2	-	-	1	-	-	1	-	1
Quincy RR Co. [QRR]	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Pennsylvania Lines, Inc. [RJCP]	-	-	-	-	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Central Kentucky Lines [RJCC]	2	-	2	-	-	-	1	-	1	1	-	1
R. J. Corman RR Corp./Bardstown Line [RJCR]	2	-	-	-	-	-	2	-	-	-	-	-
R. J. Corman, Western Ohio Line [RJCW]	1	-	-	1	-	-	-	-	-	-	-	-
RTD Denver Union Station [DUT]	-	-	-	-	-	-	-	-	-	-	-	-
Rail Serve [RASX]	1	-	-	1	-	-	-	-	-	-	-	-
Rail Tours, Inc. [RTI]	-	-	-	-	-	-	-	-	-	-	-	-
Railroad Switching Service Of Missouri, Inc. [RSM]	1	-	-	1	-	-	-	-	-	-	-	-
Railtown 1897 RR [RTRX]	-	-	-	-	-	-	-	-	-	-	-	-
Raritan Central Rwy LLC [RCRY]	1	-	1	-	-	-	-	-	-	1	-	1
Rarus Rwy Co. [RARW]	-	-	-	-	-	-	-	-	-	-	-	-

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	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Reading Blue Mountain & Northern RR Commision [RBM	16	-	10	6	-	-	-	-	-	10	-	10
Red River Valley & Western RR [RRVW]	8	-	5	1	-	-	2	-	-	5	-	5
Redmont Rwy Co. [RRC ]	-	-	-	-	-	-	-	-	-	-	-	-
Riceboro Southern Rwy LLC [RSOR]	-	-	-	-	-	-	-	-	-	-	-	-
Richmond Pacific RR Corp. [RPRC]	1	-	1	-	-	-	-	-	-	1	-	1
Rio Valley Switching Co. [RVSC]	8	-	2	2	-	-	4	-	-	2	-	2
River Port RR [RVPR]	1	-	1	-	-	-	-	-	-	1	-	1
Rochester Southern RR, Inc. [RSR ]	4	-	2	1	-	-	1	-	-	2	-	2
Rock & Rail Inc [RRRR]	-	-	-	-	-	-	-	-	-	-	-	-
Rockdale, Sandow & Southern RR Co. [RSS ]	-	-	-	-	-	-	-	-	-	-	-	-
SCTRR, LLC [SCTR]	4	-	3	-	-	-	1	-	-	3	-	3
SMS Rail Service, Inc. [SLRS]	-	-	-	-	-	-	-	-	-	-	-	-
Sabine River & Northern RR Co. [SRN ]	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]	7	2	3	2	-	-	1	1	-	4	1	3
San Francisco Belt RR [SFBR]	-	-	-	-	-	-	-	-	-	-	-	-
San Joaquin Valley RR Co. [SJVR]	11	-	5	5	-	-	2	-	1	4	-	4
San Luis & Rio Grande RR [SLRG]	2	-	2	1	-	2	1	-	-	-	-	-
San Luis Central RR Co. [SLC ]	-	-	-	-	-	-	-	-	-	-	-	-
San Manuel Arizona RR Co. [SMA ]	-	-	-	-	-	-	-	-	-	-	-	-
San Pedro & Southwestern RR Co. [SPSR]	-	-	-	-	-	-	-	-	-	-	-	-
Sand Springs Rwy Co. [SS ]	-	-	-	-	-	-	-	-	-	-	-	-
Sandersville RR Co. [SAN ]	5	-	5	-	-	-	-	-	-	5	-	5
Santa Cruz, Big Tree & Pacific RR [SCBG]	-	-	-	-	-	-	-	-	-	-	-	-
Santa Fe Southern Rwy, Inc. [SFS ]	1	-	1	-	-	-	1	-	1	-	-	-
Santa Maria Valley RR Co. [SMV ]	2	-	2	-	-	-	-	-	-	2	-	2
Saracuse Binghampton And New York RR [SBNX]	-	-	-	-	-	-	-	-	-	-	-	-
Savannah Port Term. RR, Inc. [SAPT]	6	-	2	-	-	-	4	-	-	2	-	2
Seminole Gulf RR [SGLR]	3	-	3	-	-	-	3	-	3	-	-	-
Semo Port RR, Inc. [SE ]	-	-	-	-	-	-	-	-	-	-	-	-
Sequatchie Valley RR [SQVR]	-	-	-	-	-	-	-	-	-	-	-	-
Shamokin Valley RR Co. [SVRR]	-	-	-	-	-	-	-	-	-	-	-	-
Shawnee Term. Rwy Co. [STR ]	-	-	-	-	-	-	-	-	-	-	-	-
Shelbyville Industrial RR [SVIZ]	-	-	-	-	-	-	-	-	-	-	-	-
Shenandoah Valley RR [SV ]	-	-	-	-	-	-	-	-	-	-	-	-
Sidney & Lowe RR Inc. [SLGG]	-	-	-	-	-	-	-	-	-	-	-	-
Sierra Northern Rwy [SERA]	5	-	3	1	-	-	1	-	-	3	-	3
Sisseton Milbank RR [SMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Ski Train RR [SKTX]	-	-	-	-	-	-	-	-	-	-	-	-
Snoqualmie Valley RR [SNVX]	1	-	1	-	-	-	-	-	-	1	-	1
Somerset RR Co. [SOM ]	-	-	-	-	-	-	-	-	-	-	-	-
Souder Commuter Rail [SCR ]	1	-	1	-	-	-	-	-	-	1	-	1
South Branch Valley RR [SBVR]	3	-	3	-	-	-	-	-	-	3	-	3
South Buffalo Rwy Co. [SB ]	4	-	2	2	-	-	-	-	-	2	-	2
South Carolina Central RR Co., Inc. [SCRF]	11	-	1	1	-	-	9	-	-	1	-	1
South Carolina RR Museum, The [SCMZ]	-	-	-	-	-	-	-	-	-	-	-	-

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Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
South Central Florida Express, Inc. [SCXF]	6	-	5	-	-	-	1	-	-	5	-	5
South Chicago & Indiana Harbor Rwy Co. [SCIH]	1	-	1	-	-	-	-	-	-	1	-	1
South Kansas & Oklahoma RR Co. [SKOL]	30	-	13	12	-	-	9	-	4	9	-	9
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]	6	-	5	3	-	2	2	-	2	1	-	1
Southern RR Co. Of New Jersey [SRNJ]	-	-	-	-	-	-	-	-	-	-	-	-
Southern Switching Co. [SSC ]	-	-	-	-	-	-	-	-	-	-	-	-
Southwest Pennsylvania RR Co. [SWP ]	5	-	1	2	-	-	2	-	-	1	-	1
Southwestern RR Co., Inc. [SW ]	-	-	-	-	-	-	-	-	-	-	-	-
St. Croix Valley RR Co. [SCXY]	1	1	-	-	-	-	-	-	-	1	1	-
St. Lawrence & Atlantic RR Co. [SLR ]	5	-	1	2	-	-	2	-	-	1	-	1
St. Louis, Iron Mountain, & Southern [SLOI]	-	-	-	-	-	-	-	-	-	-	-	-
St. Maries River RR Co. [STMA]	1	-	-	1	-	-	-	-	-	-	-	-
St. Marys RR Co. [SM ]	1	-	-	-	-	-	1	-	-	-	-	-
Steamtown National Historic Site [SNCX]	1	-	-	1	-	-	-	-	-	-	-	-
Steelton & Highspire RR [SH ]	1	-	1	-	-	-	-	-	-	1	-	1
Stillwater Central RR Co., Inc. [SLWC]	10	-	6	4	-	-	2	-	2	4	-	4
Stockton Term. & Eastern RR [STE ]	2	-	2	-	-	-	-	-	-	2	-	2
Stone Mountain Park [SMPX]	-	-	-	-	-	-	-	-	-	-	-	-
Stourbridge RR Co. [SBRR]	-	-	-	-	-	-	-	-	-	-	-	-
Strasburg RR Co. [SRC ]	8	-	8	-	-	-	-	-	-	8	-	8
Sumpter Valley RR [SUVX]	-	-	-	-	-	-	-	-	-	-	-	-
Sunflour RR, Inc. [SNR ]	-	-	-	-	-	-	-	-	-	-	-	-
Sweetwater Central RR [SWCX]	-	-	-	-	-	-	-	-	-	-	-	-
Tacoma Municipal Belt Line Rwy [TMBL]	6	-	3	2	-	-	1	-	-	3	-	3
Tacoma Rail Mountain Division [TRMW]	3	-	3	-	-	-	-	-	-	3	-	3
Talley Rand Term. RR [TTR ]	1	-	-	-	-	-	1	-	-	-	-	-
Tazewell & Peoria RR, Inc. [TZPR]	9	-	5	2	-	-	2	-	-	5	-	5
Tennessee Southern RR Co., Inc. [TSRR]	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee Valley RR [TVRM]	-	-	-	-	-	-	-	-	-	-	-	-
Tennken RR Co. Inc. [TKEN]	2	-	2	-	-	-	-	-	-	2	-	2
Terminal Rwy Alabama State Docks [TASD]	16	-	4	11	-	-	1	-	-	4	-	4
Texas & New Mexico RR Co. [TNMR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas & Northern Rwy Co. [TN ]	2	-	1	-	-	-	1	-	-	1	-	1
Texas & Oklahoma RR Co. [TXOR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas City Term. Rwy Co. [TCT ]	-	-	-	-	-	-	-	-	-	-	-	-
Texas Northwestern Rwy Co. [TXNW]	-	-	-	-	-	-	-	-	-	-	-	-
Texas Pacifico Transportation Limited [TXPF]	-	-	-	-	-	-	-	-	-	-	-	-
Texas Rock Crusher Rwy Co. [TXR ]	-	-	-	-	-	-	-	-	-	-	-	-
Texas South-Eastern RR Co. [TSE ]	-	-	-	-	-	-	-	-	-	-	-	-
Texas State RR [TSR ]	9	-	9	-	-	-	-	-	-	9	-	9
Texas, Gonzales & Northern Rwy Co. [TXGN]	-	-	-	-	-	-	-	-	-	-	-	-
The Youngstown Belt RR Co. [YB ]	-	-	-	-	-	-	-	-	-	-	-	-
Thermal Belt Rwy [TBRY]	1	-	1	-	-	-	-	-	-	1	-	1
Three Notch RR [TNHR]	-	-	-	-	-	-	-	-	-	-	-	-

*Highway-Rail counts are excluded from other categories*

**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Timberrock RR Co., Inc. [TIBR]	9	-	2	3	-	1	5	-	-	1	-	1
Tioga Central RR [TIOC]	-	-	-	-	-	-	-	-	-	-	-	-
Tishomingo RR Co., Inc. [TISH]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo Lake Erie & Western RR [TLEW]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo, Peoria & Western Rwy Corp. [TPW ]	1	-	1	-	-	-	-	-	-	1	-	1
Tomahawk Rwy, L.P. [TR ]	-	-	-	-	-	-	-	-	-	-	-	-
Toppenish Simcoe & Western [TSWR]	1	-	-	1	-	-	-	-	-	-	-	-
Towanda Monroeton Shippers Lifeline, Inc. [TMSS]	-	-	-	-	-	-	-	-	-	-	-	-
Transco Railcar Repair, Inc. [TRRJ]	-	-	-	-	-	-	-	-	-	-	-	-
Transkentucky Transportation RR, Inc. [TTIS]	1	-	2	1	-	2	-	-	-	-	-	-
Tri-City RR Co. [TCRY]	2	-	2	-	-	-	-	-	-	2	-	2
Tri-county Commuter Rail Authority [TCCX]	40	5	31	-	-	-	9	4	1	31	1	30
Trinity Industries, Inc./Trinity Rail Svcs [TIIX]	-	-	-	-	-	-	-	-	-	-	-	-
Trinity Rwy Express [TRES]	4	1	2	1	-	-	-	-	-	3	1	2
Trona Rwy Co. [TRC ]	4	-	3	1	-	-	-	-	-	3	-	3
Tulsa-Sapulpa Union Rwy Co. LLC [TSU ]	1	-	1	-	-	-	-	-	-	1	-	1
Turtle Creek Industrial RR, Inc. [TCKR]	-	-	-	-	-	-	-	-	-	-	-	-
Tuscola & Saginaw Bay RR Co., Inc. [TSBY]	17	1	3	2	-	-	12	1	-	3	-	3
Twin City & Western RR [TCWR]	6	-	4	-	-	-	2	-	-	4	-	4
U. S. Rail Corp. [USRV]	1	-	1	-	-	-	1	-	1	-	-	-
Union County Industrial RR Co. [UCIR]	1	-	-	1	-	-	-	-	-	-	-	-
Union Town Central RR [UTCV]	-	-	-	-	-	-	-	-	-	-	-	-
Upper Merion & Plymouth RR Co. [UMP ]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Central Rwy Co. [UCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Rwy Co. [UTAH]	3	-	2	-	-	-	3	-	2	-	-	-
Utah Transit Authority [UTAX]	1	1	-	-	-	-	-	-	-	1	1	-
V and S Rwy, Inc. [VSR ]	1	-	-	1	-	-	-	-	-	-	-	-
Valdosta Rwy, L.P. [VR ]	2	-	1	-	-	-	1	-	-	1	-	1
Valley RR Co. [VALE]	1	-	1	-	-	-	-	-	-	1	-	1
Vandalia RR Co. [VRRR]	-	-	-	-	-	-	-	-	-	-	-	-
Ventura County RR Co. [VCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Vermillion Valley RR Co., Inc. [VVRR]	-	-	-	-	-	-	-	-	-	-	-	-
Vermont Rwy, Inc. [VTR ]	15	-	12	1	-	-	2	-	-	12	-	12
Virginia & Truckee RR Co., Inc. [VTRR]	-	-	-	-	-	-	-	-	-	-	-	-
Virginia Rwy Express [VREX]	4	-	4	-	-	-	-	-	-	4	-	4
Virginia Southern RR [VSRR]	1	-	1	-	-	-	-	-	-	1	-	1
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]	1	-	1	-	-	-	-	-	-	1	-	1
Warren & Saline River RR Co. [WSR ]	-	-	-	-	-	-	-	-	-	-	-	-
Warren & Trumbull RR Co., The [WTRM]	-	-	-	-	-	-	-	-	-	-	-	-
Washington County RR Corp. [WACR]	2	-	1	-	-	-	2	-	1	-	-	-
Watco [WATX]	2	-	1	1	-	-	-	-	-	1	-	1
Wctu Rwy Co. [WCTR]	2	-	2	-	-	-	-	-	-	2	-	2
Wellsboro & Corning RR Co. [WCOR]	-	-	-	-	-	-	-	-	-	-	-	-
West Chester RR Co. [WCRL]	-	-	-	-	-	-	-	-	-	-	-	-

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**ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2004**

Railroads whose employees worked &lt; 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
West Isle Line Inc. [WFS ]	-	-	-	-	-	-	-	-	-	-	-	-
West Michigan RR Co. [WMI ]	1	-	1	-	-	-	-	-	-	1	-	1
West Tennessee RR Corp. [WTNN]	4	-	3	-	-	-	1	-	-	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	-	2	-	-	-	1	-	1	1	-	1
Western RR Co. [WRRRC]	1	-	1	-	-	-	-	-	-	1	-	1
Western Rail Switching, Inc. [WRS ]	-	-	-	-	-	-	-	-	-	-	-	-
Western Rwy Museum [WRM ]	-	-	-	-	-	-	-	-	-	-	-	-
Weyerhaeuser Woods RRs [WCTX]	3	-	1	2	-	-	-	-	-	1	-	1
Whitewater Valley RR [WVRR]	1	-	1	-	-	-	-	-	-	1	-	1
Wichita Term. Association [WTA ]	2	-	1	1	-	-	-	-	-	1	-	1
Wichita, Tillman & Jackson Rwy Co., Inc. [WTJR]	1	-	-	1	-	-	-	-	-	-	-	-
Wilkes-Barre Connecting RR Co. [WBC ]	-	-	-	-	-	-	-	-	-	-	-	-
Willamette & Pacific RR, Inc. [WPRR]	16	-	5	8	-	-	3	-	-	5	-	5
Willamette Valley Rwy Co. [WVR ]	1	-	1	-	-	-	-	-	-	1	-	1
Wilmington & Western RR Co. [WWRC]	-	-	-	-	-	-	-	-	-	-	-	-
Wilmington Term. RR Inc. [WTRY]	-	-	-	-	-	-	-	-	-	-	-	-
Winamac Southern Rwy Co. [WSRY]	-	-	-	-	-	-	-	-	-	-	-	-
Winchester & Western RR Co. [WW ]	5	-	4	-	-	-	1	-	-	4	-	4
Winston-Salem Southbound Rwy [WSS ]	3	-	1	-	-	-	2	-	-	1	-	1
Wiregrass Central RR Co. [WGCR]	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming & Colorado RR [WYCO]	-	-	-	-	-	-	-	-	-	-	-	-
Yadkin Valley RR Co. [YVRR]	4	-	1	3	-	-	-	-	-	1	-	1
Yolo Shortline RR Co. [YSLR]	-	-	-	-	-	-	-	-	-	-	-	-
York Rwy Co. [YRC ]	5	-	1	2	-	-	2	-	-	1	-	1
Youngstown & Austintown RR [YARR]	-	-	-	-	-	-	-	-	-	-	-	-
Yreka Western RR Co. [YW ]	1	-	1	-	-	-	-	-	-	1	-	1

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