

Railroad Safety Statistics 2008 Annual Report



U.S. Department of Transportation
Federal Railroad Administration

always expect a train

FOREWORD

The Federal Railroad Administration (FRA) has established an ultimate goal of “zero tolerance” for rail-related accidents, injuries, and fatalities. In pursuit of that goal, significant progress has been made, particularly over the past 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 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 2008* is intended as a resource for 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 2008. 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 5 years after the end of the calendar year. Counts of accidents/incidents are not expected to change much after the publication of the annual report. 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 April 8, 2010, and represent data received through December 2008.

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.

The completeness and accuracy of the information presented in this bulletin is primarily dependent upon the data collection and reporting processes of the Nation’s railroads. 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 inquiries when information is incomplete or inconsistent.

Railroads are required by law to submit accident/incident reports within 30 days after the month to which they pertain. They are also required to update their report if the original information is incomplete or inaccurate.

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 the editing and presentation of the accident/incident data reported, errors do occasionally occur.

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

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This report and additional information about FRA's various programs are available on our Web site at www.fra.dot.gov.

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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 recordkeeping 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 FRA regulations at Title 49 Code of Federal Regulations Part 225 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. This is the term used to describe the entire list of reportable events. These include (1) collisions, derailments, and other events involving the operation of on-track equipment and causing reportable damage above an established threshold; (2) impacts between railroad on-track equipment and highway users at crossings; and (3) 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:

1. 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 F6180.54, Rail Equipment Accident/Incident Report. (The threshold for 2008 was \$8,500.)
2. 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 F6180.57, Highway-Rail Grade Crossing Accident/Incident Report.
3. 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 F6180.55a, 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 grade crossing incident resulting in reportable injuries. An accident of this type would require the completion of both Form FRA F6180.57 and a Form FRA F6180.55a. Form FRA F6180.54 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 F6180.55a, 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 F6180.54. The user of this bulletin can exclude these, if desired, since these numbers 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, and 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 1995. Following this are overall totals for the 5-year period beginning with 2003, 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 Railroad counts.

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OVERVIEW OF ACCIDENT/INCIDENTS AND RATES

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

Category	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
---GRAND TOTAL---												
Accidents/incidents	16,698	16,501	16,776	16,919	16,086	14,403	14,370	14,522	14,304	13,785	13,876	12,681
Rate 1/	24.68	24.16	23.55	23.41	22.61	19.77	19.33	18.86	18.13	17.03	17.58	16.48
Deaths	1,063	1,008	932	937	971	951	865	891	884	903	849	802
Nonfatal conditions	11,767	11,459	11,700	11,643	10,985	11,103	9,264	9,194	9,548	8,784	9,615	8,815
--TRAIN ACCIDENTS---												
Rate 2/	3.54	3.77	3.89	4.13	4.25	3.76	4.06	4.40	4.14	3.70	3.40	3.19
Total number	2,397	2,575	2,768	2,983	3,023	2,738	3,019	3,385	3,266	2,994	2,687	2,454
Deaths	17	4	9	10	6	15	4	13	33	6	9	27
Injuries	183	129	130	275	310	1,884	232	346	787	220	307	334
Collisions	202	168	205	238	220	192	198	237	274	202	211	188
Derailments	1,741	1,757	1,961	2,112	2,234	1,989	2,133	2,435	2,304	2,193	1,929	1,772
On main line	867	934	858	976	1,025	886	976	1,033	1,022	980	855	765
On yard track	1,223	1,306	1,531	1,619	1,569	1,478	1,676	1,928	1,815	1,579	1,395	1,365
Yard track rate 3/	14.41	15.60	17.51	18.21	18.30	18.25	20.53	22.97	20.60	17.73	13.41	13.38
Other track rate 4/	1.98	2.12	1.98	2.15	2.32	1.95	2.03	2.12	2.07	1.96	1.89	1.63
Track caused	879	900	995	1,035	1,121	941	974	1,055	1,082	1,072	931	853
Track caused rate	1.30	1.32	1.40	1.43	1.58	1.29	1.31	1.37	1.37	1.32	1.18	1.11
Human factor caused	855	971	1,031	1,147	1,035	1,050	1,230	1,353	1,270	1,067	1,045	895
Equipment caused	271	307	321	372	427	367	361	429	369	351	324	318
Signal caused	39	38	49	70	42	50	58	70	63	50	49	51
Equip Dmg (millions \$)	152.092	162.561	164.654	169.172	200.752	173.982	198.698	225.462	225.994	213.319	217.213	201.502
Track Dmg (millions \$)	58.637	71.337	80.435	94.040	113.713	92.550	99.569	100.482	113.815	109.156	97.539	96.708
Hazmat												
Consists releasing	31	42	41	35	32	31	30	31	39	30	46	22
Cars releasing	38	66	75	75	57	56	41	49	52	71	76	38
People evacuated	8,812	2,058	996	5,258	52,620	5,438	2,260	5,938	7,636	3,682	11,698	4,374
---HIGHWAY-RAIL----												
Rate 5/	5.71	5.14	4.90	4.84	4.55	4.22	4.00	4.01	3.88	3.63	3.51	3.13
Incidents	3,865	3,508	3,489	3,502	3,237	3,077	2,977	3,085	3,064	2,941	2,772	2,407
Deaths	461	431	402	425	421	357	334	371	359	369	337	289
Injuries	1,540	1,303	1,396	1,219	1,157	999	1,035	1,094	1,050	1,069	1,054	952
---OTHER INCIDENTS---												
Incidents 6/	10,436	10,418	10,519	10,434	9,826	8,588	8,374	8,052	7,974	7,850	8,417	7,820
Deaths	585	573	521	502	544	579	527	507	492	528	503	486
Injuries	10,044	10,027	10,174	10,149	9,518	8,220	7,997	7,754	7,711	7,495	8,254	7,529

1. Total accident/incident rate of all reported events * 1,000,000 / (train miles)
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	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
...EMPLOYEE COUNTS.....												
All accidents/incidents												
Rate 1/	3.31	3.27	3.39	3.44	3.30	2.94	2.78	2.64	2.44	2.18	2.26	2.08
Deaths	37	27	31	24	22	20	19	25	25	16	17	25
Nonfatal conditions	8,295	8,398	8,622	8,423	7,815	6,644	6,258	6,022	5,822	5,268	5,440	4,938
Cases with days absent	5,371	5,359	5,779	5,788	5,409	4,642	4,401	4,071	3,968	3,491	3,711	3,303
Percent of total	64.46	63.61	66.79	68.52	69.02	69.66	70.11	67.32	67.86	66.07	68.00	66.55
Sprains/strains	3,960	3,945	4,280	4,357	4,025	3,353	3,030	2,848	2,611	2,424	2,550	2,240
Occupational illnesses	128	171	141	129	167	120	182	253	287	275	229	266
..PASSENGERS ON TRAINS												
Rate 2/	4.29	3.69	3.33	4.10	4.78	5.83	4.69	4.59	6.18	5.78	8.78	7.08
Deaths	6	4	14	4	3	7	3	3	16	2	5	24
Injuries	601	535	481	658	746	877	727	703	959	935	1,505	1,262
In Train Accs/Highway-Rail												
Deaths	1	2	11	0	1	7	1	1	12	0	0	24
Rate	0.01	0.01	0.07	0.00	0.01	0.05	0.01	0.01	0.08	0.00	0.00	0.13
Injuries	94	30	54	95	149	304	152	117	336	157	252	325
...TRESPASSER COUNTS...												
Rate 3/	1.55	1.54	1.30	1.21	1.29	1.28	1.21	1.14	1.11	1.22	1.11	1.15
Deaths	533	536	479	463	511	540	498	472	458	511	470	457
Injuries	516	513	445	414	404	395	398	406	420	480	408	429
---OPERATIONS(millions)												
Total train miles 4/	676.716	682.895	712.453	722.877	711.550	728.674	743.331	770.152	789.033	809.217	789.157	769.608
Yard switching miles 5/	84.874	83.692	87.459	88.919	85.747	81.002	81.630	83.935	88.094	89.045	104.032	101.985
Employee hours 6/	503.918	514.870	509.997	490.926	475.120	454.102	451.148	458.399	478.471	485.784	483.428	478.029
Passengers carried 7/	408.619	439.958	464.885	501.750	517.249	503.930	494.264	513.293	523.434	549.343	581.360	600.317

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

TABLE 1-3 SUMMARY BY TYPE INCIDENT AND TYPE PERSON

Train Accidents Excluding Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities					Nonfatal Conditions				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
A - Worker on duty(rr empl)	7	7	-	6	2	158	125	103	91	91
B - Employee not on duty	-	-	-	-	-	5	9	-	-	-
C - Passenger on train	1	12	-	-	24	89	303	62	181	238
D - Nontrespasser	-	1	-	1	-	-	1	2	2	1
E - Trespasser	1	4	4	2	1	-	1	4	3	1
F - Worker on duty(contractor)	1	-	2	-	-	7	5	4	1	-
G - Contractor(other)	-	-	-	-	-	1	-	-	3	2
J - Nontrespasser, off rr prop	3	9	-	-	-	86	343	45	26	1
--Total...	13	33	6	9	27	346	787	220	307	334

Highway-Rail Crossing (HRC) Incidents

Type Person	Fatalities					Nonfatal Conditions				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
A - Worker on duty(rr empl)	2	2	4	1	3	116	111	96	104	73
B - Employee not on duty	-	-	-	-	-	4	3	2	1	3
C - Passenger on train	-	-	-	-	-	28	33	95	71	87
D - Nontrespasser	222	226	233	180	146	673	633	635	561	511
E - Trespasser	145	130	130	156	140	251	264	225	279	263
F - Worker on duty(contractor)	-	-	-	-	-	-	-	-	5	-
G - Contractor(other)	-	-	-	-	-	1	2	-	25	3
J - Nontrespasser, off rr prop	2	1	2	-	-	21	4	16	8	12
--Total...	371	359	369	337	289	1,094	1,050	1,069	1,054	952

Other Incidents, Excluding HRC

Type Person	Fatalities					Nonfatal Conditions				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
A - Worker on duty(rr empl)	16	16	12	10	20	5,748	5,586	5,069	5,245	4,774
B - Employee not on duty	-	-	-	-	-	191	160	167	177	162
C - Passenger on train	2	4	2	5	-	586	623	778	1,253	937
D - Nontrespasser	14	12	2	12	5	452	481	572	741	782
E - Trespasser	471	454	507	468	456	406	419	476	405	428
F - Worker on duty(contractor)	1	2	2	-	3	152	175	195	202	199
G - Contractor(other)	2	3	3	5	2	199	233	209	209	232
H - Worker on duty(volunteer)	-	-	-	-	-	3	1	3	6	4
I - Volunteer(other)	-	-	-	-	-	2	-	4	2	3
J - Nontrespasser, off rr prop	1	1	-	3	-	15	33	22	14	8
--Total...	507	492	528	503	486	7,754	7,711	7,495	8,254	7,529

GRAND TOTAL

Type Person	Fatalities					Nonfatal Conditions				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
A - Worker on duty(rr empl)	25	25	16	17	25	6,022	5,822	5,268	5,440	4,938
B - Employee not on duty	-	-	-	-	-	200	172	169	178	165
C - Passenger on train	3	16	2	5	24	703	959	935	1,505	1,262
D - Nontrespasser	236	239	235	193	151	1,125	1,115	1,209	1,304	1,294
E - Trespasser	617	588	641	626	597	657	684	705	687	692
F - Worker on duty(contractor)	2	2	4	-	3	159	180	199	208	199
G - Contractor(other)	2	3	3	5	2	201	235	209	237	237
H - Worker on duty(volunteer)	-	-	-	-	-	3	1	3	6	4
I - Volunteer(other)	-	-	-	-	-	2	-	4	2	3
J - Nontrespasser, off rr prop	6	11	2	3	-	122	380	83	48	21
--Total...	891	884	903	849	802	9,194	9,548	8,784	9,615	8,815

TABLE 1-4 TOTAL CASUALTIES BY RAILROAD

Railroads	Fatalities					Nonfatal				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
Alton & Southern	-	-	1	-	-	7	11	7	4	7
Alaska RR Corp.	-	1	-	-	1	28	29	23	31	73
Amtrak	128	122	118	129	119	1,375	1,245	1,324	1,584	1,491
Burlington Northern Santa Fe	140	151	144	123	104	1,122	1,287	1,162	1,241	1,191
Belt Rwy Of Chicago	-	-	-	-	-	16	11	15	12	10
Canadian National	16	24	27	20	32	340	294	258	292	244
Canadian Pacific	5	14	6	14	6	199	156	135	182	142
Conrail Shared Assets	1	1	1	-	-	35	28	36	40	37
CSX Transportation	139	115	136	128	117	997	786	724	621	616
Florida East Coast	17	26	18	20	12	32	21	19	36	16
Guilford Rail System	1	2	2	1	-	10	15	12	25	11
Other Railroads	26	35	32	34	39	820	862	865	814	782
Indiana Harbor Belt	-	1	1	1	-	29	17	18	13	17
Kansas City Southern	25	13	13	17	12	182	141	118	120	87
Long Island Rail Road	4	9	3	9	8	334	312	372	533	522
MD Assn. of Rail Comm	2	1	2	1	1	8	8	8	19	25
Mass Bay Transit Auth.	4	5	9	12	9	90	94	137	81	261
Montreal, Maine & Atlantic	-	-	1	-	-	12	12	11	14	12
Metro North Commuter	4	3	2	9	2	380	294	262	255	190
Montana Rail Link	-	3	-	-	1	49	39	48	35	33
Northern IN Comm Trans	-	-	-	4	-	31	17	20	18	13
Northeast IL Reg Comm	13	16	8	15	19	264	440	276	318	254
New Jersey Transit Rail	17	9	10	14	15	191	201	219	172	168
Norfolk Southern Corp.	128	139	118	111	129	617	980	621	650	578
Paducah & Louisville	1	1	3	-	3	10	4	17	7	11
Port Auth Trans Hudson	-	-	-	-	-	171	158	146	206	145
Peninsula Comm San Mateo Cnty	5	4	9	3	4	39	26	26	33	39
Port Terminal RR Assn	-	-	-	-	-	14	28	10	47	23
Southern CA Reg Rail Auth.	5	17	9	9	30	24	103	21	25	78
Southeastern PA Trans.	7	5	2	2	4	246	343	351	576	366
Term RR Assn Of St. Louis	-	-	-	-	-	5	2	3	2	3
Union Pacific	203	167	226	172	133	1,466	1,525	1,475	1,564	1,335
Union RR (Pittsburgh)	-	-	-	-	-	18	17	9	5	7
Wheeling & Lake Erie	-	-	1	1	1	12	20	11	21	4
Wisconsin & Southern RR	-	-	1	-	1	21	22	25	19	24
Total	891	884	903	849	802	9,194	9,548	8,784	9,615	8,815

TABLE 1-5 TOTAL CASUALTIES BY STATE

States	Fatalities					Nonfatal					5 year Total	
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008	Kld	Nonf
Alabama	20	25	21	20	17	127	152	157	143	130	103	709
Alaska	-	1	-	-	1	43	56	40	51	89	2	279
Arizona	18	23	27	12	14	144	116	119	113	114	94	606
Arkansas	11	15	15	18	10	136	214	149	167	137	69	803
California	117	120	122	124	111	516	701	574	645	687	594	3,123
Colorado	4	9	17	5	13	142	167	157	133	122	48	721
Connecticut	7	6	2	8	6	114	105	114	115	74	29	522
Delaware	1	2	2	2	1	63	61	62	55	55	8	296
Dist Of Columbia	3	2	-	-	1	203	107	153	108	99	6	670
Florida	40	51	38	54	51	244	227	198	244	163	234	1,076
Georgia	35	27	16	33	23	184	166	177	176	147	134	850
Idaho	5	2	5	3	3	53	54	54	58	53	18	272
Illinois	59	54	53	64	71	849	988	833	1,069	858	301	4,597
Indiana	39	36	23	34	27	211	194	207	200	189	159	1,001
Iowa	8	10	8	12	7	151	166	123	151	156	45	747
Kansas	13	10	24	14	14	139	170	150	186	152	75	797
Kentucky	15	14	20	16	12	154	120	127	107	108	77	616
Louisiana	34	30	23	22	22	226	178	210	180	151	131	945
Maine	1	-	5	1	-	23	20	22	31	16	7	112
Maryland	10	12	11	10	8	81	71	74	104	101	51	431
Massachusetts	13	7	16	15	16	159	168	186	139	341	67	993
Michigan	17	11	23	11	11	185	122	142	129	136	73	714
Minnesota	19	11	20	12	11	172	152	140	176	173	73	813
Mississippi	19	22	17	9	18	152	106	86	83	112	85	539
Missouri	17	21	20	12	20	190	224	163	196	173	90	946
Montana	5	9	5	3	5	137	88	103	120	129	27	577
Nebraska	11	17	8	8	3	163	191	200	198	196	47	948
Nevada	3	5	6	4	4	24	30	44	30	33	22	161
New Hampshire	-	-	-	-	1	6	4	6	4	4	1	24
New Jersey	24	17	20	16	23	373	393	389	402	368	100	1,925
New Mexico	18	12	9	16	12	63	73	61	63	60	67	320
New York	24	27	16	24	24	945	771	847	991	932	115	4,486
North Carolina	32	24	29	26	27	113	105	113	98	120	138	549
North Dakota	2	8	2	4	3	71	55	51	56	72	19	305
Ohio	34	23	41	31	26	282	258	215	237	170	155	1,162
Oklahoma	21	11	21	13	12	103	102	100	114	86	78	505
Oregon	11	4	8	7	8	113	106	109	117	94	38	539
Pennsylvania	18	27	21	28	31	519	604	593	834	618	125	3,168
Rhode Island	1	-	2	2	1	22	13	18	12	16	6	81
South Carolina	18	29	21	17	14	84	370	80	77	52	99	663
South Dakota	1	3	2	1	1	42	31	34	24	31	8	162
Tennessee	17	18	22	13	25	146	139	118	108	117	95	628
Texas	75	72	93	83	53	668	683	668	690	550	376	3,259
Utah	9	3	2	-	2	59	54	42	57	41	16	253
Vermont	-	-	-	-	-	19	21	14	23	30	-	107
Virginia	4	5	7	5	9	132	154	132	132	132	30	682
Washington	23	20	21	16	14	161	214	169	196	170	94	910
West Virginia	9	6	9	7	6	75	71	60	62	64	37	332
Wisconsin	6	19	10	8	9	139	138	114	120	100	52	611
Wyoming	-	4	-	6	1	74	74	85	91	94	11	418
Total	891	884	903	849	802	9,194	9,547	8,782	9,615	8,815	4,329	45,953

TABLE 1-6 TOTAL EMPLOYEE ON DUTY CASES BY RAILROAD

Railroads	2004		2005		2006		2007		2008	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	7	2.01	10	2.91	8	2.31	4	1.23	7	2.19
Alaska RR Corp.	28	3.77	29	3.65	22	2.70	30	3.74	73	9.15
Amtrak	825	4.34	651	3.54	594	3.29	486	2.68	523	2.84
Burlington Northern Santa Fe	670	1.72	773	1.89	656	1.52	851	2.02	832	2.02
Belt Rwy Of Chicago	16	3.12	8	1.57	14	2.92	12	2.61	9	1.95
Canadian National	276	3.08	240	2.81	195	2.35	218	2.72	176	2.18
Canadian Pacific	160	3.39	124	2.57	107	2.30	146	3.14	123	2.65
Conrail Shared Assets	20	1.62	11	0.94	13	1.16	19	1.74	17	1.51
CSX Transportation	703	2.33	602	1.79	498	1.47	408	1.24	384	1.22
Florida East Coast	13	1.68	10	1.23	5	0.61	14	1.78	2	0.30
Guilford Rail System	9	1.06	12	1.33	12	1.39	23	2.61	10	1.15
Other Railroads	652	8.35	669	11.47	668	11.56	616	6.03	594	14.45
Indiana Harbor Belt	26	3.27	15	1.83	14	1.77	11	1.36	15	1.63
Kansas City Southern	111	3.42	80	2.23	53	1.56	57	1.64	35	0.98
Long Island Rail Road	187	2.80	219	3.48	181	2.81	170	2.52	159	2.22
MD Assn. of Rail Comm	2	0.78	6	2.37	2	0.75	1	0.37	1	0.37
Mass Bay Transit Auth.	78	4.28	75	3.84	74	4.25	59	3.02	73	3.61
Montreal, Maine & Atlantic	12	5.37	12	4.83	10	3.78	13	5.21	12	5.31
Metro North Commuter	267	4.61	202	3.38	187	3.06	179	2.96	122	1.94
Montana Rail Link	41	4.22	33	3.28	45	4.34	31	3.00	32	2.96
Northern IN Comm Trans	27	8.43	15	4.82	3	0.97	5	1.60	7	2.17
Northeast IL Reg Comm	76	1.78	78	1.84	91	2.26	101	2.45	85	2.04
New Jersey Transit Rail	128	2.83	147	3.22	154	3.30	117	2.44	120	2.40
Norfolk Southern Corp.	353	1.19	397	1.23	338	1.06	377	1.18	299	0.94
Paducah & Louisville	7	2.55	4	1.55	12	4.67	5	1.80	7	2.35
Port Auth Trans Hudson	106	10.45	86	8.55	89	8.74	115	11.12	99	9.11
Peninsula Comm San Mateo Cnty	22	5.50	9	2.36	8	2.09	12	3.00	16	3.74
Port Terminal RR Assn	14	4.37	28	8.13	9	2.80	22	6.23	22	6.59
Southern CA Reg Rail Auth.	7	2.10	18	5.32	7	2.11	4	1.22	4	1.16
Southeastern PA Trans.	168	9.83	185	11.40	195	11.43	271	15.82	192	11.00
Term RR Assn Of St. Louis	4	1.38	2	0.68	3	1.01	2	0.74	1	0.39
Union Pacific	991	2.10	1,048	2.15	978	1.94	1,050	2.08	881	1.81
Union RR (Pittsburgh)	17	3.97	17	4.32	9	2.27	5	1.17	7	1.74
Wheeling & Lake Erie	5	1.20	10	2.23	8	1.79	7	1.68	2	0.49
Wisconsin & Southern RR	19	9.41	22	10.80	22	9.42	16	6.18	22	8.21

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

TABLE 1-7 TRAIN ACCIDENTS BY RAILROAD, EXCLUDING HRC

Railroads	2004		2005		2006		2007		2008	
	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate
Alton & Southern	16	15.78	18	17.15	11	10.71	13	13.42	10	10.22
Alaska RR Corp.	1	0.61	2	1.15	1	0.65	1	0.66	2	1.39
Amtrak	111	2.83	112	2.96	103	2.70	84	2.12	94	2.36
Burlington Northern Santa Fe	672	3.60	676	3.49	657	3.28	626	3.30	591	3.18
Belt Rwy Of Chicago	27	49.49	23	44.39	20	39.95	14	28.91	13	27.44
Canadian National	111	4.74	83	3.63	108	4.85	110	5.20	93	4.51
Canadian Pacific	124	8.17	94	6.28	56	3.68	61	4.12	59	4.11
Conrail Shared Assets	35	11.15	42	13.62	29	9.76	40	13.29	25	8.32
CSX Transportation	536	4.86	491	4.53	397	3.66	333	3.05	308	2.91
Florida East Coast	11	4.63	15	5.81	12	4.52	11	4.65	2	0.88
Guilford Rail System	5	3.41	6	4.22	10	6.87	3	1.88	4	2.73
Other Railroads	358	47.20	362	34.06	391	38.95	368	20.25	311	35.87
Indiana Harbor Belt	30	20.44	19	12.69	14	9.69	12	8.07	15	10.24
Kansas City Southern	134	15.45	124	14.18	86	7.40	90	7.90	68	5.99
Long Island Rail Road	13	1.60	12	1.46	9	1.07	5	0.59	13	1.51
MD Assn. of Rail Comm	4	3.27	2	1.66	3	2.51	-	-	3	2.50
Mass Bay Transit Auth.	1	0.26	-	-	1	0.25	4	0.99	3	0.71
Montreal, Maine & Atlantic	7	14.69	3	6.09	6	13.95	7	16.32	5	12.99
Metro North Commuter	56	6.31	40	4.46	52	5.60	39	4.09	23	2.36
Montana Rail Link	14	3.72	15	3.90	22	5.37	11	2.77	27	6.72
Northern IN Comm Trans	1	1.31	-	-	2	2.65	3	3.92	2	2.61
Northeast IL Reg Comm	6	0.65	6	0.65	4	0.42	10	1.04	6	0.63
New Jersey Transit Rail	48	5.44	30	3.17	34	3.57	38	3.80	29	2.71
Norfolk Southern Corp.	325	3.35	333	3.27	258	2.45	249	2.43	253	2.50
Paducah & Louisville	5	8.86	2	3.47	5	8.52	5	8.21	7	11.22
Port Auth Trans Hudson	2	0.95	3	1.38	1	0.47	7	3.45	2	0.99
Peninsula Comm San Mateo Cnty	2	1.62	3	2.17	3	2.11	2	1.40	1	0.69
Port Terminal RR Assn	14	11.32	5	3.91	7	5.47	8	6.25	3	2.34
Southern CA Reg Rail Auth.	2	0.94	8	3.72	2	0.87	-	-	5	2.04
Southeastern PA Trans.	10	1.98	9	1.76	9	1.72	17	3.28	7	1.34
Term RR Assn Of St. Louis	9	14.30	17	23.94	14	20.37	8	12.23	6	9.75
Union Pacific	962	4.98	954	4.79	891	4.38	723	3.72	637	3.50
Union RR (Pittsburgh)	6	48.04	3	24.46	5	39.31	2	14.73	-	-
Wheeling & Lake Erie	3	3.03	14	11.95	16	12.19	12	9.39	15	14.31
Wisconsin & Southern RR	2	6.64	4	13.37	5	15.28	10	27.45	5	12.94

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

TABLE 1-8 TRAIN ACCIDENTS BY STATE, EXCLUDING HRC

States	2004		2005		2006		2007		2008		5 year Total	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	78	2.3	72	2.2	82	2.7	70	2.6	63	2.6	365	2.5
Alaska	2	0.1	2	0.1	1	0.0	1	0.0	2	0.1	8	0.1
Arizona	38	1.1	35	1.1	36	1.2	23	0.9	30	1.2	162	1.1
Arkansas	110	3.2	86	2.6	78	2.6	58	2.2	65	2.6	397	2.7
California	185	5.5	199	6.1	191	6.4	155	5.8	118	4.8	848	5.7
Colorado	61	1.8	65	2.0	64	2.1	74	2.8	45	1.8	309	2.1
Connecticut	34	1.0	38	1.2	34	1.1	21	0.8	15	0.6	142	1.0
Delaware	9	0.3	6	0.2	7	0.2	7	0.3	4	0.2	33	0.2
Dist Of Columbia	8	0.2	13	0.4	13	0.4	8	0.3	20	0.8	62	0.4
Florida	56	1.7	62	1.9	46	1.5	46	1.7	22	0.9	232	1.6
Georgia	86	2.5	97	3.0	91	3.0	63	2.3	55	2.2	392	2.7
Idaho	24	0.7	29	0.9	31	1.0	18	0.7	25	1.0	127	0.9
Illinois	273	8.1	248	7.6	236	7.9	218	8.1	186	7.6	1,161	7.9
Indiana	81	2.4	95	2.9	65	2.2	78	2.9	63	2.6	382	2.6
Iowa	105	3.1	76	2.3	81	2.7	73	2.7	68	2.8	403	2.7
Kansas	104	3.1	108	3.3	99	3.3	87	3.2	88	3.6	486	3.3
Kentucky	71	2.1	49	1.5	48	1.6	43	1.6	40	1.6	251	1.7
Louisiana	103	3.0	86	2.6	92	3.1	92	3.4	73	3.0	446	3.0
Maine	9	0.3	5	0.2	13	0.4	9	0.3	6	0.2	42	0.3
Maryland	42	1.2	41	1.3	32	1.1	17	0.6	26	1.1	158	1.1
Massachusetts	28	0.8	22	0.7	19	0.6	16	0.6	18	0.7	103	0.7
Michigan	32	0.9	36	1.1	41	1.4	37	1.4	34	1.4	180	1.2
Minnesota	72	2.1	67	2.1	57	1.9	62	2.3	65	2.6	323	2.2
Mississippi	57	1.7	50	1.5	36	1.2	37	1.4	34	1.4	214	1.4
Missouri	85	2.5	73	2.2	63	2.1	63	2.3	81	3.3	365	2.5
Montana	35	1.0	36	1.1	42	1.4	24	0.9	50	2.0	187	1.3
Nebraska	124	3.7	122	3.7	92	3.1	101	3.8	92	3.7	531	3.6
Nevada	17	0.5	14	0.4	19	0.6	7	0.3	13	0.5	70	0.5
New Hampshire	1	0.0	2	0.1	-	-	1	0.0	-	-	4	0.0
New Jersey	89	2.6	77	2.4	53	1.8	76	2.8	48	2.0	343	2.3
New Mexico	33	1.0	42	1.3	30	1.0	21	0.8	22	0.9	148	1.0
New York	105	3.1	106	3.2	100	3.3	80	3.0	78	3.2	469	3.2
North Carolina	38	1.1	29	0.9	31	1.0	26	1.0	27	1.1	151	1.0
North Dakota	17	0.5	25	0.8	21	0.7	28	1.0	25	1.0	116	0.8
Ohio	116	3.4	119	3.6	91	3.0	99	3.7	96	3.9	521	3.5
Oklahoma	66	1.9	69	2.1	63	2.1	70	2.6	63	2.6	331	2.2
Oregon	94	2.8	69	2.1	64	2.1	39	1.5	31	1.3	297	2.0
Pennsylvania	144	4.3	108	3.3	102	3.4	83	3.1	74	3.0	511	3.5
Rhode Island	8	0.2	1	0.0	3	0.1	1	0.0	5	0.2	18	0.1
South Carolina	39	1.2	26	0.8	17	0.6	21	0.8	21	0.9	124	0.8
South Dakota	33	1.0	25	0.8	10	0.3	15	0.6	14	0.6	97	0.7
Tennessee	71	2.1	69	2.1	70	2.3	61	2.3	69	2.8	340	2.3
Texas	356	10.5	395	12.1	357	11.9	326	12.1	265	10.8	1,699	11.5
Utah	29	0.9	31	0.9	37	1.2	37	1.4	20	0.8	154	1.0
Vermont	5	0.1	7	0.2	3	0.1	2	0.1	3	0.1	20	0.1
Virginia	39	1.2	55	1.7	53	1.8	41	1.5	41	1.7	229	1.5
Washington	68	2.0	67	2.1	59	2.0	55	2.0	50	2.0	299	2.0
West Virginia	27	0.8	42	1.3	30	1.0	24	0.9	24	1.0	147	1.0
Wisconsin	30	0.9	31	0.9	30	1.0	26	1.0	35	1.4	152	1.0
Wyoming	48	1.4	39	1.2	61	2.0	47	1.7	42	1.7	237	1.6
Total	3,385	100.0	3,266	100.0	2,994	100.0	2,687	100.0	2,454	100.0	14,786	100.0

TABLE 1-9 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD

Railroads	2004			2005			2006			2007			2008		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alton & Southern	7	4	1	2	1	-	1	-	-	2	-	-	3	1	-
Alaska RR Corp.	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-
Amtrak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Burlington Northern Santa Fe	314	137	10	318	133	10	312	141	7	270	108	10	312	118	6
Belt Rwy Of Chicago	3	2	-	1	-	-	7	4	1	2	2	-	4	4	-
Canadian National	41	21	1	21	15	2	43	30	1	47	25	3	49	22	-
Canadian Pacific	26	6	1	21	6	-	20	6	1	11	7	-	14	4	1
Conrail Shared Assets	8	5	-	4	2	-	3	-	-	8	6	-	6	4	-
CSX Transportation	160	66	4	157	54	5	139	58	6	121	53	11	124	41	2
Florida East Coast	3	1	-	3	-	-	6	1	-	3	-	-	1	-	-
Guilford Rail System	3	-	-	5	5	-	6	1	-	1	1	-	2	1	1
Other Railroads	33	21	2	55	30	3	64	41	2	61	36	6	34	23	-
Indiana Harbor Belt	5	1	-	4	1	-	4	1	-	2	1	-	6	1	-
Kansas City Southern	53	24	-	51	22	-	20	10	-	40	21	1	11	8	-
Long Island Rail Road	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montreal, Maine & Atlantic	5	1	-	3	1	1	6	4	-	3	-	-	4	1	-
Metro North Commuter	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montana Rail Link	7	4	-	7	2	-	7	5	1	4	4	-	7	4	1
Northern IN Comm Trans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey Transit Rail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norfolk Southern Corp.	59	27	5	59	24	5	49	16	6	37	16	7	31	9	5
Paducah & Louisville	3	3	-	-	-	-	2	-	-	2	2	2	2	2	-
Port Auth Trans Hudson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Terminal RR Assn	5	5	-	1	-	-	1	-	-	4	2	-	-	-	-
Southern CA Reg Rail Auth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Term RR Assn Of St. Louis	-	-	-	1	1	-	2	2	-	-	-	-	1	1	-
Union Pacific	166	78	7	218	97	12	198	86	5	197	87	6	187	74	5
Union RR (Pittsburgh)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wheeling & Lake Erie	-	-	-	3	1	1	5	3	-	4	-	-	3	2	1
Wisconsin & Southern RR	-	-	-	2	-	-	1	1	-	-	-	-	1	-	-
Total	903	406	31	938	396	39	896	410	30	819	371	46	802	320	22

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

TABLE 1-10 CONSISTS TRANSPORTING HAZMAT, BY STATE

States	2004			2005			2006			2007			2008		
	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls	Cnt	Dmg	Rls
Alabama	21	8	1	20	6	-	38	18	3	22	10	2	27	10	1
Alaska	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-
Arizona	21	10	1	18	6	-	24	13	2	14	9	2	12	8	-
Arkansas	20	9	-	33	12	3	25	11	-	17	8	-	22	10	1
California	51	28	3	37	19	2	44	24	3	41	24	4	44	18	1
Colorado	22	13	1	17	14	-	17	10	1	18	6	1	18	6	-
Connecticut	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Delaware	2	1	-	2	2	-	1	1	-	-	-	-	-	-	-
Dist Of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	11	6	-	13	4	1	12	4	-	11	5	1	4	3	-
Georgia	15	7	-	21	7	1	23	10	2	18	4	2	19	6	2
Idaho	3	1	1	6	-	-	11	6	-	8	4	-	8	5	-
Illinois	70	31	2	61	23	3	72	29	2	54	15	1	65	27	-
Indiana	20	9	1	16	10	1	11	3	1	19	6	1	23	4	-
Iowa	18	6	-	22	6	-	8	-	-	21	9	-	18	4	-
Kansas	24	13	1	33	14	1	43	18	2	43	18	1	37	11	2
Kentucky	19	7	-	9	4	-	12	1	-	11	5	4	8	5	-
Louisiana	50	26	-	43	19	1	44	25	1	53	26	1	39	19	1
Maine	6	1	-	5	3	1	11	5	-	3	-	-	5	1	-
Maryland	12	5	1	6	4	-	7	3	-	3	1	-	1	-	-
Massachusetts	5	1	-	3	2	-	5	4	-	2	1	-	2	1	1
Michigan	9	4	1	8	4	-	7	5	-	6	3	-	5	2	-
Minnesota	25	8	1	29	10	-	17	8	1	21	6	1	26	14	2
Mississippi	26	8	-	25	13	1	11	7	-	21	9	1	14	5	-
Missouri	18	6	1	24	10	1	16	8	-	20	8	2	15	5	1
Montana	17	7	-	14	4	-	22	10	1	7	5	-	15	6	1
Nebraska	33	17	2	27	14	-	10	5	-	14	5	-	27	12	-
Nevada	4	3	1	3	3	-	2	2	-	2	1	-	4	1	-
New Hampshire	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
New Jersey	10	6	-	6	2	-	4	2	-	10	7	-	7	4	-
New Mexico	17	7	-	31	18	1	12	5	-	11	5	-	13	8	1
New York	23	11	1	28	14	3	25	8	-	19	13	2	27	11	-
North Carolina	17	9	1	16	3	-	11	1	-	7	3	1	13	4	1
North Dakota	3	1	-	11	5	-	6	3	-	8	4	-	9	4	1
Ohio	30	13	1	32	10	1	28	16	2	23	11	4	24	8	2
Oklahoma	16	5	-	21	9	2	35	9	-	28	12	1	23	10	2
Oregon	17	5	1	9	7	1	16	7	-	10	2	-	8	5	-
Pennsylvania	24	11	2	22	8	1	20	8	4	12	7	1	7	3	1
Rhode Island	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	9	6	-	12	2	1	3	3	-	8	3	-	6	3	-
South Dakota	5	2	1	2	-	-	2	1	-	3	2	-	1	-	-
Tennessee	25	14	1	28	6	1	34	14	1	25	9	3	32	14	-
Texas	130	59	4	160	70	9	138	71	4	149	77	6	119	42	-
Utah	1	1	-	4	3	1	5	3	-	7	4	-	5	3	-
Vermont	1	-	-	2	-	-	1	1	-	2	2	2	-	-	-
Virginia	7	1	-	2	1	-	10	2	-	6	3	1	3	1	1
Washington	22	11	1	31	13	1	34	17	-	20	10	-	23	10	-
West Virginia	6	2	-	2	2	-	1	1	-	3	3	-	2	1	-
Wisconsin	8	3	-	10	3	-	10	4	-	7	2	-	14	3	-
Wyoming	7	3	-	10	5	1	8	4	-	12	4	1	8	3	-
Total	903	406	31	938	396	39	896	410	30	819	371	46	802	320	22

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

Railroads	At Public Crossing					At Private Crossing				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
Alton & Southern	-	1	-	1	-	-	-	-	-	-
Alaska RR Corp.	1	2	1	1	1	-	-	-	-	-
Amtrak	130	108	110	118	118	16	22	23	18	19
Burlington Northern Santa Fe	378	383	337	293	256	75	78	57	60	46
Belt Rwy Of Chicago	2	-	-	-	-	2	1	1	1	-
Canadian National	164	163	131	128	156	19	25	22	18	20
Canadian Pacific	51	54	53	51	47	8	12	6	12	4
Conrail Shared Assets	21	31	26	22	18	4	1	-	-	1
CSX Transportation	442	452	411	382	306	61	62	65	68	67
Florida East Coast	30	29	33	36	10	1	-	-	-	-
Guilford Rail System	2	-	-	1	6	1	-	-	-	1
Other Railroads	266	296	290	298	255	36	46	62	55	36
Indiana Harbor Belt	5	11	4	4	7	-	-	1	2	1
Kansas City Southern	119	100	99	68	76	8	9	5	12	5
Long Island Rail Road	7	14	10	11	11	-	-	-	-	-
MD Assn. of Rail Comm	1	-	-	2	1	1	-	-	-	-
Mass Bay Transit Auth.	10	3	6	3	2	-	1	-	-	1
Montreal, Maine & Atlantic	1	1	4	4	-	1	1	-	-	-
Metro North Commuter	2	2	2	1	2	2	-	1	1	1
Montana Rail Link	10	4	4	6	3	3	3	5	1	5
Northern IN Comm Trans	2	8	5	6	5	-	-	-	-	-
Northeast IL Reg Comm	25	22	23	16	17	-	-	2	-	-
New Jersey Transit Rail	15	7	8	10	9	-	-	2	-	-
Norfolk Southern Corp.	476	423	394	362	337	98	78	86	87	65
Paducah & Louisville	9	2	10	2	4	-	1	-	-	-
Peninsula Comm San Mateo Cnty	4	2	11	7	7	-	-	1	-	1
Port Terminal RR Assn	2	-	2	3	3	3	4	-	3	2
Southern CA Reg Rail Auth.	11	17	18	17	13	-	-	1	1	-
Southeastern PA Trans.	6	3	1	4	-	-	-	-	-	-
Term RR Assn Of St. Louis	2	-	3	2	4	-	-	-	-	-
Union Pacific	453	481	501	460	380	83	78	85	83	59
Union RR (Pittsburgh)	-	-	-	-	-	-	-	-	1	-
Wheeling & Lake Erie	12	15	12	20	9	-	1	-	-	3
Wisconsin & Southern RR	4	7	7	10	6	-	-	-	-	1
Total	2,663	2,641	2,516	2,349	2,069	422	423	425	423	338

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

States	At Public Crossing					At Private Crossing					At Public Crossing			At Private Crossing		
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008	Cnt	Kld	Nonf	Cnt	Kld	Nonf
Alabama	103	105	114	95	77	11	8	13	9	7	494	61	192	48	2	12
Alaska	1	2	1	1	1	-	-	-	-	-	6	-	-	-	-	-
Arizona	30	34	45	32	21	-	5	3	6	1	162	9	40	15	2	7
Arkansas	66	61	75	64	65	6	12	5	8	4	331	41	142	35	3	9
California	135	131	142	139	121	23	18	27	25	21	668	149	289	114	14	29
Colorado	29	32	35	22	27	7	4	10	9	4	145	27	64	34	-	15
Connecticut	7	6	7	2	3	3	-	2	1	1	25	5	8	7	2	6
Delaware	5	8	5	5	-	2	-	2	1	1	23	1	15	6	-	2
Dist Of Columbia	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
Florida	97	89	106	81	63	11	14	12	9	12	436	80	139	58	11	48
Georgia	135	110	119	114	88	20	21	16	24	20	566	56	173	101	4	16
Idaho	18	21	19	20	18	6	2	3	1	2	96	12	20	14	1	8
Illinois	158	144	152	133	130	20	36	22	27	22	717	133	330	127	7	35
Indiana	151	166	134	148	130	8	11	6	16	11	729	95	189	52	3	10
Iowa	78	70	60	74	64	3	7	9	8	8	346	28	121	35	1	8
Kansas	64	56	53	49	37	8	8	6	8	6	259	42	96	36	5	13
Kentucky	64	66	55	60	39	16	20	12	15	12	284	30	99	75	7	26
Louisiana	142	119	126	95	99	25	12	18	27	14	581	76	249	96	4	42
Maine	4	4	7	6	6	2	1	-	-	-	27	2	7	3	-	1
Maryland	8	13	15	13	11	4	6	9	3	6	60	1	13	28	2	9
Massachusetts	15	10	10	7	7	3	1	1	2	1	49	6	45	8	1	3
Michigan	95	88	74	62	53	6	9	8	5	6	372	27	96	34	4	19
Minnesota	75	59	53	48	54	11	6	8	11	3	289	42	99	39	5	11
Mississippi	80	73	77	64	68	8	6	5	5	2	362	51	189	26	1	17
Missouri	46	54	48	34	39	13	10	12	9	7	221	45	104	51	5	28
Montana	14	15	12	15	12	7	5	7	3	7	68	6	20	29	4	8
Nebraska	47	44	28	41	40	11	6	9	11	8	200	30	83	45	4	12
Nevada	2	4	2	1	3	-	-	2	-	3	12	1	1	5	-	3
New Hampshire	1	2	1	1	2	-	-	1	1	1	7	-	2	3	-	-
New Jersey	40	41	34	25	29	3	3	9	5	3	169	23	45	23	-	5
New Mexico	14	17	8	11	9	7	3	2	3	1	59	14	25	16	8	9
New York	28	36	24	39	38	5	7	8	10	1	165	26	77	31	8	10
North Carolina	60	56	57	57	60	15	11	18	11	9	290	34	113	64	5	23
North Dakota	14	16	12	11	13	2	2	-	2	1	66	11	29	7	2	1
Ohio	122	128	113	114	82	18	10	16	6	13	559	54	179	63	5	14
Oklahoma	56	60	66	55	56	4	4	4	4	2	293	49	157	18	-	8
Oregon	21	19	19	19	12	9	8	9	7	1	90	11	20	34	1	5
Pennsylvania	66	68	51	56	47	13	12	11	25	13	288	19	80	74	2	10
Rhode Island	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
South Carolina	64	71	39	58	52	3	4	8	8	10	284	41	95	33	5	10
South Dakota	14	16	15	12	13	2	2	1	-	-	70	6	36	5	-	1
Tennessee	67	68	56	63	55	10	11	12	10	8	309	26	113	51	6	9
Texas	252	266	297	259	189	42	59	42	37	39	1,263	121	533	219	23	107
Utah	8	15	11	16	11	2	3	3	1	1	61	4	25	10	1	2
Vermont	4	3	2	3	2	1	1	1	1	1	14	-	8	5	-	1
Virginia	41	28	26	19	28	24	23	18	16	16	142	2	43	97	5	24
Washington	41	43	37	38	24	5	14	13	10	12	183	20	43	54	7	15
West Virginia	19	24	18	13	8	12	11	14	13	7	82	6	20	57	4	13
Wisconsin	60	77	52	53	60	9	7	6	9	9	302	25	86	40	2	7
Wyoming	1	1	3	2	3	2	-	1	1	1	10	1	3	5	-	4
Total	2,662	2,640	2,515	2,349	2,069	422	423	425	423	338	12,235	1549	4555	2,031	176	675

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

Railroads	Fatalities					Nonfatal				
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
Alton & Southern	-	-	-	-	-	-	1	-	-	-
Amtrak	46	45	49	60	47	64	86	99	112	158
Burlington Northern Santa Fe	52	71	58	47	43	184	232	182	143	128
Canadian National	12	12	18	8	17	54	47	43	63	62
Canadian Pacific	1	12	2	7	2	29	29	20	21	20
Conrail Shared Assets	-	-	-	-	-	3	6	6	4	5
CSX Transportation	59	48	52	46	40	204	93	133	143	160
Florida East Coast	7	10	4	3	1	11	2	6	11	7
Guilford Rail System	-	-	-	-	-	1	-	-	-	-
Other Railroads	17	16	18	17	19	67	89	77	90	64
Indiana Harbor Belt	-	1	-	-	-	1	-	2	1	2
Kansas City Southern	20	7	4	9	5	58	38	46	36	34
Long Island Rail Road	1	8	2	2	2	4	4	1	1	2
MD Assn. of Rail Comm	-	-	-	-	-	1	-	-	1	1
Mass Bay Transit Auth.	2	1	2	-	1	2	3	28	-	1
Montreal, Maine & Atlantic	-	-	1	-	-	-	-	1	1	-
Metro North Commuter	-	-	-	-	-	32	1	1	4	-
Montana Rail Link	-	-	-	-	-	3	1	2	1	1
Northern IN Comm Trans	-	-	-	3	-	1	1	3	1	-
Northeast IL Reg Comm	6	8	5	5	4	12	28	26	6	4
New Jersey Transit Rail	8	1	3	3	1	1	-	5	1	1
Norfolk Southern Corp.	61	55	42	41	55	142	144	148	134	125
Paducah & Louisville	-	-	2	-	-	4	-	4	1	2
Peninsula Comm San Mateo Cnty	-	-	5	1	2	2	-	2	-	3
Port Terminal RR Assn	-	-	-	-	-	1	1	1	25	1
Southern CA Reg Rail Auth.	2	1	4	5	3	4	1	3	5	-
Southeastern PA Trans.	-	-	-	2	-	2	-	-	12	-
Term RR Assn Of St. Louis	-	-	-	-	-	2	-	-	-	2
Union Pacific	77	63	96	77	46	198	234	225	222	166
Wheeling & Lake Erie	-	-	1	1	1	6	9	3	13	2
Wisconsin & Southern RR	-	-	1	-	-	1	-	2	2	1
Total	371	359	369	337	289	1,094	1,050	1,069	1,054	952

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

States	Fatalities					Nonfatal					5 year Total	
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008	Kld	Nonf
Alabama	10	17	11	15	10	36	45	49	38	34	63	202
Arizona	2	2	6	-	1	9	5	11	9	13	11	47
Arkansas	8	8	9	12	7	28	40	27	35	21	44	151
California	33	23	36	46	25	54	59	38	75	91	163	317
Colorado	1	6	10	2	8	15	18	33	10	3	27	79
Connecticut	4	3	-	-	-	5	2	3	4	-	7	14
Delaware	-	1	-	-	-	7	3	4	3	-	1	17
Florida	19	17	10	20	25	35	21	35	66	30	91	187
Georgia	15	12	8	17	8	42	26	37	46	37	60	188
Idaho	4	1	3	3	2	11	6	2	5	4	13	28
Illinois	28	31	25	29	27	70	83	74	69	69	140	365
Indiana	26	21	13	19	19	37	32	37	48	45	98	199
Iowa	5	6	6	7	5	25	32	20	27	25	29	129
Kansas	7	7	15	9	9	16	31	27	18	16	47	108
Kentucky	8	7	9	9	4	33	26	28	21	17	37	125
Louisiana	23	20	8	14	15	66	44	81	57	43	80	291
Maine	-	-	1	1	-	3	2	2	1	-	2	8
Maryland	-	1	1	1	-	6	1	7	5	3	3	22
Massachusetts	3	1	2	-	1	7	6	30	2	3	7	48
Michigan	9	5	10	3	4	31	14	30	19	21	31	115
Minnesota	15	9	12	5	6	26	28	17	18	20	47	109
Mississippi	12	10	13	3	14	44	30	37	23	72	52	206
Missouri	9	17	7	7	10	31	32	26	26	17	50	132
Montana	2	3	1	2	2	9	4	7	4	4	10	28
Nebraska	7	12	5	8	2	18	22	19	16	20	34	95
Nevada	-	1	-	-	-	-	-	1	-	3	1	4
New Hampshire	-	-	-	-	-	-	-	1	-	1	-	2
New Jersey	8	2	9	3	1	7	11	11	4	17	23	50
New Mexico	5	4	5	7	1	9	7	6	7	4	22	33
New York	5	13	5	5	6	42	10	10	12	13	34	87
North Carolina	12	6	8	5	8	26	38	23	20	29	39	136
North Dakota	-	8	-	4	1	11	4	4	4	5	13	28
Ohio	14	8	17	8	12	35	46	38	40	34	59	193
Oklahoma	10	6	16	9	8	29	34	36	36	30	49	165
Oregon	7	1	1	1	2	7	4	9	4	1	12	25
Pennsylvania	1	5	4	5	6	15	22	13	28	12	21	90
South Carolina	12	9	12	7	6	27	17	14	30	17	46	105
South Dakota	-	2	2	1	1	9	9	7	3	9	6	37
Tennessee	6	7	8	6	5	27	28	20	21	26	32	122
Texas	26	23	44	34	17	110	144	150	140	95	144	639
Utah	3	2	-	-	-	7	9	3	6	2	5	27
Vermont	-	-	-	-	-	2	3	2	-	2	-	9
Virginia	1	2	-	-	4	21	13	7	12	14	7	67
Washington	4	6	7	6	4	11	14	11	15	6	27	57
West Virginia	3	1	4	-	2	8	4	9	4	8	10	33
Wisconsin	4	13	6	3	1	25	20	12	22	14	27	93
Wyoming	-	-	-	1	-	2	1	1	1	2	1	7
Total	371	359	369	337	289	1,094	1,050	1,069	1,054	952	1,725	5,219

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

Railroads	Fatalities					Nonfatal					5 year Total	
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008	Kld	Nonf
Alaska RR Corp.	-	1	-	-	-	-	-	-	1	-	1	1
Amtrak	77	71	67	64	70	26	28	26	20	36	349	136
Burlington Northern Santa Fe	77	73	82	66	59	68	66	98	84	58	357	374
Belt Rwy Of Chicago	-	-	-	-	-	-	-	-	-	1	-	1
Canadian National	4	8	9	10	14	9	9	9	9	6	45	42
Canadian Pacific	4	2	3	7	4	8	2	5	6	1	20	22
Conrail Shared Assets	1	1	1	-	-	1	1	4	3	1	3	10
CSX Transportation	75	62	84	80	73	68	58	57	51	64	374	298
Florida East Coast	10	16	14	17	11	7	6	6	10	4	68	33
Guilford Rail System	1	2	2	1	-	-	3	-	2	1	6	6
Other Railroads	6	14	13	13	18	13	11	23	13	12	64	72
Indiana Harbor Belt	-	-	1	-	-	2	1	2	1	-	1	6
Kansas City Southern	5	5	9	8	7	14	10	11	9	10	34	54
Long Island Rail Road	2	1	-	6	6	5	4	-	3	6	15	18
MD Assn. of Rail Comm	2	1	2	1	1	-	-	1	-	-	7	1
Mass Bay Transit Auth.	2	3	6	9	8	-	-	-	1	5	28	6
Metro North Commuter	1	3	1	9	2	1	3	4	1	5	16	14
Montana Rail Link	-	3	-	-	-	4	3	1	-	1	3	9
Northern IN Comm Trans	-	-	-	1	-	-	-	-	2	-	1	2
Northeast IL Reg Comm	6	6	2	5	13	7	5	7	11	6	32	36
New Jersey Transit Rail	9	7	6	11	11	4	5	9	3	2	44	23
Norfolk Southern Corp.	60	72	75	67	72	39	71	64	54	75	346	303
Paducah & Louisville	1	1	1	-	3	-	-	1	1	2	6	4
Port Auth Trans Hudson	-	-	-	-	-	2	3	-	-	-	-	5
Peninsula Comm San Mateo Cnty	5	4	4	2	2	3	4	3	2	3	17	15
Southern CA Reg Rail Auth.	3	5	5	4	2	-	3	-	1	1	19	5
Southeastern PA Trans.	6	2	2	-	4	-	-	1	1	2	14	4
Union Pacific	115	95	122	89	77	124	124	148	117	127	498	640
Wheeling & Lake Erie	-	-	-	-	-	-	-	-	1	-	-	1
Wisconsin & Southern RR	-	-	-	-	-	1	-	-	1	-	-	2
Total	472	458	511	470	457	406	420	480	408	429	2,368	2,143

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

States	Fatalities					Nonfatal					5 year Total	
	2004	2005	2006	2007	2008	2004	2005	2006	2007	2008	Kld	Nonf
Alabama	9	6	10	5	6	10	12	11	5	12	36	50
Alaska	-	1	-	-	-	-	-	-	1	-	1	1
Arizona	16	21	20	10	13	21	15	22	14	15	80	87
Arkansas	3	4	6	6	3	4	7	7	4	6	22	28
California	80	82	81	71	60	46	66	61	41	48	374	262
Colorado	2	3	7	2	5	12	13	12	14	13	19	64
Connecticut	1	3	2	8	6	1	1	3	3	4	20	12
Delaware	1	1	2	2	1	-	2	1	-	4	7	7
Dist Of Columbia	2	1	-	-	1	-	-	1	-	1	4	2
Florida	20	33	28	33	26	14	22	20	16	14	140	86
Georgia	19	15	8	14	15	14	14	16	13	8	71	65
Idaho	1	1	2	-	1	2	1	-	2	-	5	5
Illinois	25	19	25	26	39	29	20	29	35	26	134	139
Indiana	12	14	10	14	7	9	7	13	13	13	57	55
Iowa	3	2	-	4	2	2	2	2	3	6	11	15
Kansas	5	2	9	5	4	8	7	12	8	9	25	44
Kentucky	7	7	11	5	8	9	6	9	4	9	38	37
Louisiana	11	10	14	8	6	7	11	17	11	9	49	55
Maine	1	-	4	-	-	-	-	-	1	1	5	2
Maryland	10	10	10	9	7	3	10	2	2	5	46	22
Massachusetts	10	5	13	11	15	1	5	1	3	10	54	20
Michigan	6	5	12	6	7	10	3	2	4	3	36	22
Minnesota	4	2	6	6	5	2	3	6	11	5	23	27
Mississippi	6	8	4	6	4	4	8	7	6	3	28	28
Missouri	8	4	12	5	9	14	11	11	9	5	38	50
Montana	2	6	4	1	2	4	4	5	4	3	15	20
Nebraska	3	5	3	-	1	2	1	5	5	3	12	16
Nevada	3	4	6	4	4	4	4	8	2	6	21	24
New Hampshire	-	-	-	-	1	-	-	-	-	-	1	-
New Jersey	15	13	10	13	18	10	7	9	6	5	69	37
New Mexico	10	8	4	8	11	4	7	8	4	6	41	29
New York	14	14	9	18	17	14	12	6	10	13	72	55
North Carolina	20	18	21	21	17	15	12	14	16	19	97	76
North Dakota	2	-	2	-	2	1	2	1	1	3	6	8
Ohio	18	14	24	20	14	8	16	15	17	15	90	71
Oklahoma	9	4	5	4	3	7	4	6	7	5	25	29
Oregon	4	2	7	6	6	10	8	3	8	10	25	39
Pennsylvania	15	15	17	23	24	14	11	18	18	16	94	77
Rhode Island	1	-	2	2	-	1	-	1	-	1	5	3
South Carolina	6	10	9	10	8	2	7	11	2	7	43	29
South Dakota	1	1	-	-	-	2	-	3	-	-	2	5
Tennessee	11	11	13	7	20	3	8	6	3	9	62	29
Texas	42	44	49	47	31	53	40	70	47	50	213	260
Utah	5	-	1	-	2	1	2	-	4	4	8	11
Vermont	-	-	-	-	-	-	1	1	-	-	-	2
Virginia	2	3	7	5	5	7	3	9	6	8	22	33
Washington	19	14	13	10	10	14	14	10	17	7	66	62
West Virginia	6	5	5	7	4	4	5	1	3	8	27	21
Wisconsin	2	6	4	4	7	4	4	5	4	-	23	17
Wyoming	-	2	-	4	-	-	2	-	1	2	6	5
Total	472	458	511	470	457	406	420	480	408	429	2,368	2,143

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CHAPTER 2

CURRENT YEAR SUMMARY OF ACCIDENTS/INCIDENTS AND RATES

FRA's regulations on reporting railroad accidents/incidents are found primarily in 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 to determine 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 that 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 electromagnetic 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 I railroads, and those railroads reporting that annual employees worked in excess of 400,000 hours.

Railroads have been assigned to one of three groups in this bulletin. Group 1 corresponds to the railroads that have been defined as Class I; 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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CURRENT YEAR SUMMARY OF ACCIDENTS/INCIDENTS AND RATES

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TABLE 2-1 ACCIDENTS/INCIDENTS, BY MONTH, 2008

Months	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
January	1,079	52	678	227	-	11	233	23	68	619	29	599
February	1,054	49	712	206	-	17	209	15	67	639	34	628
March	1,077	52	875	221	-	170	211	12	82	645	40	623
April	1,000	61	675	208	-	6	145	21	48	647	40	621
May	1,065	78	774	189	-	5	215	24	147	661	54	622
June	1,128	78	762	236	-	21	192	37	64	700	41	677
July	1,159	69	819	225	-	9	191	29	87	743	40	723
August	1,126	96	738	211	-	10	209	31	69	706	65	659
September	1,019	88	750	177	25	63	188	23	59	654	40	628
October	1,084	64	743	191	2	4	215	21	87	678	41	652
November	923	67	619	174	-	15	208	34	83	541	33	521
December	967	48	670	189	-	3	191	19	91	587	29	576
Total	12,681	802	8,815	2,454	27	334	2,407	289	952	7,820	486	7,529

TABLE 2-2 ACCIDENT/INCIDENT RATES, BY MONTH, 2008

Months	Total									
	Accident/ Incident	Train Accidents	Employee On Duty	Highway-rail Crossing	Other Events	Passenger Trespasser	Passenger On Trains	Passenger Train	Yard Track	Other Track
January	16.57	3.49	2.06	3.58	9.50	0.74	4.62	1.48	12.06	2.13
February	16.74	3.27	2.13	3.32	10.15	0.98	6.94	0.66	14.84	1.47
March	16.12	3.31	2.13	3.16	9.66	1.02	15.44	1.60	13.86	1.69
April	15.28	3.18	2.09	2.22	9.89	1.19	4.12	0.74	13.83	1.54
May	16.09	2.86	2.01	3.25	9.99	1.44	8.58	0.49	11.50	1.53
June	18.01	3.77	2.23	3.07	11.18	1.26	6.06	0.86	13.46	2.24
July	17.69	3.43	2.19	2.92	11.34	1.34	6.07	0.95	15.36	1.60
August	16.97	3.18	2.08	3.15	10.64	1.46	6.44	0.60	13.49	1.63
September	16.17	2.81	2.05	2.98	10.38	1.14	10.66	0.99	13.46	1.19
October	16.08	2.83	2.05	3.19	10.06	1.08	5.50	0.68	11.60	1.52
November	15.07	2.84	1.89	3.40	8.84	1.05	5.04	1.02	11.63	1.57
December	16.99	3.32	1.97	3.36	10.31	1.09	5.51	0.72	15.76	1.45
Total	16.48	3.19	2.08	3.13	10.16	1.15	7.08	0.90	13.38	1.63

TABLE 2-3 ACCIDENTS/INCIDENTS BY RAILROAD GROUPS, 2008

Groups	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
I	8,909	652	5,684	1,972	2	84	1,961	255	853	4,976	395	4,747
II	2,536	111	2,372	222	25	233	161	15	36	2,153	71	2,103
III	1,236	39	759	260	-	17	285	19	63	691	20	679
All	12,681	802	8,815	2,454	27	334	2,407	289	952	7,820	486	7,529

TABLE 2-4 OPERATIONAL DATA BY RAILROAD GROUPS, 2008

Groups	Train Miles	Freight Train Miles	Passenger Train Miles	Yard Switching Train Miles	Other Train Miles	Employee Hours	Passengers Carried
	I	661,157,303	539,157,101	37,737,000	80,782,539	3,480,663	375,445,555	28,704,501
II	76,132,307	11,389,485	52,660,520	11,389,805	692,497	74,935,753	520,452,151
III	32,318,438	14,734,980	7,653,420	9,812,413	117,625	27,648,139	51,160,686
All	769,608,048	565,281,566	98,050,940	101,984,757	4,290,785	478,029,447	600,317,338

TABLE 2-5 ACCIDENT/INCIDENT RATES BY RAILROAD GROUPS, 2008

Groups	Total Incident/	Train Accidents	Employee On Duty	Highway-rail Crossing	Other Events	Passenger Trespasser	Passenger On Trains	Passenger Train	Yard Track	Other Track
	I	13.47	2.98	1.73	2.97	7.53	1.14	9.48	1.22	14.16	1.43
II	33.31	2.92	3.03	2.11	28.28	1.37	6.00	0.72	10.71	1.54
III	38.24	8.04	4.14	8.82	21.38	0.90	3.78	0.52	10.09	7.15
Tot	16.48	3.19	2.08	3.13	10.16	1.15	7.08	0.90	13.38	1.63

TABLE 2-6 ACCIDENTS/INCIDENTS BY RAILROAD, 2008

Group - Railroads	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
1												
Amtrak	1,592	119	1,491	94	-	16	137	47	158	1,361	72	1,317
Burlington Northern Santa Fe	1,958	104	1,191	591	-	24	302	43	128	1,065	61	1,039
Canadian National	455	32	244	93	1	2	176	17	62	186	14	180
Canadian Pacific	231	6	142	59	-	4	51	2	20	121	4	118
CSX Transportation	1,177	117	616	308	1	10	373	40	160	496	76	446
Kansas City Southern	206	12	87	68	-	1	81	5	34	57	7	52
Norfolk Southern Corp.	1,162	129	578	253	-	9	402	55	125	507	74	444
Union Pacific	2,259	133	1,335	637	-	18	439	46	166	1,183	87	1,151
2												
Alton & Southern	17	-	7	10	-	-	-	-	-	7	-	7
Alaska RR Corp.	77	1	73	2	-	-	1	-	-	74	1	73
Belt Rwy Of Chicago	23	-	10	13	-	-	-	-	-	10	-	10
Conrail Shared Assets	75	-	37	25	-	-	19	-	5	31	-	32
Florida East Coast	32	12	16	2	-	-	10	1	7	20	11	9
Guilford Rail System	22	-	11	4	-	-	7	-	-	11	-	11
Other Railroads	45	-	23	17	-	-	6	-	1	22	-	22
Indiana Harbor Belt	38	-	17	15	-	-	8	-	2	15	-	15
Long Island Rail Road	542	8	522	13	-	8	11	2	2	518	6	512
MD Assn. of Rail Comm	21	1	25	3	-	8	1	-	1	17	1	16
Mass Bay Transit Auth.	121	9	261	3	-	152	3	1	1	115	8	108
Montreal, Maine & Atlantic	17	-	12	5	-	-	-	-	-	12	-	12
Metro North Commuter	218	2	190	23	-	-	3	-	-	192	2	190
Montana Rail Link	67	1	33	27	-	1	8	-	1	32	1	31
Northern IN Comm Trans	20	-	13	2	-	-	5	-	-	13	-	13
Northeast IL Reg Comm	280	19	254	6	-	3	17	4	4	257	15	247
New Jersey Transit Rail	211	15	168	29	-	-	9	1	1	173	14	167
Paducah & Louisville	23	3	11	7	-	-	4	-	2	12	3	9
Port Auth Trans Hudson	145	-	145	2	-	2	-	-	-	143	-	143
Peninsula Comm San Mateo Cnty	47	4	39	1	-	-	8	2	3	38	2	36
Port Terminal RR Assn	30	-	23	3	-	-	5	-	1	22	-	22
Southern CA Reg Rail Auth.	38	30	78	5	25	59	13	3	-	20	2	19
Southeastern PA Trans.	372	4	366	7	-	-	-	-	-	365	4	366
Term RR Assn Of St. Louis	11	-	3	6	-	-	4	-	2	1	-	1
Union RR (Pittsburgh)	7	-	7	-	-	-	-	-	-	7	-	7
Wheeling & Lake Erie	29	1	4	15	-	-	12	1	2	2	-	2
Wisconsin & Southern RR	36	1	24	5	-	-	7	-	1	24	1	23
3												
Other Railroads	1,270	39	759	294	-	17	285	19	63	691	20	679

Highway-Rail Counts Are Excluded From Other Categories

TABLE 2-7 ACCIDENT/INCIDENT RATES BY RAILROAD, 2008

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	39.98	2.36	2.84	3.44	34.18	2.66	9.48	1.19	18.26	1.48
	Burlington Northern Santa Fe	10.53	3.18	2.02	1.62	5.73	0.63	.	.	22.34	1.49
	Canadian National	22.09	4.51	2.18	8.54	9.03	0.97	.	.	14.91	1.99
	Canadian Pacific	16.09	4.11	2.65	3.55	8.43	0.35	.	.	7.19	3.46
	CSX Transportation	11.12	2.91	1.22	3.52	4.69	1.29	.	.	11.58	1.38
	Kansas City Southern	18.13	5.99	0.98	7.13	5.02	1.50	.	.	14.69	3.67
	Norfolk Southern Corp.	11.49	2.50	0.94	3.98	5.01	1.45	.	.	10.38	1.10
	Union Pacific	12.41	3.50	1.81	2.41	6.50	1.12	.	.	15.91	1.66
2	Alton & Southern	17.38	10.22	2.19	.	7.16	.	.	.	9.20	.
	Alaska RR Corp.	53.70	1.39	9.15	0.70	51.61	.	.	.	1.52	1.29
	Belt Rwy Of Chicago	48.55	27.44	1.95	.	21.11	2.11	.	.	29.22	.
	Conrail Shared Assets	24.96	8.32	1.51	6.32	10.32	0.33	.	.	7.05	9.98
	Florida East Coast	14.14	0.88	0.30	4.42	8.84	6.63	.	.	.	1.13
	Guilford Rail System	14.99	2.73	1.15	4.77	7.49	0.68	.	.	1.63	3.51
	Other Railroads	70.87	26.77	10.31	9.45	34.65	1.57	.	.	55.69	11.92
	Indiana Harbor Belt	25.94	10.24	1.63	5.46	10.24	.	.	.	10.92	8.74
	Long Island Rail Road	62.89	1.51	2.22	1.28	60.11	1.39	6.60	0.46	.	0.58
	MD Assn. of Rail Comm	17.47	2.50	0.37	0.83	14.14	0.83	8.15	1.76	520.29	0.83
	Mass Bay Transit Auth.	28.79	0.71	3.61	0.71	27.36	3.09	39.57	0.48	.	0.71
	Montreal, Maine & Atlantic	44.16	12.99	5.31	.	31.17	.	.	.	.	20.34
	Metro North Commuter	22.35	2.36	1.94	0.31	19.68	0.72	0.17	1.44	.	1.85
	Montana Rail Link	16.67	6.72	2.96	1.99	7.96	0.25	.	.	34.75	3.09
	Northern IN Comm Trans	26.08	2.61	2.17	6.52	16.95	.	3.51	.	.	1.30
	Northeast IL Reg Comm	29.29	0.63	2.04	1.78	26.88	1.99	6.49	0.27	1.27	0.50
	New Jersey Transit Rail	19.75	2.71	2.40	0.84	16.19	1.22	1.05	0.82	53.11	1.06
	Paducah & Louisville	36.87	11.22	2.35	6.41	19.24	8.02	.	.	14.86	10.22
	Port Auth Trans Hudson	71.82	0.99	9.11	.	70.83	.	2.51	0.57	3.80	0.57
	Peninsula Comm San Mateo Cnty	32.37	0.69	3.74	5.51	26.17	3.44	1.90	.	.	0.71
	Port Terminal RR Assn	23.44	2.34	6.59	3.91	17.19	.	.	.	1.56	.
	Southern CA Reg Rail Auth.	15.54	2.04	1.16	5.32	8.18	1.23	19.55	1.23	.	1.23
	Southeastern PA Trans.	71.27	1.34	11.00	.	69.93	1.15	14.44	0.38	.	0.96
	Term RR Assn Of St. Louis	17.87	9.75	0.39	6.50	1.62	.	.	.	6.50	.
	Union RR (Pittsburgh)	54.13	.	1.74	.	54.13	.	.	.	.	.
	Wheeling & Lake Erie	27.67	14.31	0.49	11.45	1.91	.	.	.	42.61	7.17
	Wisconsin & Southern RR	93.14	12.94	8.21	18.11	62.09	.	.	.	11.24	13.44
3	Other Railroads	39.30	9.10	4.14	8.82	21.38	0.90	3.78	0.52	12.33	7.69

- 1. Total Accident/incident rate of all reported events * 1,000,000 /train miles
- 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
- 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, 2008

Railroads		Train Miles	Hours	Total Rate	Train Acc Rate	EOD Rate	HRC Rate	Other Events	Tres Rate
1	ATK - Amtrak	5	5	40	2	3	3	34	3
	BNSF - Burlington Northern Santa Fe	1	2	11	3	2	2	6	1
	CN - Canadian National	6	6	22	5	2	9	9	1
	CP - Canadian Pacific	7	7	16	4	3	4	8	0
	CSX - CSX Transportation	3	4	11	3	1	4	5	1
	KCS - Kansas City Southern	8	8	18	6	1	7	5	1
	NS - Norfolk Southern Corp.	4	3	11	3	1	4	5	1
	UP - Union Pacific	2	1	12	3	2	2	6	1
2	ALS - Alton & Southern	19	21	17	10	2	0	7	0
	ARR - Alaska RR Corp.	15	12	54	1	9	1	52	0
	BRC - Belt Rwy Of Chicago	24	14	49	27	2	0	21	2
	CRSH - Conrail Shared Assets	8	7	25	8	2	6	10	0
	FEC - Florida East Coast	10	13	14	1	0	4	9	7
	GRS - Guilford Rail System	12	11	15	3	1	5	7	1
	IAIS - Other Railroads	21	27	71	27	10	9	35	2
	IHB - Indiana Harbor Belt	13	10	26	10	2	5	10	0
	LI - Long Island Rail Road	4	1	63	2	2	1	60	1
	MACZ - MD Assn. of Rail Comm	17	23	17	2	0	1	14	1
	MBTA - Mass Bay Transit Auth.	6	5	29	1	4	1	27	3
	MMA - Montreal, Maine & Atlantic	26	26	44	13	5	0	31	0
	MNCW - Metro North Commuter	2	2	22	2	2	0	20	1
	MRL - Montana Rail Link	7	9	17	7	3	2	8	0
	NICD - Northern IN Comm Trans	20	20	26	3	2	7	17	0
	NIRC - Northeast IL Reg Comm	3	4	29	1	2	2	27	2
	NJTR - New Jersey Transit Rail	1	3	20	3	2	1	16	1
	PAL - Paducah & Louisville	22	22	37	11	2	6	19	8
	PATH - Port Auth Trans Hudson	11	8	72	1	9	0	71	0
	PCMZ - Peninsula Comm San Mateo Cnty	14	15	32	1	4	6	26	3
	PTRA - Port Terminal RR Assn	16	19	23	2	7	4	17	0
	SCAX - Southern CA Reg Rail Auth.	9	18	16	2	1	5	8	1
	SEPA - Southeastern PA Trans.	5	6	71	1	11	0	70	1
	TRRA - Term RR Assn Of St. Louis	23	25	18	10	0	6	2	0
	URR - Union RR (Pittsburgh)	27	17	54	0	2	0	54	0
	WE - Wheeling & Lake Erie	18	16	28	14	0	11	2	0
	WSOR - Wisconsin & Southern RR	25	24	93	13	8	18	62	0

TABLE 2-9 OPERATIONAL DATA, BY RAILROAD, 2008

Railroads	Total Train Miles		Employee Hours Worked		Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgs Carried	Psgr Miles Millions
		%		%						
ALS	978,005	0.13	638,132	0.13	-	-	978,005	-	-	-
ARR	1,433,823	0.19	1,596,366	0.33	575,646	199,137	659,040	-	200,205	23
ATK	39,817,704	5.17	36,826,376	7.70	-	37,737,000	2,080,704	-	28,704,501	6,179
BNSF	186,016,463	24.17	82,353,541	17.23	170,931,924	-	15,084,539	-	-	-
BRC	473,754	0.06	921,449	0.19	28,872	-	444,882	-	-	-
CN	20,600,159	2.68	16,166,423	3.38	16,553,972	-	4,023,541	22,646	-	-
CP	14,356,621	1.87	9,299,856	1.95	11,852,426	-	2,504,195	-	-	-
CRSH	3,004,564	0.39	2,244,711	0.47	1,303,251	-	1,701,313	-	-	-
CSX	105,842,271	13.75	62,835,123	13.14	89,956,655	-	15,885,616	-	-	-
FEC	2,262,942	0.29	1,319,486	0.28	1,774,719	-	488,223	-	-	-
GRS	1,467,744	0.19	1,734,956	0.36	854,533	-	613,211	-	-	-
IAIS	634,981	0.08	407,389	0.09	415,323	453	215,479	3,726	27,571	0
IHB	1,465,104	0.19	1,838,286	0.38	457,908	-	1,007,196	-	-	-
KCS	11,361,608	1.48	7,142,792	1.49	8,979,704	-	2,381,904	-	-	-
LI	8,618,118	1.12	14,334,702	3.00	-	8,618,118	-	-	87,358,476	2,349
MACZ	1,201,869	0.16	541,842	0.11	-	1,134,533	3,844	63,492	8,068,753	245
MBTA	4,202,766	0.55	4,046,885	0.85	-	4,202,766	-	-	39,738,170	435
MMA	385,007	0.05	451,989	0.09	245,807	-	139,200	-	-	-
MNCW	9,755,459	1.27	12,546,723	2.62	-	9,755,459	-	-	81,466,483	2,408
MRL	4,018,112	0.52	2,161,398	0.45	3,557,723	-	460,389	-	-	-
NICD	766,775	0.10	645,357	0.14	-	766,775	-	-	4,437,285	143
NIRC	9,560,912	1.24	8,344,782	1.75	556,172	7,398,912	1,580,770	25,058	83,929,933	1,881
NJTR	10,683,407	1.39	10,011,569	2.09	-	9,748,422	338,928	596,057	77,361,500	2,098
NS	101,114,588	13.14	63,473,440	13.28	85,798,352	-	15,316,236	-	-	-
PAL	623,765	0.08	594,942	0.12	489,202	-	134,563	-	-	-
PATH	2,018,962	0.26	2,172,401	0.45	-	1,755,620	263,342	-	76,729,434	359
PCMZ	1,452,061	0.19	854,895	0.18	-	1,415,413	36,648	-	12,803,281	263
PTRA	1,279,872	0.17	667,251	0.14	-	-	1,279,872	-	-	-
SCAX	2,445,385	0.32	689,836	0.14	-	2,445,385	-	-	12,161,214	419
SEPA	5,219,527	0.68	3,492,440	0.73	-	5,219,527	-	-	36,169,846	492
TRRA	615,396	0.08	513,274	0.11	-	-	615,396	-	-	-
UP	182,047,889	23.65	97,348,004	20.36	155,084,068	-	23,505,804	3,458,017	-	-
URR	129,315	0.02	804,404	0.17	-	-	129,315	-	-	-
WE	1,048,170	0.14	824,254	0.17	836,968	-	211,202	-	-	-
WSOR	386,512	0.05	536,034	0.11	293,361	-	88,987	4,164	-	-
XXXX	32,318,438	4.20	27,648,139	5.78	14,734,980	7,653,420	9,812,413	117,625	51,160,686	873
Total	769,608,048	100.0	478,029,447	100.0	565,281,566	98,050,940	101,984,757	4,290,785	600,317,338	18,166

XXXX = all other railroads

TABLE 2-10 OPERATIONAL DATA, BY MONTH, 2008

Months	Total Train Miles		Employee Hours Worked		Freight Train Miles	Passenger Train Miles	Yard Switching Miles	Other Train Miles	Psgrs Carried	Psgr Miles Millions
		%		%						
January	65,128,754	8.46	40,546,066	8.48	47,820,244	8,096,569	8,873,522	338,419	48,328,199	1,387
February	62,968,965	8.18	38,700,072	8.10	46,518,222	7,602,852	8,492,125	355,766	45,324,202	1,297
March	66,797,428	8.68	40,317,137	8.43	49,424,305	8,117,356	8,873,104	382,663	49,025,468	1,471
April	65,424,062	8.50	40,803,565	8.54	48,193,918	8,075,275	8,747,604	407,265	49,845,721	1,456
May	66,187,578	8.60	40,644,548	8.50	48,764,282	8,240,947	8,784,061	398,288	51,419,209	1,562
June	62,632,233	8.14	40,352,661	8.44	45,604,550	8,145,744	8,544,199	337,740	52,561,548	1,616
July	65,507,344	8.51	41,209,116	8.62	47,979,627	8,453,072	8,722,068	352,577	54,896,036	1,729
August	66,360,867	8.62	40,625,725	8.50	48,978,006	8,309,933	8,673,417	399,511	53,040,620	1,660
September	63,018,320	8.19	40,255,835	8.42	46,292,977	8,067,527	8,318,537	339,279	51,279,266	1,510
October	67,425,394	8.76	42,034,084	8.79	49,489,573	8,773,516	8,793,729	368,576	47,017,871	1,582
November	61,228,120	7.96	36,655,964	7.67	45,319,539	7,861,804	7,737,650	309,127	48,233,328	1,410
December	56,928,983	7.40	35,884,674	7.51	40,896,323	8,306,345	7,424,741	301,574	49,345,870	1,487
Total	769,608,048	100.0	478,029,447	100.0	565,281,566	98,050,940	101,984,757	4,290,785	600,317,338	18,166

TABLE 2-11 SUMMARY OF ACCIDENTS/INCIDENTS BY STATE, 2008

States	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal	Cnt	Deaths	Nonfatal
Alabama	242	17	130	63	1	1	84	10	34	95	6	95
Alaska	93	1	89	2	-	-	1	-	-	90	1	89
Arizona	160	14	114	30	-	1	22	1	13	108	13	100
Arkansas	243	10	137	65	-	1	69	7	21	109	3	115
California	824	111	687	118	25	81	142	25	91	564	61	515
Colorado	198	13	122	45	-	2	31	8	3	122	5	117
Connecticut	95	6	74	15	-	-	4	-	-	76	6	74
Delaware	61	1	55	4	-	-	1	-	-	56	1	55
Dist Of Columbia	100	1	99	20	-	20	-	-	-	80	1	79
Florida	254	51	163	22	-	-	75	25	30	157	26	133
Georgia	280	23	147	55	-	1	108	8	37	117	15	109
Idaho	94	3	53	25	-	1	20	2	4	49	1	48
Illinois	1,145	71	858	186	-	8	152	27	69	807	44	781
Indiana	351	27	189	63	-	4	141	19	45	147	8	140
Iowa	264	7	156	68	-	7	72	5	25	124	2	124
Kansas	266	14	152	88	-	3	43	9	16	135	5	133
Kentucky	181	12	108	40	-	4	51	4	17	90	8	87
Louisiana	291	22	151	73	-	8	113	15	43	105	7	100
Maine	28	-	16	6	-	-	6	-	-	16	0	16
Maryland	141	8	101	26	-	2	17	-	3	98	8	96
Massachusetts	225	16	341	18	-	152	8	1	3	199	15	186
Michigan	213	11	136	34	-	1	59	4	21	120	7	114
Minnesota	272	11	173	65	-	2	57	6	20	150	5	151
Mississippi	143	18	112	34	-	-	70	14	72	39	4	40
Missouri	286	20	173	81	-	2	46	10	17	159	10	154
Montana	193	5	129	50	-	1	19	2	4	124	3	124
Nebraska	313	3	196	92	-	1	48	2	20	173	1	175
Nevada	53	4	33	13	-	-	6	-	3	34	4	30
New Hampshire	7	1	4	0	-	-	3	-	1	4	1	3
New Jersey	443	23	368	48	-	2	32	1	17	363	22	349
New Mexico	96	12	60	22	-	1	10	1	4	64	11	55
New York	1,039	24	932	78	-	10	39	6	13	922	18	909
North Carolina	203	27	120	27	-	2	69	8	29	107	19	89
North Dakota	107	3	72	25	-	-	14	1	5	68	2	67
Ohio	334	26	170	96	-	1	95	12	34	143	14	135
Oklahoma	178	12	86	63	-	2	58	8	30	57	4	54
Oregon	140	8	94	31	-	-	13	2	1	96	6	93
Pennsylvania	753	31	618	74	-	4	60	6	12	619	25	602
Rhode Island	19	1	16	5	-	-	-	-	-	14	1	16
South Carolina	124	14	52	21	-	-	62	6	17	41	8	35
South Dakota	49	1	31	14	-	-	13	1	9	22	0	22
Tennessee	237	25	117	69	-	2	63	5	26	105	20	89
Texas	953	53	550	265	-	6	228	17	95	460	36	449
Utah	73	2	41	20	-	-	12	-	2	41	2	39
Vermont	34	-	30	3	-	-	3	-	2	28	0	28
Virginia	203	9	132	41	-	-	44	4	14	118	5	118
Washington	256	14	170	50	-	-	36	4	6	170	10	164
West Virginia	96	6	64	24	-	-	15	2	8	57	4	56
Wisconsin	196	9	100	35	1	-	69	1	14	92	7	86
Wyoming	132	1	94	42	-	1	4	-	2	86	1	91
Total	12,681	802	8,815	2,454	27	334	2,407	289	952	7,820	486	7,529

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 the Occupational Safety and Health Administration 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.

Requirements in effect from 1975 to April 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 F6180.55a:

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 workdays, the loss of one or more workdays, 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 grade 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; or
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 F6180.55a (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:
 - a. A day away from work;

- b. Restricted work activity or job transfer; or
 - c. Loss of consciousness;
4. Occupational illness of a railroad employee that results in any of the following:
- a. A day away from work;
 - b. Restricted work activity or job transfer;
 - c. Loss of consciousness; or
 - d. Medical treatment;
5. A significant injury to or illness of a railroad employee diagnosed by a physician or other licensed healthcare 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; or
6. An illness or injury that meets the application of any of the following specific case criteria:
- a. A needle stick or sharps injury to a railroad employee;
 - b. Medical removal of a railroad employee;
 - c. Occupational hearing loss of a railroad employee;
 - d. Occupational tuberculosis of a railroad employee; or
 - e. 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:
 - a. A train accident, a train incident, or a highway-rail crossing accident or incident involving the railroad; or
 - b. 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 grade 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, 2008

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)	22	4,763	25	4,938	2	91	3	73	20	4,774
B - Employee not on duty	.	150	.	165	.	.	.	3	.	162
C - Passenger on train	1	938	24	1,262	24	238	.	87	.	937
D - Nontrespasser	125	1,155	151	1,294	.	1	146	511	5	782
E - Trespasser	570	604	597	692	1	1	140	263	456	428
F - Worker on duty(contractor)	3	198	3	199	.	.	.	.	3	199
G - Contractor(other)	2	229	2	237	.	2	.	3	2	232
H - Worker on duty(volunteer)	.	4	.	4	.	.	.	.	.	4
I - Volunteer(other)	.	3	.	3	.	.	.	.	.	3
J - Nontrespasser, off rr property	.	15	.	21	.	1	.	12	.	8
Total..	723	8,059	802	8,815	27	334	289	952	486	7,529

TABLE 3-2 FATALITIES BY TYPE PERSON AND RAILROAD, 2008

			Type Person Codes						
	Total	%	A	C	D	E	F	G	
Alaska RR Corp.	1	0.1	-	-	1	-	-	-	
Amtrak	119	14.8	1	-	7	110	1	-	
Burlington Northern Santa Fe	104	13.0	2	-	24	78	-	-	
Canadian National	32	4.0	1	-	15	16	-	-	
Canadian Pacific	6	0.7	-	-	1	5	-	-	
CSX Transportation	117	14.6	4	-	19	94	-	-	
Florida East Coast	12	1.5	-	-	-	12	-	-	
Kansas City Southern	12	1.5	-	-	5	7	-	-	
Long Island Rail Road	8	1.0	-	-	-	8	-	-	
MD Assn. of Rail Comm	1	0.1	-	-	-	1	-	-	
Mass Bay Transit Auth.	9	1.1	-	-	-	9	-	-	
Metro North Commuter	2	0.2	-	-	-	2	-	-	
Montana Rail Link	1	0.1	1	-	-	-	-	-	
Northeast IL Reg Comm	19	2.4	1	-	2	16	-	-	
New Jersey Transit Rail	15	1.9	2	-	-	12	-	1	
Norfolk Southern Corp.	129	16.1	1	-	35	92	1	-	
Paducah & Louisville	3	0.4	-	-	-	3	-	-	
Peninsula Comm San Mateo Cnty	4	0.5	-	-	1	3	-	-	
Southern CA Reg Rail Auth.	30	3.7	1	24	-	5	-	-	
Southeastern PA Trans.	4	0.5	-	-	-	4	-	-	
Union Pacific	133	16.6	7	-	33	91	1	1	
Wheeling & Lake Erie	1	0.1	-	-	-	1	-	-	
Wisconsin & Southern RR	1	0.1	1	-	-	-	-	-	
Other Railroads	39	4.9	3	-	8	28	-	-	
Total	802	100	25	24	151	597	3	2	

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

TABLE 3-3 FATALITIES BY TYPE PERSON KILLED AND STATE, 2008

States			Type Person Codes						
	Total	%	A	C	D	E	F	G	
Alabama	17	2.1	1	-	7	9	-	-	
Alaska	1	0.1	-	-	1	-	-	-	
Arizona	14	1.7	-	-	-	14	-	-	
Arkansas	10	1.2	-	-	6	4	-	-	
California	111	13.8	2	24	4	81	-	-	
Colorado	13	1.6	1	-	7	5	-	-	
Connecticut	6	0.7	-	-	-	6	-	-	
Delaware	1	0.1	-	-	-	1	-	-	
Dist Of Columbia	1	0.1	-	-	-	1	-	-	
Florida	51	6.4	-	-	3	48	-	-	
Georgia	23	2.9	-	-	6	17	-	-	
Idaho	3	0.4	-	-	2	1	-	-	
Illinois	71	8.9	3	-	12	55	1	-	
Indiana	27	3.4	1	-	9	17	-	-	
Iowa	7	0.9	-	-	4	3	-	-	
Kansas	14	1.7	1	-	9	4	-	-	
Kentucky	12	1.5	-	-	3	9	-	-	
Louisiana	22	2.7	-	-	14	8	-	-	
Maryland	8	1.0	1	-	-	7	-	-	
Massachusetts	16	2.0	-	-	-	16	-	-	
Michigan	11	1.4	-	-	3	8	-	-	
Minnesota	11	1.4	-	-	4	7	-	-	
Mississippi	18	2.2	-	-	11	7	-	-	
Missouri	20	2.5	1	-	6	13	-	-	
Montana	5	0.6	1	-	-	4	-	-	
Nebraska	3	0.4	-	-	1	2	-	-	
Nevada	4	0.5	-	-	-	4	-	-	
New Hampshire	1	0.1	-	-	-	1	-	-	
New Jersey	23	2.9	2	-	-	19	1	1	
New Mexico	12	1.5	-	-	1	11	-	-	
New York	24	3.0	1	-	3	20	-	-	
North Carolina	27	3.4	2	-	4	21	-	-	
North Dakota	3	0.4	-	-	1	2	-	-	
Ohio	26	3.2	-	-	4	22	-	-	
Oklahoma	12	1.5	3	-	3	6	-	-	
Oregon	8	1.0	-	-	-	8	-	-	
Pennsylvania	31	3.9	1	-	2	28	-	-	
Rhode Island	1	0.1	-	-	-	-	1	-	
South Carolina	14	1.7	-	-	4	10	-	-	
South Dakota	1	0.1	-	-	-	1	-	-	
Tennessee	25	3.1	-	-	-	25	-	-	
Texas	53	6.6	3	-	11	39	-	-	
Utah	2	0.2	-	-	-	2	-	-	
Virginia	9	1.1	-	-	2	7	-	-	
Washington	14	1.7	-	-	1	13	-	-	
West Virginia	6	0.7	-	-	2	4	-	-	
Wisconsin	9	1.1	1	-	1	7	-	-	
Wyoming	1	0.1	-	-	-	-	-	1	
Total	802	100.0	25	24	151	597	3	2	

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

TABLE 3-4 NONFATAL CONDITIONS BY TYPE PERSON AND RAILROAD, 2008

			Type Person Codes									
	Total	%	A	B	C	D	E	F	G	H	I	J
Alton & Southern	7	0.1	7	-	-	-	-	-	-	-	-	-
Alaska RR Corp.	73	0.8	73	-	-	-	-	-	-	-	-	-
Amtrak	1,491	16.9	522	33	586	266	70	4	10	-	-	-
Burlington Northern Santa Fe	1,191	13.5	830	36	-	92	98	13	120	-	-	2
Belt Rwy Of Chicago	10	0.1	9	-	-	-	1	-	-	-	-	-
Canadian National	244	2.8	175	1	-	53	10	1	2	-	-	2
Canadian Pacific	142	1.6	123	-	-	3	16	-	-	-	-	-
Conrail Shared Assets	37	0.4	17	1	-	10	2	6	1	-	-	-
CSX Transportation	616	7.0	380	9	-	103	109	5	9	-	-	1
Florida East Coast	16	0.2	2	1	-	-	11	-	2	-	-	-
Guilford Rail System	11	0.1	10	-	-	-	1	-	-	-	-	-
Other Railroads	782	8.9	591	7	33	59	23	46	8	4	3	8
Indiana Harbor Belt	17	0.2	15	-	-	-	2	-	-	-	-	-
Kansas City Southern	87	1.0	35	-	-	29	10	13	-	-	-	-
Long Island Rail Road	522	5.9	159	-	155	187	8	-	13	-	-	-
MD Assn. of Rail Comm	25	0.3	1	-	20	3	1	-	-	-	-	-
Mass Bay Transit Auth.	261	3.0	73	-	172	10	6	-	-	-	-	-
Montreal, Maine & Atlantic	12	0.1	12	-	-	-	-	-	-	-	-	-
Metro North Commuter	190	2.2	122	8	4	23	5	-	28	-	-	-
Montana Rail Link	33	0.4	31	-	-	-	2	-	-	-	-	-
Northern IN Comm Trans	13	0.1	7	-	5	1	-	-	-	-	-	-
Northeast IL Reg Comm	254	2.9	84	2	122	37	7	-	2	-	-	-
New Jersey Transit Rail	168	1.9	118	5	22	16	2	-	5	-	-	-
Norfolk Southern Corp.	578	6.6	298	14	-	97	106	48	14	-	-	1
Paducah & Louisville	11	0.1	7	-	-	-	4	-	-	-	-	-
Port Auth Trans Hudson	145	1.6	99	-	9	29	-	4	4	-	-	-
Peninsula Comm San Mateo Cnty	39	0.4	16	-	5	11	6	-	1	-	-	-
Port Terminal RR Assn	23	0.3	22	-	-	-	1	-	-	-	-	-
Southern CA Reg Rail Auth.	78	0.9	3	-	58	-	1	13	3	-	-	-
Southeastern PA Trans.	366	4.2	192	1	71	99	2	-	1	-	-	-
Term RR Assn Of St. Louis	3	0.0	1	-	-	2	-	-	-	-	-	-
Union Pacific	1,335	15.1	874	46	-	162	187	46	14	-	-	6
Union RR (Pittsburgh)	7	0.1	7	-	-	-	-	-	-	-	-	-
Wheeling & Lake Erie	4	0.0	2	-	-	-	1	-	-	-	-	1
Wisconsin & Southern RR	24	0.3	21	1	-	2	-	-	-	-	-	-
Total	8,815	100	4,938	165	1,262	1,294	692	199	237	4	3	21

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, 2008

			Type Person codes									
	Total	%	A	B	C	D	E	F	G	H	I	J
Alabama	130	1.5	75	1	2	29	18	2	3	-	-	-
Alaska	89	1.0	87	-	2	-	-	-	-	-	-	-
Arizona	114	1.3	67	4	11	10	22	-	-	-	-	-
Arkansas	137	1.6	95	8	2	18	10	4	-	-	-	-
California	687	7.8	291	9	180	61	87	22	35	-	-	2
Colorado	122	1.4	89	2	13	4	14	-	-	-	-	-
Connecticut	74	0.8	46	3	18	3	4	-	-	-	-	-
Delaware	55	0.6	39	1	6	5	4	-	-	-	-	-
Dist Of Columbia	99	1.1	47	4	37	10	1	-	-	-	-	-
Florida	163	1.8	53	5	36	27	31	6	5	-	-	-
Georgia	147	1.7	83	-	14	28	17	3	2	-	-	-
Idaho	53	0.6	42	1	1	3	1	3	2	-	-	-
Illinois	858	9.7	407	14	189	144	40	21	40	1	-	2
Indiana	189	2.1	109	4	10	32	24	6	-	-	2	2
Iowa	156	1.8	107	8	4	20	13	2	2	-	-	-
Kansas	152	1.7	112	5	3	8	18	2	4	-	-	-
Kentucky	108	1.2	73	-	3	12	14	3	2	1	-	-
Louisiana	151	1.7	87	3	6	31	17	5	1	-	-	1
Maine	16	0.2	15	-	-	-	1	-	-	-	-	-
Maryland	101	1.1	66	-	19	10	6	-	-	-	-	-
Massachusetts	341	3.9	129	2	179	17	11	1	2	-	-	-
Michigan	136	1.5	78	1	9	19	6	22	1	-	-	-
Minnesota	173	2.0	117	8	5	14	13	2	13	-	-	1
Mississippi	112	1.3	37	2	32	32	8	-	1	-	-	-
Missouri	173	2.0	106	5	14	23	5	12	8	-	-	-
Montana	129	1.5	103	-	11	4	5	1	3	-	-	2
Nebraska	196	2.2	148	10	6	18	10	1	3	-	-	-
Nevada	33	0.4	20	-	3	4	6	-	-	-	-	-
New Hampshire	4	0.0	2	-	1	-	1	-	-	-	-	-
New Jersey	368	4.2	243	7	37	54	7	9	6	-	-	5
New Mexico	60	0.7	34	-	8	3	8	5	2	-	-	-
New York	932	10.6	404	10	181	266	19	4	46	-	1	1
North Carolina	120	1.4	49	1	19	19	28	2	1	-	-	1
North Dakota	72	0.8	52	1	8	5	4	-	2	-	-	-
Ohio	170	1.9	103	4	7	17	31	7	-	-	-	1
Oklahoma	86	1.0	45	1	-	27	9	3	1	-	-	-
Oregon	94	1.1	44	1	19	10	10	6	4	-	-	-
Pennsylvania	618	7.0	339	8	88	143	19	13	8	-	-	-
Rhode Island	16	0.2	9	1	2	2	1	-	1	-	-	-
South Carolina	52	0.6	16	1	7	11	15	2	-	-	-	-
South Dakota	31	0.4	22	1	-	2	6	-	-	-	-	-
Tennessee	117	1.3	72	1	2	19	12	2	9	-	-	-
Texas	550	6.2	336	12	13	76	77	21	12	-	-	3
Utah	41	0.5	26	1	5	3	4	1	1	-	-	-
Vermont	30	0.3	26	2	-	1	1	-	-	-	-	-
Virginia	132	1.5	69	2	30	17	11	2	1	-	-	-
Washington	170	1.9	117	3	14	14	10	1	10	1	-	-
West Virginia	64	0.7	47	-	-	6	8	2	1	-	-	-
Wisconsin	100	1.1	76	1	6	11	3	1	1	1	-	-
Wyoming	94	1.1	79	7	-	2	2	-	4	-	-	-
Total	8,815	100.0	4,938	165	1,262	1,294	692	199	237	4	3	21

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, 2008

Condition	Cnt	%	Type of Person *									
			A	B	C	D	E	F	G	H	I	J
Bruise/contusion	1,700	17.7	686	33	448	323	137	39	32	-	1	1
Occ. Illness	270	2.8	266	-	-	-	-	2	2	-	-	-
Crushing injury	102	1.1	62	-	2	11	18	5	3	-	1	-
Sprain/Str., other	106	1.1	45	2	19	29	6	2	3	-	-	-
Sprain/Str.,arm/hand	278	2.9	229	3	16	14	2	7	7	-	-	-
Sprain/Str.,leg/foot	877	9.1	647	22	87	88	6	11	16	-	-	-
Sprain/Str.,head/face	249	2.6	159	7	27	36	9	6	4	-	-	1
Sprain/Str.,torso	1,504	15.6	1,160	35	110	125	12	19	41	-	-	2
Cut/abrasion	1,284	13.4	541	18	229	281	121	49	43	-	-	2
Puncture wound	67	0.7	53	3	2	2	2	1	3	-	1	-
Needle stick	9	0.1	8	-	-	-	-	-	1	-	-	-
Electric shock/burn	39	0.4	28	1	-	2	3	2	3	-	-	-
Other burn	64	0.7	56	-	6	-	-	-	2	-	-	-
Dislocation	72	0.7	44	2	10	6	2	4	4	-	-	-
Fracture,other	9	0.1	2	-	2	1	4	-	-	-	-	-
Fracture,arm/hand	292	3.0	164	5	22	45	22	12	19	3	-	-
Fracture,leg/foot	331	3.4	168	8	44	52	43	11	5	-	-	-
Fracture,head/face	72	0.7	22	1	19	16	11	1	2	-	-	-
Fracture,torso	170	1.8	49	5	33	44	29	7	3	-	-	-
Fracture,multiple	28	0.3	5	-	4	3	16	-	-	-	-	-
Rupture/tear, tendon, e	102	1.1	87	3	6	2	2	2	-	-	-	-
Gunshot/knife wound	4	0.0	2	-	1	1	-	-	-	-	-	-
Animal/snake/insect bit	88	0.9	65	8	12	1	-	-	2	-	-	-
Dental related	52	0.5	30	4	11	5	1	-	1	-	-	-
Amputation,other	4	0.0	1	-	-	-	3	-	-	-	-	-
Amputation,arm/hand	35	0.4	16	-	1	1	12	3	1	1	-	-
Amputation,leg/foot	66	0.7	4	-	1	2	58	1	-	-	-	-
Amputation,head/face	1	0.0	-	-	-	1	-	-	-	-	-	-
Amputation,torso	1	0.0	-	-	-	-	1	-	-	-	-	-
Fatality	802	8.3	25	-	24	151	597	3	2	-	-	-
Object in eye	105	1.1	95	1	-	1	-	2	6	-	-	-
Hernia	28	0.3	24	-	1	-	-	1	2	-	-	-
Concussion	107	1.1	24	1	36	23	19	1	3	-	-	-
Nervous shock	4	0.0	2	-	2	-	-	-	-	-	-	-
Internal injury	83	0.9	12	-	24	22	21	3	1	-	-	-
Skin reaction	24	0.2	21	-	1	-	-	1	-	-	-	1
One-time exp. to noise	10	0.1	8	-	1	-	-	-	-	-	-	1
Unspecified injury	472	4.9	60	3	79	156	132	7	24	-	-	11
One-time exp.-fumes	106	1.1	93	-	6	1	-	-	4	-	-	2
Total	9,617	100.0	4,963	165	1,286	1,445	1,289	202	239	4	3	21

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

TABLE 3-7 TOTAL CASUALTIES BY AGE OF INDIVIDUAL AND TYPE OF PERSON, 2008

Age	Total		Type of Person *										
	Cnt	%	A	B	C	D	E	F	G	H	I	J	
Kld	Unk	72	0.7	-	-	-	5	67	-	-	-	-	-
	1-5	7	0.1	-	-	-	2	5	-	-	-	-	-
	6-10	5	0.1	-	-	-	4	1	-	-	-	-	-
	11-15	21	0.2	-	-	-	6	15	-	-	-	-	-
	16-20	90	0.9	-	-	5	21	64	-	-	-	-	-
	21-25	77	0.8	1	-	-	10	66	-	-	-	-	-
	26-30	71	0.7	4	-	-	13	54	-	-	-	-	-
	31-35	57	0.6	4	-	2	8	42	1	-	-	-	-
	36-40	66	0.7	2	-	1	13	49	-	1	-	-	-
	41-45	64	0.7	2	-	1	10	49	1	1	-	-	-
	46-50	92	1.0	3	-	3	9	77	-	-	-	-	-
	51-55	51	0.5	4	-	4	9	34	-	-	-	-	-
	56-60	51	0.5	4	-	5	15	27	-	-	-	-	-
	> 60	78	0.8	1	-	3	26	47	1	-	-	-	-
Total	802	8.3	25	-	24	151	597	3	2	-	-	-	
Nonfatal	Unk	663	6.9	-	-	331	211	72	8	40	-	-	1
	1-5	47	0.5	-	-	22	18	7	-	-	-	-	-
	6-10	33	0.3	-	-	14	14	5	-	-	-	-	-
	11-15	54	0.6	-	-	11	19	23	-	-	-	1	-
	16-20	206	2.1	34	-	17	64	75	9	5	1	-	1
	21-25	523	5.4	262	5	23	90	96	27	18	-	-	2
	26-30	720	7.5	465	11	47	68	69	28	30	-	-	2
	31-35	819	8.5	554	13	42	80	55	36	35	-	-	4
	36-40	936	9.7	664	22	55	81	61	25	24	-	-	4
	41-45	916	9.5	623	17	70	105	45	27	28	-	-	1
	46-50	970	10.1	646	23	96	106	62	13	21	-	1	2
	51-55	1,139	11.8	835	36	110	79	38	15	24	-	-	2
	56-60	930	9.7	663	28	100	98	25	9	7	-	-	-
	> 60	859	8.9	192	10	324	261	59	2	5	3	1	2
Total	8,815	91.7	4,938	165	1,262	1,294	692	199	237	4	3	21	
Total	9,617	100.0	4,963	165	1,286	1,445	1,289	202	239	4	3	21	

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

TABLE 3-8 TOTAL CASUALTIES BY MONTH AND TYPE PERSON, 2008

Month	Total	Type of Person *										
	Cnt	A	B	C	D	E	F	G	H	I	J	
Kld	January	52	1	-	-	15	36	-	-	-	-	-
	February	49	2	-	-	6	40	-	1	-	-	-
	March	52	3	-	-	5	43	1	-	-	-	-
	April	61	-	-	-	12	49	-	-	-	-	-
	May	78	4	-	-	15	59	-	-	-	-	-
	June	78	3	-	-	16	58	-	1	-	-	-
	July	69	1	-	-	13	55	-	-	-	-	-
	August	96	3	-	-	19	73	1	-	-	-	-
	September	88	3	-	24	9	52	-	-	-	-	-
	October	64	2	-	-	15	46	1	-	-	-	-
	November	67	1	-	-	16	50	-	-	-	-	-
	December	48	2	-	-	10	36	-	-	-	-	-
	Total	802	25	-	24	151	597	3	2	-	-	-
Nonfatal	January	678	417	21	64	88	50	14	23	-	-	1
	February	712	411	18	90	101	56	18	17	1	-	-
	March	875	426	13	227	110	53	14	24	-	-	8
	April	675	426	5	60	95	53	11	23	1	-	1
	May	774	405	12	134	120	73	14	13	1	-	2
	June	762	447	21	98	100	59	20	16	-	-	1
	July	819	451	13	105	119	72	22	33	-	2	2
	August	738	420	9	107	123	47	16	15	-	-	1
	September	750	410	15	137	94	53	21	20	-	-	-
	October	743	428	16	87	105	62	20	23	1	-	1
	November	619	345	9	71	119	52	11	12	-	-	-
	December	670	352	13	82	120	62	18	18	-	1	4
	Total	8,815	4,938	165	1,262	1,294	692	199	237	4	3	21
Total	9,617	4,963	165	1,286	1,445	1,289	202	239	4	3	21	

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, 2008**

Time	Total		Type of Person *										
	Cnt	%	A	B	C	D	E	F	G	H	I	J	
AM	1	239	2.5	122	8	12	23	60	6	7	-	-	1
	2	253	2.6	144	5	15	12	70	2	5	-	-	-
	3	202	2.1	117	4	9	10	54	4	4	-	-	-
	4	157	1.6	102	4	8	13	25	2	3	-	-	-
	5	175	1.8	99	5	16	14	33	1	5	-	-	2
	6	234	2.4	119	16	28	43	23	2	3	-	-	-
	7	438	4.6	198	11	88	88	38	7	6	-	-	2
	8	599	6.2	350	7	73	92	41	15	20	-	-	1
	9	543	5.6	331	4	52	80	42	16	17	-	-	1
	10	712	7.4	479	6	48	93	36	19	28	2	1	-
	11	650	6.8	409	3	65	78	51	19	25	-	-	-
	12	245	2.5	113	8	26	25	61	4	8	-	-	-
Total	4,447	46.2	2,583	81	440	571	534	97	131	2	1	7	
PM	1	557	5.8	303	6	64	109	40	19	14	-	-	2
	2	545	5.7	314	8	38	84	67	14	13	-	1	6
	3	507	5.3	235	17	49	120	57	14	13	1	-	1
	4	552	5.7	191	5	180	76	74	8	18	-	-	-
	5	591	6.1	185	3	236	80	76	4	5	1	-	1
	6	429	4.5	189	10	58	95	65	7	5	-	-	-
	7	343	3.6	154	3	44	59	71	6	5	-	1	-
	8	300	3.1	142	3	26	51	64	6	7	-	-	1
	9	266	2.8	129	4	27	38	58	2	8	-	-	-
	10	250	2.6	116	8	22	30	63	7	4	-	-	-
	11	250	2.6	113	4	31	31	63	4	3	-	-	1
	12	580	6.0	309	13	71	101	57	14	13	-	-	2
Total	5,170	53.8	2,380	84	846	874	755	105	108	2	2	14	
Total	9,617	100	4,963	165	1,286	1,445	1,289	202	239	4	3	21	

*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*

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*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 considered in the work environment while:

1. Engaged in work activity or apprenticeship/vocational training required by the employer;
2. On break, in the rest room, or in storage areas when located on the employer's premises;
3. 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. 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. Engaged in work activity where a vehicle is considered the work environment (e.g., truck, taxi);
6. At conferences where attendance is expected or required by the employer; and
7. Occupying living quarters provided by the employer on workplace premises. Also:
 - a. In these workplaces, injuries or illnesses are presumed to be work-related if the employee is on-duty or engaged in a work activity.
 - b. 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.
 - c. 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, non-trespassers 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; and
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, 2008

Condition	Total		Days Absent			Absent Cases 1/		Term./ Trans. 2/	Days Restricted			Hazmat Exp. 3/
	Cnt	%	Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.		Cnt
Bruise/contusion	686	13.8	30,732	13.3	45	500	15.1	2	5,382	14.6	8	1
Occ. Illness	266	5.4	4,073	1.8	15	62	1.9	-	249	0.7	1	-
Crushing injury	62	1.2	2,641	1.1	43	40	1.2	-	465	1.3	8	-
Sprain/Str., other	45	0.9	3,046	1.3	68	41	1.2	-	858	2.3	19	-
Sprain/Str.,arm/hand	229	4.6	11,026	4.8	48	162	4.9	-	3,309	9.0	14	-
Sprain/Str.,leg/foot	647	13.0	35,671	15.5	55	513	15.5	-	6,112	16.5	9	-
Sprain/Str.,head/face	159	3.2	8,755	3.8	55	109	3.3	-	1,085	2.9	7	1
Sprain/Str.,torso	1,160	23.4	68,944	29.9	59	880	26.6	4	9,296	25.2	8	1
Cut/abrasion	541	10.9	9,480	4.1	18	254	7.7	2	2,266	6.1	4	-
Puncture wound	53	1.1	1,181	0.5	22	28	0.8	-	63	0.2	1	-
Needle stick	8	0.2	9	0.0	1	2	0.1	-	0	0.0	0	-
Electric shock/burn	28	0.6	558	0.2	20	21	0.6	-	114	0.3	4	-
Other burn	56	1.1	1,284	0.6	23	26	0.8	-	138	0.4	2	2
Dislocation	44	0.9	2,574	1.1	59	31	0.9	-	411	1.1	9	1
Fracture,other	2	0.0	183	0.1	92	2	0.1	-	0	0.0	0	-
Fracture,arm/hand	164	3.3	9,556	4.1	58	119	3.6	-	3,021	8.2	18	-
Fracture,leg/foot	168	3.4	17,086	7.4	102	157	4.8	2	1,339	3.6	8	-
Fracture,head/face	22	0.4	1,140	0.5	52	19	0.6	1	171	0.5	8	1
Fracture,torso	49	1.0	3,833	1.7	78	43	1.3	-	516	1.4	11	-
Fracture,multiple	5	0.1	691	0.3	138	5	0.2	-	0	0.0	0	-
Rupture/tear, tendon, etc	87	1.8	6,178	2.7	71	70	2.1	-	1,224	3.3	14	-
Gunshot/knife wound	2	0.0	188	0.1	94	2	0.1	-	0	0.0	0	-
Animal/snake/insect bite	65	1.3	368	0.2	6	20	0.6	-	25	0.1	0	-
Dental related	30	0.6	189	0.1	6	4	0.1	-	0	0.0	0	-
Amputation,other	1	0.0	17	0.0	17	1	0.0	-	2	0.0	2	-
Amputation,arm/hand	16	0.3	815	0.4	51	10	0.3	-	344	0.9	22	-
Amputation,leg/foot	4	0.1	579	0.3	145	4	0.1	-	0	0.0	0	-
Fatality	25	0.5	0	0.0	0	-	-	1	0	0.0	0	-
Object in eye	95	1.9	94	0.0	1	26	0.8	-	1	0.0	0	1
Hernia	24	0.5	1,603	0.7	67	22	0.7	-	322	0.9	13	-
Concussion	24	0.5	1,192	0.5	50	20	0.6	-	80	0.2	3	-
Nervous shock	2	0.0	180	0.1	90	1	0.0	-	0	0.0	0	-
Internal injury	12	0.2	1,245	0.5	104	11	0.3	-	33	0.1	3	-
Skin reaction	21	0.4	70	0.0	3	9	0.3	-	2	0.0	0	8
One-time exp. to noise	8	0.2	207	0.1	26	6	0.2	-	0	0.0	0	-
Unspecified injury	60	1.2	3,798	1.6	63	43	1.3	-	22	0.1	0	1
One-time exp.-fumes	93	1.9	1,484	0.6	16	40	1.2	-	81	0.2	1	32
Total	4,963	100	230,670	100	46	3,303	100	12	36,931	100	7	49

TABLE 4-2 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY RAILROAD, 2008

RR	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./Trans.	Days Restricted			Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%		Cnt	%	Avg.		Cnt
ALS	7	0.1	-	0.0	7	0.1	89	0.0	13	3	0.1	-	33	0.1	5	-
ARR	73	1.5	-	0.0	73	1.5	540	0.2	7	32	1.0	-	95	0.3	1	1
ATK	523	10.5	1	4.0	522	10.6	23,196	10.1	44	283	8.6	-	2,996	8.1	6	-
BNSF	832	16.8	2	8.0	830	16.8	44,551	19.3	54	584	17.7	3	5,081	13.8	6	12
BRC	9	0.2	-	0.0	9	0.2	44	0.0	5	2	0.1	-	26	0.1	3	-
CN	176	3.5	1	4.0	175	3.5	10,141	4.4	58	136	4.1	-	433	1.2	2	14
CP	123	2.5	-	0.0	123	2.5	7,401	3.2	60	84	2.5	1	862	2.3	7	-
CRSH	17	0.3	-	0.0	17	0.3	1,234	0.5	73	14	0.4	-	0	0.0	0	-
CSX	384	7.7	4	16.0	380	7.7	29,171	12.6	76	299	9.1	2	387	1.0	1	4
FEC	2	0.0	-	0.0	2	0.0	78	0.0	39	1	0.0	-	3	0.0	2	-
GRS	10	0.2	-	0.0	10	0.2	248	0.1	25	8	0.2	-	0	0.0	0	-
IAIS	21	0.4	-	0.0	21	0.4	1,326	0.6	63	18	0.5	-	8	0.0	0	-
IHB	15	0.3	-	0.0	15	0.3	1,598	0.7	107	12	0.4	-	0	0.0	0	-
KCS	35	0.7	-	0.0	35	0.7	447	0.2	13	9	0.3	-	1,682	4.6	48	-
LI	159	3.2	-	0.0	159	3.2	2,978	1.3	19	144	4.4	-	4,087	11.1	26	-
MACZ	1	0.0	-	0.0	1	0.0	0	0.0	0	-	-	-	10	0.0	10	-
MBTA	73	1.5	-	0.0	73	1.5	949	0.4	13	56	1.7	-	72	0.2	1	-
MMA	12	0.2	-	0.0	12	0.2	37	0.0	3	9	0.3	-	96	0.3	8	-
MNCW	122	2.5	-	0.0	122	2.5	4,130	1.8	34	50	1.5	-	939	2.5	8	-
MRL	32	0.6	1	4.0	31	0.6	943	0.4	29	21	0.6	-	712	1.9	22	-
NICD	7	0.1	-	0.0	7	0.1	13	0.0	2	3	0.1	-	99	0.3	14	-
NIRC	85	1.7	1	4.0	84	1.7	3,714	1.6	44	60	1.8	-	356	1.0	4	-
NJTR	120	2.4	2	8.0	118	2.4	6,299	2.7	52	107	3.2	-	0	0.0	0	-
NS	299	6.0	1	4.0	298	6.0	28,566	12.4	96	242	7.3	-	101	0.3	0	6
PAL	7	0.1	-	0.0	7	0.1	307	0.1	44	3	0.1	-	43	0.1	6	1
PATH	99	2.0	-	0.0	99	2.0	1,124	0.5	11	94	2.8	-	0	0.0	0	1
PCMZ	16	0.3	-	0.0	16	0.3	238	0.1	15	7	0.2	-	238	0.6	15	-
PTRA	22	0.4	-	0.0	22	0.4	513	0.2	23	21	0.6	-	0	0.0	0	-
SCAX	4	0.1	1	4.0	3	0.1	216	0.1	54	3	0.1	-	129	0.3	32	-
SEPA	192	3.9	-	0.0	192	3.9	7,591	3.3	40	142	4.3	-	3	0.0	0	3
TRRA	1	0.0	-	0.0	1	0.0	180	0.1	180	1	0.0	-	180	0.5	180	-
UP	881	17.8	7	28.0	874	17.7	44,832	19.4	51	522	15.8	4	11,742	31.8	13	6
URR	7	0.1	-	0.0	7	0.1	56	0.0	8	2	0.1	-	531	1.4	76	-
WE	2	0.0	-	0.0	2	0.0	26	0.0	13	2	0.1	-	20	0.1	10	-
WSOR	22	0.4	1	4.0	21	0.4	185	0.1	8	14	0.4	-	320	0.9	15	-
XXXX	573	11.5	3	12.0	570	11.5	7,709	3.3	13	315	9.5	2	5,647	15.3	10	1
Tot.	4,963	100	25	100	4,938	100	230,670	100	46	3,303	100	12	36,931	100	7	49

XXXX = All other railroads

TABLE 4-3 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, BY STATE, 2008

	Total		Deaths		Nonfatal		Days Absent			Absent Cases		Term./	Days Restricted			Hazmat
	Cnt	%	Cnt	%	Cnt	%	Cnt	%	Avg.	Cnt	%	Trans.	Cnt	%	Avg.	Cnt
AL	76	1.5	1	4.0	75	1.5	4,267	1.8	56	58	1.8	1	1,613	4.4	21	-
AK	87	1.8	-	0.0	87	1.8	568	0.2	7	44	1.3	-	95	0.3	1	1
AZ	67	1.3	-	0.0	67	1.4	2,100	0.9	31	51	1.5	-	654	1.8	10	-
AR	95	1.9	-	0.0	95	1.9	4,998	2.2	53	61	1.8	-	467	1.3	5	1
CA	293	5.9	2	8.0	291	5.9	12,678	5.5	43	172	5.2	4	3,171	8.6	11	3
CO	90	1.8	1	4.0	89	1.8	2,182	0.9	24	40	1.2	-	373	1.0	4	-
CT	46	0.9	-	0.0	46	0.9	2,085	0.9	45	23	0.7	-	197	0.5	4	2
DE	39	0.8	-	0.0	39	0.8	1,293	0.6	33	18	0.5	-	156	0.4	4	-
DC	47	0.9	-	0.0	47	1.0	2,104	0.9	45	24	0.7	-	228	0.6	5	-
FL	53	1.1	-	0.0	53	1.1	3,484	1.5	66	30	0.9	-	173	0.5	3	-
GA	83	1.7	-	0.0	83	1.7	5,957	2.6	72	65	2.0	-	300	0.8	4	-
ID	42	0.8	-	0.0	42	0.9	2,109	0.9	50	25	0.8	-	680	1.8	16	-
IL	410	8.3	3	12.0	407	8.2	20,836	9.0	51	269	8.1	-	2,279	6.2	6	4
IN	110	2.2	1	4.0	109	2.2	6,413	2.8	58	73	2.2	-	1,001	2.7	9	-
IA	107	2.2	-	0.0	107	2.2	4,482	1.9	42	79	2.4	-	1,033	2.8	10	-
KS	113	2.3	1	4.0	112	2.3	4,572	2.0	40	68	2.1	1	1,543	4.2	14	-
KY	73	1.5	-	0.0	73	1.5	5,807	2.5	80	57	1.7	-	67	0.2	1	5
LA	87	1.8	-	0.0	87	1.8	4,948	2.1	57	59	1.8	-	1,152	3.1	13	-
ME	15	0.3	-	0.0	15	0.3	89	0.0	6	11	0.3	-	148	0.4	10	-
MD	67	1.3	1	4.0	66	1.3	3,466	1.5	52	48	1.5	-	357	1.0	5	-
MA	129	2.6	-	0.0	129	2.6	2,858	1.2	22	87	2.6	1	169	0.5	1	-
MI	78	1.6	-	0.0	78	1.6	3,802	1.6	49	52	1.6	-	75	0.2	1	2
MN	117	2.4	-	0.0	117	2.4	3,699	1.6	32	64	1.9	1	589	1.6	5	1
MS	37	0.7	-	0.0	37	0.7	2,991	1.3	81	25	0.8	-	219	0.6	6	-
MO	107	2.2	1	4.0	106	2.1	4,231	1.8	40	56	1.7	2	1,416	3.8	13	-
MT	104	2.1	1	4.0	103	2.1	4,866	2.1	47	69	2.1	-	981	2.7	9	-
NE	148	3.0	-	0.0	148	3.0	6,928	3.0	47	93	2.8	-	1,081	2.9	7	-
NV	20	0.4	-	0.0	20	0.4	1,498	0.6	75	14	0.4	-	365	1.0	18	-
NH	2	0.0	-	0.0	2	0.0	1	0.0	1	1	0.0	-	0	0.0	0	-
NJ	245	4.9	2	8.0	243	4.9	8,611	3.7	35	207	6.3	-	212	0.6	1	2
NM	34	0.7	-	0.0	34	0.7	1,355	0.6	40	26	0.8	-	469	1.3	14	1
NY	405	8.2	1	4.0	404	8.2	13,777	6.0	34	290	8.8	-	5,549	15.0	14	-
NC	51	1.0	2	8.0	49	1.0	2,836	1.2	56	35	1.1	1	45	0.1	1	-
ND	52	1.0	-	0.0	52	1.1	2,458	1.1	47	33	1.0	-	204	0.6	4	1
OH	103	2.1	-	0.0	103	2.1	6,736	2.9	65	79	2.4	-	140	0.4	1	-
OK	48	1.0	3	12.0	45	0.9	2,096	0.9	44	30	0.9	-	501	1.4	10	-
OR	44	0.9	-	0.0	44	0.9	1,908	0.8	43	27	0.8	-	340	0.9	8	1
PA	340	6.9	1	4.0	339	6.9	16,130	7.0	47	230	7.0	-	917	2.5	3	3
RI	9	0.2	-	0.0	9	0.2	582	0.3	65	7	0.2	-	36	0.1	4	-
SC	16	0.3	-	0.0	16	0.3	1,011	0.4	63	10	0.3	-	13	0.0	1	2
SD	22	0.4	-	0.0	22	0.4	691	0.3	31	13	0.4	-	18	0.0	1	1
TN	72	1.5	-	0.0	72	1.5	5,743	2.5	80	60	1.8	-	94	0.3	1	1
TX	339	6.8	3	12.0	336	6.8	20,868	9.0	62	239	7.2	1	3,143	8.5	9	8
UT	26	0.5	-	0.0	26	0.5	319	0.1	12	10	0.3	-	715	1.9	28	-
VT	26	0.5	-	0.0	26	0.5	443	0.2	17	10	0.3	-	842	2.3	32	-
VA	69	1.4	-	0.0	69	1.4	4,737	2.1	69	50	1.5	-	86	0.2	1	1
WA	117	2.4	-	0.0	117	2.4	5,406	2.3	46	75	2.3	-	1,185	3.2	10	3
WV	47	0.9	-	0.0	47	1.0	3,253	1.4	69	31	0.9	-	24	0.1	1	3
WI	77	1.6	1	4.0	76	1.5	3,138	1.4	41	55	1.7	-	672	1.8	9	3
WY	79	1.6	-	0.0	79	1.6	3,260	1.4	41	50	1.5	-	1,144	3.1	14	-
Tot.	4,963	100	25	100	4,938	100	230,670	100	46	3,303	100	12	36,931	100	7	49

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2008

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Adjusting coupler	14	0.3	1,008	0.4	11	0.3	-	92	0.2	1
Adjusting drawbar	14	0.3	978	0.4	11	0.3	-	40	0.1	-
Adjusting, other	44	0.9	2,248	1.0	27	0.8	-	421	1.1	-
Applying rail anchor/fastener	15	0.3	419	0.2	8	0.2	1	228	0.6	-
Bending, stooping	85	1.7	3,274	1.4	50	1.5	-	697	1.9	-
Carrying	38	0.8	1,465	0.6	26	0.8	-	194	0.5	-
Chaining, cabling car or locomotiv	4	0.1	197	0.1	3	0.1	-	14	0.0	-
Cleaning	48	1.0	1,541	0.7	30	0.9	-	154	0.4	2
Climbing over/on	74	1.5	3,254	1.4	56	1.7	-	469	1.3	-
Closing	52	1.0	2,238	1.0	40	1.2	-	353	1.0	-
Coupling electric cables	7	0.1	471	0.2	6	0.2	-	69	0.2	-
Coupling air hose	41	0.8	1,545	0.7	26	0.8	-	97	0.3	3
Crossing over	15	0.3	1,069	0.5	13	0.4	-	154	0.4	-
Crossing between	3	0.1	127	0.1	1	0.0	-	40	0.1	-
Cutting rail	10	0.2	317	0.1	7	0.2	-	56	0.2	-
Cutting vegetation	17	0.3	151	0.1	9	0.3	-	53	0.1	-
Cutting, other	51	1.0	329	0.1	18	0.5	-	123	0.3	-
Digging, excavating	17	0.3	613	0.3	11	0.3	-	177	0.5	-
Driving (motor vehicle, forklift,	122	2.5	3,823	1.7	68	2.1	2	870	2.4	-
Flagging	6	0.1	541	0.2	6	0.2	-	20	0.1	-
Fueling	5	0.1	50	0.0	4	0.1	-	51	0.1	2
Getting on	66	1.3	3,652	1.6	58	1.8	1	806	2.2	-
Getting off	148	3.0	8,038	3.5	112	3.4	-	1,591	4.3	-
Grinding	18	0.4	34	0.0	3	0.1	-	68	0.2	-
Handling baggage	9	0.2	480	0.2	8	0.2	-	40	0.1	-
Handling car parts	20	0.4	433	0.2	15	0.5	-	255	0.7	-
Handling material, general	51	1.0	2,238	1.0	31	0.9	-	261	0.7	-
Handling locomotive parts	18	0.4	761	0.3	9	0.3	-	283	0.8	-
Handling wheels/trucks	3	0.1	72	0.0	3	0.1	-	0	0.0	-
Handling, other	62	1.2	1,884	0.8	35	1.1	-	487	1.3	1
Handling other track material/supp	26	0.5	395	0.2	16	0.5	-	137	0.4	-
Handling tie plates	13	0.3	624	0.3	8	0.2	-	55	0.1	-
Handling ties	21	0.4	759	0.3	15	0.5	-	228	0.6	-
Handling rail	23	0.5	725	0.3	16	0.5	-	124	0.3	-
Inspecting	48	1.0	1,588	0.7	30	0.9	-	144	0.4	1
Installing	58	1.2	1,585	0.7	32	1.0	-	437	1.2	-
Jumping from	29	0.6	1,923	0.8	23	0.7	-	178	0.5	-
Jumping onto	3	0.1	186	0.1	2	0.1	-	8	0.0	-
Laying	6	0.1	360	0.2	4	0.1	-	1	0.0	-
Lifting other material	81	1.6	2,824	1.2	52	1.6	-	1,005	2.7	-
Lifting equipment (tools, parts, e	84	1.7	3,445	1.5	59	1.8	1	744	2.0	-
Lining switches	133	2.7	9,827	4.3	115	3.5	-	731	2.0	1
Lining, other	4	0.1	167	0.1	4	0.1	-	92	0.2	-
Loading/unloading	40	0.8	1,091	0.5	27	0.8	-	466	1.3	-
Maintaining	68	1.4	2,198	1.0	40	1.2	-	336	0.9	-
Opening	72	1.5	2,503	1.1	56	1.7	-	474	1.3	-
Opening/closing angle cock	13	0.3	401	0.2	9	0.3	-	1	0.0	-
Operating	152	3.1	9,924	4.3	102	3.1	2	930	2.5	4
Pulling pin lifter/operating uncou	54	1.1	1,881	0.8	40	1.2	1	517	1.4	1
Pulling	97	2.0	4,148	1.8	67	2.0	-	889	2.4	-
Pushing	29	0.6	1,328	0.6	17	0.5	-	499	1.4	-
Reaching	41	0.8	1,877	0.8	26	0.8	-	418	1.1	-
Removing rail anchors/fasteners	21	0.4	580	0.3	10	0.3	-	175	0.5	-
Repairing	108	2.2	2,696	1.2	57	1.7	-	857	2.3	-
Riding	286	5.8	18,669	8.1	211	6.4	2	1,382	3.7	7

TABLE 4-4 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY ACTIVITY, 2008

Activity	Total		Days Absent		Absent Cases		Term./Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Running	17	0.3	1,291	0.6	14	0.4	-	78	0.2	-
Sitting	201	4.0	11,762	5.1	132	4.0	1	1,017	2.8	2
Spiking (installation/removal)	55	1.1	1,545	0.7	34	1.0	-	374	1.0	-
Standing	357	7.2	9,668	4.2	142	4.3	-	1,121	3.0	9
Stepping up	41	0.8	1,330	0.6	28	0.8	-	750	2.0	-
Stepping down	151	3.0	9,067	3.9	114	3.5	-	1,642	4.4	-
Stepping over	22	0.4	1,545	0.7	18	0.5	-	620	1.7	-
Uncoupling air hose	7	0.1	100	0.0	5	0.2	-	4	0.0	-
Uncoupling electric cables	1	0.0	8	0.0	1	0.0	-	19	0.1	-
Using hand tool	118	2.4	2,769	1.2	56	1.7	-	1,823	4.9	-
Using, other	19	0.4	541	0.2	8	0.2	-	11	0.0	-
Walking	774	15.6	44,708	19.4	571	17.3	1	6,179	16.7	9
Welding (includes field welding)	28	0.6	935	0.4	15	0.5	-	180	0.5	2
Handbrakes, applying	72	1.5	5,329	2.3	62	1.9	-	501	1.4	-
Handbrakes, releasing	73	1.5	5,404	2.3	62	1.9	-	571	1.5	-
Handbrakes, other	4	0.1	433	0.2	4	0.1	-	34	0.1	-
Derail, applying	4	0.1	408	0.2	4	0.1	-	0	0.0	-
Derail, removing	2	0.0	169	0.1	2	0.1	-	0	0.0	-
Derail, other	1	0.0	0	0.0	-	-	-	0	0.0	-
Other (Narrative must be provided)	111	2.2	1,557	0.7	57	1.7	-	490	1.3	2
Replacing	41	0.8	1,577	0.7	24	0.7	-	226	0.6	1
Ascending	28	0.6	1,789	0.8	22	0.7	-	154	0.4	1
Descending	93	1.9	6,457	2.8	80	2.4	-	988	2.7	-
Exercising	4	0.1	242	0.1	2	0.1	-	1	0.0	-
Getting in	8	0.2	91	0.0	5	0.2	-	49	0.1	-
Getting out	33	0.7	1,581	0.7	20	0.6	-	364	1.0	-
Hauling	1	0.0	11	0.0	1	0.0	-	2	0.0	-
Moving	39	0.8	2,239	1.0	26	0.8	-	296	0.8	-
Washing	2	0.0	185	0.1	2	0.1	-	0	0.0	-
Servicing	20	0.4	1,028	0.4	11	0.3	-	157	0.4	-
Sanding	5	0.1	199	0.1	4	0.1	-	8	0.0	-
Arresting/apprehending/subduing	14	0.3	569	0.2	13	0.4	-	133	0.4	-
Stepped on	25	0.5	996	0.4	19	0.6	-	148	0.4	-
Lying down	5	0.1	183	0.1	2	0.1	-	0	0.0	-
Total	4,963	100	230,670	100	3,303	100	12	36,931	100	49

TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2008

Event	Total		Days Absent		Absent Cases		Term./	Days		Hazmat
	Cnt	%	Cnt	%	Cnt	%	Trans.	Cnt	%	Exp.
Aggravated pre-existing condition	71	1.4	4,069	1.8	54	1.6	-	726	2.0	1
Apprehending/removing from property	12	0.2	532	0.2	11	0.3	-	187	0.5	-
Assaulted by other	24	0.5	789	0.3	20	0.6	-	194	0.5	-
Assaulted by coworker	4	0.1	22	0.0	2	0.1	-	0	0.0	-
Bitten/stung by bee, spider, other insect	57	1.1	437	0.2	18	0.5	-	7	0.0	-
Bitten by animal	9	0.2	54	0.0	3	0.1	-	18	0.0	-
Bodily function/sudden movement, e.g.,sneez	136	2.7	6,814	3.0	106	3.2	-	1,329	3.6	-
Caught in/compressed by hand tools	18	0.4	215	0.1	5	0.2	-	272	0.7	-
Caught in/compressed by other machinery	22	0.4	603	0.3	10	0.3	1	0	0.0	-
Caught in/crushed by materials	29	0.6	767	0.3	19	0.6	1	225	0.6	-
Caught in/crushed in excavation, land slide	1	0.0	180	0.1	1	0.0	-	0	0.0	-
Caught in/compressed by powered hand tools	1	0.0	122	0.1	1	0.0	-	0	0.0	-
Cave in, slide, etc.	2	0.0	206	0.1	2	0.1	-	34	0.1	-
Climatic conditions, other (e.g., high wind	19	0.4	192	0.1	10	0.3	-	98	0.3	-
Climatic condition, exposure to environment	22	0.4	277	0.1	10	0.3	-	1	0.0	-
Collision - between on track equipment	87	1.8	7,802	3.4	72	2.2	1	204	0.6	1
Collision/impact - auto, truck, bus, van, e	196	3.9	8,148	3.5	127	3.8	1	1,159	3.1	-
Defective/malfunctioning equipment	68	1.4	4,788	2.1	51	1.5	-	407	1.1	-
Derailment	51	1.0	3,396	1.5	40	1.2	-	888	2.4	-
Electrical shock while operating welding e	2	0.0	8	0.0	2	0.1	-	0	0.0	-
Electrical shock due to contact with 3rd ra	4	0.1	21	0.0	4	0.1	-	0	0.0	-
Electrical shock, other (explain in narrati	10	0.2	311	0.1	8	0.2	-	70	0.2	-
Electrical shock from hand tool	2	0.0	7	0.0	1	0.0	-	0	0.0	-
Exposure to fumes - inhalation	102	2.1	1,254	0.5	45	1.4	-	84	0.2	36
Exposure to chemicals - external	24	0.5	62	0.0	10	0.3	-	0	0.0	9
Exposure to poisonous plants	6	0.1	5	0.0	2	0.1	-	0	0.0	-
Exposure to noise over time	161	3.2	10	0.0	1	0.0	-	0	0.0	-
Exposure to noise - single incident	10	0.2	269	0.1	7	0.2	-	0	0.0	-
Exposure to welding light	4	0.1	185	0.1	4	0.1	-	0	0.0	-
Highway-rail collision/impact	74	1.5	5,588	2.4	53	1.6	-	766	2.1	-
Horseplay, practical joke, etc.	2	0.0	17	0.0	1	0.0	-	22	0.1	-
Lost balance	143	2.9	9,259	4.0	120	3.6	-	1,687	4.6	-
Missed handhold, grabiron, step, etc.	33	0.7	2,412	1.0	29	0.9	-	580	1.6	-
Needle puncture/prick/stick	11	0.2	181	0.1	2	0.1	-	0	0.0	-
Other impacts - on track equipment	17	0.3	1,420	0.6	13	0.4	-	46	0.1	-
Overexertion	679	13.7	39,337	17.1	526	15.9	-	5,817	15.8	1
Pushed/shoved into/against	15	0.3	906	0.4	12	0.4	-	36	0.1	1
Pushed/shoved onto	9	0.2	470	0.2	7	0.2	-	777	2.1	-
Pushed/shoved from	17	0.3	1,274	0.6	14	0.4	-	64	0.2	-
Ran into on-track equipment	5	0.1	176	0.1	2	0.1	-	9	0.0	-
Ran into object/equipment	21	0.4	970	0.4	10	0.3	1	11	0.0	-
Repetitive motion - work processes	66	1.3	3,720	1.6	46	1.4	-	194	0.5	-
Repetitive motion - typing, keyboard, etc.	3	0.1	164	0.1	3	0.1	-	0	0.0	-
Repetitive motion - tools	23	0.5	459	0.2	12	0.4	-	457	1.2	-
Repetitive motion - other (describe in narr	7	0.1	161	0.1	5	0.2	1	181	0.5	-
Rubbed, abraded, etc.	20	0.4	139	0.1	9	0.3	-	6	0.0	-
Slack action, draft, compressive buff/coupl	34	0.7	3,034	1.3	31	0.9	-	178	0.5	-
Slipped,fell,stumbled,etc. due to irregular	158	3.2	8,110	3.5	120	3.6	-	1,288	3.5	-
Slipped, fell, stumbled, etc. due to climat	184	3.7	9,826	4.3	144	4.4	-	1,587	4.3	-
Slipped,fell,stumbled,etc. on oil, grease,e	72	1.5	4,315	1.9	56	1.7	-	670	1.8	-
Slipped,fell,stumbled,etc. due to object,ba	248	5.0	14,794	6.4	192	5.8	-	2,681	7.3	-
Stabbing, knifing, etc.	12	0.2	30	0.0	4	0.1	-	2	0.0	-
Stepped on object	64	1.3	3,991	1.7	57	1.7	-	519	1.4	-
Struck by thrown or propelled object	71	1.4	1,285	0.6	29	0.9	1	450	1.2	-
Struck by object	275	5.5	7,683	3.3	141	4.3	-	1,582	4.3	-

TABLE 4-5 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY EVENT, 2008

Event	Total		Days Absent		Absent Cases		Term./ Trans.	Days Restricted		Hazmat Exp.
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Struck by on-track equipment	58	1.2	5,122	2.2	46	1.4	-	390	1.1	-
Struck by falling object	89	1.8	2,650	1.1	61	1.8	1	557	1.5	-
Struck against object	131	2.6	4,497	1.9	74	2.2	1	818	2.2	-
Sudden release of air	12	0.2	396	0.2	8	0.2	-	5	0.0	-
Sudden/unexpected movement of material	41	0.8	1,797	0.8	29	0.9	-	273	0.7	-
Sudden/unexpected movement of on-track equ	67	1.3	4,637	2.0	45	1.4	-	982	2.7	-
Sudden/unexpected movement of vehicle	33	0.7	1,770	0.8	25	0.8	1	208	0.6	-
Sustained viewing	4	0.1	269	0.1	4	0.1	-	0	0.0	-
Caught, crushed, pinched, other	187	3.8	6,602	2.9	117	3.5	-	1,974	5.3	-
On track equipment, other incidents	29	0.6	1,855	0.8	22	0.7	-	193	0.5	-
Slipped, fell, stumbled, other	378	7.6	23,130	10.0	296	9.0	2	3,059	8.3	-
Sudden, unexpected movement, other	95	1.9	5,240	2.3	73	2.2	-	637	1.7	-
Bumped	23	0.5	704	0.3	11	0.3	-	21	0.1	-
Burned	42	0.8	1,243	0.5	21	0.6	-	188	0.5	-
Blowing/falling debris	57	1.1	257	0.1	15	0.5	-	1	0.0	-
Sudden/Unexpected Movement of tools	61	1.2	1,405	0.6	26	0.8	-	516	1.4	-
Struck by Own Remote Control Locomotive	2	0.0	27	0.0	1	0.0	-	0	0.0	-
Caught Between Machinery	1	0.0	180	0.1	1	0.0	-	0	0.0	-
Slack adjustment during switching operation	11	0.2	920	0.4	7	0.2	-	152	0.4	-
Caught Between Equipment	10	0.2	662	0.3	5	0.2	-	8	0.0	-
Caught Between Material	19	0.4	684	0.3	12	0.4	-	280	0.8	-
Other (describe in narrative)	196	3.9	5,357	2.3	120	3.6	-	1,156	3.1	-
Total	4,963	100	230,670	100	3,303	100	12	36,931	100	49

TABLE 4-6 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY BY LOCATION, 2008

Location	Total		Days Absent		Absent Cases		Term./ Trans. Cnt	Days Restricted		Hazmat Exp. Cnt
	Cnt	%	Cnt	%	Cnt	%		Cnt	%	
Main/branch	1,520	30.6	76,552	33.2	1,036	31.4	4	12,036	32.6	5
Yard	1,434	28.9	79,226	34.3	1,031	31.2	3	10,067	27.3	17
Siding	156	3.1	9,632	4.2	121	3.7	-	1,267	3.4	2
Industry	227	4.6	10,624	4.6	161	4.9	1	2,900	7.9	16
Repair	114	2.3	2,862	1.2	61	1.8	-	1,199	3.2	1
Break/lunch room	31	0.6	1,880	0.8	24	0.7	-	142	0.4	-
Freight terminal	37	0.7	1,784	0.8	26	0.8	2	305	0.8	4
Highway/roadway	231	4.7	9,299	4.0	155	4.7	1	1,069	2.9	-
Loading dock	10	0.2	425	0.2	4	0.1	-	223	0.6	-
Office environment	93	1.9	2,513	1.1	51	1.5	-	536	1.5	-
Parking lot	72	1.5	2,217	1.0	35	1.1	-	456	1.2	-
Passenger terminal	324	6.5	8,690	3.8	151	4.6	-	937	2.5	1
Repair shop	485	9.8	17,713	7.7	310	9.4	1	3,242	8.8	3
Storage facility	43	0.9	1,804	0.8	27	0.8	-	605	1.6	-
Sidewalk/walkway	26	0.5	1,047	0.5	19	0.6	-	194	0.5	-
Other, (off site location	46	0.9	1,068	0.5	22	0.7	-	581	1.6	-
Other (explain in narrati	26	0.5	658	0.3	21	0.6	-	820	2.2	-
Other location (describe	88	1.8	2,676	1.2	48	1.5	-	352	1.0	-
Total	4,963	100	230,670	100	3,303	100	12	36,931	100	49

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2008

Executives, Officials, and Staff Assistants

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Executives, officials, and staff assistants (miscellaneous)	-	2	-	30	0
Corporate staff managers	-	3	-	4	0
Regional/division officers, assistants and staff assistants	-	10	-	5	1
Transportation officers/managers	-	7	2	335	0
Total	-	22	2	374	1

Professional and Administrative

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Professional and administrative (miscellaneous)	-	6	-	340	0
Professional	-	6	-	61	0
Subprofessionals	-	10	-	7	18
General and administrative supervisors	-	8	-	71	0
Sales and traffic representatives and agents	-	7	-	192	0
Freight and other claim agents and investigators	-	2	-	0	0
Supervising and chief claim agents	-	1	-	0	0
Lieutenants and sergeants of police	1	4	-	13	1
Police officers, watchmen, guards (except crossing & bridge)	-	52	-	2,940	292
Inspectors, (except MOW & MOE), other investigators, etc	-	2	1	6	3
Clerical technicians and clerical specialists	-	14	3	641	130
Office machine and data equipment operators	-	1	-	1	0
Secretaries, stenographers, and typists	-	1	2	5	0
General/other clerks (except yd clerk and crew dispatcher)	-	42	1	1,404	76
Telephone and switchboard operators	-	2	-	1	4
Building and office attendants	-	12	-	230	6
Messengers and office persons	-	2	-	184	1
Motor vehicle operators	-	33	8	2,379	288
Total	1	205	15	8,475	819

Maintenance of Way and Structures

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of way and structures (miscellaneous)	-	31	2	538	48
Supervisors, MOW, structures, communication & signals	-	40	1	1,506	618
MOW, structures, comm. & signals, & scale inspectors	-	33	5	1,153	128
Bridge and building gang foreman	-	22	7	1,047	22
Bridge and building carpenters	-	28	3	1,365	488
Bridge and building ironworkers	-	10	1	561	231
Bridge and building painters	-	5	-	177	12
Masons, bricklayers, plasterers, and plumbers	1	71	7	2,202	546
Bridge and building helpers and apprentices	-	8	1	212	0
Bridge/building gang and bridge/building dept laborers	1	38	3	2,012	454
Track gang foremen (extra gang work train laborers)	1	47	4	2,457	325
Gang or section foreman	-	75	4	2,060	794
Extra gang laborers	-	87	21	2,938	675
Section laborers	-	267	14	8,838	2,253
Machine operators	2	211	8	8,910	1,728
Gang foremen, communications and signals	-	30	4	1,033	508

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2008

Signalmen and signal maintainers	2	149	4	6,047	1,235
Linemen and groundmen and communications craftsman	-	38	1	462	166
Assistant signalmen and assistant signal maintainers	-	15	2	322	104
Signal helpers and signal maintainer helpers	1	5	-	432	0
Camp car cooks	-	7	-	546	56
Total	8	1,217	92	44,818	10,391

Maintenance of Equipment and Stores

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Maintenance of equipment and stores (miscellaneous)	-	21	-	323	46
Supervisors and general foremen, maintenance of equipment	-	13	1	739	50
Supervisors and general foremen, materials and stores	-	4	1	7	50
Equipment, shop, electrical inspectors	-	7	2	151	13
Materials and supplies inspectors	-	1	-	221	0
Storekeeper	-	21	-	924	178
Gang foremen, maintenance of equipment	-	24	2	1,543	202
Blacksmiths	-	2	-	4	0
Boilermakers	-	12	-	524	69
Carmen (freight)	-	182	3	8,800	2,429
Carmen (other)	-	136	9	4,989	1,202
Electrical workers (A)	-	121	11	6,154	1,060
Electrical workers (B)	1	7	2	447	0
Machinists	-	171	18	7,296	1,754
Sheet metal workers	-	30	4	596	333
Skilled trades, helpers, maintenance of equipment and stores	-	48	2	1,271	102
Apprentices, maintenance of equipment and stores	-	10	-	72	1
Coach cleaners	-	65	1	1,969	383
Laborers: shops, enginehouses and power plants	-	75	-	2,092	521
Gang foremen, materials and stores	-	3	-	346	0
Equipment operators/general laborers, materials and stores	-	14	9	287	112
Stationary engineers	-	4	-	218	5
Stationary firemen	-	1	-	2	0
Total	1	972	65	38,975	8,510

Transportation, Other Than Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, other than train and engine (miscellaneous)	-	2	-	10	0
Transportation supervisor and chief train dispatcher	-	5	-	44	96
Train dispatchers	-	6	1	35	9
Station, freight and passenger agents	-	5	1	203	0
Clerk operators, towerman, train directors	-	3	1	222	0
Baggage, parcel room and station attendents	-	6	-	130	12
Gen/asst gnrl foremen,stations,warehouses,grain elev., docks	-	1	-	0	0
Gang foreman, stations, warehouses, grain elevators, docks	-	1	-	1	0
Grain elevator, and dock laborers	-	6	1	661	57
Station, and warehouse laborers	-	11	-	399	27
Truckers (station, warehouse and platforms)	-	8	-	149	182
Waiters and kitchen helpers (restaurant and dining car)	-	1	-	4	0
Chefs and cooks (restaurant and dining car)	-	6	-	180	1
Marine officers and workers and shore workers	-	2	-	180	0
Train attendants	-	68	-	3,734	605
Bridge operators and helpers	-	1	-	38	0
Bridge and crossing flagmen and gatemen	-	2	-	2	0

TABLE 4-7 REPORTABLE CONDITIONS TO EMPLOYEE ON DUTY, 2008

Transportation, Other Than Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Yards clerks	-	17	-	901	365
Crew dispatchers	-	1	-	0	0
Yardmasters and assistant yardmasters	-	10	1	229	2
Total	-	162	5	7,122	1,356

Transportation, Train and Engine

Job Titles	---Total---			---- Days ----	
	Killed	Injured	Illness	Absent From Work	Restricted At Work
Transportation, train and engine (miscellaneous)	-	39	2	2,293	209
Switchtenders	1	19	-	1,074	517
Car retarder operators and ground service employees	-	1	1	87	0
Outside hostlers	-	9	-	407	0
Outside hostler helpers	-	2	-	192	2
Road passenger conductors	-	180	14	7,562	1,448
Assistant road passenger conductors and ticket collectors	-	51	4	3,188	154
Road freight conductors (through freight)	4	403	5	28,971	3,145
Road freight conductors (local and way freight)	3	188	5	12,223	1,005
Road Passenger brakemen and flagmen	1	15	1	309	298
Road freight brakemen and flagmen (through freight)	1	67	-	2,886	997
Road freight brakemen and flagmen (local and way freight)	1	92	1	5,864	484
Yard conductors and yard foremen	1	241	-	14,703	1,438
Yard brakemen and yard helpers	1	168	6	10,562	1,347
Road passenger engineers and motormen	1	72	33	3,772	569
Road freight engineers (through freight)	1	242	7	18,338	1,693
Road freight engineers (local and way freight)	-	85	-	6,714	285
Yard engineers	-	98	7	6,745	651
Road passenger firemen and helpers	-	2	-	0	0
Road freight firemen and helpers (through freight)	-	1	-	0	69
Road freight firemen and helpers (local and way freight)	-	1	-	0	9
Yard firemen and helpers	-	1	-	2	0
Remote control locomotive operator -operating	-	70	1	3,163	999
Remote control locomotive operator - not operating	-	47	-	1,851	535
Total	15	2,094	87	130,906	15,854

TABLE 4-8 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, 2008

Illness	Total			Days Absent	Term./ Cases	Days Trans.	Days Restricted	Hazmat Exp.	
	Cnt	%	Kld Nonfatal						
Dermatitis	3	1.1	-	3	2	1	-	0	-
Rashes	1	0.4	-	1	0	-	-	0	-
Misc. skin diseases/disorders	1	0.4	-	1	1	1	-	0	-
Acute congestion, dust/gas/etc.	3	1.1	-	3	7	3	-	0	-
Misc. respiratory conditions	1	0.4	-	1	3	1	-	0	-
Poisoning, gases	1	0.4	-	1	0	-	-	0	-
Heat/sun stroke	2	0.8	-	2	32	1	-	0	-
Heat exhaustion	18	6.8	-	18	32	5	-	1	-
Freezing/frostbite	2	0.8	-	2	31	2	-	0	-
Misc. disorders, physical agents	1	0.4	-	1	0	-	-	0	-
Noise induced hearing loss	160	60.2	-	160	0	-	-	0	-
Synovitis	7	2.6	-	7	413	6	-	100	-
Tenosynovitis	15	5.6	-	15	501	8	-	77	-
Bursitis	3	1.1	-	3	269	2	-	20	-
Carpal tunnel syndrome	11	4.1	-	11	885	11	-	21	-
Misc. repeated trauma condition	12	4.5	-	12	684	8	-	30	-
Stress related syndromes	6	2.3	-	6	573	6	-	0	-
Misc. illnesses, unclassified	6	2.3	-	6	0	-	-	0	-
Emotional trauma/nervous shock	13	4.9	-	13	640	7	-	0	-
Total	266	100	-	266	4,073	62	-	249	-

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

2/ Term = terminated, Trans = transferred

3/ Condition was the result of a hazardous material exposure

TABLE 4-9 OCCUPATIONAL ILLNESSES OF EMPLOYEE ON DUTY, BY RAILROAD, 2008

RR	Total			Days Absent			Absent Cases		Term./	Days			Hazmat	
	Cnt	%	Kld Nonfatal	Cnt	%	Avg.	Cnt	%	Trans.	Cnt	%	Avg.	Exp. Cnt	
ARR	33	12.4	-	33	81	2.0	2	4	6.5	-	44	17.7	1	-
ATK	144	54.1	-	144	725	17.8	5	10	16.1	-	0	0.0	0	-
BNSF	29	10.9	-	29	1,468	36.0	51	21	33.9	-	182	73.1	6	-
CN	2	0.8	-	2	8	0.2	4	1	1.6	-	0	0.0	0	-
CSX	10	3.8	-	10	264	6.5	26	3	4.8	-	0	0.0	0	-
IHB	1	0.4	-	1	23	0.6	23	1	1.6	-	0	0.0	0	-
KCS	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
LI	1	0.4	-	1	32	0.8	32	1	1.6	-	0	0.0	0	-
MBTA	2	0.8	-	2	2	0.0	1	2	3.2	-	0	0.0	0	-
MNCW	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
NIRC	3	1.1	-	3	158	3.9	53	1	1.6	-	20	8.0	7	-
NJTR	3	1.1	-	3	230	5.6	77	3	4.8	-	0	0.0	0	-
NS	2	0.8	-	2	185	4.5	93	2	3.2	-	0	0.0	0	-
PAL	1	0.4	-	1	0	0.0	0	-	-	-	0	0.0	0	-
PATH	1	0.4	-	1	3	0.1	3	1	1.6	-	0	0.0	0	-
UP	21	7.9	-	21	888	21.8	42	9	14.5	-	1	0.4	0	-
XXXX	11	4.1	-	11	6	0.1	1	3	4.8	-	2	0.8	0	-
Tot.	266	100	-	266	4,073	100	15	62	100	-	249	100	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

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 F6180.54. The reporting threshold for calendar years (CY) 1992–1996 was \$6300. The reporting threshold for CY 1998 was \$6600; CY 2005, \$6700; CY 2006, \$7700; CY 2007, \$8200; and CY 2008, \$8,500.

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 and bulldozers, (2) services of contractors to replace or repair the track right-of-way and associated structures, and (3) 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 wheelset changeout.)

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 railroads involved. When total reportable damage (for 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 by railroad show the number of events that a railroad was involved in, regardless of whether 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, whether there is agreement on the cause of the accident or not.

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

In joint operations, if the railroad having track maintenance responsibility did not also have on-track 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 on-track equipment are included in reportable damage.

A railroad need not report the following:

1. Cars derailed on industry tracks by non-railroad employees or non-railroad employee vandalism, providing there is no involvement of railroad employees;
2. Damage to out-of-service cars resulting from high water or flooding, e.g., empties placed on storage or repair track. This exclusion does not apply if such cars are placed into a moving consist and, as a result of this damage, a reportable rail equipment accident results.

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

Car. A unit of on-track equipment, either:

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

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

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

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

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

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

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

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

and upkeep trains run in connection with maintenance and improvement work; and material and supply trains run in connection with operations.

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TABLE 5-1 TRAIN ACCIDENTS BY RR, TYPE AND MAJOR CAUSE, 2008

Railroad	Total		Type of Accident				Reportable Damage	Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr		Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Alton & Southern	10	0.3	-	8	-	2	368,064	-	-	-	-	3	5	2	-
Alaska RR Corp.	2	0.1	-	1	-	1	53,000	-	-	-	-	2	-	-	-
Amtrak	125	4.4	1	44	31	49	7,876,468	8	124	31	31	27	12	-	24
Burlington Northern Santa Fe	632	22.0	27	461	41	103	92,597,460	2	35	84	41	239	79	7	182
Belt Rwy Of Chicago	13	0.5	2	11	-	-	453,762	-	-	1	-	4	4	-	4
Canadian National	103	3.6	16	51	10	26	6,583,017	4	8	6	10	52	7	1	27
Canadian Pacific	62	2.2	2	49	3	8	16,343,054	-	5	7	3	18	8	-	26
Conrail Shared Assets	26	0.9	6	18	1	1	1,129,758	-	-	-	1	16	1	-	8
CSX Transportation	326	11.4	50	216	18	42	30,517,458	1	21	42	18	104	43	8	111
Florida East Coast	2	0.1	-	1	-	1	38,231	-	-	-	-	-	1	-	1
Guilford Rail System	4	0.1	-	4	-	-	125,420	-	-	1	-	-	-	-	3
Other Railroads	320	11.1	18	263	9	30	26,318,064	2	27	22	9	95	32	-	162
Indiana Harbor Belt	15	0.5	2	10	-	3	352,793	-	-	-	-	8	3	1	3
Kansas City Southern	75	2.6	4	49	7	15	11,409,954	1	9	5	7	21	9	1	32
Long Island Rail Road	13	0.5	4	3	-	6	3,255,593	-	8	-	-	8	3	1	1
MD Assn. of Rail Comm	3	0.1	1	1	-	1	215,644	-	8	-	-	2	1	-	-
Mass Bay Transit Auth.	3	0.1	-	2	-	1	1,352,396	-	152	-	-	-	1	-	2
Montreal, Maine & Atlantic	5	0.2	-	3	-	2	142,135	-	-	2	-	1	1	-	1
Metro North Commuter	25	0.9	1	2	2	20	428,209	-	-	7	2	5	3	-	8
Montana Rail Link	28	1.0	3	19	1	5	5,286,426	-	1	5	1	14	1	-	7
Northern IN Comm Trans	2	0.1	-	2	-	-	79,963	-	-	-	-	1	-	-	1
Northeast IL Reg Comm	6	0.2	-	3	-	3	156,078	-	3	1	-	2	3	-	-
New Jersey Transit Rail	29	1.0	-	14	-	15	2,128,142	-	-	4	-	17	1	-	7
Norfolk Southern Corp.	272	9.5	30	173	19	50	16,241,605	2	19	29	19	105	38	9	72
Paducah & Louisville	7	0.2	2	5	-	-	714,839	-	-	1	-	2	1	-	3
Port Auth Trans Hudson	2	0.1	-	1	-	1	227,578	-	2	-	-	1	1	-	-
Peninsula Comm San Mateo Cnty	4	0.1	-	1	3	-	172,648	1	-	-	3	-	-	-	1
Port Terminal RR Assn	3	0.1	2	1	-	-	55,700	-	-	-	-	3	-	-	-
Southern CA Reg Rail Auth.	10	0.3	2	2	5	1	9,464,857	26	59	-	5	4	1	-	-
Southeastern PA Trans.	7	0.2	-	2	-	5	114,271	-	-	4	-	-	1	-	2
Term RR Assn Of St. Louis	6	0.2	1	5	-	-	774,372	-	-	-	-	3	1	-	2
Union Pacific	711	24.8	30	486	74	121	75,979,100	7	40	82	74	212	92	22	229
Wheeling & Lake Erie	15	0.5	2	13	-	-	886,340	-	-	2	-	4	1	-	8
Wisconsin & Southern RR	5	0.2	-	5	-	-	68,272	-	-	-	-	1	-	-	4

TABLE 5-2 TRAIN ACCIDENTS BY STATE, TYPE AND MAJOR CAUSE, 2008

State	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Accs	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Alabama	65	2.5	9	47	2	7	2,941,485	0.9	1	1	7	2	29	7	1	19
Alaska	2	0.1	-	1	-	1	53,000	0.0	-	-	-	-	2	-	-	-
Arizona	30	1.1	2	24	-	4	5,191,931	1.7	-	1	6	-	6	4	-	14
Arkansas	75	2.8	7	51	10	7	5,543,631	1.8	-	6	7	10	13	12	2	31
California	139	5.3	5	87	21	26	24,603,986	7.9	27	132	12	21	55	14	4	33
Colorado	49	1.9	3	30	4	12	6,255,234	2.0	1	2	4	4	19	7	-	15
Connecticut	16	0.6	1	3	1	11	522,136	0.2	-	-	1	1	4	3	-	7
Delaware	4	0.2	-	3	-	1	114,700	0.0	-	-	1	-	-	-	-	3
Dist Of Columbi	20	0.8	1	13	-	6	2,616,706	0.8	-	20	3	-	14	1	-	2
Florida	28	1.1	1	19	6	2	2,231,721	0.7	1	5	1	6	4	5	-	12
Georgia	59	2.2	6	42	4	7	3,715,265	1.2	-	2	9	4	20	5	1	20
Idaho	26	1.0	2	20	1	3	2,655,429	0.9	-	1	5	1	10	1	1	8
Illinois	193	7.3	16	139	7	31	20,312,056	6.5	-	28	15	7	84	28	4	55
Indiana	68	2.6	16	36	5	11	5,217,412	1.7	3	7	6	5	22	15	4	16
Iowa	77	2.9	5	54	9	9	22,439,932	7.2	2	11	4	9	25	8	-	31
Kansas	93	3.5	5	70	5	13	14,515,824	4.7	1	3	15	5	24	14	-	35
Kentucky	41	1.6	4	35	1	1	5,488,205	1.8	-	4	10	1	7	4	-	19
Louisiana	83	3.1	9	51	10	13	7,513,046	2.4	1	16	3	10	29	5	2	34
Maine	6	0.2	-	4	-	2	178,291	0.1	-	-	2	-	1	1	-	2
Maryland	27	1.0	2	7	1	17	729,814	0.2	-	2	8	1	4	7	1	6
Massachusetts	18	0.7	-	11	-	7	1,717,128	0.6	-	152	4	-	5	1	-	8
Michigan	39	1.5	4	28	5	2	2,399,297	0.8	1	5	5	5	13	3	-	13
Minnesota	67	2.5	1	49	2	15	10,899,670	3.5	-	2	7	2	23	13	3	19
Mississippi	37	1.4	4	20	3	10	5,136,616	1.6	1	39	2	3	15	4	1	12
Missouri	82	3.1	3	66	1	12	15,406,121	4.9	-	2	12	1	24	9	-	36
Montana	52	2.0	4	33	2	13	10,945,878	3.5	-	1	9	2	22	6	-	13
Nebraska	97	3.7	-	64	5	28	13,053,362	4.2	1	3	10	5	41	14	3	24
Nevada	13	0.5	-	12	-	1	5,342,593	1.7	-	-	3	-	4	1	-	5
New Jersey	48	1.8	4	27	-	17	3,356,896	1.1	-	2	6	-	30	1	-	11
New Mexico	23	0.9	1	20	1	1	2,564,391	0.8	1	1	4	1	11	1	-	6
New York	79	3.0	17	31	1	30	7,226,739	2.3	-	10	13	1	31	15	4	15
North Carolina	32	1.2	5	17	5	5	2,248,523	0.7	-	7	5	5	8	1	2	11
North Dakota	29	1.1	1	21	4	3	10,027,405	3.2	-	2	4	4	7	2	-	12
Ohio	99	3.8	8	73	3	15	6,539,259	2.1	1	5	12	3	33	13	4	34
Oklahoma	69	2.6	4	50	6	9	7,677,373	2.5	3	3	6	6	19	16	1	21
Oregon	32	1.2	1	24	1	6	2,915,415	0.9	2	-	2	1	10	5	2	12
Pennsylvania	75	2.8	3	53	1	18	4,113,332	1.3	-	5	13	1	22	8	-	31
Rhode Island	5	0.2	-	-	-	5	122,596	0.0	-	-	4	-	-	-	-	1
South Carolina	22	0.8	1	19	1	1	2,060,763	0.7	-	1	2	1	4	1	-	14
South Dakota	16	0.6	-	14	2	-	2,749,748	0.9	-	1	2	2	3	1	-	8
Tennessee	71	2.7	12	41	2	16	6,455,637	2.1	-	7	12	2	26	14	2	15
Texas	301	11.4	15	190	36	60	26,595,421	8.5	5	28	31	36	95	37	4	98
Utah	23	0.9	-	16	3	4	1,157,242	0.4	-	-	2	3	11	4	1	2
Vermont	3	0.1	-	3	-	-	928,947	0.3	-	-	1	-	-	1	-	1
Virginia	44	1.7	4	30	3	7	4,367,187	1.4	1	-	5	3	16	5	1	14
Washington	55	2.1	1	43	5	6	6,635,018	2.1	-	2	5	5	20	8	1	16
West Virginia	25	0.9	-	19	1	5	2,817,697	0.9	-	1	2	1	6	4	-	12
Wisconsin	38	1.4	-	26	3	9	2,684,812	0.9	1	-	5	3	12	4	-	14
Wyoming	43	1.6	1	36	1	5	10,925,801	3.5	-	1	11	1	12	4	2	13
Total	2,638	100	188	1,772	184	494	311,910,671	100.0	54	521	318	184	895	337	51	853

TABLE 5-3 TRAIN ACCIDENTS BY MONTH, TYPE AND MAJOR CAUSE, 2008

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
January	238	9.0	17	161	11	49	42,480,908	13.6	1	18	33	11	78	32	2	82
February	217	8.2	20	154	11	32	19,495,455	6.3	2	23	25	11	79	35	2	65
March	240	9.1	10	156	19	55	31,264,318	10.0	-	183	30	19	71	37	11	72
April	218	8.3	18	148	10	42	21,774,510	7.0	3	13	25	10	77	25	2	79
May	207	7.8	12	133	18	44	19,497,594	6.3	1	83	28	18	75	35	1	50
June	251	9.5	12	179	15	45	37,660,828	12.1	3	25	32	15	71	29	5	99
July	240	9.1	19	163	15	43	23,766,101	7.6	-	34	30	15	87	32	6	70
August	226	8.6	19	157	15	35	24,427,725	7.8	6	15	35	15	76	21	5	74
September	197	7.5	16	121	20	40	26,193,232	8.4	29	69	27	20	70	21	4	55
October	209	7.9	16	139	18	36	21,928,018	7.0	6	8	18	18	66	25	5	77
November	190	7.2	16	121	16	37	21,344,859	6.8	3	24	9	16	70	23	1	71
December	205	7.8	13	140	16	36	22,077,123	7.1	-	26	26	16	75	22	7	59
Total	2,638	100	188	1,772	184	494	311,910,671	100.0	54	521	318	184	895	337	51	853

TABLE 5-4 TRAIN ACCIDENTS BY DAY, TYPE AND MAJOR CAUSE, 2008

Day	Total		Type of Accident				Reportable Damage		Casualties		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Sunday	311	11.8	18	214	16	63	34,889,851	11.2	2	39	34	16	101	46	3	111
Monday	378	14.3	28	253	27	70	42,820,867	13.7	2	36	29	27	116	48	8	150
Tuesday	391	14.8	24	261	32	74	50,569,460	16.2	3	218	48	32	136	49	7	119
Wednesday	369	14.0	31	239	35	64	33,420,686	10.7	3	76	43	35	126	40	5	120
Thursday	394	14.9	24	272	28	70	47,902,511	15.4	8	32	60	28	121	49	8	128
Friday	414	15.7	31	278	25	80	50,526,251	16.2	33	102	53	25	143	59	8	126
Saturday	381	14.4	32	255	21	73	51,781,045	16.6	3	18	51	21	152	46	12	99
Total	2,638	100	188	1,772	184	494	311,910,671	100.0	54	521	318	184	895	337	51	853

TABLE 5-5 TRAIN ACCIDENTS BY TIME OF DAY, TYPE AND MAJOR CAUSE, 2008

Time	Total		Type of Accident				Reportable Damage		Casualties		Causes						
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk	
AM	1	116	4.4	7	87	-	22	10,717,901	3.4	1	1	17	-	45	18	3	33
	2	96	3.6	11	67	1	17	9,362,473	3.0	-	2	10	1	36	14	4	31
	3	114	4.3	10	75	3	26	16,937,813	5.4	-	12	17	3	41	18	2	33
	4	107	4.1	13	71	3	20	15,962,109	5.1	-	3	15	3	45	9	2	33
	5	122	4.6	7	90	4	21	23,001,620	7.4	-	4	13	4	38	24	4	39
	6	95	3.6	5	64	7	19	14,250,964	4.6	1	1	13	7	29	11	3	32
	7	85	3.2	8	48	9	20	12,330,437	4.0	1	25	15	9	30	9	1	21
	8	96	3.6	5	54	9	28	5,611,732	1.8	-	9	10	9	37	13	2	25
	9	126	4.8	9	77	13	27	17,720,855	5.7	3	7	10	13	41	25	3	34
	10	131	5.0	10	75	24	22	8,626,353	2.8	4	16	18	24	38	16	1	34
	11	148	5.6	12	93	12	31	13,462,064	4.3	-	33	19	12	59	14	3	41
	12	95	3.6	9	65	7	14	13,755,780	4.4	2	6	6	7	24	12	1	45
	Sub	1,331	50.5	106	866	92	267	161,740,101	51.9	12	119	163	92	463	183	29	401
PM	1	115	4.4	9	77	13	16	10,002,129	3.2	4	45	16	13	36	8	-	42
	2	127	4.8	3	95	14	15	11,250,698	3.6	-	17	12	14	37	9	-	55
	3	108	4.1	5	72	16	15	13,703,187	4.4	2	18	8	16	32	7	3	42
	4	123	4.7	11	81	10	21	21,834,714	7.0	26	110	18	10	35	14	2	44
	5	151	5.7	12	111	8	20	18,586,701	6.0	2	172	14	8	44	26	2	57
	6	105	4.0	6	65	4	30	9,245,661	3.0	-	4	17	4	31	18	2	33
	7	101	3.8	7	70	5	19	7,894,262	2.5	1	7	19	5	32	15	3	27
	8	97	3.7	4	69	4	20	12,619,291	4.0	-	5	15	4	40	9	2	27
	9	93	3.5	10	59	1	23	7,728,760	2.5	-	2	12	1	45	13	3	19
	10	88	3.3	4	68	5	11	9,627,553	3.1	4	5	8	5	26	11	1	37
	11	87	3.3	3	63	3	18	15,635,672	5.0	-	10	5	3	35	10	1	33
	12	112	4.2	8	76	9	19	12,041,942	3.9	3	7	11	9	39	14	3	36
	Sub	1,307	49.5	82	906	92	227	150,170,570	48.1	42	402	155	92	432	154	22	452
Total		2,638	100	188	1,772	184	494	311,910,671	100	54	521	318	184	895	337	51	853

TABLE 5-6 TRAIN ACCIDENTS BY TYPE AND MAJOR CAUSE, 2008

Type Accident	Total		Reportable Damage		Casualties		Causes					
	Cnt	%	Amount	%	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Derailments	1,772	67.2	238,981,334	76.6	-	38	236	-	469	218	28	821
Head on collision	9	0.3	11,807,340	3.8	25	74	-	-	9	-	-	-
Rear end collision	18	0.7	7,196,704	2.3	-	17	-	-	18	-	-	-
Side collision	120	4.5	8,970,072	2.9	1	13	1	-	101	9	4	5
Raking collision	39	1.5	1,489,220	0.5	-	2	2	-	34	2	1	-
Broken train coll.	2	0.1	182,546	0.1	-	2	2	-	-	-	-	-
Highway-rail Impact	184	7.0	13,700,573	4.4	27	190	-	184	-	-	-	-
Obstruction impact	49	1.9	2,274,057	0.7	1	6	4	-	8	36	-	1
Explosion/detonation	3	0.1	91,244	0.0	-	-	-	-	1	1	-	1
Fire/violent rupture	10	0.4	971,781	0.3	-	4	7	-	-	3	-	-
Other impacts	307	11.6	15,084,610	4.8	-	175	15	-	219	50	18	5
Other events	125	4.7	11,161,190	3.6	-	-	51	-	36	18	-	20
Total	2,638	100	311,910,671	100	54	521	318	184	895	337	51	853

TABLE 5-7 TRAIN ACCIDENTS BY SUBCAUSE AND TYPE, 2008

Causes	Total		Type of Accident				Reportable Damage		Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Kld	Nonfatal
Brakes	37	1.4	3	25	-	9	3,991,209	1.3	-	1
Body	21	0.8	-	14	-	7	1,293,238	0.4	-	2
Coupler & Draft System	33	1.3	1	21	-	11	6,395,375	2.1	-	5
Truck Components	67	2.5	-	67	-	-	10,847,856	3.5	-	-
Axles & Journal Bearings	44	1.7	-	43	-	1	7,344,267	2.4	-	-
Wheels	58	2.2	-	55	-	3	14,200,165	4.6	-	-
Locomotives	47	1.8	1	3	-	43	3,225,486	1.0	-	2
Doors	4	0.2	-	4	-	-	754,269	0.2	-	-
Other Mechanical	7	0.3	-	4	-	3	164,568	0.1	-	2
Brakes, Use of	85	3.2	19	27	-	39	4,637,880	1.5	-	13
Employee Physical Condition	3	0.1	-	1	-	2	47,247	0.0	-	-
Flagging, Fixed, Hand & Radio	35	1.3	14	10	-	11	20,313,864	6.5	25	73
General Switching Rules	331	12.5	66	132	-	133	14,017,938	4.5	1	6
Main Track Authority	16	0.6	5	3	-	8	2,112,555	0.7	-	7
Train Handling/Makeup	88	3.3	3	80	-	5	7,589,008	2.4	-	1
Speed	90	3.4	31	35	-	24	5,246,637	1.7	-	33
Switches, Use of	202	7.7	13	168	-	21	9,435,703	3.0	-	1
Cab Signals	2	0.1	1	-	-	1	47,249	0.0	-	1
Miscellaneous Human Factors	43	1.6	10	13	-	20	5,561,397	1.8	-	6
Environmental Conditions	58	2.2	1	47	-	10	16,786,481	5.4	-	3
Loading Procedures	34	1.3	2	29	-	3	4,828,259	1.5	-	-
Highway-Rail Incidents	185	7.0	-	-	184	1	13,714,932	4.4	27	190
Unusual Operational Situations	170	6.4	6	95	-	69	13,452,891	4.3	1	9
Other Miscellaneous Causes	74	2.8	2	47	-	25	11,625,853	3.7	-	157
Signal Defects	51	1.9	5	28	-	18	3,256,995	1.0	-	2
Roadbed	46	1.7	-	43	-	3	12,930,479	4.1	-	3
Track Geometry	326	12.4	-	323	-	3	27,715,192	8.9	-	-
Rail, Joint Bar & Anchors	294	11.1	1	293	-	-	79,835,388	25.6	-	2
Frogs, Switches, Appliances	152	5.8	4	146	-	2	8,032,378	2.6	-	1
Other Track Defects	35	1.3	-	16	-	19	2,505,912	0.8	-	1
Total	2,638	100	188	1,772	184	494	311,910,671	100.0	54	521

TABLE 5-8 TRAIN ACCIDENTS WITH CONTRIBUTING CAUSE, 2008

Contributing Cause	Total		Type of Accident				Type of Track			
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry
Brakes	6	1.9	1	3	-	2	1	4	-	1
Coupler & Draft System	3	1.0	-	2	-	1	-	3	-	-
Truck Components	7	2.3	-	7	-	-	2	5	-	-
Wheels	10	3.2	-	10	-	-	6	4	-	-
Doors	1	0.3	-	1	-	-	-	-	-	1
Other Mechanical	2	0.6	-	-	-	2	1	1	-	-
Brakes, Use of	8	2.6	2	2	-	4	2	5	-	1
Flagging, Fixed, Hand & Radio	9	2.9	4	-	-	5	4	5	-	-
General Switching Rules	40	13.0	7	13	-	20	2	32	1	5
Train Handling/Makeup	19	6.2	1	18	-	-	9	9	-	1
Speed	15	4.9	5	4	-	6	8	7	-	-
Switches, Use of	29	9.4	6	20	-	3	3	18	4	4
Miscellaneous Human Factors	2	0.6	1	1	-	-	1	1	-	-
Environmental Conditions	6	1.9	-	4	-	2	4	2	-	-
Loading Procedures	7	2.3	-	6	-	1	3	1	-	3
Highway-Rail Incidents	34	11.0	-	-	32	2	34	-	-	-
Unusual Operational Situations	9	2.9	1	7	-	1	5	4	-	-
Other Miscellaneous Causes	6	1.9	-	6	-	-	-	2	-	4
Signal Defects	2	0.6	-	1	-	1	1	1	-	-
Roadbed	11	3.6	-	11	-	-	7	2	-	2
Track Geometry	44	14.3	-	44	-	-	21	13	3	7
Rail, Joint Bar & Anchors	20	6.5	-	20	-	-	9	8	-	3
Frogs, Switches, Appliances	14	4.5	1	13	-	-	1	9	-	4
Other Track Defects	4	1.3	-	3	-	1	2	1	-	1
Total	308	100	29	196	32	51	126	137	8	37

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

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	1	0.0	-	1	-	-	1	-	598,259	-	-	
Failure to secure engine- rr empl	5	0.2	1	2	2	2	3	-	109,673	-	-	
Fail to secure car hnd brk -rr emp	32	1.2	8	9	15	4	24	4	1,445,300	-	1	
Fail to release hand brk - rr emp	8	0.3	-	7	1	4	4	-	558,884	-	-	
Fail to apply suff. hand brakes -rr emp	18	0.7	6	2	10	1	15	2	630,962	-	-	
Fail to apply car hnd brks -rr emp	15	0.6	4	2	9	4	11	-	1,024,290	-	-	
Fail to secure equip - not rr emp	1	0.0	-	1	-	-	-	1	9,000	-	-	
Fail to ctrl car spd use hnd brk-r emp	1	0.0	-	1	-	-	1	-	60,547	-	-	
Use of brakes, other	4	0.2	-	2	2	2	1	1	200,965	-	12	
Employee asleep	3	0.1	-	1	2	2	1	-	47,247	-	-	
Hand signal improper	1	0.0	-	-	1	-	1	-	12,431	-	-	
Radio communication, failure to comply	9	0.3	2	3	4	1	5	3	317,104	-	-	
Radio communication, improper	2	0.1	1	1	-	-	2	-	135,843	-	-	
Radio comm., failure to give/receive	3	0.1	-	-	3	1	2	-	74,674	-	-	
Failure to comply with failed equipment detector warning or with applicable train inspection rules.	1	0.0	-	1	-	1	-	-	81,000	-	-	
Fixed signal (other than automatic block or interlocking signal), improperly displayed.	1	0.0	-	1	-	-	1	-	18,185	-	-	
Fixed signal (other than automatic block or interlocking signal), failure to comply.	3	0.1	2	-	1	2	-	1	11,442,501	25	62	
Automatic block or interlocking signal displaying a stop indication - failure to comply.*	12	0.5	7	4	1	10	2	-	7,724,542	-	9	
Automatic block or interlocking signal displaying other than a stop indication - failure to comply.*	2	0.1	1	-	1	2	-	-	488,934	-	2	
Other signal causes	1	0.0	1	-	-	-	1	-	18,650	-	-	
Car(s) shoved out & left out of clear	2	0.1	-	-	2	-	2	-	22,273	-	-	
Cars left foul	37	1.4	8	1	28	2	33	2	1,385,537	1	1	
Derail, failure to apply or remove	25	0.9	-	25	-	1	19	5	1,165,135	-	-	
Instruction to trn/yd crew improper	12	0.5	2	5	5	3	8	1	236,815	-	1	
Shoving movement, absence of man	89	3.4	26	37	26	3	67	19	4,710,675	-	2	
Shoving movement, failure to control	65	2.5	20	29	16	4	54	7	3,510,663	-	2	
Skate, failure to remove or place	2	0.1	-	2	-	-	2	-	24,894	-	-	
Failure to stretch cars before shoving	7	0.3	2	3	2	-	6	1	308,962	-	-	
Failure to couple	12	0.5	1	4	7	1	9	2	348,742	-	-	
Moving cars-load ramp,etc, not in pos	3	0.1	-	-	3	-	-	3	84,000	-	-	
Passed couplers	24	0.9	-	14	10	-	22	2	501,645	-	-	
Retarder, improper manual operation	3	0.1	1	-	2	-	3	-	105,651	-	-	
Portable derail, improperly applied	1	0.0	-	1	-	-	1	-	62,000	-	-	
Manual intervention of classification yard automatic control system modes by operator	6	0.2	-	1	5	-	6	-	115,559	-	-	
Kicking or dropping cars, inadequate precautions	33	1.3	4	8	21	-	32	1	1,130,448	-	-	
Other general switching rules	10	0.4	2	2	6	-	10	-	304,939	-	-	
Failure to stop train in clear	2	0.1	2	-	-	1	1	-	389,339	-	3	
Motor car/on-trk rules, fail to comply	9	0.3	2	1	6	9	-	-	1,186,196	-	1	
Movement without authority - rr emp	3	0.1	-	2	1	1	2	-	497,949	-	-	
Fail to comply with trn order, etc.	1	0.0	1	-	-	1	-	-	22,000	-	3	
Trn orders, trk warrants, written err	1	0.0	-	-	1	-	1	-	17,071	-	-	
Improper train make-up at init term	1	0.0	-	1	-	-	1	-	10,794	-	-	
Buff/slack action excess, trn handling	27	1.0	2	24	1	9	16	2	3,076,674	-	-	
Buff/slack action excess, trn make-up	5	0.2	-	5	-	2	3	-	1,058,136	-	1	
Lat DB force on curve xcess trn hndng	6	0.2	-	6	-	1	4	1	502,392	-	-	

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

MAJOR CAUSE= Human Factors											
Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Lat DB force on curve excess, make-up	10	0.4	-	10	-	3	6	1	510,068	-	-
Lat drawbar force-short/long car combo	4	0.2	-	4	-	1	3	-	164,983	-	-
Improper train make-up	1	0.0	-	1	-	-	-	1	84,655	-	-
Automatic brake, insufficient	-	-	-	-	-	-	-	-	210,150	-	-
Automatic brake, excessive	2	0.1	-	2	-	-	2	-	117,025	-	-
Auto brake, fail to use split reduction	1	0.0	-	1	-	-	1	-	57,443	-	-
Automatic brake, other improper use	3	0.1	-	3	-	2	1	-	186,978	-	-
Fail to allow air brks to release	1	0.0	-	1	-	1	-	-	36,750	-	-
Fail to cut-in brake valves-loco	1	0.0	-	-	1	-	1	-	96,000	-	-
Dynamic brake, excessive	-	-	-	-	-	-	-	-	13,053	-	-
Dynamic brake, excessive axles	1	0.0	-	1	-	1	-	-	45,039	-	-
Dynamic brake, other improper use	2	0.1	-	2	-	1	1	-	38,802	-	-
Throttle (power), improper use	2	0.1	-	1	1	-	2	-	68,885	-	-
Excessive horsepower	7	0.3	-	7	-	3	2	2	504,850	-	-
Independent brake, improper use	7	0.3	-	7	-	2	5	-	380,895	-	-
Failure to actuate off independent brk	1	0.0	-	1	-	1	-	-	24,692	-	-
Other train handling/makeup	6	0.2	1	3	2	1	4	1	400,744	-	-
Coupling speed excessive	17	0.6	-	5	12	3	12	2	874,535	-	-
Switch movement, excessive speed	9	0.3	2	5	2	1	5	3	307,744	-	1
Train inside yard limits, excess speed	2	0.1	-	2	-	1	1	-	72,675	-	1
Failure to comply with restricted speed	11	0.4	5	3	3	8	3	-	895,595	-	1
Train outside yd limits(nonblk),exc spd	1	0.0	-	1	-	-	1	-	15,384	-	-
Failure to comply with restricted speed or its equivalent not in connection with a block or interlocking signal.	47	1.8	23	17	7	8	37	2	2,711,542	-	30
Speed, other	3	0.1	1	2	-	2	1	-	369,162	-	-
Spring Switch not clear before reverse	2	0.1	-	2	-	1	1	-	58,861	-	-
Switch improperly lined	131	5.0	11	102	18	12	106	13	6,027,205	-	1
Switch not latched or locked	23	0.9	-	23	-	2	20	1	1,621,399	-	-
Switch previously run through	32	1.2	-	31	1	1	28	3	1,382,700	-	-
Moveable point trk frog improper lined	1	0.0	-	1	-	1	-	-	12,203	-	-
Switch improperly lined, radio controlled	4	0.2	2	1	1	2	2	-	109,454	-	-
Radio controlled switch not locked effectively	1	0.0	-	1	-	-	1	-	10,481	-	-
Use of switches, other	8	0.3	-	7	1	2	5	1	213,400	-	-
Automatic cab signal, fail to comply	1	0.0	1	-	-	1	-	-	12,249	-	1
Other causes relating to cab signals	1	0.0	-	-	1	1	-	-	35,000	-	-
Human factors - track	6	0.2	3	2	1	6	-	-	672,952	-	2
Human factors -motive power & equipment	6	0.2	-	5	1	1	5	-	1,881,370	-	2
Oversized loads or Excess Height/Width cars, mis-routed or switched.	5	0.2	2	-	3	3	1	1	1,773,616	-	-
Motor car or other on-track equipment rules (other than main track authority) - Failure to Comply.	10	0.4	3	2	5	7	-	3	508,052	-	2
Other train operation/human factors	11	0.4	1	3	7	4	4	3	335,569	-	-
Computer system configuration/management error (non vendor)	5	0.2	1	1	3	-	5	-	389,838	-	-
Total	895	33.9	162	469	264	157	643	95	69,009,478	26	141

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

MAJOR CAUSE= Signal Defects										
Causes	Total		Type of Accident			Type of Track		Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard		Kld	Nonfatal
Classyard autocontrol sys switch fail	5	0.2	-	4	1	-	5	120,359	-	-
Class yd auto ctrl sys retarder fail	16	0.6	3	2	11	-	16	337,208	-	-
Power switch failure	17	0.6	1	16	-	-	17	905,520	-	-
Other communication equipment failure	1	0.0	-	1	-	-	1	9,326	-	-
Classification yard automatic control system - Inadequate/insufficient control	8	0.3	1	2	5	-	8	122,278	-	-
Other signal failures	3	0.1	-	2	1	1	2	1,604,434	-	2
Remote control transmitter, loss of communication.	1	0.0	-	1	-	-	1	157,870	-	-
Total	51	1.9	5	28	18	1	50	3,256,995	-	2

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	31	1.2	-	30	1	13	14	4	5,373,576	-	-
Washout/rain/slide/etc. dmg -track	11	0.4	-	9	2	9	2	-	7,376,859	-	3
Other roadbed defects	4	0.2	-	4	-	2	1	1	180,044	-	-
Cross level of track irregular(joints)	34	1.3	-	34	-	20	10	4	3,583,816	-	-
Cross level track irreg.(not at joints)	24	0.9	-	24	-	13	5	6	3,401,716	-	-
Deviate frm uniform top of rail profile	4	0.2	-	4	-	2	1	1	191,666	-	-
Insufficient ballast section	4	0.2	-	4	-	2	2	-	701,177	-	-
Superelevation improper, excessive,etc.	8	0.3	-	8	-	4	2	2	393,826	-	-
Trk alignmnt irreg-not buckled/sunkink	13	0.5	-	13	-	6	5	2	1,078,171	-	-
Track alignment irreg(buckled/sunkink)	12	0.5	-	11	1	9	3	-	2,292,086	-	-
Wide gage(defective/missing crossties)	165	6.3	-	164	1	29	83	53	12,222,043	-	-
Wide gage(spikes/other rail fasteners)	30	1.1	-	30	-	1	19	10	1,089,848	-	-
Wide gage(loose,broke, etc, gage rods)	8	0.3	-	8	-	2	2	4	381,273	-	-
Wide gage (due to worn rails)	13	0.5	-	13	-	1	6	6	899,834	-	-
Other track geometry defects	11	0.4	-	10	1	5	6	-	1,479,736	-	-
Bolt hole crack or break	4	0.2	-	4	-	2	2	-	844,647	-	1
Broken base of rail	14	0.5	1	13	-	9	5	-	1,551,261	-	-
Broken weld (plant)	1	0.0	-	1	-	-	1	-	42,168	-	-
Broken weld (field)	4	0.2	-	4	-	1	-	3	893,017	-	-
Defective or missing crossties	13	0.5	-	13	-	3	5	5	554,034	-	-
Defect/missing spike-oth rail fastener	5	0.2	-	5	-	2	2	1	1,657,995	-	-
Detail fracture - shelling/head check	50	1.9	-	50	-	26	18	6	23,013,892	-	-
Engine burn fracture	1	0.0	-	1	-	-	1	-	33,165	-	-
Head and web sep(outside jt bar limit)	35	1.3	-	35	-	11	17	7	2,898,563	-	-
Head & web separation-in jt bar limit	7	0.3	-	7	-	2	4	1	2,028,108	-	-
Horizontal split head	8	0.3	-	8	-	2	4	2	424,255	-	-
Joint bar broken (compromise)	2	0.1	-	2	-	2	-	-	3,729,343	-	-
Joint bar broken (insulated)	4	0.2	-	4	-	3	-	1	5,038,676	-	-
Joint bar broken (noninsulated)	6	0.2	-	6	-	5	-	1	4,390,834	-	-
Mismatched rail-head contour	5	0.2	-	5	-	1	3	1	255,097	-	-
Transverse/compound fissure	73	2.8	-	73	-	28	39	6	13,598,950	-	1
Vertical split head	35	1.3	-	35	-	13	17	5	3,178,215	-	-
Worn rail	6	0.2	-	6	-	1	4	1	264,036	-	-
Rail Condition - Dry rail, freshly ground rail.	2	0.1	-	2	-	-	2	-	99,575	-	-
Other rail and joint bar defects	19	0.7	-	19	-	13	6	-	15,339,557	-	-
Derail, defective	2	0.1	-	2	-	-	1	1	1,602,119	-	-

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

MAJOR CAUSE= Track Defects												
Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties		
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal	
Guard rail loose/broken or mislocated	1	0.0	-	1	-	-	1	-	24,114	-	-	
Retarder worn, broken, malfunctioning	5	0.2	2	1	2	-	5	-	129,661	-	-	
Retarder yard skate defective	2	0.1	2	-	-	-	2	-	22,470	-	-	
Spring/power swtch mech. malfunction	2	0.1	-	2	-	-	1	1	28,298	-	-	
Stock rail worn, broken, disconnected	3	0.1	-	3	-	-	2	1	59,256	-	-	
Switch (hand op) stand mechanism defect	5	0.2	-	5	-	-	4	1	321,722	-	-	
Switch damaged or out of adjustment	22	0.8	-	22	-	1	13	8	539,814	-	-	
Switch lug/crank broken	2	0.1	-	2	-	-	2	-	34,376	-	-	
Switch out of adj. insuff. anchoring	3	0.1	-	3	-	-	1	2	78,363	-	-	
Switch point worn or broken	68	2.6	-	68	-	5	52	11	2,799,813	-	-	
Switch rod worn, bent, broken, etc.	4	0.2	-	4	-	-	2	2	73,535	-	-	
Turnout frog (rigid) worn, or broken	4	0.2	-	4	-	-	2	2	211,732	-	-	
Turnout frog(self guarded)-worn/broken	4	0.2	-	4	-	1	3	-	228,781	-	-	
Turnout frog (spring) worn, or broken	2	0.1	-	2	-	1	1	-	285,490	-	-	
Switch pt gap(btwn swt pt & stock rail)	13	0.5	-	13	-	3	9	1	864,720	-	-	
Oth frog, switch, trk appliance defect	10	0.4	-	10	-	4	5	1	728,114	-	1	
Bridge misalignment or failure	2	0.1	-	2	-	1	-	1	968,500	-	1	
Flangeway clogged	4	0.2	-	4	-	-	1	3	188,009	-	-	
Engineering design or construction	8	0.3	-	7	1	2	5	1	253,091	-	-	
Catenary system defect	16	0.6	-	-	16	13	3	-	302,749	-	-	
Other way and structure defect	5	0.2	-	3	2	3	1	1	793,563	-	-	
Total	853	32.3	5	821	27	276	407	170	131,019,349	-	7	

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	3	0.1	-	3	-	3	-	-	324,605	-	-	
Broken brake pipe or connections	1	0.0	-	1	-	1	-	-	11,275	-	-	
Obstructed brake pipe	1	0.0	-	1	-	-	1	-	13,571	-	-	
Oth brk component dmg,worn,broke,etc.	6	0.2	1	3	2	2	3	1	578,567	-	-	
Brk valve malf. (undesired emergency)	3	0.1	-	1	2	1	1	1	62,223	-	-	
Brk valve malf.(undesire emerg)-Loco	1	0.0	-	1	-	1	-	-	20,000	-	-	
Brake valve malf. (stuck brake, etc.)	4	0.2	1	3	-	3	1	-	1,546,846	-	-	
Rigging down or dragging	5	0.2	-	5	-	3	1	1	112,448	-	-	
Hand brk broken or defective	4	0.2	-	2	2	1	1	2	91,217	-	-	
Other brake defects, cars	3	0.1	-	2	1	2	1	-	1,058,334	-	-	
Other brake defects, (LOCO)	1	0.0	1	-	-	-	1	-	63,161	-	-	
Hnd brk link and/or connect defect	5	0.2	-	3	2	-	5	-	108,962	-	1	
Center sill broken or bent	5	0.2	-	2	3	4	1	-	250,003	-	-	
Draft sill broken or bent	2	0.1	-	-	2	-	2	-	30,379	-	-	
Ctr plate disengaged from truck	5	0.2	-	5	-	2	2	1	520,208	-	-	
Center plate attachment defective	1	0.0	-	1	-	-	-	1	165,000	-	-	
Side sill broken	4	0.2	-	4	-	3	1	-	116,993	-	-	
Other body defects, (CAR)	3	0.1	-	1	2	1	2	-	92,706	-	-	
Other body defects, (LOCO)	1	0.0	-	1	-	1	-	-	117,949	-	2	
Knuckle broken or defective	6	0.2	1	2	3	-	6	-	512,379	-	1	
Coupler drawhead broken or defective	3	0.1	-	2	1	2	1	-	1,052,752	-	-	
Coupler retainer pin/cross key missing	9	0.3	-	7	2	8	1	-	3,717,956	-	2	
Draft gear/mechanism broke/defective	3	0.1	-	2	1	3	-	-	251,676	-	-	
Coupler carrier broken or defective	1	0.0	-	1	-	1	-	-	18,491	-	-	
Failure of articulated connectors	1	0.0	-	1	-	-	1	-	8,504	-	-	

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

MAJOR CAUSE= Mechanical/Electrical											
Causes	Total		Type of Accident			Type of Track			Reportable Damage	Casualties	
	Cnt	%	Coll	Der	Othr	Main	Yard	Other		Kld	Nonfatal
Oth coupler/draft system defects-car	9	0.3	-	6	3	3	6	-	806,785	-	2
Oth coupler/draft sys defects-loco	1	0.0	-	-	1	-	1	-	26,832	-	-
Side bearing clearance insufficient	17	0.6	-	17	-	6	10	1	1,116,844	-	-
Side bearing clearance excessive	4	0.2	-	4	-	2	2	-	488,449	-	-
Side bearing(s) missing	1	0.0	-	1	-	1	-	-	102,000	-	-
Truck bolster broken	1	0.0	-	1	-	1	-	-	80,086	-	-
Side frame broken	2	0.1	-	2	-	2	-	-	110,146	-	-
Truck bolster stiff	19	0.7	-	19	-	4	13	2	1,793,881	-	-
Truck bolster stiff (LOCO)	1	0.0	-	1	-	-	-	1	31,900	-	-
Defective snubbing	5	0.2	-	5	-	5	-	-	4,225,138	-	-
Broken, missing, or defective springs	1	0.0	-	1	-	-	1	-	23,291	-	-
Other truck component defects, (CAR)	5	0.2	-	5	-	3	1	1	924,277	-	-
Other truck component defects, (LOCO)	1	0.0	-	1	-	-	1	-	17,994	-	-
Gib Clearance (lateral motion excessive)	2	0.1	-	2	-	2	-	-	203,621	-	-
Truck bolster stiff (failure to slew)	5	0.2	-	5	-	-	5	-	176,432	-	-
Truck hunting	3	0.1	-	3	-	3	-	-	1,553,797	-	-
Broken/bent axle between wheel seats	7	0.3	-	7	-	7	-	-	2,067,238	-	-
Broke/bent axle btwn wheel seats-loco	3	0.1	-	2	1	3	-	-	69,435	-	-
Journal (plain) failure from overheat	2	0.1	-	2	-	2	-	-	46,908	-	-
Journal (roller bearing) overheating	27	1.0	-	27	-	27	-	-	4,724,417	-	-
Journal(roller bearing)overheat-LOCO	1	0.0	-	1	-	1	-	-	30,000	-	-
Journal fractured, new cold break	2	0.1	-	2	-	2	-	-	80,570	-	-
Oth axle/journal bearing defect-car	1	0.0	-	1	-	1	-	-	243,167	-	-
Oth axle/journal bearing defect-loco	1	0.0	-	1	-	1	-	-	82,532	-	-
Broken rim	20	0.8	-	17	3	18	2	-	8,676,727	-	-
Broken plate	3	0.1	-	3	-	3	-	-	1,443,805	-	-
Worn Flange	9	0.3	-	9	-	3	4	2	1,146,229	-	-
Worn flange (LOCO)	2	0.1	-	2	-	1	1	-	570,212	-	-
Worn tread	2	0.1	-	2	-	-	1	1	112,209	-	-
Worn tread (LOCO)	1	0.0	-	1	-	-	-	1	441,585	-	-
Damaged flange or tread (flat)	2	0.1	-	2	-	2	-	-	334,714	-	-
Damaged flange or tread (build up)	12	0.5	-	12	-	8	4	-	1,049,915	-	-
Loose wheel	3	0.1	-	3	-	3	-	-	151,169	-	-
Other wheel defects (CAR)	4	0.2	-	4	-	2	2	-	273,600	-	-
Traction motor failure (LOCO)	2	0.1	-	1	1	2	-	-	1,130,074	-	-
Crank case or air box explosion (LOCO)	1	0.0	-	-	1	1	-	-	200,000	-	-
Oil or fuel fire (LOCO)	2	0.1	-	-	2	2	-	-	36,000	-	-
Electrically caused fire (LOCO)	5	0.2	-	-	5	4	1	-	360,752	-	1
Remote control equip inoperative (LOCO)	1	0.0	-	1	-	-	1	-	384,137	-	-
Broke/def swng hanger/sprng plank-loco	3	0.1	1	-	2	3	-	-	118,460	-	1
Pantograph defect (LOCO)	31	1.2	-	-	31	28	3	-	621,062	-	-
Other LOCO defects	2	0.1	-	1	1	1	1	-	375,001	-	-
Bottom outlet car door open	2	0.1	-	2	-	2	-	-	726,265	-	-
Bottom outlet door attachment defect	1	0.0	-	1	-	1	-	-	19,504	-	-
Other car door defects	1	0.0	-	1	-	1	-	-	8,500	-	-
Other mechanical/electrical failures	5	0.2	-	3	2	3	2	-	104,404	-	1
Other mechanical/electrical fail(LOCO)	2	0.1	-	1	1	1	1	-	60,164	-	1
Total	318	12.1	5	236	77	207	95	16	48,216,433	-	12

TABLE 5-9 TRAIN ACCIDENTS BY SPECIFIC CAUSE AND TYPE, 2008

MAJOR CAUSE= Miscellaneous

Causes	Total		Type of Accident				Type of Track			Reportable	Casualties	
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Other	Damage	Kld	Nonfatal
Snow,ice,mud,gravel,coal,etc. on trk	29	1.1	-	25	-	4	11	9	9	1,363,797	-	1
Extreme environmental - TORNADO	5	0.2	-	5	-	-	2	1	2	2,286,012	-	-
Extreme environmental - FLOOD	4	0.2	-	3	-	1	2	2	-	8,515,179	-	2
Extreme wind velocity	15	0.6	1	11	-	3	11	3	1	4,501,695	-	-
Other extreme environmental conditions	5	0.2	-	3	-	2	2	3	-	119,798	-	-
Load shifted	2	0.1	-	1	-	1	2	-	-	191,144	-	-
Load fell from car	1	0.0	-	1	-	-	1	-	-	327,000	-	-
Overloaded car	1	0.0	-	1	-	-	1	-	-	160,000	-	-
Improperly loaded car	21	0.8	1	19	-	1	13	5	3	3,514,965	-	-
Trailer/container tiedown eqp improper	2	0.1	1	1	-	-	2	-	-	171,919	-	-
Miscellaneous loading procedures	7	0.3	-	6	-	1	3	1	3	463,231	-	-
Hwy user impairment-drug/alcohol use	1	0.0	-	-	1	-	1	-	-	10,000	-	1
Highway user inattentiveness	80	3.0	-	-	80	-	78	2	-	6,488,612	15	119
Hwy user misjudgement	12	0.5	-	-	11	1	11	-	1	638,843	1	9
Highway user cited for violation	39	1.5	-	-	39	-	38	1	-	4,022,291	1	19
Highway user unable to stop, weather	3	0.1	-	-	3	-	3	-	-	333,298	1	2
Highway user deliberately disregarded crossing warning devices	31	1.2	-	-	31	-	30	-	1	1,390,535	6	24
Other causes (highway-rail collisions)	19	0.7	-	-	19	-	18	-	1	831,353	3	16
Emergency brke appl. to avoid accident	1	0.0	-	1	-	-	-	1	-	25,670	-	-
Object/equipment (mtr veh) on track	16	0.6	-	-	-	16	15	1	-	772,059	1	3
Obj/equip on/fouling track, other	26	1.0	-	11	-	15	15	10	1	2,446,114	-	1
Harmonic rock off, etc.	41	1.6	-	41	-	-	14	24	3	5,258,221	-	1
Fire, other than vandalism	2	0.1	-	-	-	2	2	-	-	247,578	-	3
Auto hump retarder failed to slow car	21	0.8	1	4	-	16	-	21	-	670,663	-	-
Yard skate slid and failed to stop car	17	0.6	4	3	-	10	-	17	-	494,403	-	1
Lading chains/straps fouling switches	10	0.4	1	7	-	2	3	6	1	2,181,121	-	-
Lading chains or straps fouling wheels	2	0.1	-	2	-	-	-	2	-	264,737	-	-
Passed couplers (automated classification yard)	34	1.3	-	26	-	8	-	34	-	1,092,325	-	-
Interference(not vandals)with RR op.	5	0.2	1	3	-	1	-	2	3	123,569	-	-
Vandalism of track or track appliances	13	0.5	-	11	-	2	5	8	-	1,551,634	-	2
Fail by non-rr empto control spd of car	15	0.6	-	7	-	8	2	2	11	1,082,711	-	-
Cause under investigation	4	0.2	-	3	-	1	2	2	-	1,081,871	-	152
Track damage caused by non-railroad interference with track structure	4	0.2	-	3	-	1	3	-	1	2,638,284	-	2
Investigation complete, cause could not be determined	18	0.7	-	11	-	7	8	8	2	4,567,843	-	1
Other miscellaneous causes	15	0.6	1	9	-	5	4	8	3	579,941	-	-
Total	521	19.7	11	218	184	108	302	173	46	60,408,416	28	359

TABLE 5-10 TRAIN ACCIDENTS BY TYPE TRACK AND CLASS, 2008

Track & Class		Total		Type of Accident				Reportable Damage	Casualties		Causes					
		Cnt	%	Coll	Der	HRC	Othr	Amount	Kld	Nonfatal	Eqp	HRC	Hmn	Othr	Sig	Trk
Main	1	120	4.5	2	108	1	9	10,428,625	-	21	12	1	35	8	1	63
	2	163	6.2	7	132	7	17	35,543,964	1	16	30	7	24	28	-	74
	3	168	6.4	10	97	28	33	55,907,265	32	86	41	28	32	25	-	42
	4	322	12.2	13	147	96	66	80,031,687	13	132	78	96	50	43	-	55
	5	107	4.1	4	46	45	12	29,514,127	6	69	25	45	10	11	-	16
	6	11	0.4	-	2	1	8	150,115	1	-	7	1	1	2	-	-
	?	23	0.9	-	1	-	22	3,380,387	-	153	13	-	-	5	-	5
	X	29	1.1	-	29	-	-	1,725,416	-	-	1	-	5	2	-	21
	-Sub	943	35.7	36	562	178	167	216,681,586	53	477	207	178	157	124	1	276
Yard	1	1,243	47.1	132	858	1	252	62,314,801	1	31	88	1	589	152	39	374
	2	65	2.5	3	38	1	23	10,658,006	-	-	3	1	27	13	11	10
	3	9	0.3	2	6	1	-	895,602	-	-	1	1	5	1	-	1
	5	1	0.0	-	1	-	-	39,096	-	-	1	-	-	-	-	-
	X	50	1.9	5	34	-	11	1,335,458	-	-	2	-	22	4	-	22
	-Sub	1,368	51.9	142	937	3	286	75,242,963	1	31	95	3	643	170	50	407
Siding	1	47	1.8	1	44	-	2	3,482,775	-	7	2	-	17	2	-	26
	2	14	0.5	-	11	-	3	1,233,199	-	1	2	-	6	1	-	5
	3	7	0.3	-	6	-	1	2,149,051	-	-	2	-	2	-	-	3
	4	4	0.2	1	2	1	-	806,440	-	-	-	1	1	1	-	1
	5	1	0.0	1	-	-	-	85,350	-	1	-	-	1	-	-	-
	X	5	0.2	-	5	-	-	376,293	-	-	-	-	1	2	-	2
	-Sub	78	3.0	3	68	1	6	8,133,108	-	9	6	1	28	6	-	37
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industry	1	207	7.8	5	177	1	24	8,388,487	-	4	8	1	47	34	-	117
	2	7	0.3	-	6	-	1	131,508	-	-	-	-	1	1	-	5
	3	5	0.2	-	3	1	1	1,870,960	-	-	-	1	4	-	-	-
	4	1	0.0	-	-	-	1	48,760	-	-	-	-	1	-	-	-
	X	29	1.1	2	19	-	8	1,413,299	-	-	2	-	14	2	-	11
	-Sub	249	9.4	7	205	2	35	11,853,014	-	4	10	2	67	37	-	133
Total		2,638	100	188	1,772	184	494	311,910,671	54	521	318	184	895	337	51	853

TABLE 5-11 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST SPEED, 2008

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	?	20	0.8	-	9	-	11	3,159,657	-	155	6	-	4	8	-	2
	1 - 9	212	8.0	10	161	8	33	17,812,302	-	29	29	8	82	19	-	74
	10-19	188	7.1	14	141	16	17	29,554,947	-	25	33	16	40	17	1	81
	20-29	150	5.7	5	110	16	19	52,829,042	3	21	38	16	17	26	-	53
	30-39	109	4.1	2	55	33	19	30,866,113	5	16	29	33	6	17	-	24
	40-49	127	4.8	3	64	37	23	57,480,686	28	88	40	37	4	18	-	28
	50-59	69	2.6	2	18	35	14	17,960,402	7	40	16	35	4	8	-	6
	60-69	23	0.9	-	4	12	7	4,084,728	1	13	3	12	-	5	-	3
	>= 70	45	1.7	-	-	21	24	2,933,709	9	90	13	21	-	6	-	5
	-Sub	943	35.7	36	562	178	167	216,681,586	53	477	207	178	157	124	1	276
Yard	?	25	0.9	1	9	-	15	7,194,521	-	1	3	-	7	12	-	3
	1 - 9	1,181	44.8	119	827	1	234	53,940,725	1	8	81	1	571	131	40	357
	10-19	154	5.8	22	99	1	32	13,611,921	-	22	8	1	64	24	10	47
	20-29	6	0.2	-	1	-	5	434,665	-	-	2	-	1	3	-	-
	40-49	1	0.0	-	-	1	-	22,035	-	-	-	1	-	-	-	-
	50-59	1	0.0	-	1	-	-	39,096	-	-	1	-	-	-	-	-
	-Sub	1,368	51.9	142	937	3	286	75,242,963	1	31	95	3	643	170	50	407
Siding	?	3	0.1	-	3	-	-	377,548	-	-	-	-	-	3	-	-
	1 - 9	51	1.9	2	47	-	2	3,095,638	-	7	3	-	20	2	-	26
	10-19	17	0.6	-	14	-	3	2,960,540	-	1	1	-	6	1	-	9
	20-29	5	0.2	1	2	1	1	834,871	-	1	1	1	2	-	-	1
	30-39	2	0.1	-	2	-	-	864,511	-	-	1	-	-	-	-	1
	-Sub	78	3.0	3	68	1	6	8,133,108	-	9	6	1	28	6	-	37
Industry	?	2	0.1	-	1	-	1	56,000	-	-	-	-	2	-	-	-
	1 - 9	220	8.3	6	186	1	27	8,421,814	-	3	6	1	56	34	-	123
	10-19	24	0.9	1	18	-	5	1,895,608	-	1	3	-	8	3	-	10
	20-29	2	0.1	-	-	-	2	1,462,600	-	-	1	-	1	-	-	-
	40-49	1	0.0	-	-	1	-	16,992	-	-	-	1	-	-	-	-
	-Sub	249	9.4	7	205	2	35	11,853,014	-	4	10	2	67	37	-	133
Total	2,638	100	188	1,772	184	494	311,910,671	54	521	318	184	895	337	51	853	

TABLE 5-12 TRAIN ACCIDENTS BY WEATHER CONDITION, 2008

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	61	2.3	5	39	4	13	9,206,566	-	1	7	4	20	7	1	22
	Cloudy	22	0.8	1	16	-	5	6,094,081	-	1	4	-	6	5	-	7
	Rain	11	0.4	-	9	-	2	667,743	-	-	2	-	3	3	-	3
	Fog	4	0.2	-	2	-	2	133,478	-	-	1	-	2	1	-	-
	Snow	4	0.2	1	1	-	2	338,746	-	1	1	-	2	1	-	-
	-- Sub	102	3.9	7	67	4	24	16,440,614	-	3	15	4	33	17	1	32
Day	Clear	934	35.4	63	596	96	179	94,619,184	39	404	117	96	309	102	10	300
	Cloudy	290	11.0	20	192	32	46	31,330,083	5	37	35	32	85	30	8	100
	Rain	78	3.0	7	53	7	11	18,227,827	1	8	3	7	17	20	2	29
	Fog	9	0.3	2	2	4	1	2,578,354	1	3	2	4	3	-	-	-
	Sleet	3	0.1	-	1	-	2	232,127	-	-	1	-	1	-	-	1
	Snow	26	1.0	1	18	4	3	3,312,088	-	3	4	4	10	3	-	5
-- Sub	1,340	50.8	93	862	143	242	150,299,663	46	455	162	143	425	155	20	435	
Dusk	Clear	76	2.9	2	57	3	14	5,928,669	-	10	10	3	26	11	2	24
	Cloudy	31	1.2	1	20	-	10	1,464,503	-	-	7	-	8	7	-	9
	Rain	4	0.2	-	3	-	1	767,436	-	-	-	-	1	2	-	1
	Snow	4	0.2	1	3	-	-	465,732	-	-	1	-	2	1	-	-
	-- Sub	115	4.4	4	83	3	25	8,626,340	-	10	18	3	37	21	2	34
Dark	Clear	660	25.0	55	463	24	118	76,999,257	8	23	79	24	241	83	15	218
	Cloudy	255	9.7	17	188	8	42	30,365,201	-	18	27	8	108	24	6	82
	Rain	99	3.8	9	60	2	28	11,621,118	-	7	11	2	34	23	2	27
	Fog	19	0.7	2	13	-	4	4,302,557	-	2	3	-	7	1	-	8
	Sleet	3	0.1	-	2	-	1	92,132	-	-	-	-	1	1	-	1
	Snow	45	1.7	1	34	-	10	13,163,789	-	3	3	-	9	12	5	16
-- Sub	1,081	41.0	84	760	34	203	136,544,054	8	53	123	34	400	144	28	352	
Total	2,638	100	188	1,772	184	494	311,910,671	54	521	318	184	895	337	51	853	

TABLE 5-13 TRAIN ACCIDENTS BY CONSIST LENGTH, 2008

Length	Consists		Type of Accident				Equipment Damage		Causes					
	Cnt	%	Coll	Der	HRC	Othr	Amount	%	Eqp	HRC	Hmn	Othr	Sig	Trk
1	214	6.8	42	50	6	116	5,049,486	2.4	14	6	126	37	11	20
2-5	382	12.2	57	147	22	156	17,617,869	8.3	25	22	213	56	12	54
6-10	270	8.6	32	105	16	117	11,985,460	5.7	33	16	117	40	3	61
11-15	165	5.3	13	92	15	45	6,422,725	3.0	9	15	80	21	3	37
16-20	150	4.8	19	91	8	32	6,012,061	2.8	6	8	70	16	2	48
21-25	132	4.2	15	88	6	23	2,913,202	1.4	5	6	56	18	4	43
26-30	127	4.1	21	91	5	10	3,859,486	1.8	5	5	61	13	2	41
31-35	117	3.7	18	68	5	26	5,837,153	2.8	5	5	54	15	3	35
36-40	100	3.2	14	64	6	16	4,068,442	1.9	6	6	35	13	3	37
41-45	104	3.3	4	81	5	14	4,904,783	2.3	3	5	44	8	2	42
46-50	89	2.8	10	67	-	12	5,365,886	2.5	9	-	37	16	1	26
51-60	152	4.9	23	99	6	24	5,470,709	2.6	16	6	59	20	3	48
61-70	177	5.7	16	119	19	23	10,611,193	5.0	16	19	56	21	4	61
71-80	175	5.6	20	120	22	13	17,057,939	8.1	26	22	50	12	1	64
81-90	115	3.7	8	81	8	18	9,715,346	4.6	21	8	32	11	2	41
91-100	150	4.8	13	119	6	12	18,302,267	8.7	33	6	34	20	4	53
101-110	160	5.1	13	123	10	14	12,520,939	5.9	32	10	34	21	2	61
111-120	145	4.6	11	112	7	15	29,685,407	14.1	25	7	42	11	1	59
121-130	98	3.1	4	77	8	9	14,640,674	6.9	23	8	19	15	-	33
131-140	64	2.0	3	50	4	7	9,797,138	4.6	18	4	9	5	3	25
141-150	18	0.6	-	18	-	-	3,707,846	1.8	7	-	-	4	-	7
>= 151	27	0.9	4	22	-	1	5,674,221	2.7	5	-	12	4	-	6
Total	3,131	100	360	1,884	184	703	211,220,232	100.0	342	184	1,240	397	66	902

TABLE 5-14 TRAIN ACCIDENTS BY TYPE TRACK AND CONSIST, 2008

Track	- Equipment	Consists		Type of Accident						Primary Cause				
		Cnt	%	Avg		Der	HRC	Othr	Eqp	HRC	Hmn	Othr	Sig	Trk
				Len.	Coll									
Main	Freight Train	745	23.8	81	22	472	125	63	159	125	89	80	-	229
	Psgr Train	102	3.3	8	1	7	19	55	31	19	2	17	1	12
	Commuter Train	30	1.0	7	-	1	7	14	2	7	2	4	-	7
	Work Train	14	0.4	33	2	7	2	2	1	2	1	5	-	4
	Single Car	7	0.2	1	1	2	-	3	1	-	5	-	-	-
	Cut of Cars	13	0.4	33	1	2	-	4	-	-	4	3	-	-
	Yard/ Switch	45	1.4	60	3	30	1	3	2	1	17	9	-	8
	Light loco(s)	18	0.6	2	1	5	4	4	1	4	8	-	-	1
	Maint/ Insp car	19	0.6	1	1	2	3	6	1	3	8	-	-	-
	Spec MOW Eqp	24	0.8	1	4	4	2	7	2	2	10	2	-	1
	-Sub total	1,017	32.5	64	36	532	163	161	200	163	146	120	1	262
Yard	Freight Train	381	12.2	68	24	257	2	17	28	2	105	15	7	143
	Psgr Train	16	0.5	9	-	7	1	5	1	1	7	-	-	4
	Commuter Train	8	0.3	7	-	5	-	1	-	-	4	-	-	2
	Work Train	3	0.1	26	-	3	-	-	-	-	1	-	-	2
	Single Car	109	3.5	1	11	12	-	41	5	-	25	22	7	5
	Cut of Cars	157	5.0	19	11	26	-	47	7	-	39	24	6	8
	Yard/ Switch	936	29.9	41	74	524	-	155	45	-	373	102	27	206
	Light loco(s)	135	4.3	2	20	59	-	17	4	-	66	4	3	19
	Maint/ Insp car	1	0.0	1	-	1	-	-	-	-	-	-	-	1
	Spec MOW Eqp	1	0.0	135	-	1	-	-	-	-	-	-	-	1
	-Sub total	1,747	55.8	39	140	895	3	283	90	3	620	167	50	391
Siding	Freight Train	51	1.6	79	-	45	-	1	6	-	9	3	-	28
	Psgr Train	3	0.1	5	-	1	1	-	-	1	1	-	-	-
	Commuter Train	2	0.1	6	1	1	-	-	-	-	2	-	-	-
	Work Train	1	0.0	43	-	1	-	-	-	-	-	1	-	-
	Single Car	1	0.0	1	-	1	-	-	-	-	1	-	-	-
	Cut of Cars	5	0.2	9	-	3	-	-	-	-	1	2	-	-
	Yard/ Switch	13	0.4	59	1	10	-	1	-	-	6	-	-	6
	Light loco(s)	5	0.2	2	-	3	-	2	-	-	4	-	-	1
	Maint/ Insp car	2	0.1	1	-	-	-	1	-	-	1	-	-	-
	Spec MOW Eqp	3	0.1	1	1	-	-	1	-	-	2	-	-	-
	-Sub total	86	2.7	58	3	65	1	6	6	1	27	6	-	35
Industry	Freight Train	113	3.6	61	2	86	-	15	5	-	29	16	-	53
	Work Train	6	0.2	36	-	5	-	1	-	-	2	-	-	4
	Single Car	4	0.1	1	-	1	-	2	-	-	1	1	-	1
	Cut of Cars	25	0.8	16	1	8	-	7	-	-	7	6	-	3
	Yard/ Switch	128	4.1	35	4	97	2	10	5	2	26	13	-	67
	Light loco(s)	5	0.2	3	-	4	-	-	-	-	1	1	-	2
	-Sub total	281	9.0	43	7	201	2	35	10	2	66	37	-	130
Total		3,131	100	48	186	1,693	169	485	306	169	859	330	51	818

TABLE 5-15 TRAIN ACCIDENTS BY CONSIST LENGTH AND TYPE CONSIST, 2008

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	-	-	-	-	119	-	2	48	20	25
2-5	27	20	14	3	1	86	118	109	2	2
6-10	33	79	23	-	-	26	103	6	-	-
11-15	41	20	3	1	-	19	81	-	-	-
16-20	36	2	-	2	-	14	96	-	-	-
21-25	51	-	-	2	-	10	69	-	-	-
26-30	31	-	-	5	-	8	83	-	-	-
31-35	40	-	-	1	-	6	70	-	-	-
36-40	46	-	-	2	-	3	49	-	-	-
41-45	41	-	-	1	1	3	58	-	-	-
46-50	36	-	-	1	-	4	48	-	-	-
51-60	89	-	-	3	-	4	56	-	-	-
61-70	107	-	-	3	-	2	65	-	-	-
71-80	118	-	-	-	-	1	56	-	-	-
81-90	82	-	-	-	-	6	27	-	-	-
91-100	104	-	-	-	-	6	40	-	-	-
101-110	115	-	-	-	-	-	45	-	-	-
111-120	120	-	-	-	-	2	23	-	-	-
121-130	85	-	-	-	-	-	13	-	-	-
131-140	51	-	-	-	-	-	12	-	-	1
141-150	14	-	-	-	-	-	4	-	-	-
>= 151	23	-	-	-	-	-	4	-	-	-
Total	1,290	121	40	24	121	200	1,122	163	22	28

TABLE 5-16 INVOLVEMENT IN TRAIN ACCIDENTS BY TYPE CONSIST, 2008

Type Equipment	Total		Type of Accident				Type of Track				Causes					
	Cnt	%	Coll	Der	HRC	Othr	Main	Yard	Siding	Industry	Eqp	HRC	Hmn	Othr	Sig	Trk
Freight Train	1,248	42.1	79	923	127	119	719	367	51	111	206	127	303	122	7	483
Psgr Train	119	4.0	1	23	33	62	100	16	3	-	33	33	12	19	1	21
Commuter Train	39	1.3	4	8	10	17	29	8	2	-	5	10	11	4	-	9
Work Train	24	0.8	2	16	2	4	14	3	1	6	1	2	5	6	-	10
Single Car	112	3.8	23	22	-	67	7	100	1	4	9	-	54	30	9	10
Cut of Cars	188	6.3	24	59	-	105	12	148	4	24	9	-	111	44	7	17
Yard/ Switch	1,044	35.2	107	717	3	217	44	862	13	125	57	3	496	144	31	313
Light loco(s)	152	5.1	30	75	4	43	18	124	5	5	8	4	107	7	3	23
Maint/ Insp car	18	0.6	2	3	3	10	16	1	1	-	1	3	13	-	-	1
Spec MOW Eqp	21	0.7	6	5	2	8	18	1	2	-	2	2	13	2	-	2
Total	2,965	100	278	1,851	184	652	977	1,630	83	275	331	184	1,125	378	58	889

TABLE 5-17 DAMAGE BY TRACK TYPE, 2008

Track	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Main	216,681,586	192,094	149,796,657	132,798	66,884,929	59,295
Yard	75,242,963	41,161	48,938,048	26,771	26,304,915	14,390
Siding	8,133,108	86,522	5,889,871	62,658	2,243,237	23,864
Industry	11,853,014	40,872	6,607,656	22,785	5,245,358	18,087
Total	311,910,671	93,386	211,232,232	63,243	100,678,439	30,143

TABLE 5-18 DAMAGE BY CONSIST TYPE, 2008

Type Equipment	Total Damage		Equip Damage		Track Damage	
	Amount	Avg	Amount	Avg	Amount	Avg
Freight Train	214,259,250	166,092	147,137,149	114,060	67,122,101	52,033
Psgr Train	11,648,033	96,265	10,865,333	89,796	782,700	6,469
Commuter Train	10,054,463	251,362	9,788,509	244,713	265,954	6,649
Work Train	1,455,211	60,634	561,909	23,413	893,302	37,221
Single Car	1,376,009	11,372	1,266,224	10,465	109,785	907
Cut of Cars	12,690,746	63,454	6,437,153	32,186	6,253,593	31,268
Yard/ Switch	42,381,372	37,773	28,790,597	25,660	13,590,775	12,113
Light loco(s)	4,128,185	25,326	3,390,859	20,803	737,326	4,523
Maint/ Insp car	1,040,343	47,288	1,009,556	45,889	30,787	1,399
Spec MOW Eqp	2,137,290	76,332	1,972,943	70,462	164,347	5,870
Other	10,739,769	51,386	12,000	57	10,727,769	51,329
Total	311,910,671	93,386	211,232,232	63,243	100,678,439	30,143

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 \$6600; \$6700 in 2005; \$7700 in 2006; \$8200 in 2007; and \$8500 in 2008.

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

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

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TABLE 6-1 CONSISTS TRANSPORTING HAZMAT, BY RAILROAD, 2008

Railroad	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Alton & Southern	3	1	-	128	11	1	-	-	-
Burlington Northern Santa Fe	312	118	6	18,423	3,432	266	15	3	3,041
Belt Rwy Of Chicago	4	4	-	86	20	9	-	-	-
Canadian National	49	22	-	3,801	825	48	-	-	-
Canadian Pacific	14	4	1	1,055	184	16	1	-	28
Conrail Shared Assets	6	4	-	76	34	7	-	-	-
CSX Transportation	124	41	2	7,467	1,257	80	2	-	3
Florida East Coast	1	-	-	35	2	-	-	-	-
Guilford Rail System	2	1	1	69	4	1	1	1	12
Indiana Harbor Belt	6	1	-	341	80	1	-	-	-
Kansas City Southern	11	8	-	727	180	21	-	1	16
Long Island Rail Road	-	-	-	-	0	0	0	-	27
Montreal, Maine & Atlantic	4	1	-	273	18	2	-	-	-
Montana Rail Link	7	4	1	393	87	12	1	-	-
Northeast IL Reg Comm	-	-	-	-	0	0	0	-	170
Norfolk Southern Corp.	31	9	5	2,143	283	21	6	-	-
Paducah & Louisville	2	2	-	126	3	3	-	-	-
Southern CA Reg Rail Auth.	-	-	-	-	0	0	0	-	425
Term RR Assn Of St. Louis	1	1	-	43	4	4	-	-	-
Union Pacific	187	74	5	11,816	2,284	182	10	5	352
Wheeling & Lake Erie	3	2	1	73	19	8	2	-	-
Wisconsin & Southern RR	1	-	-	72	2	-	-	-	-
Other Railroads	34	23	-	1,725	444	63	-	1	300
Total	802	320	22	48,872	9,173	745	38	11	4,374

TABLE 6-2 CONSISTS TRANSPORTING HAZMAT, BY STATE, 2008

States	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Alabama	27	10	1	1,594	223	19	2	-	-
Arizona	12	8	-	501	185	34	-	-	-
Arkansas	22	10	1	1,462	264	21	1	1	300
California	44	18	1	2,652	505	45	4	1	475
Colorado	18	6	-	798	225	13	-	-	-
Florida	4	3	-	147	87	11	-	-	-
Georgia	19	6	2	1,227	146	15	2	-	-
Idaho	8	5	-	568	153	22	-	-	-
Illinois	65	27	-	3,628	459	50	0	1	366
Indiana	23	4	-	1,528	215	7	-	-	-
Iowa	18	4	-	1,157	242	7	-	-	-
Kansas	37	11	2	2,534	500	28	2	-	-
Kentucky	8	5	-	545	113	12	-	-	-
Louisiana	39	19	1	2,379	573	51	1	1	3,005
Maine	5	1	-	293	20	2	-	-	-
Maryland	1	-	-	15	1	-	-	-	-
Massachusetts	2	1	1	150	6	1	1	1	12
Michigan	5	2	-	401	40	9	-	-	-
Minnesota	26	14	2	1,551	301	35	2	-	28
Mississippi	14	5	-	1,085	304	15	-	1	16
Missouri	15	5	1	1,193	152	5	1	-	-
Montana	15	6	1	893	162	14	1	-	-
Nebraska	27	12	-	1,391	251	17	-	-	-
Nevada	4	1	-	127	28	1	-	-	-
New Jersey	7	4	-	142	45	7	-	-	-
New Mexico	13	8	1	740	177	28	1	-	-
New York	27	11	-	1,490	296	15	0	-	27
North Carolina	13	4	1	758	148	6	1	-	-
North Dakota	9	4	1	479	124	18	6	1	1
Ohio	24	8	2	1,788	276	19	3	-	-
Oklahoma	23	10	2	1,407	224	30	8	2	115
Oregon	8	5	-	376	55	7	-	-	-
Pennsylvania	7	3	1	518	97	4	1	-	-
South Carolina	6	3	-	326	37	9	-	-	-
South Dakota	1	-	-	85	12	-	-	-	-
Tennessee	32	14	-	2,096	344	29	0	-	3
Texas	119	42	-	7,247	1,474	91	-	2	26
Utah	5	3	-	211	17	6	-	-	-
Virginia	3	1	1	231	48	4	1	-	-
Washington	23	10	-	1,505	331	22	-	-	-
West Virginia	2	1	-	98	9	1	-	-	-
Wisconsin	14	3	-	886	187	6	-	-	-
Wyoming	8	3	-	670	117	9	-	-	-
Total	802	320	22	48,872	9,173	745	38	11	4,374

TABLE 6-3 CONSISTS TRANSPORTING HAZMAT, BY SUBCAUSE, 2008

Causes	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Brakes	14	3	1	786	149	3	1	-	-
Body	9	-	-	922	102	-	-	-	-
Coupler & Draft System	20	6	2	1,706	254	14	2	-	-
Truck Components	22	12	1	1,927	301	24	1	-	-
Axles & Journal Bearings	15	5	2	1,280	218	12	6	1	50
Wheels	15	6	1	1,342	249	20	1	-	-
Locomotives	5	2	1	486	54	9	3	1	83
Other Mechanical	1	-	-	119	14	-	-	-	-
Brakes, Use of	41	20	1	1,702	342	37	1	-	-
Flagging, Fixed, Hand & Radio	13	6	2	741	113	10	3	-	253
General Switching Rules	116	54	-	5,003	1,029	84	-	-	-
Main Track Authority	6	2	-	395	89	2	-	-	-
Train Handling/Makeup	36	9	1	3,347	463	32	1	-	-
Speed	27	8	-	1,577	430	15	-	-	-
Switches, Use of	60	28	1	2,937	607	66	1	-	-
Cab Signals	1	-	-	107	9	-	-	-	-
Miscellaneous Human Factors	10	4	-	642	95	4	-	-	-
Environmental Conditions	15	5	-	737	73	6	0	1	396
Loading Procedures	12	4	-	825	158	18	-	-	-
Highway-Rail Incidents	47	1	-	3,192	802	1	-	-	-
Unusual Operational Situations	55	22	1	3,024	584	40	1	1	197
Other Miscellaneous Causes	14	10	-	806	195	25	-	-	-
Signal Defects	22	11	1	1,010	202	21	1	-	20
Roadbed	10	5	-	680	92	16	-	-	-
Track Geometry	93	44	4	5,684	1,122	140	8	2	3,040
Rail, Joint Bar & Anchors	81	35	2	5,693	991	106	7	4	323
Frogs, Switches, Appliances	38	18	1	1,862	399	40	1	1	12
Other Track Defects	4	-	-	340	37	-	-	-	-
Total	802	320	22	48,872	9,173	745	38	11	4,374

TABLE 6-4 CONSISTS TRANSPORTING HAZMAT, BY ACCIDENT TYPE, 2008

Type Accident	Hazmat Consists			Total Cars In Consist	Hazmat Cars			Evacuations	
	Cnt	Damaged	Releasing		Cnt	Damaged	Releasing	Cnt	People
Derailments	525	219	18	34,743	6,388	580	33	11	3,748
Head on collision	1	-	-	55	6	0	0	-	225
Rear end collision	8	2	1	563	157	2	1	-	-
Side collision	70	27	1	3,847	769	56	2	-	28
Raking collision	13	6	-	793	134	7	-	-	-
Broken train coll.	1	1	-	70	2	1	-	-	-
Highway-rail Impact	47	1	-	3,192	802	1	-	-	-
Obstruction impact	8	1	-	564	174	2	0	-	200
Explosion/detonation	1	-	-	57	3	-	-	-	-
Fire/violent rupture	2	-	-	212	20	0	0	-	173
Other impacts	113	61	2	3,924	653	94	2	-	-
Other events	13	2	-	852	65	2	-	-	-
Total	802	320	22	48,872	9,173	745	38	11	4,374

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 F6180.57. 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 F6180.54 must be completed. The reporting threshold for accidents for 1998 was \$6600; \$6700 in 2005; \$7700 in 2006; \$8200 in 2007; and \$8500 in 2008.

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 F6180.55a, e.g., the engineer sustained a fractured arm.

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 grade crossing impact must also be reported on Form FRA F6180.55a.

If the accident/incident satisfies the reporting requirements for rail equipment accidents (e.g., reportable railroad damage exceeds threshold), Form FRA F6180.54 must also be completed by all railroads involved, including the railroad with track maintenance responsibility.

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HIGHWAY-RAIL INCIDENTS

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TABLE 7-1 TOTAL HIGHWAY-RAIL INCIDENTS BY RAILROAD, 2008

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	137	47	158	91	24	143	27	19	8	18	3	7	1	1	-
Burlington Northern Santa Fe	302	43	130	238	31	111	18	8	9	43	4	9	3	-	1
Canadian National	176	17	62	149	14	59	7	2	1	19	1	2	1	-	-
Canadian Pacific	51	2	20	42	2	15	5	-	4	4	-	1	-	-	-
Conrail Shared Assets	19	-	5	18	-	5	-	-	-	1	-	-	-	-	-
CSX Transportation	373	40	160	289	26	129	17	8	7	67	6	24	-	-	-
Florida East Coast	10	1	7	10	1	7	-	-	-	-	-	-	-	-	-
Guilford Rail System	7	-	-	6	-	-	-	-	-	1	-	-	-	-	-
Other Railroads	291	19	65	244	16	59	11	3	2	35	-	4	1	-	-
Indiana Harbor Belt	8	-	2	7	-	2	-	-	-	1	-	-	-	-	-
Kansas City Southern	81	5	34	70	4	29	6	1	3	5	-	2	-	-	-
Long Island Rail Road	11	2	2	6	-	1	5	2	1	-	-	-	-	-	-
MD Assn. of Rail Comm	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	3	1	1	2	-	1	-	-	-	-	-	-	1	1	-
Metro North Commuter	3	-	-	2	-	-	-	-	-	1	-	-	-	-	-
Montana Rail Link	8	-	1	2	-	-	1	-	1	5	-	-	-	-	-
Northern IN Comm Trans	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-
Northeast IL Reg Comm	17	4	4	13	2	3	4	2	1	-	-	-	-	-	-
New Jersey Transit Rail	9	1	1	7	-	-	2	1	1	-	-	-	-	-	-
Norfolk Southern Corp.	402	55	125	319	42	102	18	9	7	65	4	16	-	-	-
Paducah & Louisville	4	-	2	4	-	2	-	-	-	-	-	-	-	-	-
Peninsula Comm San Mateo Cnty	8	2	3	2	-	-	5	1	3	1	1	-	-	-	-
Port Terminal RR Assn	5	-	1	3	-	-	-	-	-	2	-	1	-	-	-
Southern CA Reg Rail Auth.	13	3	-	9	2	-	4	1	-	-	-	-	-	-	-
Term RR Assn Of St. Louis	4	-	2	4	-	2	-	-	-	-	-	-	-	-	-
Union Pacific	439	46	166	356	33	139	24	10	10	59	3	17	-	-	-
Wheeling & Lake Erie	12	1	2	9	1	2	-	-	-	3	-	-	-	-	-
Wisconsin & Southern RR	7	-	1	6	-	1	-	-	-	1	-	-	-	-	-
Total	2,407	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-2 TOTAL HIGHWAY-RAIL INCIDENTS BY STATE, 2008

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	84	10	34	74	7	29	3	2	1	7	1	4	-	-	-
Alaska	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Arizona	22	1	13	20	-	9	1	1	-	1	-	4	-	-	-
Arkansas	69	7	21	62	6	18	3	1	1	4	-	2	-	-	-
California	142	25	91	86	6	72	35	16	13	21	3	6	-	-	-
Colorado	31	8	3	26	8	2	1	-	1	4	-	-	-	-	-
Connecticut	4	-	-	3	-	-	-	-	-	1	-	-	-	-	-
Delaware	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Florida	75	25	30	56	18	27	7	4	1	12	3	2	-	-	-
Georgia	108	8	37	85	8	30	3	-	3	20	-	4	-	-	-
Idaho	20	2	4	18	2	4	-	-	-	2	-	-	-	-	-
Illinois	152	27	69	112	15	59	18	11	5	20	1	5	2	-	-
Indiana	141	19	45	122	15	41	8	4	2	11	-	2	-	-	-
Iowa	72	5	25	62	4	23	2	1	1	8	-	1	-	-	-
Kansas	43	9	16	35	5	14	2	-	2	6	4	-	-	-	-
Kentucky	51	4	17	36	2	14	3	1	1	12	1	2	-	-	-
Louisiana	113	15	43	94	13	38	5	2	2	14	-	3	-	-	-
Maine	6	-	-	6	-	-	-	-	-	-	-	-	-	-	-
Maryland	17	-	3	11	-	1	-	-	-	6	-	2	-	-	-
Massachusetts	8	1	3	7	-	3	-	-	-	-	-	-	1	1	-
Michigan	59	4	21	52	2	20	1	-	1	6	2	-	-	-	-
Minnesota	57	6	20	51	6	17	3	-	2	3	-	1	-	-	-
Mississippi	70	14	72	67	13	70	1	1	-	2	-	2	-	-	-
Missouri	46	10	17	34	6	15	5	4	1	5	-	1	2	-	-
Montana	19	2	4	10	2	1	2	-	2	7	-	1	-	-	-
Nebraska	48	2	20	38	1	19	2	1	1	8	-	-	-	-	-
Nevada	6	-	3	3	-	1	-	-	-	3	-	2	-	-	-
New Hampshire	3	-	1	2	-	1	-	-	-	1	-	-	-	-	-
New Jersey	32	1	17	27	-	15	2	1	1	3	-	1	-	-	-
New Mexico	10	1	5	7	1	3	2	-	2	1	-	-	-	-	-
New York	39	6	13	30	3	10	8	3	3	1	-	-	-	-	-
North Carolina	69	8	29	58	8	20	2	-	1	9	-	8	-	-	-
North Dakota	14	1	7	12	1	6	1	-	1	1	-	-	-	-	-
Ohio	95	12	34	75	10	29	7	2	2	13	-	3	-	-	-
Oklahoma	58	8	30	56	8	30	-	-	-	2	-	-	-	-	-
Oregon	13	2	1	12	2	1	-	-	-	1	-	-	-	-	-
Pennsylvania	60	6	12	45	4	10	2	2	-	13	-	2	-	-	-
South Carolina	62	6	17	48	3	14	4	2	2	10	1	1	-	-	-
South Dakota	13	1	9	12	1	8	1	-	1	-	-	-	-	-	-
Tennessee	63	5	26	54	4	24	1	1	-	8	-	2	-	-	-
Texas	228	17	95	184	10	82	5	3	1	38	4	11	1	-	1
Utah	12	-	2	9	-	2	2	-	-	1	-	-	-	-	-
Vermont	3	-	2	2	-	2	-	-	-	1	-	-	-	-	-
Virginia	44	4	14	25	-	8	3	2	1	16	2	5	-	-	-
Washington	36	4	6	20	1	3	4	2	2	11	-	1	1	1	-
West Virginia	15	2	8	8	2	5	-	-	-	7	-	3	-	-	-
Wisconsin	69	1	14	55	1	13	5	-	1	9	-	-	-	-	-
Wyoming	4	-	2	3	-	-	-	-	-	1	-	2	-	-	-
Total	2,407	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-3 TOTAL HRC CASUALTIES BY STATE AND AGE GROUP, 2008

States	Deaths						Nonfatal Cases					
	Age Group			Total			Age Group			Total		
	Unk	< 16	16-21	> 21	Cnt	%	Unk	< 16	16-21	> 21	Cnt	%
Alabama	3	-	1	6	10	3.5	1	-	11	22	34	3.6
Arizona	-	-	-	1	1	0.3	-	-	7	6	13	1.4
Arkansas	-	-	2	5	7	2.4	2	1	1	17	21	2.2
California	2	1	2	20	25	8.7	13	10	7	61	91	9.6
Colorado	-	-	2	6	8	2.8	-	-	-	3	3	0.3
Florida	2	2	4	17	25	8.7	1	-	-	29	30	3.2
Georgia	-	-	2	6	8	2.8	6	1	5	25	37	3.9
Idaho	-	1	-	1	2	0.7	-	1	-	3	4	0.4
Illinois	-	1	4	22	27	9.3	7	7	2	53	69	7.2
Indiana	-	3	6	10	19	6.6	1	3	6	35	45	4.7
Iowa	-	1	1	3	5	1.7	2	1	3	19	25	2.6
Kansas	1	1	1	6	9	3.1	-	-	-	16	16	1.7
Kentucky	-	1	1	2	4	1.4	3	2	-	12	17	1.8
Louisiana	-	-	2	13	15	5.2	1	2	3	37	43	4.5
Maryland	-	-	-	0	0	0.0	1	-	-	2	3	0.3
Massachusetts	-	1	-	-	1	0.3	-	-	-	3	3	0.3
Michigan	-	-	-	4	4	1.4	1	3	4	13	21	2.2
Minnesota	-	-	-	6	6	2.1	2	1	2	15	20	2.1
Mississippi	-	3	1	10	14	4.8	5	2	9	56	72	7.6
Missouri	2	2	-	6	10	3.5	1	2	4	10	17	1.8
Montana	-	-	-	2	2	0.7	-	-	-	4	4	0.4
Nebraska	-	-	-	2	2	0.7	2	-	2	16	20	2.1
Nevada	-	-	-	-	0	0.0	-	-	-	3	3	0.3
New Hampshire	-	-	-	-	0	0.0	-	-	-	1	1	0.1
New Jersey	-	-	-	1	1	0.3	1	-	1	15	17	1.8
New Mexico	-	-	-	1	1	0.3	1	-	-	3	4	0.4
New York	-	-	1	5	6	2.1	1	2	-	10	13	1.4
North Carolina	1	1	2	4	8	2.8	3	2	5	19	29	3.0
North Dakota	-	-	1	-	1	0.3	-	-	-	5	5	0.5
Ohio	1	-	1	10	12	4.2	1	6	5	22	34	3.6
Oklahoma	1	-	2	5	8	2.8	4	4	-	22	30	3.2
Oregon	-	-	-	2	2	0.7	-	-	-	1	1	0.1
Pennsylvania	1	-	1	4	6	2.1	2	-	-	10	12	1.3
South Carolina	1	-	2	3	6	2.1	1	3	4	9	17	1.8
South Dakota	-	-	1	-	1	0.3	-	-	-	9	9	0.9
Tennessee	2	-	-	3	5	1.7	3	-	3	20	26	2.7
Texas	-	1	2	14	17	5.9	6	7	6	76	95	10.0
Utah	-	-	-	-	0	0.0	-	-	-	2	2	0.2
Vermont	-	-	-	-	0	0.0	-	-	-	2	2	0.2
Virginia	-	-	-	4	4	1.4	-	1	2	11	14	1.5
Washington	-	1	-	3	4	1.4	-	-	2	4	6	0.6
West Virginia	-	-	-	2	2	0.7	-	1	1	6	8	0.8
Wisconsin	-	-	1	-	1	0.3	-	-	3	11	14	1.5
Wyoming	-	-	-	-	0	0.0	-	-	-	2	2	0.2
Total	17	20	43	209	289	100.0	72	62	98	720	952	100.0

TABLE 7-4 TOTAL HIGHWAY-RAIL INCIDENTS BY MONTH, 2008

Railroads	At Public Crossing									At Private Crossing					
	Totals			Motor Vehicle			Other			Motor Vehicle			Other		
	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
January	233	23	68	197	19	59	10	4	3	26	-	6	-	-	-
February	209	15	67	182	11	56	8	4	3	18	-	7	1	-	1
March	211	12	82	171	5	70	12	5	5	28	2	7	-	-	-
April	145	21	48	116	15	41	6	4	2	23	2	5	-	-	-
May	215	24	148	162	11	138	18	10	6	34	2	4	1	1	-
June	192	37	64	149	31	48	13	5	7	29	1	9	1	-	-
July	191	29	87	143	21	71	14	5	4	33	2	12	1	1	-
August	209	31	71	164	24	62	14	6	5	29	1	4	2	-	-
September	188	23	59	141	15	41	21	6	12	26	2	6	-	-	-
October	215	21	87	162	13	73	11	4	4	42	4	10	-	-	-
November	208	34	83	171	21	72	12	7	3	24	6	8	1	-	-
December	191	19	91	157	12	82	15	7	4	19	-	5	-	-	-
Total	2,407	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-5 TOTAL HIGHWAY-RAIL INCIDENTS BY DAY, 2008

Rail Equip Struck Highway User																
Day	Total Incidents		Total				At Public Crossing						At Private Crossing			
	Cnt	%	Kld	Nonfatal	Motor Vehicle			Other			Motor Vehicle			Other		
					Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	202	8.39	37	75	159	25	61	17	7	8	25	4	6	1	1	-
Monday	272	11.30	33	91	210	20	79	22	12	6	39	1	6	1	-	-
Tuesday	280	11.63	34	141	215	22	121	20	9	11	44	3	9	1	-	-
Wednesday	308	12.80	26	86	235	15	70	17	7	3	56	4	13	-	-	-
Thursday	278	11.55	38	84	210	26	66	16	8	5	50	4	13	2	-	-
Friday	321	13.34	48	127	241	36	101	24	10	9	56	2	17	-	-	-
Saturday	257	10.68	40	93	195	22	73	26	13	9	34	4	10	2	1	1
Total	1,918	79.68	256	697	1,465	166	571	142	66	51	304	22	74	7	2	1

Highway User Struck Rail Equip															
Day	Total Incidents		Total				At Public Crossing						At Private Crossing		
	Cnt	%	Kld	Nonfatal	Motor Vehicle			Other			Motor Vehicle				
					Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal		
Sunday	45	1.87	1	34	40	1	31	2	-	2	3	-	1		
Monday	63	2.62	6	35	56	6	32	4	-	1	3	-	2		
Tuesday	75	3.12	11	31	70	11	29	2	-	2	3	-	-		
Wednesday	87	3.61	3	68	79	3	65	1	-	1	7	-	2		
Thursday	70	2.91	5	20	66	5	20	1	-	-	3	-	-		
Friday	74	3.07	2	39	67	2	34	1	-	1	6	-	4		
Saturday	75	3.12	5	31	72	4	31	1	1	-	2	-	-		
Total	489	20.32	33	258	450	32	242	12	1	7	27	-	9		

Grand Total																
Day	Total Incidents		Total				At Public Crossing						At Private Crossing			
	Cnt	%	Kld	Nonfatal	Motor Vehicle			Other			Motor Vehicle			Other		
					Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Sunday	247	10.26	38	109	199	26	92	19	7	10	28	4	7	1	1	-
Monday	335	13.92	39	126	266	26	111	26	12	7	42	1	8	1	-	-
Tuesday	355	14.75	45	172	285	33	150	22	9	13	47	3	9	1	-	-
Wednesday	395	16.41	29	154	314	18	135	18	7	4	63	4	15	-	-	-
Thursday	348	14.46	43	104	276	31	86	17	8	5	53	4	13	2	-	-
Friday	395	16.41	50	166	308	38	135	25	10	10	62	2	21	-	-	-
Saturday	332	13.79	45	124	267	26	104	27	14	9	36	4	10	2	1	1
Total	2,407	100.0	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-6 TOTAL HIGHWAY-RAIL INCIDENTS BY HOUR OF DAY, 2008

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	79	3.28	3	30	62	2	22	6	1	5	11	-	3	-	-	-	-
2	67	2.78	4	21	58	3	15	3	1	2	6	-	4	-	-	-	-
3	46	1.91	6	10	39	4	10	2	2	-	5	-	-	-	-	-	-
4	44	1.83	3	5	33	2	3	1	1	-	10	-	2	-	-	-	-
5	47	1.95	2	15	39	2	14	-	-	-	8	-	1	-	-	-	-
6	72	2.99	4	15	57	3	12	1	-	1	14	1	2	-	-	-	-
7	101	4.20	12	39	81	9	35	6	3	2	12	-	1	2	-	-	1
8	109	4.53	6	43	86	4	34	6	2	1	16	-	8	1	-	-	-
9	130	5.40	14	50	103	12	39	5	1	4	22	1	7	-	-	-	-
10	135	5.61	15	44	105	10	36	7	3	2	23	2	6	-	-	-	-
11	154	6.40	9	65	118	7	54	6	1	1	30	1	10	-	-	-	-
12	56	2.33	3	23	49	2	21	3	1	1	4	-	1	-	-	-	-
Total	1,040	43.21	81	360	830	60	295	46	16	19	161	5	45	3	-	-	1
PM																	
1	147	6.11	13	99	125	9	92	4	1	2	16	2	5	2	1	-	-
2	139	5.77	16	57	102	10	47	11	5	5	26	1	5	-	-	-	-
3	154	6.40	29	62	115	19	51	14	5	5	25	5	6	-	-	-	-
4	122	5.07	25	83	98	17	76	8	6	2	15	1	5	1	1	-	-
5	133	5.53	19	38	97	14	28	17	5	7	19	-	3	-	-	-	-
6	114	4.74	19	56	92	15	49	10	2	4	11	2	3	1	-	-	-
7	91	3.78	20	33	75	12	32	7	5	-	9	3	1	-	-	-	-
8	91	3.78	16	31	70	9	24	13	7	6	8	-	1	-	-	-	-
9	79	3.28	12	28	62	1	23	13	10	3	4	1	2	-	-	-	-
10	87	3.61	10	27	73	8	23	4	2	2	10	-	2	-	-	-	-
11	77	3.20	9	37	70	9	34	1	-	1	6	-	2	-	-	-	-
12	133	5.53	20	44	106	15	39	6	3	2	21	2	3	-	-	-	-
Total	1,367	56.79	208	595	1,085	138	518	108	51	39	170	17	38	4	2	-	-
Total	2,407	100.0	289	955	1,915	198	813	154	67	58	331	22	83	7	2	-	1

TABLE 7-7 TOTAL HIGHWAY-RAIL INCIDENTS BY TYPE HIGHWAY USER, 2008

Rail Equip Struck Highway User																
Highway User	Total Incidents		At Public Crossing												At Private Crossing	
			Total				Motor Vehicle			Other						
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	789	32.78	100	256	720	90	246	-	-	-	69	10	10	-	-	-
Truck	101	4.20	9	63	77	8	58	-	-	-	24	1	5	-	-	-
Truck & Trail	343	14.25	8	117	238	7	87	-	-	-	105	1	30	-	-	-
Pickup Truck	325	13.50	40	119	257	35	104	-	-	-	68	5	15	-	-	-
Van	78	3.24	6	29	66	6	26	-	-	-	12	-	3	-	-	-
Bus	3	0.12	-	1	3	-	1	-	-	-	-	-	-	-	-	-
Motorcycle	6	0.25	1	1	6	1	1	-	-	-	-	-	-	-	-	-
Oth Mtr V.	124	5.15	24	59	98	19	48	-	-	-	26	5	11	-	-	-
Pedestrian	120	4.99	63	45	-	-	-	117	61	44	-	-	-	3	2	1
Other	29	1.20	5	7	-	-	-	25	5	7	-	-	-	4	-	-
Total	1,918	79.68	256	697	1,465	166	571	142	66	51	304	22	74	7	2	1

Highway User Struck Rail Equip																
Highway User	Total Incidents		At Public Crossing											At Private Crossing		
			Total				Motor Vehicle			Other						
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	250	10.39	13	109	243	13	107	-	-	-	7	-	2	-	-	-
Truck	29	1.20	-	17	27	-	16	-	-	-	2	-	1	-	-	-
Truck & Trail	31	1.29	1	46	25	1	45	-	-	-	6	-	1	-	-	-
Pickup Truck	93	3.86	12	45	84	12	41	-	-	-	9	-	4	-	-	-
Van	27	1.12	3	12	27	3	12	-	-	-	-	-	-	-	-	-
Bus	1	0.04	-	-	1	-	-	-	-	-	-	-	-	-	-	-
School Bus	1	0.04	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Motorcycle	4	0.17	1	2	4	1	2	-	-	-	-	-	-	-	-	-
Oth Mtr V.	41	1.70	2	20	38	2	19	-	-	-	3	-	1	-	-	-
Pedestrian	6	0.25	1	4	-	-	-	6	1	4	-	-	-	-	-	-
Other	6	0.25	-	3	-	-	-	6	-	3	-	-	-	-	-	-
Total	489	20.32	33	258	450	32	242	12	1	7	27	-	9	-	-	-

Grand Total																
Highway User	Total Incidents		At Public Crossing												At Private Crossing	
			Total				Motor Vehicle			Other						
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Car	1,039	43.17	113	365	963	103	353	-	-	-	76	10	12	-	-	-
Truck	130	5.40	9	80	104	8	74	-	-	-	26	1	6	-	-	-
Truck & Trail	374	15.54	9	163	263	8	132	-	-	-	111	1	31	-	-	-
Pickup Truck	418	17.37	52	164	341	47	145	-	-	-	77	5	19	-	-	-
Van	105	4.36	9	41	93	9	38	-	-	-	12	-	3	-	-	-
Bus	4	0.17	-	1	4	-	1	-	-	-	-	-	-	-	-	-
School Bus	1	0.04	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Motorcycle	10	0.42	2	3	10	2	3	-	-	-	-	-	-	-	-	-
Oth Mtr V.	165	6.86	26	79	136	21	67	-	-	-	29	5	12	-	-	-
Pedestrian	126	5.23	64	49	-	-	-	123	62	48	-	-	-	3	2	1
Other	35	1.45	5	10	-	-	-	31	5	10	-	-	-	4	-	-
Total	2,407	100.0	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-8 HIGHWAY-RAIL INCIDENTS BY USERS, 2008

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	789	32.8	594	61	30	4	1	1	27	45	11	15
Truck	101	4.2	75	8	2	1	-	-	9	4	1	1
Truck & Trail	343	14.3	251	14	3	1	1	1	49	21	1	1
Pickup Truck	325	13.5	248	23	1	2	-	-	21	22	6	2
Van	78	3.2	51	5	4	-	1	-	7	10	-	-
Bus	3	0.1	3	-	-	-	-	-	-	-	-	-
Motorcycle	6	0.2	3	2	-	-	-	-	1	-	-	-
Oth Mtr V.	124	5.2	104	2	4	-	-	-	4	6	3	1
Pedestrian	120	5.0	68	33	15	-	-	-	2	1	-	1
Other	29	1.2	19	3	-	1	-	-	1	3	2	-
Total	1,918	79.7	1,416	151	59	9	3	2	121	112	24	21

Highway User Struck Rail Equip												
Highway User	Total		Freight Train	Psgr Train	Commuter Train	Work Train	Cut of Cars	Yard/ Switch	Light loco(s)	Maint Insp car	Spec MOW Eqp	
	Cnt	%										
Car	250	10.4	175	9	4	-	1	25	19	12	5	
Truck	29	1.2	20	1	-	-	1	-	4	2	1	
Truck & Trail	31	1.3	23	1	-	1	-	2	4	-	-	
Pickup Truck	93	3.9	68	3	-	1	-	8	8	2	3	
Van	27	1.1	20	3	-	-	-	2	-	1	1	
Bus	1	0.0	-	-	-	-	-	-	-	-	1	
School Bus	1	0.0	-	-	-	-	-	1	-	-	-	
Motorcycle	4	0.2	2	-	-	-	-	1	1	-	-	
Oth Mtr V.	41	1.7	29	-	-	-	-	8	2	1	1	
Pedestrian	6	0.2	3	-	3	-	-	-	-	-	-	
Other	6	0.2	4	1	1	-	-	-	-	-	-	
Total	489	20.3	344	18	8	2	2	47	38	18	12	

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	1,039	43.2	769	70	34	4	1	2	52	64	23	20
Truck	130	5.4	95	9	2	1	-	1	9	8	3	2
Truck & Trail	374	15.5	274	15	3	2	1	1	51	25	1	1
Pickup Truck	418	17.4	316	26	1	3	-	-	29	30	8	5
Van	105	4.4	71	8	4	-	1	-	9	10	1	1
Bus	4	0.2	3	-	-	-	-	-	-	-	-	1
School Bus	1	0.0	-	-	-	-	-	-	1	-	-	-
Motorcycle	10	0.4	5	2	-	-	-	-	2	1	-	-
Oth Mtr V.	165	6.9	133	2	4	-	-	-	12	8	4	2
Pedestrian	126	5.2	71	33	18	-	-	-	2	1	-	1
Other	35	1.5	23	4	1	1	-	-	1	3	2	-
Total	2,407	100.0	1,760	169	67	11	3	4	168	150	42	33

TABLE 7-9 TOTAL HIGHWAY-RAIL INCIDENTS BY WARNING DEVICE, 2008

Warning	Total Incidents		At Public Crossing						At Private Crossing							
	Total		Motor Vehicle			Other			Motor Vehicle			Other				
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal
Unknown	92	3.82	6	18	4	-	-	2	2	1	83	4	17	3	-	-
Other	14	0.58	1	3	2	-	2	-	-	-	11	-	1	1	1	-
Cross bucks	587	24.39	69	229	516	63	206	10	2	3	61	4	20	-	-	-
Stop signs	367	15.25	45	146	212	28	107	7	3	2	146	14	36	2	-	1
Special warning	47	1.95	1	12	38	1	10	-	-	-	9	-	2	-	-	-
HWTS,WW,Bells	13	0.54	-	-	12	-	-	-	-	-	1	-	-	-	-	-
Flashing lights	398	16.54	26	178	380	23	172	8	3	4	10	-	2	-	-	-
Gates	889	36.93	141	369	751	83	316	127	57	48	10	-	5	1	1	-
Total	2,407	100.0	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1

TABLE 7-10 TOTAL HIGHWAY-RAIL INCIDENTS BY WEATHER, 2008

Rail Equip Struck Highway User																	
Type Weather	Total Incidents		Total				At Public Crossing						At Private Crossing				
							Motor Vehicle			Other			Motor Vehicle			Other	
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
Clear	1,388	57.67	186	522	1,066	124	425	102	39	43	216	21	54	4	2	-	
Cloudy	340	14.13	50	125	245	27	102	30	22	4	63	1	18	2	-	1	
Rain	112	4.65	15	27	89	11	26	5	4	1	18	-	-	-	-	-	
Fog	16	0.66	1	2	11	-	1	2	1	1	3	-	-	-	-	-	
Sleet	8	0.33	-	1	8	-	1	-	-	-	-	-	-	-	-	-	
Snow	54	2.24	4	20	46	4	16	3	-	2	4	-	2	1	-	-	
Total	1,918	79.68	256	697	1,465	166	571	142	66	51	304	22	74	7	2	1	

Highway User Struck Rail Equip														
Type Weather	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	
Clear	294	12.21	19	163	268	18	151	10	1	5	16	-	7	
Cloudy	109	4.53	7	43	101	7	41	1	-	1	7	-	1	
Rain	40	1.66	2	24	36	2	23	-	-	-	4	-	1	
Fog	19	0.79	3	11	19	3	11	-	-	-	-	-	-	
Sleet	1	0.04	-	-	1	-	-	-	-	-	-	-	-	
Snow	26	1.08	2	17	25	2	16	1	-	1	-	-	-	
Total	489	20.32	33	258	450	32	242	12	1	7	27	-	9	

Grand total																	
Type Weather	Total Incidents		Total				At Public Crossing						At Private Crossing				
							Motor Vehicle			Other			Motor Vehicle			Other	
	Cnt	%	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	Cnt	Kld	Nonfatal	
Clear	1,682	69.88	205	685	1,334	142	576	112	40	48	232	21	61	4	2	-	
Cloudy	449	18.65	57	168	346	34	143	31	22	5	70	1	19	2	-	1	
Rain	152	6.31	17	51	125	13	49	5	4	1	22	-	1	-	-	-	
Fog	35	1.45	4	13	30	3	12	2	1	1	3	-	-	-	-	-	
Sleet	9	0.37	-	1	9	-	1	-	-	-	-	-	-	-	-	-	
Snow	80	3.32	6	37	71	6	32	4	-	3	4	-	2	1	-	-	
Total	2,407	100.0	289	955	1,915	198	813	154	67	58	331	22	83	7	2	1	

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 grade 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 FRA F6180.57). The motorist did sustain a reportable injury arising from the operation of a railroad. Therefore, an injury report (Form FRA F6180.55a) must be completed. If the motorist had struck the consist, a Form FRA F6180.57 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 grade 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 FRA F6180.54, 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 FRA F6180.55a) would need to be completed.

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CHAPTER 8

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THAT INVOLVE MOTOR VEHICLES**

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TABLE 8-1 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS BY STATE, 2008

States	Accidents				Deaths				Nonfatal			
	Cnt	Per 100 Xings	Per 100K Vehicles	Per	Cnt	Per 100 Xings	Per 100K Vehicles	Per	Cnt	Per 100 Xings	Per 100K Vehicles	Per
				100K ADT				100K ADT				100K ADT
Alabama	74	2.60	1.55	1.30	7	0.25	0.15	0.12	29	1.02	6.06	0.51
Alaska	1	0.46	0.14	0.19	.	.	.	.	.	.	.	.
Arizona	20	2.60	0.44	0.76	.	.	.	.	9	1.17	2.00	0.34
Arkansas	62	2.11	2.99	1.75	6	0.20	0.29	0.17	18	0.61	8.68	0.51
California	86	1.34	0.25	0.25	6	0.09	0.02	0.02	72	1.12	2.07	0.21
Colorado	26	1.50	1.43	0.79	8	0.46	0.44	0.24	2	0.12	1.10	0.06
Connecticut	3	0.82	0.10	0.23	.	.	.	.	.	.	.	.
Delaware	.	.	.	.	.	.	.	.	.	.	.	.
Dist Of Columbia	.	.	.	.	.	.	.	.	.	.	.	.
Florida	56	1.44	0.33	0.28	18	0.46	0.11	0.09	27	0.69	1.58	0.13
Georgia	85	1.54	0.98	0.92	8	0.15	0.09	0.09	30	0.55	3.45	0.32
Hawaii	.	.	.	.	.	.	.	.	.	.	.	.
Idaho	18	1.39	1.36	1.05	2	0.15	0.15	0.12	4	0.31	3.02	0.23
Illinois	112	1.43	1.11	0.56	15	0.19	0.15	0.08	59	0.75	5.86	0.30
Indiana	122	2.05	2.39	0.89	15	0.25	0.29	0.11	41	0.69	8.03	0.30
Iowa	62	1.41	1.76	1.17	4	0.09	0.11	0.08	23	0.52	6.53	0.43
Kansas	35	0.64	1.40	0.78	5	0.09	0.20	0.11	14	0.26	5.59	0.31
Kentucky	36	1.52	1.00	0.97	2	0.08	0.06	0.05	14	0.59	3.88	0.38
Louisiana	94	3.12	2.36	1.52	13	0.43	0.33	0.21	38	1.26	9.52	0.62
Maine	6	0.72	0.53	0.31	.	.	.	.	.	.	.	.
Maryland	11	1.66	0.24	0.46	.	.	.	.	1	0.15	0.22	0.04
Massachusetts	7	0.84	0.13	0.14	.	.	.	.	3	0.36	0.54	0.06
Michigan	52	1.06	0.61	0.38	2	0.04	0.02	0.01	20	0.41	2.36	0.14
Minnesota	51	1.12	1.02	0.81	6	0.13	0.12	0.09	17	0.37	3.41	0.27
Mississippi	67	2.95	3.29	1.59	13	0.57	0.64	0.31	70	3.08	34.39	1.66
Missouri	34	0.85	0.68	0.81	6	0.15	0.12	0.14	15	0.37	2.99	0.36
Montana	10	0.71	1.03	0.73	2	0.14	0.21	0.15	1	0.07	1.03	0.07
Nebraska	38	1.25	2.14	2.03	1	0.03	0.06	0.05	19	0.63	10.68	1.01
Nevada	3	1.05	0.20	0.33	.	.	.	.	1	0.35	0.67	0.11
New Hampshire	2	0.57	0.16	0.27	.	.	.	.	1	0.29	0.79	0.14
New Jersey	27	1.70	0.42	0.29	.	.	.	.	15	0.95	2.34	0.16
New Mexico	7	0.96	0.43	0.74	1	0.14	0.06	0.11	3	0.41	1.82	0.32
New York	30	1.13	0.25	0.40	3	0.11	0.03	0.04	10	0.38	0.85	0.13
North Carolina	58	1.44	0.90	0.51	8	0.20	0.12	0.07	20	0.50	3.11	0.18
North Dakota	12	0.34	1.63	1.15	1	0.03	0.14	0.10	6	0.17	8.13	0.58
Ohio	75	1.22	0.67	0.48	10	0.16	0.09	0.06	29	0.47	2.59	0.19
Oklahoma	56	1.44	1.68	1.31	8	0.21	0.24	0.19	30	0.77	9.02	0.70
Oregon	12	0.58	0.38	0.26	2	0.10	0.06	0.04	1	0.05	0.31	0.02
Pennsylvania	45	1.14	0.44	0.39	4	0.10	0.04	0.03	10	0.25	0.97	0.09
Rhode Island	.	.	.	.	.	.	.	.	.	.	.	.
South Carolina	48	1.76	1.33	0.78	3	0.11	0.08	0.05	14	0.51	3.87	0.23
South Dakota	12	0.62	1.30	1.06	1	0.05	0.11	0.09	8	0.41	8.67	0.71
Tennessee	54	1.90	0.98	0.93	4	0.14	0.07	0.07	24	0.84	4.38	0.41
Texas	184	1.88	1.00	0.53	10	0.10	0.05	0.03	82	0.84	4.44	0.24
Utah	9	1.18	0.38	0.47	.	.	.	.	2	0.26	0.84	0.10
Vermont	2	0.49	0.34	0.30	.	.	.	.	2	0.49	3.39	0.30
Virginia	25	1.28	0.37	0.48	.	.	.	.	8	0.41	1.20	0.15
Washington	20	0.79	0.34	0.44	1	0.04	0.02	0.02	3	0.12	0.50	0.07
West Virginia	8	0.54	0.55	0.50	2	0.13	0.14	0.13	5	0.34	3.43	0.32
Wisconsin	55	1.34	1.03	0.61	1	0.02	0.02	0.01	13	0.32	2.43	0.14
Wyoming	3	0.77	0.43	0.84	.	.	.	.	.	.	.	.
Total...	1,915	1.41	0.76	0.60	198	0.15	0.08	0.06	813	0.60	3.21	0.26

**TABLE 8-2 RATES FOR MOTOR VEHICLE INCIDENTS AT PUBLIC CROSSINGS
BY WARNING DEVICE, 2008**

Type Warning	Accidents			Deaths			Nonfatal			Number of Crossings
	Cnt	Per 100 100K		Cnt	Per 100 100K		Cnt	Per 100 100K		
		Xings	ADT		Xings	ADT		Xings	ADT	
Unknown	4	0.12	0.06	.	.	.	.	.	.	3,297
Other	2	0.54	0.27	.	.	.	2	0.54	0.27	372
Cross bucks	516	0.96	1.33	63	0.12	0.16	206	0.39	0.53	53,500
Stop signs	212	1.86	3.67	28	0.25	0.49	107	0.94	1.85	11,412
Special warning	38	1.73	0.51	1	0.05	0.01	10	0.45	0.13	2,202
HWTS,WW,Bells	12	1.00	0.27	.	.	.	.	.	.	1,196
Flashing lights	380	1.72	0.44	23	0.10	0.03	172	0.78	0.20	22,039
Gates	751	1.79	0.45	83	0.20	0.05	316	0.75	0.19	42,022
Total	1,915	1.41	0.60	198	0.15	0.06	813	0.60	0.26	136,040

**TABLES 8-3 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY RAILROAD AND TYPE WARNING, 2008**

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	-	-	8	5	-	-	11	67	78	13
Burlington Northern Santa Fe	-	-	77	9	3	1	37	111	182	56
Canadian National	-	-	59	23	-	-	37	30	100	49
Canadian Pacific	-	-	12	9	2	-	10	9	29	13
Conrail Shared Assets	1	-	3	3	1	-	9	1	11	7
CSX Transportation	-	-	47	35	6	1	66	134	233	56
Florida East Coast	-	-	-	-	-	-	-	10	8	2
Guilford Rail System	-	-	1	-	-	-	3	2	4	2
Other Railroads	-	-	89	30	9	7	71	38	155	89
Indiana Harbor Belt	-	-	1	-	1	-	-	5	2	5
Kansas City Southern	-	-	41	2	1	2	8	16	61	9
Long Island Rail Road	-	-	-	-	-	-	-	6	6	-
MD Assn. of Rail Comm	-	-	-	-	-	-	-	1	1	-
Mass Bay Transit Auth.	-	-	-	-	-	-	-	2	2	-
Metro North Commuter	-	-	-	-	-	-	1	1	2	-
Montana Rail Link	-	-	1	-	1	-	-	-	1	1
Northern IN Comm Trans	-	-	1	3	-	-	1	-	5	-
Northeast IL Reg Comm	-	-	-	-	-	-	-	13	10	3
New Jersey Transit Rail	1	-	-	-	-	-	1	5	7	-
Norfolk Southern Corp.	-	2	62	31	5	-	66	153	270	49
Paducah & Louisville	-	-	1	-	1	-	2	-	3	1
Peninsula Comm San Mateo Cnty	-	-	-	-	-	-	-	2	2	-
Port Terminal RR Assn	-	-	1	-	2	-	-	-	2	1
Southern CA Reg Rail Auth.	-	-	-	-	-	-	1	8	9	-
Term RR Assn Of St. Louis	-	-	2	-	-	-	2	-	2	2
Union Pacific	2	-	104	60	5	1	48	136	269	87
Wheeling & Lake Erie	-	-	5	1	-	-	2	1	7	2
Wisconsin & Southern RR	-	-	1	1	-	-	4	-	3	3
Total	4	2	516	212	38	12	380	751	1,465	450

**TABLES 8-4 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY STATE AND TYPE WARNING, 2008**

States	Type of Warning							
	Unknown	Other	Cross Stop bucks signs	Special warning	HWTs,WW, Bells	Flashing lights	Gates	
Alabama	-	-	16	24	-	-	21	13
Alaska	-	-	-	-	1	-	-	-
Arizona	-	-	1	-	-	-	5	14
Arkansas	-	-	21	24	-	2	5	10
California	1	-	10	2	1	-	7	65
Colorado	-	-	9	6	2	1	2	6
Connecticut	-	-	-	1	-	1	-	1
Florida	-	-	4	2	-	-	2	48
Georgia	-	-	13	14	2	1	15	40
Idaho	-	-	2	11	1	-	2	2
Illinois	-	-	29	3	2	-	33	45
Indiana	-	-	16	21	1	-	34	50
Iowa	-	-	29	5	2	-	21	5
Kansas	-	-	12	3	1	-	3	16
Kentucky	-	-	9	2	1	-	12	12
Louisiana	-	-	38	13	-	-	17	26
Maine	-	-	1	-	-	-	3	2
Maryland	-	-	2	1	-	1	3	4
Massachusetts	-	-	1	-	-	-	2	4
Michigan	-	-	6	14	-	-	18	14
Minnesota	-	-	17	11	1	-	15	7
Mississippi	-	-	30	8	1	-	11	17
Missouri	-	-	16	3	-	2	6	7
Montana	-	-	6	1	1	-	-	2
Nebraska	-	-	21	1	-	-	5	11
Nevada	-	-	-	1	-	-	1	1
New Hampshire	-	-	-	-	-	-	1	1
New Jersey	-	-	3	-	1	-	16	7
New Mexico	-	-	3	2	-	-	-	2
New York	1	-	3	-	3	-	2	21
North Carolina	-	-	12	1	-	-	4	41
North Dakota	-	-	9	-	-	-	-	3
Ohio	-	-	23	2	-	1	7	42
Oklahoma	-	-	21	6	1	-	12	16
Oregon	-	-	4	2	-	-	1	5
Pennsylvania	1	2	13	2	1	1	11	14
South Carolina	-	-	9	5	5	-	14	15
South Dakota	-	-	6	1	-	-	5	-
Tennessee	-	-	16	1	-	1	18	18
Texas	-	-	56	6	7	-	19	96
Utah	-	-	3	-	-	-	3	3
Vermont	-	-	1	-	-	-	1	-
Virginia	-	-	3	-	2	-	5	15
Washington	1	-	2	4	-	1	1	11
West Virginia	-	-	2	-	-	-	4	2
Wisconsin	-	-	18	9	1	-	13	14
Wyoming	-	-	-	-	-	-	-	3
Total	4	2	516	212	38	12	380	751

**TABLE 8-5 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSING,
BY TYPE CONSIST AND CONSIST SPEED, 2008**

Rail Equip Struck Highway User

Consist Speed	Psgr							Whistle Ban?				
	Freight			Comm Work		Yard	Light	A	Yes	No	Unk	
	Total	Train	Trn	Train	Car(s)	Switch	loco(s)					
Unknown	-	-	-	-	-	-	-	-	-	-	-	-
1-9	244	125	6	2	18	57	26	10	15	222	7	
10-19	150	101	9	1	5	5	24	5	4	142	4	
20-29	239	217	10	-	2	-	9	1	9	228	2	
30-39	274	249	10	-	-	3	12	-	5	268	1	
40-49	340	309	22	1	-	1	7	-	3	333	4	
50-59	131	108	20	1	-	-	2	-	7	123	1	
>= 60	87	22	62	-	-	-	3	-	7	79	1	
Total	1,465	1,131	139	5	25	66	83	16	50	1,395	20	

Highway User Struck Rail Equip

Consist Speed	Psgr							Whistle Ban?			
	Freight			Comm Work		Yard	Light	A	Yes	No	Unk
	Total	Train	Trn	Train	Car(s)	Switch	loco(s)				
Unknown	48	36	-	-	2	7	1	2	1	47	-
1-9	142	66	2	-	15	30	21	8	11	130	1
10-19	71	57	-	1	2	5	4	2	4	65	2
20-29	59	50	3	-	-	1	5	-	3	55	1
30-39	40	36	3	1	-	-	-	-	2	37	1
40-49	60	59	-	-	-	-	1	-	-	59	1
50-59	20	14	5	-	-	-	1	-	1	19	-
>= 60	10	3	7	-	-	-	-	-	1	9	-
Total	450	321	20	2	19	43	33	12	23	421	6

Grand Total

Consist Speed	Psgr							Whistle Ban?			
	Freight			Comm Work		Yard	Light	A	Yes	No	Unk
	Total	Train	Trn	Train	Car(s)	Switch	loco(s)				
Unknown	48	36	-	-	2	7	1	2	1	47	-
1-9	386	191	8	2	33	87	47	18	26	352	8
10-19	221	158	9	2	7	10	28	7	8	207	6
20-29	298	267	13	-	2	1	14	1	12	283	3
30-39	314	285	13	1	-	3	12	-	7	305	2
40-49	400	368	22	1	-	1	8	-	3	392	5
50-59	151	122	25	1	-	-	3	-	8	142	1
>= 60	97	25	69	-	-	-	3	-	8	88	1
Total	1,915	1,452	159	7	44	109	116	28	73	1,816	26

TABLE 8-6 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, BY TYPE WARNING, MOTORIST ACTION, AND WARNING LOCATION, 2008

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	4	0.2	-	-	3	1	-	4	-	-	-
Other	1	0.1	-	-	1	-	-	-	1	-	-
Cross bucks	400	20.9	-	23	268	101	8	1	374	19	6
Stop signs	180	9.4	-	23	99	52	6	-	172	7	1
Special warning	17	0.9	-	2	11	4	-	-	16	-	1
HWTS,WW,Bells	8	0.4	-	2	5	1	-	-	8	-	-
Flashing lights	251	13.1	-	41	128	78	4	-	238	11	2
Gates	604	31.5	178	14	12	266	134	-	591	12	1
Total	1,465	76.5	178	105	527	503	152	5	1,400	49	11

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	-	0.0	-	-	-	-	-	-	-	-	-
Other	1	0.1	-	-	1	-	-	-	1	-	-
Cross bucks	116	6.1	-	6	107	-	3	-	111	5	-
Stop signs	32	1.7	-	-	31	-	1	-	32	-	-
Special warning	21	1.1	-	1	18	1	1	-	17	4	-
HWTS,WW,Bells	4	0.2	-	-	4	-	-	-	4	-	-
Flashing lights	129	6.7	-	8	118	-	3	-	125	4	-
Gates	147	7.7	112	6	13	1	15	-	144	3	-
Total	450	23.5	112	21	292	2	23	-	434	16	-

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	4	0.2	-	-	3	1	-	4	-	-	-
Other	2	0.1	-	-	2	-	-	-	2	-	-
Cross bucks	516	26.9	-	29	375	101	11	1	485	24	6
Stop signs	212	11.1	-	23	130	52	7	-	204	7	1
Special warning	38	2.0	-	3	29	5	1	-	33	4	1
HWTS,WW,Bells	12	0.6	-	2	9	1	-	-	12	-	-
Flashing lights	380	19.8	-	49	246	78	7	-	363	15	2
Gates	751	39.2	290	20	25	267	149	-	735	15	1
Total	1,915	100.0	290	126	819	505	175	5	1,834	65	11

**TABLE 8-7 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE VEHICLE, VEHICLE SPEED AND DRIVER GENDER, 2008**

Rail Equip Struck Highway User

Vehicle Speed	Driver Gender											
	Trk&						Oth Mtr		M		F	
	Total	Car	Trucks	Trail	Van	Buses	V.	?				
Unknown	80	46	19	6	4	1	4	8	48	24		
Stopped	600	326	113	94	26	2	39	47	388	165		
1-9	377	152	94	74	19	-	38	8	291	78		
10-19	209	103	45	42	7	-	12	5	154	50		
20-29	111	53	34	12	8	-	4	3	90	18		
30-39	47	18	17	7	2	-	3	-	37	10		
40-49	32	16	9	3	-	-	4	-	23	9		
50-59	8	5	3	-	-	-	-	1	4	3		
>= 60	1	1	-	-	-	-	-	-	1	-		
Total	1,465	720	334	238	66	3	104	72	1,036	357		

Highway User Struck Rail Equip

Vehicle Speed	Driver Gender											
	Trk&						Oth Mtr		M		F	
	Total	Car	Trucks	Trail	Van	Buses	V.	?				
Unknown	27	18	4	2	2	-	1	4	16	7		
Stopped	3	1	1	1	-	-	-	-	3	-		
1-9	155	89	29	7	10	2	18	2	111	42		
10-19	84	46	22	6	4	-	6	3	56	25		
20-29	71	34	21	1	6	-	9	1	50	20		
30-39	50	23	17	4	2	-	4	-	38	12		
40-49	38	20	10	3	2	-	3	-	29	9		
50-59	16	9	5	1	1	-	-	-	13	3		
>= 60	6	3	2	-	-	-	1	-	4	2		
Total	450	243	111	25	27	2	42	10	320	120		

Grand Total

Vehicle Speed	Driver Gender											
	Trk&						Oth Mtr		M		F	
	Total	Car	Trucks	Trail	Van	Buses	V.	?				
Unknown	107	64	23	8	6	1	5	12	64	31		
Stopped	603	327	114	95	26	2	39	47	391	165		
1-9	532	241	123	81	29	2	56	10	402	120		
10-19	293	149	67	48	11	-	18	8	210	75		
20-29	182	87	55	13	14	-	13	4	140	38		
30-39	97	41	34	11	4	-	7	-	75	22		
40-49	70	36	19	6	2	-	7	-	52	18		
50-59	24	14	8	1	1	-	-	1	17	6		
>= 60	7	4	2	-	-	-	1	-	5	2		
Total	1,915	963	445	263	93	5	146	82	1,356	477		

TABLE 8-8 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, BY VEHICLE SPEED, WEATHER AND CONDITION OF DRIVER, 2008

Rail Equip Struck Highway User

Vehicle Speed	Weather								Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	80	63	7	6	-	1	3	-	6	19	55
Stopped	600	424	105	40	7	5	19	7	24	63	506
1-9	377	277	74	14	3	1	8	-	43	116	218
10-19	209	156	33	13	-	1	6	2	20	67	120
20-29	111	84	15	5	-	-	7	-	13	37	61
30-39	47	33	6	5	1	-	2	-	3	19	25
40-49	32	24	4	4	-	-	-	-	7	11	14
50-59	8	4	1	2	-	-	1	-	-	4	4
>= 60	1	1	-	-	-	-	-	-	-	1	-
Total	1,465	1,066	245	89	11	8	46	9	116	337	1,003

Highway User Struck Rail Equip

Vehicle Speed	Weather								Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	27	13	6	4	1	-	3	-	5	5	17
Stopped	3	1	2	-	-	-	-	-	-	1	2
1-9	155	91	45	7	5	1	6	-	5	46	104
10-19	84	43	19	9	5	-	8	-	1	24	59
20-29	71	47	12	6	2	-	4	-	1	23	47
30-39	50	33	9	4	3	-	1	1	2	20	27
40-49	38	23	6	5	1	-	3	-	3	15	20
50-59	16	13	1	1	1	-	-	-	-	6	10
>= 60	6	4	1	-	1	-	-	-	3	1	2
Total	450	268	101	36	19	1	25	1	20	141	288

Grand Total

Vehicle Speed	Weather								Driver		
	Total	Clear	Cloudy	Rain	Fog	Sleet	Snow	?	Kld	Nonfatal	Unhurt
Unknown	107	76	13	10	1	1	6	-	11	24	72
Stopped	603	425	107	40	7	5	19	7	24	64	508
1-9	532	368	119	21	8	2	14	-	48	162	322
10-19	293	199	52	22	5	1	14	2	21	91	179
20-29	182	131	27	11	2	-	11	-	14	60	108
30-39	97	66	15	9	4	-	3	1	5	39	52
40-49	70	47	10	9	1	-	3	-	10	26	34
50-59	24	17	2	3	1	-	1	-	-	10	14
>= 60	7	5	1	-	1	-	-	-	3	2	2
Total	1,915	1,334	346	125	30	9	71	10	136	478	1,291

TABLE 8-9 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, BY DRIVER AGE, GENDER, AND TYPE VEHICLE, 2008

Age	Total		Type Vehicle										Driver Gender		
	Cnt	%	Car	Trk& Pickup			School			Motorcycle	Oth Mtr V. ?	M	F		
				Truck	Trail	Trk	Van	Bus	Bus						
Unknown	290	15.1	165	17	25	48	13	1	1		2	18	79	168	43
11-15	5	0.3	2	1	-	2	-	-	-		-	-	-	1	4
16-20	158	8.3	115	6	1	26	2	-	-		-	8	1	115	42
21-25	224	11.7	134	12	11	36	8	-	-		-	23	-	161	63
26-30	189	9.9	94	9	22	32	12	-	-		1	19	-	129	60
31-35	143	7.5	69	9	18	28	9	-	-		1	9	1	106	36
36-40	167	8.7	61	6	42	31	13	1	-		4	9	-	131	36
41-45	145	7.6	56	8	27	32	10	-	-		-	12	1	112	32
46-50	149	7.8	64	11	31	24	6	1	-		-	12	-	111	38
51-55	102	5.3	37	8	29	16	4	1	-		-	7	-	76	26
56-60	115	6.0	47	6	29	19	4	-	-		1	9	-	87	28
61-65	58	3.0	22	5	10	17	2	-	-		-	2	-	45	13
66-70	48	2.5	18	3	13	9	2	-	-		1	2	-	36	12
Other	122	6.4	79	3	5	21	8	-	-		-	6	-	78	44
Total	1,915	100.0	963	104	263	341	93	4	1		10	136	82	1,356	477

TABLE 8-10 MOTOR VEHICLES THAT STRUCK CONSIST AT PUBLIC CROSSINGS, BY CONSIST LENGTH, PORTION OF TRAIN STRUCK AND WARNING TYPE, 2008

Consist Length	Position of Consist Struck					Type of Warning							
	1st car/ 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr					Cross Other	Stop bucks	Special signs	Warning	Special warning	Flashing lights	Gates	
	Total	loco	Qtr	Qtr	Qtr								HWTS,WW,Bells
???	1	-	1	-	-	-	-	-	-	-	-	-	1
1	39	37	2	-	-	-	6	4	3	-	-	13	13
2-5	55	38	-	5	4	8	1	18	4	4	1	15	12
6-10	40	27	3	2	3	5	-	8	1	6	-	9	16
11-15	36	24	4	5	1	2	-	10	4	3	-	13	6
16-20	16	11	-	2	2	1	-	4	1	2	1	6	2
21-25	12	7	1	2	-	2	-	3	-	-	-	3	6
26-30	21	15	4	1	1	-	-	7	1	-	-	8	5
31-35	10	3	1	3	1	2	-	4	-	-	1	3	2
36-40	8	2	2	2	1	1	-	2	-	2	-	3	1
41-45	19	6	5	2	2	4	-	6	1	-	-	7	5
46-50	10	4	2	1	-	3	-	3	2	-	-	1	4
51-60	19	8	3	2	3	3	-	5	2	-	-	7	5
61-70	29	10	7	3	2	7	-	8	2	1	1	8	9
71-80	24	13	6	3	-	2	-	9	1	-	-	3	11
81-90	24	9	4	4	5	2	-	4	2	-	-	5	13
91-100	19	6	3	2	4	4	-	6	1	-	-	4	8
> 100	68	24	15	9	8	12	-	13	6	-	-	21	28
-Total	450	244	63	48	37	58	1	116	32	21	4	129	147

TABLE 8-11 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, BY CONSIST LENGTH, TYPE CONSIST, AND DRIVER GENDER, 2008

Rail Equip Struck Highway User

Consist Length	Driver Gender											
	Psgr					Yard			Light		M	F
	Total	Freight Train	Comm Trn	Work Train	Car(s)	Switch	loco(s)	A	?			
???	-	-	-	-	-	-	-	-	-	-	-	-
1	77	-	-	-	24	-	38	15	2	54	21	
2-5	152	49	44	-	1	14	44	-	5	102	45	
6-10	145	62	57	1	-	23	1	1	6	101	38	
11-15	97	47	36	-	-	14	-	-	6	72	19	
16-20	55	51	1	1	-	2	-	-	1	42	12	
21-25	45	41	-	-	-	4	-	-	6	31	8	
26-30	51	47	-	-	-	4	-	-	5	35	11	
31-35	39	39	-	-	-	-	-	-	1	29	9	
36-40	48	47	-	1	-	-	-	-	5	34	9	
41-45	53	49	1	-	-	3	-	-	2	35	16	
46-50	37	36	-	1	-	-	-	-	-	25	12	
51-60	84	83	-	-	-	1	-	-	1	61	22	
61-70	92	91	-	1	-	-	-	-	1	68	23	
71-80	99	99	-	-	-	-	-	-	5	74	20	
81-90	83	82	-	-	-	1	-	-	7	53	23	
91-100	63	63	-	-	-	-	-	-	3	39	21	
> 100	245	245	-	-	-	-	-	-	16	181	48	
Total	1,465	1,131	139	5	25	66	83	16	72	1,036	357	

Highway User Struck Rail Equip

Consist Length	Driver Gender											
	Psgr					Yard			Light		M	F
	Total	Freight Train	Comm Trn	Work Train	Car(s)	Switch	loco(s)	A	?			
???	1	-	-	-	-	-	-	1	-	-	1	
1	39	-	-	-	16	-	12	11	-	27	12	
2-5	55	16	7	-	1	11	20	-	-	38	17	
6-10	40	19	10	-	-	10	1	-	-	27	13	
11-15	36	24	3	-	-	9	-	-	-	24	12	
16-20	16	13	-	-	-	3	-	-	1	13	2	
21-25	12	11	-	-	-	1	-	-	-	9	3	
26-30	21	19	-	-	-	2	-	-	1	14	6	
31-35	10	10	-	-	-	-	-	-	-	7	3	
36-40	8	5	-	-	-	3	-	-	-	5	3	
41-45	19	18	-	-	-	1	-	-	2	14	3	
46-50	10	10	-	-	-	-	-	-	-	10	-	
51-60	19	19	-	-	-	-	-	-	-	12	7	
61-70	29	26	-	1	-	2	-	-	1	20	8	
71-80	24	24	-	-	-	-	-	-	2	20	2	
81-90	24	22	-	1	-	1	-	-	-	20	4	
91-100	19	19	-	-	-	-	-	-	2	11	6	
> 100	68	66	-	-	2	-	-	-	1	49	18	
Total	450	321	20	2	19	43	33	12	10	320	120	

'A' = 'Spec MOW Eqp'

**TABLE 8-12 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE CONSIST, NUMBER OF PEOPLE ON TRAIN, AND TYPE PERSON HURT, 2008**

Consist	People on Train		Total		Hwy User		RR Employees		Others	
	Total	Avg	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal	Kld	Nonfatal
Freight Train	3,636	3	154	561	152	525	2	36	0	0
Psgr Train	16,988	152	26	146	27	45	0	18	-1	83
Commuter Train	7,087	151	9	12	9	10	0	1	0	1
Work Train	15	2	-	4	0	3	0	1	0	0
Single Car	3	1	-	-	0	0	0	0	0	0
Cut of Cars	6	2	-	1	0	1	0	0	0	0
Yard/ Switch	280	3	2	19	1	17	1	2	0	0
Light loco(s)	269	2	7	33	7	31	0	2	0	0
Maint Insp car	54	1	-	24	0	22	0	2	0	0
Spec MOW Eqp	35	1	-	13	0	13	0	0	0	0
Total	28,373	15	198	813	196	667	3	62	-1	84

**TABLE 8-13 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE VEHICLE, NUMBER OF OCCUPANTS, AND VEHICLE DAMAGE, 2008**

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	1,107	1	4,338,329	4,505	103	353	104	346	0	6	-1	1
Truck	118	1	1,203,775	11,575	8	74	6	29	2	16	0	29
Trk& Trail	251	1	5,882,001	22,365	8	132	7	47	1	34	0	51
Pickup Trk	434	1	2,241,480	6,573	47	145	47	140	0	3	0	2
Van	130	1	409,427	4,402	9	38	9	36	0	2	0	0
Bus	16	4	17,000	4,250	-	1	0	0	0	1	0	0
School Bus	45	45	100	100	-	-	0	0	0	0	0	0
Motorcycle	7	1	46,100	4,610	2	3	2	3	0	0	0	0
Oth Mtr V.	170	1	1,210,710	8,902	21	67	21	66	0	0	0	1
Total	2,278	1	15,348,922	8,015	198	813	196	667	3	62	-1	84

TABLE 8-14 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS, BY TYPE WARNING, POSITION ON CROSSING AND IF HAZMAT WAS RELEASED, 2008

Rail Equip Struck Highway User

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Both	Neither
Unknown	4	0.2	-	1	3	-	-	-	-	4
Other	1	0.1	-	-	1	-	-	-	-	1
Cross bucks	400	20.9	11	90	296	3	1	78	5	316
Stop signs	180	9.4	7	47	125	1	-	47	-	133
Special warning	17	0.9	-	4	13	-	-	5	-	12
HWTS,WW,Bells	8	0.4	-	1	7	-	-	-	-	8
Flashing lights	251	13.1	14	64	169	4	2	68	1	180
Gates	604	31.5	68	293	220	23	3	161	1	439
Total	1,465	76.5	100	500	834	31	6	359	7	1,093

Highway User Struck Rail Equip

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Both	Neither
Unknown	-	0.0	-	-	-	-	-	-	-	-
Other	1	0.1	-	-	1	-	-	-	-	1
Cross bucks	116	6.1	-	-	115	1	-	29	-	87
Stop signs	32	1.7	-	-	32	-	-	8	-	24
Special warning	21	1.1	-	1	20	-	-	1	-	20
HWTS,WW,Bells	4	0.2	-	-	4	-	-	1	-	3
Flashing lights	129	6.7	-	-	129	-	-	27	-	102
Gates	147	7.7	-	2	145	-	-	39	-	108
Total	450	23.5	-	3	446	1	-	105	-	345

Grand Total

Type Warning	Total		Position on Crossing				Hazmat Released By			
	Cnt	%	Stalled	Stopped	Moving	Trapped	Hwy User	Rail User	Both	Neither
Unknown	4	0.2	-	1	3	-	-	-	-	4
Other	2	0.1	-	-	2	-	-	-	-	2
Cross bucks	516	26.9	11	90	411	4	1	107	5	403
Stop signs	212	11.1	7	47	157	1	-	55	-	157
Special warning	38	2.0	-	5	33	-	-	6	-	32
HWTS,WW,Bells	12	0.6	-	1	11	-	-	1	-	11
Flashing lights	380	19.8	14	64	298	4	2	95	1	282
Gates	751	39.2	68	295	365	23	3	200	1	547
Total	1,915	100.0	100	503	1,280	32	6	464	7	1,438

**TABLE 8-15 MOTOR VEHICLE HRC INCIDENTS AT PUBLIC CROSSINGS,
BY TYPE VEHICLE AND WARNING, 2008**

Rail Equip Struck Highway User

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing	
	Cnt	%							lights	Gates
Car	720	37.6	1	-	159	77	8	3	140	332
Truck	77	4.0	-	-	29	10	2	-	12	24
Trk& Trail	238	12.4	2	-	75	39	3	1	38	80
Pickup Trk	257	13.4	1	1	96	33	2	4	37	83
Van	66	3.4	-	-	15	8	1	-	8	34
Bus	3	0.2	-	-	-	-	-	-	-	3
School Bus	-	0.0	-	-	-	-	-	-	-	-
Motorcycle	6	0.3	-	-	-	-	-	-	2	4
Oth Mtr V.	98	5.1	-	-	26	13	1	-	14	44
Total	1,465	76.5	4	1	400	180	17	8	251	604

Highway User Struck Rail Equip

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing	
	Cnt	%							lights	Gates
Car	243	12.7	-	-	61	17	14	2	65	84
Truck	27	1.4	-	-	10	3	1	-	9	4
Trk& Trail	25	1.3	-	-	4	-	2	-	10	9
Pickup Trk	84	4.4	-	-	23	7	2	2	30	20
Van	27	1.4	-	-	9	2	1	-	7	8
Bus	1	0.1	-	-	-	-	-	-	-	1
School Bus	1	0.1	-	-	-	-	-	-	1	-
Motorcycle	4	0.2	-	1	1	1	-	-	-	1
Oth Mtr V.	38	2.0	-	-	8	2	1	-	7	20
Total	450	23.5	-	1	116	32	21	4	129	147

Grand Total

Type Vehicle	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS,WW,Bells	Flashing	
	Cnt	%							lights	Gates
Car	963	50.3	1	-	220	94	22	5	205	416
Truck	104	5.4	-	-	39	13	3	-	21	28
Trk& Trail	263	13.7	2	-	79	39	5	1	48	89
Pickup Trk	341	17.8	1	1	119	40	4	6	67	103
Van	93	4.9	-	-	24	10	2	-	15	42
Bus	4	0.2	-	-	-	-	-	-	-	4
School Bus	1	0.1	-	-	-	-	-	-	1	-
Motorcycle	10	0.5	-	1	1	1	-	-	2	5
Oth Mtr V.	136	7.1	-	-	34	15	2	-	21	64
Total	1,915	100.0	4	2	516	212	38	12	380	751

**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, 2008**

Rail Equip Struck Highway User

Type Vehicle	Status of Warning System							
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	475	-	444	6	2	1	3	19
Truck	36	1	35	-	-	-	-	-
Trk& Trail	119	-	116	2	-	-	-	1
Pickup Trk	124	-	114	3	-	-	-	7
Van	42	-	40	2	-	-	-	-
Bus	3	-	3	-	-	-	-	-
School Bus	-	-	-	-	-	-	-	-
Motorcycle	6	-	6	-	-	-	-	-
Oth Mtr V.	58	-	55	1	2	-	-	-
Total	863	1	813	14	4	1	3	27

Highway User Struck Rail Equip

Type Vehicle	Status of Warning System							
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	151	-	138	2	3	-	1	7
Truck	13	-	10	-	-	-	-	3
Trk& Trail	19	-	17	-	1	-	-	1
Pickup Trk	52	-	47	2	2	-	-	1
Van	15	-	12	-	-	-	-	3
Bus	1	-	-	-	-	-	-	1
School Bus	1	-	-	-	1	-	-	-
Motorcycle	1	-	1	-	-	-	-	-
Oth Mtr V.	27	-	23	1	-	-	-	3
Total	280	-	248	5	7	-	1	19

Grand Total

Type Vehicle	Status of Warning System							
	Total	Unknown	Provided Minimum 20 Secs.	Alleged > 60 Secs.	Alleged < 20 Secs.	Alleged No Warning	Confirm > 60 Secs.	Confirm No Warning
Car	626	-	582	8	5	1	4	26
Truck	49	1	45	-	-	-	-	3
Trk& Trail	138	-	133	2	1	-	-	2
Pickup Trk	176	-	161	5	2	-	-	8
Van	57	-	52	2	-	-	-	3
Bus	4	-	3	-	-	-	-	1
School Bus	1	-	-	-	1	-	-	-
Motorcycle	7	-	7	-	-	-	-	-
Oth Mtr V.	85	-	78	2	2	-	-	3
Total	1,143	1	1,061	19	11	1	4	46

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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 (AAR) and the American Short Line and Regional Railroad Association, were assigned the responsibility for making a site-specific inventory of each highway-rail grade crossing and for installing a unique identifying number at each location. The railroads were also identified as being responsible for the periodic updating of certain inventory information and the 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 FRA on the U.S. DOT-AAR Crossing Inventory Form (Form FRA F6180.71).

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 devices, 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, 2008

Railroads	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alton & Southern	39	0.0	-	-	24	0.0	15	0.0
Alaska RR Corp.	330	0.1	9	0.0	106	0.0	215	0.1
Amtrak	279	0.1	18	0.0	64	0.0	197	0.1
Bangor & Aroostook	504	0.2	5	0.0	342	0.2	157	0.1
Burlington Northern Santa Fe	27,293	12.3	197	0.1	9,735	4.4	17,361	7.8
Belt Rwy Of Chicago	99	0.0	-	-	61	0.0	38	0.0
Canadian National	10,520	4.7	133	0.1	3,863	1.7	6,524	2.9
Canadian Pacific	6,932	3.1	82	0.0	2,951	1.3	3,899	1.8
Conrail Shared Assets	1,530	0.7	11	0.0	413	0.2	1,106	0.5
CSX Transportation	26,109	11.8	301	0.1	9,001	4.1	16,807	7.6
Florida East Coast	841	0.4	12	0.0	107	0.0	722	0.3
Guilford Rail System	1,193	0.5	12	0.0	520	0.2	661	0.3
Other Railroads	71,216	32.1	594	0.3	29,044	13.1	41,578	18.8
Indiana Harbor Belt	99	0.0	-	-	49	0.0	50	0.0
Kansas City Southern	4,584	2.1	10	0.0	1,824	0.8	2,750	1.2
Long Island Rail Road	334	0.2	9	0.0	45	0.0	280	0.1
MD Assn. of Rail Comm	133	0.1	4	0.0	78	0.0	51	0.0
Mass Bay Transit Auth.	340	0.2	8	0.0	32	0.0	300	0.1
Metro North Commuter	163	0.1	4	0.0	70	0.0	89	0.0
Montana Rail Link	1,125	0.5	3	0.0	705	0.3	417	0.2
Northern IN Comm Trans	138	0.1	7	0.0	23	0.0	108	0.0
Northeast IL Reg Comm	397	0.2	114	0.1	28	0.0	255	0.1
New Jersey Transit Rail	449	0.2	25	0.0	89	0.0	335	0.2
Norfolk Southern Corp.	27,730	12.5	139	0.1	10,581	4.8	17,010	7.7
Paducah & Louisville	374	0.2	4	0.0	149	0.1	221	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.	308	0.1	15	0.0	34	0.0	259	0.1
Southeastern PA Trans.	254	0.1	11	0.0	33	0.0	210	0.1
Term RR Assn Of St. Louis	125	0.1	-	-	11	0.0	114	0.1
Union Pacific	35,786	16.1	222	0.1	12,678	5.7	22,886	10.3
Union RR (Pittsburgh)	53	0.0	6	0.0	39	0.0	8	0.0
Wheeling & Lake Erie	964	0.4	8	0.0	413	0.2	543	0.2
Wisconsin & Southern RR	1,329	0.6	21	0.0	503	0.2	805	0.4
Total	221,743	100.0	1,985	0.9	83,718	37.8	136,040	61.4

TABLE 9-2 AT-GRADE HIGHWAY-RAIL CROSSINGS BY STATE, 2008

States	Total		Pedestrian		Private Vehicle		Public Vehicle	
	Cnt	%	Cnt	%	Cnt	%	Cnt	%
Alabama	4,484	2.0	20	0.0	1,619	0.7	2,845	1.3
Alaska	334	0.2	9	0.0	106	0.0	219	0.1
Arizona	1,285	0.6	6	0.0	509	0.2	770	0.3
Arkansas	4,364	2.0	8	0.0	1,419	0.6	2,937	1.3
California	10,219	4.6	158	0.1	3,638	1.6	6,423	2.9
Colorado	2,842	1.3	25	0.0	1,086	0.5	1,731	0.8
Connecticut	646	0.3	9	0.0	269	0.1	368	0.2
Delaware	426	0.2	2	0.0	147	0.1	277	0.1
Dist Of Columbia	34	0.0	10	0.0	19	0.0	5	0.0
Florida	5,244	2.4	63	0.0	1,292	0.6	3,889	1.8
Georgia	7,915	3.6	43	0.0	2,369	1.1	5,503	2.5
Hawaii	8	0.0	-	-	-	-	8	0.0
Idaho	2,452	1.1	13	0.0	1,148	0.5	1,291	0.6
Illinois	12,279	5.5	342	0.2	4,108	1.9	7,829	3.5
Indiana	7,955	3.6	47	0.0	1,954	0.9	5,954	2.7
Iowa	7,347	3.3	42	0.0	2,904	1.3	4,401	2.0
Kansas	8,145	3.7	25	0.0	2,663	1.2	5,457	2.5
Kentucky	4,815	2.2	35	0.0	2,404	1.1	2,376	1.1
Louisiana	5,579	2.5	31	0.0	2,537	1.1	3,011	1.4
Maine	1,679	0.8	9	0.0	834	0.4	836	0.4
Maryland	1,357	0.6	20	0.0	674	0.3	663	0.3
Massachusetts	1,376	0.6	27	0.0	512	0.2	837	0.4
Michigan	7,283	3.3	75	0.0	2,300	1.0	4,908	2.2
Minnesota	7,146	3.2	60	0.0	2,515	1.1	4,571	2.1
Mississippi	4,177	1.9	16	0.0	1,886	0.9	2,275	1.0
Missouri	6,872	3.1	48	0.0	2,803	1.3	4,021	1.8
Montana	3,282	1.5	14	0.0	1,866	0.8	1,402	0.6
Nebraska	4,988	2.2	6	0.0	1,946	0.9	3,036	1.4
Nevada	523	0.2	3	0.0	235	0.1	285	0.1
New Hampshire	598	0.3	16	0.0	234	0.1	348	0.2
New Jersey	2,165	1.0	51	0.0	528	0.2	1,586	0.7
New Mexico	1,234	0.6	8	0.0	499	0.2	727	0.3
New York	5,320	2.4	72	0.0	2,587	1.2	2,661	1.2
North Carolina	7,027	3.2	52	0.0	2,944	1.3	4,031	1.8
North Dakota	4,796	2.2	16	0.0	1,280	0.6	3,500	1.6
Ohio	9,245	4.2	38	0.0	3,067	1.4	6,140	2.8
Oklahoma	5,276	2.4	13	0.0	1,364	0.6	3,899	1.8
Oregon	4,361	2.0	72	0.0	2,210	1.0	2,079	0.9
Pennsylvania	6,780	3.1	107	0.0	2,722	1.2	3,951	1.8
Rhode Island	138	0.1	26	0.0	39	0.0	73	0.0
South Carolina	3,990	1.8	16	0.0	1,251	0.6	2,723	1.2
South Dakota	3,011	1.4	7	0.0	1,071	0.5	1,933	0.9
Tennessee	4,700	2.1	22	0.0	1,830	0.8	2,848	1.3
Texas	15,053	6.8	27	0.0	5,254	2.4	9,772	4.4
Utah	1,315	0.6	3	0.0	547	0.2	765	0.3
Vermont	957	0.4	43	0.0	509	0.2	405	0.2
Virginia	4,440	2.0	40	0.0	2,448	1.1	1,952	0.9
Washington	5,246	2.4	48	0.0	2,655	1.2	2,543	1.1
West Virginia	3,451	1.6	55	0.0	1,913	0.9	1,483	0.7
Wisconsin	6,481	2.9	86	0.0	2,293	1.0	4,102	1.8
Wyoming	1,103	0.5	1	0.0	711	0.3	391	0.2
Total	221,743	100.0	1,985	0.9	83,718	37.8	136,040	61.4

TABLE 9-3 PUBLIC AT GRADE BY WARNING DEVICE AND RAILROAD, 2008

Railroads	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates
	Cnt	%								
Alton & Southern	15	0.01	-	-	3	-	-	-	6	6
Alaska RR Corp.	215	0.16	8	2	89	28	7	-	18	63
Amtrak	197	0.14	10	2	10	6	5	-	5	159
Bangor & Aroostook	157	0.12	-	-	58	3	5	-	86	5
Burlington Northern Santa Fe	17,361	12.76	238	20	7,907	746	111	72	1,881	6,386
Belt Rwy Of Chicago	38	0.03	1	-	12	-	-	-	8	17
Canadian National	6,524	4.80	70	15	2,231	829	50	26	1,359	1,944
Canadian Pacific	3,899	2.87	73	2	1,925	452	10	14	480	943
Conrail Shared Assets	1,106	0.81	91	13	208	19	183	15	439	138
CSX Transportation	16,807	12.35	368	9	3,723	1,372	285	168	3,155	7,727
Florida East Coast	722	0.53	9	-	34	4	27	-	31	617
Guilford Rail System	661	0.49	20	4	149	32	61	8	218	169
Other Railroads	41,578	30.56	1,268	219	21,766	4,249	955	511	7,240	5,370
Indiana Harbor Belt	50	0.04	2	-	11	-	2	-	12	23
Kansas City Southern	2,750	2.02	46	-	1,381	119	12	22	406	764
Long Island Rail Road	280	0.21	-	1	3	-	-	-	-	276
MD Assn. of Rail Comm	51	0.04	7	-	11	6	4	7	9	7
Mass Bay Transit Auth.	300	0.22	13	-	35	2	17	3	23	207
Metro North Commuter	89	0.07	2	-	13	1	7	1	29	36
Montana Rail Link	417	0.31	4	5	206	33	-	-	67	102
Northern IN Comm Trans	108	0.08	-	-	27	5	-	1	37	38
Northeast IL Reg Comm	255	0.19	-	-	-	1	-	-	3	251
New Jersey Transit Rail	335	0.25	3	-	24	-	7	1	68	232
Norfolk Southern Corp.	17,010	12.50	413	47	4,655	1,426	256	83	3,016	7,114
Paducah & Louisville	221	0.16	10	-	86	11	-	1	93	20
Port Terminal RR Assn	69	0.05	6	-	24	3	-	-	11	25
Southern CA Reg Rail Auth.	259	0.19	-	-	4	1	-	7	4	243
Southeastern PA Trans.	210	0.15	30	7	16	11	13	21	41	71
Term RR Assn Of St. Louis	114	0.08	1	-	12	2	39	-	18	42
Union Pacific	22,886	16.82	594	26	8,432	1,755	145	218	2,857	8,859
Union RR (Pittsburgh)	8	0.01	-	-	-	-	-	5	1	2
Wheeling & Lake Erie	543	0.40	8	-	265	22	1	3	132	112
Wisconsin & Southern RR	805	0.59	2	-	180	274	-	9	286	54
Total	136,040	100.0	3,297	372	53,500	11,412	2,202	1,196	22,039	42,022

TABLE 9-4 PUBLIC AT GRADE BY WARNING DEVICE AND STATE, 2008

States	Total		Unknown	Other	Cross bucks	Stop signs	Special warning	HWTS, WW, Bells	Flashing lights	Gates	AADT
	Cnt	%									
Alabama	2,845	2.09	40	9	769	685	16	86	513	727	5,680,255
Alaska	219	0.16	9	2	92	28	7	-	18	63	513,318
Arizona	770	0.57	14	-	229	72	12	4	47	392	2,617,647
Arkansas	2,937	2.16	110	1	1,686	219	67	26	391	437	3,533,645
California	6,423	4.72	100	15	2,046	232	26	196	790	3,018	34,879,712
Colorado	1,731	1.27	33	6	837	172	21	29	174	459	3,277,737
Connecticut	368	0.27	17	-	27	47	29	5	143	100	1,312,462
Delaware	277	0.20	6	1	23	1	19	1	164	62	1,209,712
Dist Of Columbia	5	0.00	-	-	-	1	2	-	2	-	71,200
Florida	3,889	2.86	85	6	771	148	79	7	512	2,281	20,150,110
Georgia	5,503	4.05	116	8	1,851	1,069	91	107	266	1,995	9,251,925
Hawaii	8	0.01	-	1	6	1	-	-	-	-	27,000
Idaho	1,291	0.95	9	-	416	540	1	4	172	149	1,708,402
Illinois	7,829	5.75	115	5	2,625	93	72	48	1,928	2,943	19,848,355
Indiana	5,954	4.38	80	12	1,575	994	10	65	1,293	1,925	13,772,704
Iowa	4,401	3.24	24	3	2,108	438	20	24	826	958	5,318,875
Kansas	5,457	4.01	68	2	3,469	178	66	31	411	1,232	4,477,331
Kentucky	2,376	1.75	119	-	984	52	46	8	726	441	3,724,407
Louisiana	3,011	2.21	112	10	1,351	218	22	7	502	789	6,170,002
Maine	836	0.61	7	-	273	11	64	4	393	84	1,959,392
Maryland	663	0.49	24	-	223	45	24	23	203	121	2,369,401
Massachusetts	837	0.62	36	3	111	8	61	14	283	321	5,098,856
Michigan	4,908	3.61	125	6	1,077	1,338	83	22	1,233	1,024	13,802,447
Minnesota	4,571	3.36	56	5	2,107	921	12	7	437	1,026	6,326,437
Mississippi	2,275	1.67	64	65	806	434	27	7	448	424	4,219,385
Missouri	4,021	2.96	155	3	2,045	122	68	40	741	847	4,201,054
Montana	1,402	1.03	19	13	853	83	6	-	162	266	1,365,279
Nebraska	3,036	2.23	69	4	1,958	189	4	5	181	626	1,872,568
Nevada	285	0.21	1	2	122	10	2	1	24	123	906,573
New Hampshire	348	0.26	4	1	99	44	33	2	122	43	739,251
New Jersey	1,586	1.17	65	-	301	17	147	19	599	438	9,344,574
New Mexico	727	0.53	12	4	366	17	1	5	88	234	948,320
New York	2,661	1.96	54	15	469	27	100	61	288	1,647	7,470,378
North Carolina	4,031	2.96	168	10	1,392	73	105	19	580	1,684	11,280,371
North Dakota	3,500	2.57	34	1	2,820	66	-	-	32	547	1,040,668
Ohio	6,140	4.51	57	-	2,208	132	47	25	883	2,788	15,545,104
Oklahoma	3,899	2.87	50	7	2,335	96	55	17	505	834	4,286,923
Oregon	2,079	1.53	98	29	708	396	73	33	110	632	4,570,601
Pennsylvania	3,951	2.90	171	98	1,273	134	279	60	1,111	825	11,485,926
Rhode Island	73	0.05	9	1	4	1	9	17	16	16	411,800
South Carolina	2,723	2.00	9	-	549	658	78	8	370	1,051	6,123,796
South Dakota	1,933	1.42	81	-	1,511	35	-	-	251	55	1,132,051
Tennessee	2,848	2.09	86	2	1,115	164	120	14	674	673	5,801,091
Texas	9,772	7.18	318	5	3,667	218	66	55	952	4,491	34,473,346
Utah	765	0.56	63	3	198	116	50	15	111	209	1,927,773
Vermont	405	0.30	8	-	121	27	31	2	186	30	658,278
Virginia	1,952	1.43	36	2	384	24	3	7	336	1,160	5,227,851
Washington	2,543	1.87	223	4	1,249	96	29	26	336	580	4,560,199
West Virginia	1,483	1.09	97	6	655	29	15	5	447	229	1,585,042
Wisconsin	4,102	3.02	37	2	1,520	688	3	30	998	824	8,968,941
Wyoming	391	0.29	4	-	116	5	1	5	61	199	358,196
Total	136,040	100.0	3,297	372	53,500	11,412	2,202	1,196	22,039	42,022	317,606,671

TABLE 9-5 PRIVATE/PEDESTRIAN AT GRADE BY DEVELOPMENT AND RAILROAD, 2008

Railroads	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alton & Southern	24	0.03	-	8	4	1	11
Alaska RR Corp.	106	0.13	1	3	13	6	83
Amtrak	64	0.08	-	27	12	2	23
Bangor & Aroostook	342	0.41	-	148	33	45	116
Burlington Northern Santa Fe	9,735	11.62	7	6,515	718	393	2,102
Belt Rwy Of Chicago	61	0.07	-	-	-	-	61
Canadian National	3,863	4.61	25	2,101	374	72	1,291
Canadian Pacific	2,954	3.53	6	2,162	267	85	434
Conrail Shared Assets	413	0.49	5	119	31	7	251
CSX Transportation	9,010	10.75	410	4,673	1,673	155	2,099
Florida East Coast	109	0.13	84	3	2	1	19
Guilford Rail System	520	0.62	-	154	51	20	295
Other Railroads	29,076	34.70	357	17,013	3,979	641	7,086
Indiana Harbor Belt	49	0.06	4	-	-	-	45
Kansas City Southern	1,824	2.18	11	1,290	202	10	311
Long Island Rail Road	45	0.05	-	33	3	3	6
MD Assn. of Rail Comm	78	0.09	-	50	10	2	16
Mass Bay Transit Auth.	32	0.04	3	10	6	1	12
Metro North Commuter	70	0.08	1	13	11	9	36
Montana Rail Link	705	0.84	-	489	61	16	139
Northern IN Comm Trans	28	0.03	8	6	-	2	12
Northeast IL Reg Comm	39	0.05	9	2	7	1	20
New Jersey Transit Rail	89	0.11	1	35	17	4	32
Norfolk Southern Corp.	10,587	12.64	793	5,289	2,344	142	2,019
Paducah & Louisville	149	0.18	1	64	34	-	50
Port Auth Trans Hudson	2	0.00	-	1	-	-	1
Port Terminal RR Assn	101	0.12	-	2	-	-	99
Southern CA Reg Rail Auth.	36	0.04	1	9	7	3	16
Southeastern PA Trans.	33	0.04	-	11	10	2	10
Term RR Assn Of St. Louis	11	0.01	-	3	-	-	8
Union Pacific	12,678	15.13	140	8,163	1,171	142	3,062
Union RR (Pittsburgh)	39	0.05	-	-	-	-	39
Wheeling & Lake Erie	413	0.49	2	217	37	6	151
Wisconsin & Southern RR	503	0.60	-	402	19	9	73
Total	83,788	100.0	1,869	49,015	11,096	1,780	20,028

TABLE 9-6 PRIVATE/PEDESTRIAN AT GRADE BY TYPE DEVELOPMENT AND STATE, 2008

States	Total		Not reported	Farm	Residential	Recreational	Industrial
	Cnt	%					
Alabama	1,619	1.93	22	900	291	21	385
Alaska	106	0.13	1	3	13	6	83
Arizona	509	0.61	5	303	19	12	170
Arkansas	1,419	1.69	4	923	209	18	265
California	3,641	4.35	38	1,733	271	97	1,502
Colorado	1,086	1.30	15	653	201	21	196
Connecticut	269	0.32	3	54	36	33	143
Delaware	147	0.18	2	67	43	4	31
Dist Of Columbia	27	0.03	1	-	1	-	25
Florida	1,302	1.55	210	412	179	24	477
Georgia	2,369	2.83	11	1,257	550	32	519
Idaho	1,148	1.37	1	725	50	28	344
Illinois	4,118	4.91	26	2,588	374	69	1,061
Indiana	1,964	2.34	105	1,179	363	20	297
Iowa	2,904	3.47	10	2,071	288	53	482
Kansas	2,663	3.18	-	2,210	134	11	308
Kentucky	2,404	2.87	2	1,373	653	15	361
Louisiana	2,537	3.03	2	1,284	405	25	821
Maine	834	1.00	-	348	114	72	300
Maryland	674	0.80	20	343	83	12	216
Massachusetts	512	0.61	8	154	67	35	248
Michigan	2,301	2.75	8	1,144	333	111	705
Minnesota	2,519	3.01	8	1,785	217	64	445
Mississippi	1,886	2.25	16	1,170	355	14	331
Missouri	2,803	3.35	2	1,999	303	39	460
Montana	1,866	2.23	-	1,444	103	37	282
Nebraska	1,946	2.32	-	1,661	68	55	162
Nevada	235	0.28	140	31	2	17	45
New Hampshire	237	0.28	1	105	50	27	54
New Jersey	528	0.63	5	155	57	10	301
New Mexico	499	0.60	-	348	24	26	101
New York	2,595	3.10	7	1,694	343	154	397
North Carolina	2,946	3.52	12	1,337	837	31	729
North Dakota	1,280	1.53	-	1,156	14	7	103
Ohio	3,067	3.66	21	1,933	338	37	738
Oklahoma	1,364	1.63	2	969	131	15	247
Oregon	2,210	2.64	5	955	311	34	905
Pennsylvania	2,723	3.25	22	1,043	526	125	1,007
Rhode Island	49	0.06	-	5	8	6	30
South Carolina	1,251	1.49	4	561	308	24	354
South Dakota	1,071	1.28	4	905	61	7	94
Tennessee	1,831	2.19	10	949	392	24	456
Texas	5,254	6.27	8	3,436	546	48	1,216
Utah	547	0.65	1	335	26	14	171
Vermont	509	0.61	-	349	56	17	87
Virginia	2,447	2.92	1,079	882	185	16	285
Washington	2,655	3.17	20	1,218	374	107	936
West Virginia	1,913	2.28	4	822	602	43	442
Wisconsin	2,293	2.74	2	1,490	170	53	578
Wyoming	711	0.85	2	554	12	10	133
Total	83,788	100.0	1,869	49,015	11,096	1,780	20,028

CHAPTER 10

TRESPASSERS NOT AT HIGHWAY-RAIL GRADE 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 grade 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 F6180.55a, they are excluded from this chapter because the incident is defined as a highway-rail incident. The casualties that summarize highway-rail grade crossing incidents can be found in Chapters 7 and 8.

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TABLE 10-1 REPORTABLE CONDITIONS TO TRESPASSERS NOT AT HRC, 2008

Condition	Tot	Age of Trespasser													
		Unk	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	> 60
Bruise/contusion	77	12	1	-	6	8	10	5	4	6	7	9	4	2	3
Crushing injury	18	2	-	-	1	2	1	3	1	2	3	1	2	-	-
Sprain/Str.,arm/hand	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Sprain/Str.,leg/foot	5	-	-	-	-	-	-	2	1	-	1	-	1	-	-
Sprain/Str.,torso	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Sprain/Str., other	5	-	-	-	-	1	2	-	1	-	-	1	-	-	-
Cut/abrasion	82	9	-	-	3	11	9	8	7	13	4	7	4	2	5
Puncture wound	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-
Electric shock/burn	3	-	-	-	-	-	-	-	-	2	-	1	-	-	-
Dislocation	2	-	-	-	-	-	1	-	-	-	-	-	-	1	-
Fracture,arm/hand	21	2	-	-	-	3	1	1	3	4	2	-	2	-	3
Fracture,leg/foot	31	2	-	-	-	9	6	4	3	1	1	1	1	2	1
Fracture,head/face	6	-	-	-	1	3	-	-	2	-	-	-	-	-	-
Fracture,torso	18	1	-	-	-	4	1	-	-	1	4	4	1	1	1
Fracture,multiple	11	-	-	-	1	2	2	1	2	1	-	1	1	-	-
Fracture,other	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Rupture/tear, tendon	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Amputation,other	3	-	-	-	-	-	1	1	-	-	1	-	-	-	-
Amputation,arm/hand	9	-	-	-	-	-	-	1	2	1	1	3	1	-	-
Amputation,leg/foot	55	4	-	2	4	5	10	5	6	5	3	5	4	1	1
Amputation,torso	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Fatality	457	55	2	1	10	51	53	40	36	40	36	61	29	18	25
Concussion	10	1	-	-	-	2	-	1	2	2	-	1	1	-	-
Internal injury	11	1	-	-	2	-	1	2	3	-	1	1	-	-	-
Unspecified injury	55	15	-	-	-	5	8	7	-	4	3	8	2	-	3
Total	886	104	3	3	28	107	109	81	73	83	67	105	53	27	43

TABLE 10-2 TRESPASSERS KILLED, BY RAILROAD AND AGE, NOT AT HRC, 2008

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	70	12	-	-	-	6	6	3	-	10	2	11	7	7	6
Burlington Northern Santa Fe	59	9	-	-	4	10	6	7	4	3	6	5	3	-	2
Canadian National	14	-	1	-	1	1	1	1	2	2	2	-	-	1	-
Canadian Pacific	4	-	-	-	-	1	2	-	-	-	-	-	1	-	-
CSX Transportation	73	14	-	-	1	6	8	5	5	5	11	9	3	2	4
Florida East Coast	11	-	-	-	-	-	1	-	2	4	-	2	1	-	1
Kansas City Southern	7	-	-	-	-	1	2	-	2	-	-	-	-	-	2
Long Island Rail Road	6	-	-	-	-	1	1	-	-	-	-	2	1	1	-
MD Assn. of Rail Comm	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Mass Bay Transit Auth.	8	7	-	-	-	-	-	-	-	-	-	-	-	-	1
Metro North Commuter	2	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Northeast IL Reg Comm	13	-	-	-	-	-	1	3	2	-	1	2	2	2	-
New Jersey Transit Rail	11	7	-	-	-	2	-	-	-	1	-	-	1	-	-
Norfolk Southern Corp.	72	1	1	1	1	9	10	10	7	5	5	11	5	3	3
Paducah & Louisville	3	1	-	-	-	1	-	-	-	-	-	-	-	1	-
Peninsula Comm San Mateo Cnty	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Southern CA Reg Rail Auth.	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	4	-	-	-	-	2	1	-	-	-	1	-	-	-	-
Union Pacific	77	-	-	-	2	9	10	9	9	8	8	12	5	1	4
Other Railroads	18	-	-	-	1	2	3	2	3	2	-	4	-	-	1
Total	457	55	2	1	10	51	53	40	36	40	36	61	29	18	25

TABLE 10-3 TRESPASSERS KILLED, BY STATE AND AGE, NOT AT HRC, 2008

States	Tot	Age of Trespasser													
		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	6	1	-	-	-	-	-	-	1	1	-	3	-	-	-
Arizona	13	3	-	-	-	1	5	1	3	-	-	-	-	-	-
Arkansas	3	-	-	-	-	-	-	-	1	-	-	1	-	-	1
California	60	7	-	-	3	4	8	3	5	7	5	4	2	7	5
Colorado	5	1	-	-	-	1	-	1	1	-	1	-	-	-	-
Connecticut	6	1	-	-	-	1	1	1	-	-	-	2	-	-	-
Delaware	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Dist Of Columbia	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Florida	26	1	-	-	1	3	4	1	4	4	1	5	1	-	1
Georgia	15	3	-	-	-	2	2	1	-	1	3	2	1	-	-
Idaho	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Illinois	39	4	1	-	1	-	4	8	2	-	4	6	4	3	2
Indiana	7	-	1	-	-	-	1	1	-	-	2	1	1	-	-
Iowa	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	4	-	-	-	-	-	-	1	-	1	-	1	1	-	-
Kentucky	8	1	-	-	1	1	-	1	-	-	-	1	-	2	1
Louisiana	6	-	-	-	-	1	1	-	-	1	-	1	1	-	1
Maryland	7	1	-	-	-	-	2	-	-	1	1	2	-	-	-
Massachusetts	15	7	-	-	-	-	1	1	-	-	-	1	2	-	3
Michigan	7	-	-	-	-	-	-	1	1	1	1	2	1	-	-
Minnesota	5	-	-	-	-	3	2	-	-	-	-	-	-	-	-
Mississippi	4	2	-	-	-	-	-	1	-	-	-	-	-	1	-
Missouri	9	-	-	-	-	1	-	2	2	2	-	1	-	-	1
Montana	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-
Nebraska	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Nevada	4	-	-	-	-	-	-	-	-	1	1	2	-	-	-
New Hampshire	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	18	8	-	-	-	6	1	-	1	1	-	-	1	-	-
New Mexico	11	1	-	-	1	2	1	1	-	-	2	3	-	-	-
New York	17	2	-	-	-	2	2	-	-	-	1	4	3	1	2
North Carolina	17	2	-	1	-	2	1	1	1	3	2	2	2	-	-
North Dakota	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-
Ohio	14	-	-	-	-	3	3	3	-	2	2	-	1	-	-
Oklahoma	3	-	-	-	-	2	1	-	-	-	-	-	-	-	-
Oregon	6	-	-	-	-	1	-	-	-	1	-	2	2	-	-
Pennsylvania	24	3	-	-	-	3	4	-	3	4	1	2	-	1	3
South Carolina	8	2	-	-	-	-	1	1	2	-	-	1	1	-	-
Tennessee	20	1	-	-	1	1	1	2	3	1	3	3	-	2	2
Texas	31	-	-	-	2	6	3	5	4	2	1	6	1	-	1
Utah	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-
Virginia	5	1	-	-	-	1	-	-	-	-	1	1	1	-	-
Washington	10	-	-	-	-	2	-	1	-	1	2	1	2	1	-
West Virginia	4	-	-	-	-	-	1	-	-	1	-	-	-	-	2
Wisconsin	7	-	-	-	-	-	2	-	2	1	1	-	1	-	-
Total	457	55	2	1	10	51	53	40	36	40	36	61	29	18	25

TABLE 10-4 TRESPASSERS INJURED, BY RAILROAD AND AGE, NOT AT HRC, 2008

Railroads	Cnt	%	Age of Trespasser													
			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	36	8.4	8	-	-	-	5	1	3	-	3	5	6	1	-	4
Burlington Northern Santa Fe	58	13.5	14	-	-	1	8	4	7	3	4	4	4	3	-	6
Belt Rwy Of Chicago	1	0.2	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Canadian National	6	1.4	-	-	-	1	1	-	1	1	1	-	1	-	-	-
Canadian Pacific	1	0.2	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Conrail Shared Assets	1	0.2	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CSX Transportation	64	14.9	11	-	-	4	5	11	8	8	5	3	6	3	-	-
Florida East Coast	4	0.9	-	-	-	-	1	-	-	1	2	-	-	-	-	-
Guilford Rail System	1	0.2	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Railroads	12	2.8	3	-	-	-	3	-	1	-	1	1	1	1	1	-
Kansas City Southern	10	2.3	-	-	-	-	2	1	2	-	-	-	1	3	1	-
Long Island Rail Road	6	1.4	1	-	-	-	-	2	-	1	-	1	1	-	-	-
Mass Bay Transit Auth.	5	1.2	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro North Commuter	5	1.2	-	-	-	-	1	-	-	-	2	1	-	1	-	-
Montana Rail Link	1	0.2	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Northeast IL Reg Comm	6	1.4	2	-	-	-	2	1	-	-	1	-	-	-	-	-
New Jersey Transit Rail	2	0.5	1	-	-	-	-	-	-	-	-	1	-	-	-	-
Norfolk Southern Corp.	75	17.5	-	-	-	7	9	7	9	5	11	9	8	3	3	4
Paducah & Louisville	2	0.5	1	-	-	-	-	-	-	-	-	1	-	-	-	-
Peninsula Comm San Mateo Cnty	3	0.7	1	-	-	-	-	-	1	-	-	-	-	1	-	-
Southern CA Reg Rail Auth.	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Southeastern PA Trans.	2	0.5	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Union Pacific	127	29.6	-	1	2	5	18	29	9	17	12	4	14	8	4	4
Total	429	100	49	1	2	18	56	56	41	37	43	31	44	24	9	18

TABLE 10-5 TRESPASSERS INJURED, BY STATE AND AGE, NOT AT HRC, 2008

States	Cnt	%	Age of Trespasser													
			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	12	2.8	-	-	-	-	1	-	1	2	3	1	2	1	-	1
Arizona	15	3.5	1	-	-	-	-	-	5	1	2	3	-	2	-	1
Arkansas	6	1.4	-	1	-	-	-	2	1	-	1	1	-	-	-	-
California	48	11.2	8	-	-	1	8	9	2	4	10	3	2	1	-	-
Colorado	13	3.0	3	-	-	-	-	-	3	1	2	-	-	3	1	-
Connecticut	4	0.9	-	-	-	-	-	1	-	-	-	1	1	-	-	1
Delaware	4	0.9	-	-	-	-	-	-	1	-	-	1	1	-	1	-
Dist Of Columbia	1	0.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Florida	14	3.3	-	-	-	-	1	1	1	3	3	2	2	1	-	-
Georgia	8	1.9	1	-	-	2	1	2	1	-	-	-	-	-	1	-
Illinois	26	6.1	2	-	-	1	5	5	3	2	3	1	3	-	-	1
Indiana	13	3.0	2	-	-	3	5	3	-	-	-	-	-	-	-	-
Iowa	6	1.4	-	-	-	-	3	1	1	-	-	-	-	-	1	-
Kansas	9	2.1	1	-	-	1	-	1	2	-	-	1	-	1	-	2
Kentucky	9	2.1	3	-	-	-	-	1	3	1	-	1	-	-	-	-
Louisiana	9	2.1	-	-	-	1	2	-	-	-	-	1	1	3	1	-
Maine	1	0.2	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Maryland	5	1.2	1	-	-	-	2	-	-	-	1	-	1	-	-	-
Massachusetts	10	2.3	5	-	-	-	1	-	-	-	-	1	3	-	-	-
Michigan	3	0.7	-	-	-	-	1	-	-	1	-	-	1	-	-	-
Minnesota	5	1.2	1	-	-	-	2	-	-	-	1	-	1	-	-	-
Mississippi	3	0.7	-	-	-	-	1	1	-	-	-	-	-	1	-	-
Missouri	5	1.2	1	-	-	-	1	-	1	-	-	-	1	1	-	-
Montana	3	0.7	1	-	-	-	-	-	-	-	-	1	-	1	-	-
Nebraska	3	0.7	1	-	-	-	1	-	-	-	-	-	-	1	-	-
Nevada	6	1.4	-	-	-	1	-	-	1	-	-	1	3	-	-	-
New Jersey	5	1.2	-	-	-	-	2	-	-	1	-	1	-	-	-	1
New Mexico	6	1.4	1	-	-	-	-	1	-	-	-	-	-	1	2	1
New York	13	3.0	3	-	-	-	1	2	1	1	1	1	1	2	-	-
North Carolina	19	4.4	1	-	-	2	2	2	-	1	1	5	3	1	1	-
North Dakota	3	0.7	-	-	-	-	-	1	-	-	1	-	-	-	-	1
Ohio	15	3.5	1	-	-	1	1	1	3	1	3	2	1	1	-	-
Oklahoma	5	1.2	1	-	-	-	1	1	-	-	-	2	-	-	-	-
Oregon	10	2.3	1	-	1	1	1	-	1	1	1	-	1	1	1	-
Pennsylvania	16	3.7	3	-	-	1	-	1	2	2	3	1	1	1	-	1
Rhode Island	1	0.2	-	-	-	-	1	-	-	-	-	-	-	-	-	-
South Carolina	7	1.6	-	-	-	1	2	3	-	-	-	1	-	-	-	-
Tennessee	9	2.1	3	-	-	-	-	-	3	1	1	-	1	-	-	-
Texas	50	11.7	3	-	1	1	4	8	9	8	2	1	4	3	1	5
Utah	4	0.9	-	-	-	-	1	1	-	1	-	-	1	-	-	-
Virginia	8	1.9	-	-	-	-	-	1	2	1	-	-	-	1	1	2
Washington	7	1.6	-	-	-	-	1	-	-	1	1	1	2	-	-	1
West Virginia	8	1.9	-	-	-	1	-	-	1	-	2	1	3	-	-	-
Wyoming	2	0.5	-	-	-	-	1	-	1	-	-	-	-	-	-	-
Total	429	100	49	1	2	18	56	56	41	37	43	31	44	24	9	18

TABLE 10-6 TRESPASSERS NOT AT HRC, BY STATE AND AGE GROUP, 2008

States	Deaths				Total Killed		Nonfatal Cases				Total Injured	
	Age Group			Cnt	%	Age Group				Cnt	%	
	Unk	< 16	16-21			> 21	Unk	< 16	16-21			> 21
Alabama	1	-	-	5	6	1.3	-	-	1	11	12	2.8
Arizona	3	-	3	7	13	2.8	1	-	1	13	15	3.5
Arkansas	-	-	-	3	3	0.7	-	1	2	3	6	1.4
California	7	3	5	45	60	13.1	8	1	8	31	48	11.2
Colorado	1	-	1	3	5	1.1	3	-	-	10	13	3.0
Connecticut	1	-	1	4	6	1.3	-	-	1	3	4	0.9
Delaware	-	-	-	1	1	0.2	-	-	-	4	4	0.9
Dist Of Columbia	-	-	-	1	1	0.2	1	-	-	-	1	0.2
Florida	1	1	3	21	26	5.7	-	-	2	12	14	3.3
Georgia	3	-	2	10	15	3.3	1	2	2	3	8	1.9
Idaho	-	-	1	-	1	0.2	-	-	-	-	0	0.0
Illinois	4	2	-	33	39	8.5	2	1	6	17	26	6.1
Indiana	-	1	-	6	7	1.5	2	3	5	3	13	3.0
Iowa	2	-	-	-	2	0.4	-	-	3	3	6	1.4
Kansas	-	-	-	4	4	0.9	1	1	-	7	9	2.1
Kentucky	1	1	1	5	8	1.8	3	-	-	6	9	2.1
Louisiana	-	-	1	5	6	1.3	-	1	2	6	9	2.1
Maine	-	-	-	-	0	0.0	-	-	-	1	1	0.2
Maryland	1	-	1	5	7	1.5	1	-	2	2	5	1.2
Massachusetts	7	-	-	8	15	3.3	5	-	1	4	10	2.3
Michigan	-	-	-	7	7	1.5	-	-	1	2	3	0.7
Minnesota	-	-	3	2	5	1.1	1	-	2	2	5	1.2
Mississippi	2	-	-	2	4	0.9	-	-	1	2	3	0.7
Missouri	-	-	1	8	9	2.0	1	-	1	3	5	1.2
Montana	-	-	-	2	2	0.4	1	-	-	2	3	0.7
Nebraska	-	-	-	1	1	0.2	1	-	1	1	3	0.7
Nevada	-	-	-	4	4	0.9	-	1	-	5	6	1.4
New Hampshire	1	-	-	-	1	0.2	-	-	-	-	0	0.0
New Jersey	8	-	6	4	18	3.9	-	-	2	3	5	1.2
New Mexico	1	1	2	7	11	2.4	1	-	1	4	6	1.4
New York	2	-	2	13	17	3.7	3	-	2	8	13	3.0
North Carolina	2	1	3	11	17	3.7	1	2	3	13	19	4.4
North Dakota	-	-	-	2	2	0.4	-	-	-	3	3	0.7
Ohio	-	-	4	10	14	3.1	1	1	1	12	15	3.5
Oklahoma	-	-	3	-	3	0.7	1	-	1	3	5	1.2
Oregon	-	-	1	5	6	1.3	1	2	1	6	10	2.3
Pennsylvania	3	-	4	17	24	5.3	3	1	1	11	16	3.7
Rhode Island	-	-	-	-	0	0.0	-	-	1	-	1	0.2
South Carolina	2	-	-	6	8	1.8	-	1	3	3	7	1.6
Tennessee	1	1	1	17	20	4.4	3	-	-	6	9	2.1
Texas	-	2	6	23	31	6.8	3	2	6	39	50	11.7
Utah	-	-	1	1	2	0.4	-	-	2	2	4	0.9
Virginia	1	-	1	3	5	1.1	-	-	-	8	8	1.9
Washington	-	-	2	8	10	2.2	-	-	1	6	7	1.6
West Virginia	-	-	-	4	4	0.9	-	1	-	7	8	1.9
Wisconsin	-	-	-	7	7	1.5	-	-	-	-	0	0.0
Wyoming	-	-	-	-	0	0.0	-	-	1	1	2	0.5
Total	55	13	59	330	457	100.0	49	21	68	291	429	100.0

TABLE 10-7 TRESPASSERS CASUALTIES, BY MONTH AND DAY, NOT AT HRC, 2008

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	26	2.9	5	3	4	3	2	4	5	2	-	1	23
	February	30	3.4	6	2	1	6	6	4	5	4	-	5	21
	March	36	4.1	4	4	2	4	5	9	8	5	2	4	25
	April	40	4.5	3	7	5	7	10	2	6	3	2	5	30
	May	50	5.6	4	4	6	7	6	10	13	4	3	9	34
	June	37	4.2	10	5	5	5	4	5	3	6	-	8	23
	July	39	4.4	7	4	3	7	5	6	7	4	-	5	30
	August	62	7.0	18	2	6	2	9	13	12	8	2	8	44
	September	38	4.3	6	5	5	4	4	3	11	6	1	5	26
	October	39	4.4	8	5	5	6	-	6	9	5	-	2	32
	November	32	3.6	2	8	4	3	1	7	7	6	2	5	19
	December	28	3.2	4	4	3	4	9	-	4	2	1	2	23
	Total		457	51.6	77	53	49	58	61	69	90	55	13	59	330
Nonfatal	January	22	2.5	3	2	4	5	3	4	1	3	1	2	16
	February	32	3.6	4	4	1	4	5	9	5	3	3	6	20
	March	32	3.6	7	1	1	3	7	7	6	-	1	5	26
	April	38	4.3	7	4	6	5	4	6	6	3	3	7	25
	May	45	5.1	6	8	5	6	5	9	6	4	1	5	35
	June	42	4.7	7	4	8	8	6	3	6	4	3	5	30
	July	49	5.5	5	5	14	7	7	4	7	7	1	8	33
	August	35	4.0	11	1	3	3	2	8	7	6	3	6	20
	September	34	3.8	5	4	2	3	6	4	10	5	-	7	22
	October	34	3.8	1	2	5	6	8	7	5	2	3	11	18
	November	32	3.6	4	3	4	7	6	3	5	3	1	5	23
	December	34	3.8	6	4	3	6	8	5	2	9	1	1	23
	Total		429	48.4	66	42	56	63	67	69	66	49	21	68	291
Total		886	100	143	95	105	121	128	138	156	104	34	127	621

TABLE 10-8 TRESPASSERS CASUALTIES, BY TIME AND DAY, NOT AT HRC, 2008

Time	Total	Day Of The Week															
		Sun		Mon		Tue		Wed		Thu		Fri		Sat			
		Cnt	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal	Kld Nonfatal			
AM	1	39	7	7	1	2	1	1	-	1	4	2	3	4	4	2	
	2	54	4	2	1	3	1	3	2	2	5	-	8	6	7	10	
	3	45	6	6	2	-	1	1	4	-	3	-	2	4	8	8	
	4	20	2	1	1	-	1	-	1	1	1	3	2	3	3	3	
	5	30	1	4	1	-	2	3	5	3	1	3	3	-	2	2	
	6	21	1	2	-	-	-	3	3	1	2	1	1	1	4	2	
	7	24	4	2	3	1	2	2	3	-	2	-	3	-	1	1	
	8	29	5	2	1	-	5	1	1	1	2	2	-	3	3	3	
	9	22	2	1	-	1	1	2	4	1	-	3	-	3	4	-	
	10	21	-	-	2	1	1	2	1	4	1	-	1	1	4	3	
	11	35	2	1	4	2	1	1	5	6	1	3	3	3	2	1	
	12	46	4	7	1	1	1	2	1	2	2	5	7	1	8	4	
	Total	386	38	35	17	11	17	21	30	22	24	20	34	28	50	39	
	PM	1	24	3	1	2	1	-	3	1	1	3	3	1	-	4	1
2		39	2	2	3	1	3	5	1	3	3	3	3	3	4	3	
3		37	4	3	4	2	-	5	3	3	1	5	2	2	2	1	
4		43	4	3	6	1	3	2	1	1	2	2	3	4	7	4	
5		49	2	4	1	6	8	5	2	4	1	4	5	2	2	3	
6		46	5	3	6	3	1	1	4	5	3	4	4	2	3	2	
7		49	3	4	-	2	3	4	3	4	3	5	6	4	4	4	
8		42	4	5	3	3	2	3	2	1	3	3	3	5	4	1	
9		42	4	1	5	2	2	-	4	5	5	1	2	8	2	1	
10		45	3	2	2	3	7	2	1	5	5	5	2	4	2	2	
11		41	-	3	2	3	-	3	2	6	4	6	4	4	2	2	
12		43	5	-	2	4	3	2	4	3	4	6	-	3	4	3	
Total		500	39	31	36	31	32	35	28	41	37	47	35	41	40	27	
Total		886	77	66	53	42	49	56	58	63	61	67	69	69	90	66	

TABLE 10-9 TRESPASSERS CASUALTIES, BY LOCATION, NOT AT HRC, 2008

Location	Total		Fatal		Nonfatal		Age of Person			
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21
Alongside of on-track equipmen	70	7.9	26	5.7	44	10.3	4	4	8	54
Beside track	148	16.7	48	10.5	100	23.3	12	4	22	110
Between tracks	157	17.7	105	23.0	52	12.1	21	6	28	102
Between cars/locomotives	21	2.4	7	1.5	14	3.3	5	1	4	11
In cab or on walkways of locom	2	0.2	1	0.2	1	0.2	1	-	-	1
In car	10	1.1	4	0.9	6	1.4	-	-	1	9
In/operating vehicle	26	2.9	5	1.1	21	4.9	-	2	6	18
In tunnel	3	0.3	2	0.4	1	0.2	2	-	-	1
On bridge/trestle	30	3.4	15	3.3	15	3.5	3	7	8	12
On highway-rail crossing	5	0.6	3	0.7	2	0.5	1	-	1	3
On other rail crossing	1	0.1	-	0.0	1	0.2	-	-	-	1
On side of car	8	0.9	2	0.4	6	1.4	-	1	1	6
On track	363	41.0	224	49.0	139	32.4	48	6	45	264
On end of car	9	1.0	1	0.2	8	1.9	2	-	1	6
On pole/signal mast	1	0.1	1	0.2	-	0.0	1	-	-	-
On platform	2	0.2	-	0.0	2	0.5	-	-	-	2
On escalator	1	0.1	-	0.0	1	0.2	-	-	-	1
On stairs	1	0.1	-	0.0	1	0.2	-	-	-	1
Other location on locomotive	1	0.1	1	0.2	-	0.0	-	-	-	1
Under car	8	0.9	3	0.7	5	1.2	-	3	-	5
Under locomotive	1	0.1	1	0.2	-	0.0	-	-	-	1
Car, on top of (rail car)	5	0.6	2	0.4	3	0.7	-	-	1	4
On top of equipment, other tha	2	0.2	-	0.0	2	0.5	-	-	-	2
Other location	11	1.2	6	1.3	5	1.2	4	-	1	6
Total	886	100	457	100	429	100	104	34	127	621

TABLE 10-10 TRESPASSERS CASUALTIES, BY EVENT, NOT AT HRC, 2008

Location	Total		Fatal		Nonfatal		Age of Person			
	Cnt	%	Cnt	%	Cnt	%	Unk	< 16	16-21	> 21
Assaulted by other	5	0.6	1	0.2	4	0.9	-	-	-	5
Bitten by animal	1	0.1	-	0.0	1	0.2	-	-	-	1
Bodily function/sudden movement, e.g.,sneezing,t	3	0.3	1	0.2	2	0.5	-	-	1	2
Caught in/compressed by other machinery	1	0.1	-	0.0	1	0.2	-	-	1	-
Climatic condition, exposure to environmental he	3	0.3	-	0.0	3	0.7	-	-	-	3
Collision - between on track equipment	3	0.3	1	0.2	2	0.5	2	-	-	1
Collision/impact - auto, truck, bus, van, etc.	18	2.0	5	1.1	13	3.0	4	1	2	11
Committing vandalism/theft	2	0.2	-	0.0	2	0.5	-	1	1	-
Electrical shock due to contact with 3rd rail, c	1	0.1	1	0.2	-	0.0	1	-	-	-
Electrical shock, other (explain in narrative)	2	0.2	-	0.0	2	0.5	-	-	-	2
Lost balance	11	1.2	2	0.4	9	2.1	1	1	1	8
Missed handhold, grabiron, step, etc.	4	0.5	1	0.2	3	0.7	-	-	2	2
Other impacts - on track equipment	14	1.6	8	1.8	6	1.4	2	-	1	11
Pushed/shoved onto	1	0.1	-	0.0	1	0.2	-	-	-	1
Pushed/shoved from	2	0.2	-	0.0	2	0.5	1	-	-	1
Ran into on-track equipment	12	1.4	5	1.1	7	1.6	3	-	-	9
Ran into object/equipment	5	0.6	1	0.2	4	0.9	-	1	1	3
Shot	1	0.1	1	0.2	-	0.0	-	-	-	1
Slipped,fell,stumbled,etc. due to irregular surf	2	0.2	1	0.2	1	0.2	-	-	1	1
Slipped,fell,stumbled,etc. due to object,ballast	2	0.2	-	0.0	2	0.5	1	-	-	1
Stabbing, knifing, etc.	2	0.2	1	0.2	1	0.2	-	-	-	2
Struck by object	4	0.5	2	0.4	2	0.5	-	-	1	3
Struck by on-track equipment	657	74.2	390	85.3	267	62.2	68	19	92	478
Struck by falling object	2	0.2	-	0.0	2	0.5	-	-	-	2
Struck against object	6	0.7	-	0.0	6	1.4	-	2	-	4
Sudden/unexpected movement of on-track equipmen	2	0.2	-	0.0	2	0.5	-	-	-	2
Sudden/unexpected movement of vehicle	5	0.6	-	0.0	5	1.2	-	-	2	3
Thrill seeking	12	1.4	3	0.7	9	2.1	2	-	4	6
Caught, crushed, pinched, other	12	1.4	2	0.4	10	2.3	-	2	2	8
On track equipment, other incidents	8	0.9	-	0.0	8	1.9	1	1	1	5
Slipped, fell, stumbled, other	43	4.9	9	2.0	34	7.9	4	6	8	25
Sudden, unexpected movement, other	6	0.7	5	1.1	1	0.2	2	-	2	2
Burned	1	0.1	-	0.0	1	0.2	-	-	-	1
Caught Between Equipment	5	0.6	1	0.2	4	0.9	-	-	1	4
Other (describe in narrative)	28	3.2	16	3.5	12	2.8	12	-	3	13
Total	886	100	457	100	429	100	104	34	127	621

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
Kld	Killed
Len	Length
Loco	Locomotive
Maint/Insp	Maintenance Inspection
MOW	Maintenance of way
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
Xing	Crossing

APPENDIX B

2007 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 current number of open crossings, and the changes in the warning devices. The last recalculation and adjustment was made for Calendar Year 2005 and were used in the Procedure dated 2005.

The process for determining the three (3) new “normalizing constants” for 2007 is performed by making the sum of the calculated accident prediction values for all currently open public at-grade crossings for Calendar Years 2001-2005, as of December 2006, be equal to the sum of the observed number of 2006 accidents that occurred at the 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, and adjusts for the current total number of open crossings (which is downward) and the accidents occurring at them, and any changes in warning devices at any of the crossings currently open.

The observed accidents result from those records in the accident data file that exist for only those crossings that are currently open. This means that the number of observed accidents for these public at-grade crossings will not be equal to the actual number of accidents that are reported for a specific year. While mismatched data records caused by inaccurate accident/inventory reporting are included, those accidents which occurred prior to the date of a warning device change are excluded, as well as any closed crossings.

The new constants were determined for the national model using all open public crossings in the National Inventory File as of December 2006. Those using the DOT Model should update their models by replacing the old constants with the new recalculated values. The “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 2007, these new constants will be in the 2007 PCAPS Computer Program and Internet version WBAPS located on the FRA Website at <http://safetydata.fra.dot.gov/officeofsafety/>. The table below lists the new and prior year constants. **There were no changes for 2008.**

ACCIDENT PREDICTION AND RESOURCE ALLOCATION PROCEDURE NORMALIZING CONSTANTS

WARNING DEVICE GROUPS	NEW	PRIOR YEAR CONSTANTS						
	2007	2005	2003	1998	1992	1990	1988	1986
(1) Passive	.6768	.6407	.6500	.7159	.8239	.9417	.8778	.8644
(2) Flashing Lights	.4605	.5233	.5001	.5292	.6935	.8345	.8013	.8887
(3) Gates	.6039	.6513	.5725	.4921	.6714	.8901	.8911	.8131

wpdata\ACPD\ACPD Constants 2007.wpd

APPENDIX C

ACCIDENTS/INCIDENTS REPORTED BY GROUP III RAILROADS, 2008

Railroads whose employees worked < 400,000 hours

	Total			Train			HRC			Other		
	Cnt Kld Inj			Accidents			Incidents			Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
AN Rwy LLC [AN]	-	-	-	-	-	-	-	-	-	-	-	-
Aberdeen & Rockfish RR Co. [AR]	1	-	1	-	-	-	-	-	-	1	-	1
Aberdeen, Carolina & Western RR [ACWR]	-	-	-	-	-	-	-	-	-	-	-	-
Abilene & Smokey Valley RR [AVSX]	-	-	-	-	-	-	-	-	-	-	-	-
Acadiana Rwy Co. [AKDN]	1	-	-	-	-	-	1	-	-	-	-	-
Adirondack Scenic RR [ADCX]	4	-	4	-	-	-	-	-	-	4	-	4
Adrian & Blissfield RR [ADBF]	-	-	-	-	-	-	-	-	-	-	-	-
Akron Barberton Cluster Rwy Co. [AB]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Florida Rwy Co. [AF]	-	-	-	-	-	-	-	-	-	-	-	-
Alabama & Gulf Coast Rwy LLC [AGR]	11	-	3	5	-	-	4	-	1	2	-	2
Alabama & Tennessee River Rwy LLC [ATN]	7	1	-	1	-	-	5	-	-	1	1	-
Alabama RR Co., Inc. [ALAB]	2	-	2	-	-	-	-	-	-	2	-	2
Alabama Southern RR [ABS]	7	-	1	5	-	-	1	-	-	1	-	1
Alameda Belt Line [ABL]	-	-	-	-	-	-	-	-	-	-	-	-
Alamo Gulf Coast RR Co. [AGCR]	1	-	-	1	-	-	-	-	-	-	-	-
Albany & Eastern RR Co. [AERC]	-	-	-	-	-	-	-	-	-	-	-	-
Albany Port RR [APRR]	1	-	1	-	-	-	-	-	-	1	-	1
Alexander RR Co. [ARC]	1	-	1	-	-	-	-	-	-	1	-	1
Aliquippa & Ohio River RR Co. [AOR]	1	-	-	1	-	-	-	-	-	-	-	-
Allegheny Valley RR Co. [AVR]	4	-	1	2	-	-	1	-	-	1	-	1
Alliance Term. RR LLC [ATR]	1	-	-	1	-	-	-	-	-	-	-	-
Altamont Commuter Express Authority [ACEX]	8	1	15	1	-	7	1	-	3	6	1	5
Angelina & Neches River RR Co. [ANR]	-	-	-	-	-	-	-	-	-	-	-	-
Ann Arbor RR [AA]	3	-	3	-	-	-	-	-	-	3	-	3
Apache Rwy Co. [APA]	2	-	1	1	-	-	-	-	-	1	-	1
Appalachian & Ohio RR [AO]	3	-	1	2	-	-	-	-	-	1	-	1
Appanoose County Community RR Co. [APNC]	-	-	-	-	-	-	-	-	-	-	-	-
Arcade & Attica RR Corp. [ARA]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona & California RR Co. [ARZC]	1	1	-	-	-	-	-	-	-	1	1	-
Arizona Central RR, Inc. [AZCR]	-	-	-	-	-	-	-	-	-	-	-	-
Arizona Eastern RR [AZER]	17	-	6	11	-	-	-	-	-	6	-	6
Arkansas & Missouri RR Co. [AM]	11	1	6	1	-	-	7	1	3	3	-	3
Arkansas Louisiana & Mississippi RR Co. [ALM]	2	-	2	1	-	-	1	-	2	-	-	-
Arkansas Midland RR Co., Inc. [AKMD]	8	-	4	1	-	-	3	-	-	4	-	4
Arkansas Southern RR [ARS]	1	-	-	-	-	-	1	-	-	-	-	-
Arkansas-Oklahoma RR Inc. [AOK]	1	-	-	1	-	-	-	-	-	-	-	-
Ashland Rwy Inc. [ASRY]	2	-	2	-	-	-	-	-	-	2	-	2
Ashtubula, Carson & Jefferson RR [ACJR]	-	-	-	-	-	-	-	-	-	-	-	-
Athens Line LLC, The [ABR]	-	-	-	-	-	-	-	-	-	-	-	-
Atlantic & Western Rwy, L.P. [ATW]	-	-	-	-	-	-	-	-	-	-	-	-
Austin & Texas Central RR [ATCX]	-	-	-	-	-	-	-	-	-	-	-	-
Austin Western RR [AWRR]	4	-	-	2	-	-	2	-	-	-	-	-
Austin, Todd & Ladd RR Co. [ATLT]	-	-	-	-	-	-	-	-	-	-	-	-
B&H Rail Corp [BHX]	1	-	1	-	-	-	-	-	-	1	-	1
BG & CM RR [BGCM]	-	-	-	-	-	-	-	-	-	-	-	-
Ballard Term. RR Co LLC [BDTL]	-	-	-	-	-	-	-	-	-	-	-	-
Baton Rouge Southern RR [BRS]	-	-	-	-	-	-	-	-	-	-	-	-
Batten Kill RR [BKRR]	-	-	-	-	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Bauxite & Northern Rwy Co. [BXN]	-	-	-	-	-	-	-	-	-	-	-	-
Bay Coast RR [BCR]	1	-	-	1	-	-	-	-	-	-	-	-
Bay Colony RR [BCLR]	1	-	1	-	-	-	-	-	-	1	-	1
Bay Line RR, L.L.C., The [BAYL]	3	1	-	-	-	-	2	-	-	1	1	-
Bee Line RR, Inc. [BLRR]	-	-	-	-	-	-	-	-	-	-	-	-
Beech Mountain RR Co. [BEEM]	-	-	-	-	-	-	-	-	-	-	-	-
Belton Grandview and Kansas City RR Co. [BGKX]	-	-	-	-	-	-	-	-	-	-	-	-
Berkshire Scenic Rwy Museum, Inc. [BCRY]	1	-	1	-	-	-	-	-	-	1	-	1
Big Eagle Rail LLC [BGEX]	-	-	-	-	-	-	-	-	-	-	-	-
Big South Fork Scenic Rwy [BSFX]	-	-	-	-	-	-	-	-	-	-	-	-
Bighorn Divide & Wyoming RR, Inc. [BDW]	1	-	-	1	-	-	-	-	-	-	-	-
Birmingham Southern RR Co. [BS]	2	-	1	-	-	-	1	-	-	1	-	1
Black Hills Central RR [BHC]	-	-	-	-	-	-	-	-	-	-	-	-
Black River & Western RR [BRW]	-	-	-	-	-	-	-	-	-	-	-	-
Blacklands RR, The [BLR]	1	-	-	1	-	-	-	-	-	-	-	-
Blackwell Northern Gateway RR Co. [BNG]	-	-	-	-	-	-	-	-	-	-	-	-
Bloomer Shippers Connecting RR Co. [BLOL]	-	-	-	-	-	-	-	-	-	-	-	-
Blue Ridge Scenic Rwy [BLRX]	-	-	-	-	-	-	-	-	-	-	-	-
Boone Scenic Valley [BSVY]	4	-	4	-	-	-	-	-	-	4	-	4
Border Pacific RR [BOP]	-	-	-	-	-	-	-	-	-	-	-	-
Brandon Corp. [BRAN]	-	-	-	-	-	-	-	-	-	-	-	-
Brandywine Scenic RR Co. [BSRX]	1	-	1	-	-	-	-	-	-	1	-	1
Brandywine Valley RR Co. [BVRY]	2	-	1	1	-	-	-	-	-	1	-	1
Brownsville & Rio Grande International RR [BRG]	3	-	3	-	-	-	-	-	-	3	-	3
Buckingham Branch RR Co. [BB]	10	-	5	3	-	-	2	-	-	5	-	5
Buffalo & Pittsburgh RR, Inc. [BPRR]	5	-	-	1	-	-	4	-	-	-	-	-
Buffalo Southern RR, Inc. [BSOR]	1	-	1	-	-	-	-	-	-	1	-	1
Burlington Junction Rwy [BJRY]	-	-	-	-	-	-	-	-	-	-	-	-
C & NC RR Corp. [CNUR]	-	-	-	-	-	-	-	-	-	-	-	-
CHICAGO, FT. WAYNE & EASTERN [CFE]	5	-	2	1	-	-	2	-	-	2	-	2
CMC RR Inc. [CMC]	7	-	3	6	-	2	-	-	-	1	-	1
Caddo Valley RR Co. [CVYR]	1	-	1	-	-	-	-	-	-	1	-	1
Caldwell County RR Co. [CWCY]	-	-	-	-	-	-	-	-	-	-	-	-
Calera & Shelby RR & Museum, Inc. [CSMX]	1	-	1	-	-	-	-	-	-	1	-	1
California Northern RR Co. [CFNR]	1	-	-	-	-	-	1	-	-	-	-	-
California State RR Museum [CSRMR]	-	-	-	-	-	-	-	-	-	-	-	-
Camp Chase Industrial RR Corp [CCRA]	3	-	2	1	-	-	-	-	-	2	-	2
Caney Fork & Western RR [CFWR]	-	-	-	-	-	-	-	-	-	-	-	-
Canon City And Royal Gorge RR, LLC [CRRX]	5	-	5	-	-	-	-	-	-	5	-	5
Canton RR Co. [CTN]	1	-	1	-	-	-	-	-	-	1	-	1
Cape Cod Central [CCCX]	-	-	-	-	-	-	-	-	-	-	-	-
Cape May Seashore Lines, Inc. [CMSX]	1	-	1	-	-	-	1	-	1	-	-	-
Capital Metropolitan Transportation Authority [CMTY]	1	-	1	-	-	-	-	-	-	1	-	1
Cargill Inc Iowa Falls [CGIF]	-	-	-	-	-	-	-	-	-	-	-	-
Cargill Inc. GOSCNA [CGIV]	-	-	-	-	-	-	-	-	-	-	-	-
Carolina Coastal Rwy, Inc. [CLNA]	1	1	-	-	-	-	1	1	-	-	-	-
Carolina Southern RR Co., The [CALA]	2	-	-	2	-	-	-	-	-	-	-	-
Carrizo Gorge Rwy Inc. [CZRY]	-	-	-	-	-	-	-	-	-	-	-	-
Carthage, Knightstown & Shirley RR [CKSI]	-	-	-	-	-	-	-	-	-	-	-	-
Cascade & Columbia River RR [CSCD]	-	-	-	-	-	-	-	-	-	-	-	-
Cass Scenic [CASS]	6	-	6	-	-	-	-	-	-	6	-	6
Catskill Mountain RR [CMRR]	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Rapids & Iowa City Rwy Co. [CIC]	6	-	-	4	-	-	2	-	-	-	-	-
Central California Traction Co. [CCT]	1	-	-	-	-	-	1	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other	
	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj
Central Illinois RR Co. [CIRY]	-	-	-	-	-	-	-	-
Central Indiana & Western RR Co. [CEIW]	-	-	-	-	-	-	-	-
Central Midland Rwy Co. [CMR]	-	-	-	-	-	-	-	-
Central Montana RR [CM]	-	-	-	-	-	-	-	-
Central Oregon & Pacific RR, Inc. [CORP]	-	-	-	-	-	-	-	-
Central RR Co. Of Indiana [CIND]	1	-	1	-	-	-	-	-
Central RR Co. Of Indianapolis [CERA]	-	-	-	-	-	-	-	-
Central Washington RR Co. [CWA]	2	-	2	-	-	-	2	-
Charlotte Southern RR Co. [CHS]	-	-	-	-	-	-	-	-
Chattahoochee Bay RR [CHAT]	-	-	-	-	-	-	-	-
Chattahoochee Industrial RR [CIRR]	-	-	-	-	-	-	-	-
Chattooga & Chickamauga RR [CCKY]	1	-	1	-	-	-	1	-
Chehalis & Centralia RR Association [CHCX]	-	-	-	-	-	-	-	-
Chesapeake & Albemarle RR Co. [CA]	-	-	-	-	-	-	-	-
Chesapeake & Indiana RR [CKIN]	-	-	-	-	-	-	-	-
Chestnut Ridge Rwy Co. [CHR]	-	-	-	-	-	-	-	-
Chicago Port RR Co. [CPC]	-	-	-	-	-	-	-	-
Chicago Rail Link [CRL]	5	-	5	-	-	-	-	-
Chicago Southshore & South Bend RR [CSS]	3	-	3	-	-	-	3	-
Chicago Term. RR [CTM]	1	-	1	-	-	-	1	-
Chicago-Chemung RR Corp. [CCUO]	-	-	-	-	-	-	-	-
Cimarron Valley RR L C [CVR]	3	-	1	2	-	-	1	-
Cincinnati Rwy Co., The [CNRX]	-	-	-	-	-	-	-	-
City Of Prineville Rwy [COP]	-	-	-	-	-	-	-	-
City of Keokuk [KEOK]	-	-	-	-	-	-	-	-
Claremont Concord RR Corp. [CCRR]	-	-	-	-	-	-	-	-
Clarendon & Pittsford RR Co. [CLP]	3	-	3	-	1	-	1	2
Cleveland Commercial RR Co., LLC [CCRL]	-	-	-	-	-	-	-	-
Cleveland Works Rwy Co. [CWRO]	11	-	9	3	1	-	7	-
Clinton Term. RR Co. [CTR]	-	-	-	-	-	-	-	-
Cloquet Term. RR Co., Inc. [CTRR]	5	-	5	-	-	-	5	-
Colorado & Wyoming Rwy Co. [CW]	6	-	6	-	-	-	6	-
Columbia & Cowlitz Rwy Co. [CLC]	1	-	1	-	-	-	1	-
Columbia Basin RR Co. Inc. [CBRW]	7	-	7	-	-	-	7	-
Columbia Business Center [CBCX]	-	-	-	-	-	-	-	-
Columbia Term. RR Co. [CT]	-	-	-	-	-	-	-	-
Columbus & Greenville Rwy Co. [CAGY]	3	-	2	-	2	-	1	-
Columbus & Ohio River RR [CUOH]	6	-	5	-	1	-	5	-
Commonwealth Rwy, Inc. [CWRY]	-	-	-	-	-	-	-	-
Conecuh Valley RR [COEH]	-	-	-	-	-	-	-	-
Connecticut Department Of Transportation [CDOT]	7	2	7	1	-	-	6	2
Connecticut Southern RR Inc. [CSO]	5	1	1	1	-	2	-	2
Consolidated Grain & Barge Co. [CGBX]	-	-	-	-	-	-	-	-
Conway Scenic RR [CONW]	-	-	-	-	-	-	-	-
Coopersville & Marne RR [CPMY]	-	-	-	-	-	-	-	-
Copper Basin Rwy, Inc. [CBRY]	-	-	-	-	-	-	-	-
Corpus Christi Term. RR Inc. [CCPN]	6	-	1	4	-	1	-	1
Crab Orchard & Egyptian RR [COER]	1	-	1	-	-	-	1	-
Cumbres & Toltec Scenic RR [CTSR]	2	-	2	-	-	-	2	-
Cuyahoga Valley Scenic Rwy [CVSX]	-	-	-	-	-	-	-	-
D & I RR Co. [DAIR]	1	-	1	-	-	-	1	-
Dakota Northern RR, Inc. [DN]	-	-	-	-	-	-	-	-
Dakota Southern Rwy Co. [DSRC]	-	-	-	-	-	-	-	-
Dakota, Missouri Valley & Western RR, Inc. [DMVW]	5	-	5	-	-	-	5	-

Railroads whose employees worked < 400,000 hours

	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Dallas, Garland & Northeastern RR [DGNO]	6	-	-	3	-	-	3	-	-	-	-	-
Dardanelle & Russellville RR [DR]	-	-	-	-	-	-	-	-	-	-	-	-
DeQueen & Eastern RR Co. [DQE]	4	-	-	4	-	-	-	-	-	-	-	-
Decatur Junction Rwy Co. [DT]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware & Ulster Rail Ride [DURR]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Coast Line RR [DCLR]	-	-	-	-	-	-	-	-	-	-	-	-
Delaware Lackawanna RR [DL]	4	-	4	-	-	-	-	-	-	4	-	4
Delray Connecting RR Co. [DC]	2	-	2	-	-	-	-	-	-	2	-	2
Delta Southern RR Co. [DSRR]	1	-	1	-	-	-	-	-	-	1	-	1
Delta Valley & Southern Rwy Co. [DVS]	-	-	-	-	-	-	-	-	-	-	-	-
Denver & Rio Grande RR Co. [DRGR]	-	-	-	-	-	-	-	-	-	-	-	-
Denver Rock Island RR [DRIR]	4	1	3	-	-	-	1	1	-	3	-	3
Depew, Lancaster & Western RR Co., Inc. [DLWR]	1	-	1	-	-	-	-	-	-	1	-	1
Detroit Connecting RR [DCON]	-	-	-	-	-	-	-	-	-	-	-	-
Detroit Edison [DE]	1	-	1	-	-	-	-	-	-	1	-	1
Dubois County RR [DCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Durango & Silverton Narrow Gauge RR Co. [DSNG]	21	-	19	-	-	-	2	-	-	19	-	19
East Brookfield & Spencer RR LLC [EBSR]	-	-	-	-	-	-	-	-	-	-	-	-
East Camden & Highland RR Co. [EACH]	-	-	-	-	-	-	-	-	-	-	-	-
East Chattanooga Belt Rwy Co. [ECTB]	-	-	-	-	-	-	-	-	-	-	-	-
East Cooper & Berkeley RR [ECBR]	-	-	-	-	-	-	-	-	-	-	-	-
East Erie Commercial RR [EEC]	-	-	-	-	-	-	-	-	-	-	-	-
East Jersey RR & Term. Co. [EJR]	-	-	-	-	-	-	-	-	-	-	-	-
East Penn RR LLC [ESPN]	2	-	1	-	-	-	1	-	-	1	-	1
East Tennessee Rwy, L.P. [ETRY]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Alabama Rwy Co. [EARY]	1	-	-	1	-	-	-	-	-	-	-	-
Eastern Idaho RR [EIRR]	11	2	4	3	-	-	5	2	1	3	-	3
Eastern Illinois RR Co. [EIRC]	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Maine RR Co. [EMRY]	1	-	1	-	-	-	-	-	-	1	-	1
Eastern Washington Gateway RR Co. [EWG]	3	-	-	3	-	-	-	-	-	-	-	-
Econo Rail Corp. [TXTX]	10	-	2	8	-	-	-	-	-	2	-	2
Effingham RR Co. [EFRR]	-	-	-	-	-	-	-	-	-	-	-	-
El Dorado & Wesson Rwy Co. [EDW]	-	-	-	-	-	-	-	-	-	-	-	-
Elk River RR, Inc. [ELKR]	-	-	-	-	-	-	-	-	-	-	-	-
Ellis and Eastern Co. [EERZ]	-	-	-	-	-	-	-	-	-	-	-	-
Erie Western Rwy [EWR]	-	-	-	-	-	-	-	-	-	-	-	-
Escalanta Western Rwy [ESWR]	-	-	-	-	-	-	-	-	-	-	-	-
Escanaba & Lake Superior RR Co. [ELS]	10	-	8	2	-	-	-	-	-	8	-	8
Evansville Western Rwy, Inc. [EVWR]	3	-	2	-	-	-	1	-	-	2	-	2
Everett RR Co. [EV]	-	-	-	-	-	-	-	-	-	-	-	-
Exel Switching Service [ESSV]	-	-	-	-	-	-	-	-	-	-	-	-
Falls Road RR Co. Inc. [FRR]	-	-	-	-	-	-	-	-	-	-	-	-
Farmrail Corp. [FMRC]	3	-	2	1	-	-	-	-	-	2	-	2
Fayette Central RR [FCRV]	-	-	-	-	-	-	-	-	-	-	-	-
Fillmore And Western [FMWX]	-	-	-	-	-	-	-	-	-	-	-	-
Finger Lakes Rwy Corp. [FGLK]	2	-	1	1	-	-	1	-	1	-	-	-
First Coast RR Inc. [FCRD]	2	-	-	2	-	-	-	-	-	-	-	-
Flats Industrial RR [FIR]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Central RR Co. [FCEN]	1	-	1	-	-	-	-	-	-	1	-	1
Florida Midland RR Co., Inc. [FMID]	-	-	-	-	-	-	-	-	-	-	-	-
Florida Northern RR Co., Inc. [FNOR]	4	-	3	1	-	-	-	-	-	3	-	3
Flying J / Big West Oil [FLYJ]	-	-	-	-	-	-	-	-	-	-	-	-
Fordyce & Princeton RR Co. [FP]	1	-	1	-	-	-	-	-	-	1	-	1
Fore River Transportation Corp. [FRVT]	-	-	-	-	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other					
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj			
Fort Smith RR Co. [FSR]	-	-	-	-	-	-	-	-	-			
Fort Worth & Western RR [FWWR]	18	-	7	5	-	-	8	-	2	5	-	5
Fremont & Elkhorn Valley RR [FEVR]	-	-	-	-	-	-	-	-	-	-	-	-
Frontier Rail Switch Service [FRRV]	-	-	-	-	-	-	-	-	-	-	-	-
Fulton County RR Co. [FC]	-	-	-	-	-	-	-	-	-	-	-	-
Fulton County Rwy [FCR]	2	-	-	2	-	-	-	-	-	-	-	-
Galveston RR, L.P. [GVSF]	1	-	-	1	-	-	-	-	-	-	-	-
Garden City Western Rwy Co. [GCW]	-	-	-	-	-	-	-	-	-	-	-	-
Georgetown Loop RR [GLRX]	1	-	1	-	-	-	-	-	-	1	-	1
Georgetown RR Co. [GRR]	1	-	-	1	-	-	-	-	-	-	-	-
Georgia & Florida Rwy [GFRR]	4	-	3	1	-	-	-	-	-	3	-	3
Georgia Central Rwy, L.P. [GC]	3	-	4	-	-	-	1	-	-	2	-	4
Georgia Midland RR, Inc. [GMR]	1	-	1	-	-	-	-	-	-	1	-	1
Georgia Northeastern RR Co. [GNRR]	5	-	3	2	-	-	-	-	-	3	-	3
Georgia Southwestern RR Inc. [GSWR]	2	2	-	-	-	-	2	2	-	-	-	-
Georgia Woodlands RR [GWRC]	-	-	-	-	-	-	-	-	-	-	-	-
Gettysburg and Northern RR [GET]	1	-	1	-	-	-	-	-	-	1	-	1
Giant Cement [GICX]	-	-	-	-	-	-	-	-	-	-	-	-
Gloster Southern RR [GLSR]	-	-	-	-	-	-	-	-	-	-	-	-
Golden Isles Term. RR, Inc. [GITM]	5	-	1	2	-	-	2	-	-	1	-	1
Golden Triangle RR Co. [GTRA]	-	-	-	-	-	-	-	-	-	-	-	-
Grafton & Upton RR Co. [GU]	-	-	-	-	-	-	-	-	-	-	-	-
Grainbelt Corp. [GNBC]	10	-	4	7	-	2	1	-	-	2	-	2
Grand Canyon Rwy [GCRX]	28	-	28	-	-	-	-	-	-	28	-	28
Grand Rapids Eastern RR Inc. [GR]	-	-	-	-	-	-	-	-	-	-	-	-
Grapevine Vintage RR [GRVV]	-	-	-	-	-	-	-	-	-	-	-	-
Great Lakes Central RR [GLC]	1	-	1	-	-	-	-	-	-	1	-	1
Great Northwest RR, Inc. [GRNW]	-	-	-	-	-	-	-	-	-	-	-	-
Great Smoky Mountains Rwy, The [GSM]	1	-	1	-	-	-	-	-	-	1	-	1
Great Walton RR Co. [GRWR]	1	-	-	-	-	-	1	-	-	-	-	-
Great Western Rwy of Colorado, LLC [GWR]	4	-	-	2	-	-	2	-	-	-	-	-
Green Mountain RR Corp. [GMRC]	-	-	-	-	-	-	-	-	-	-	-	-
Greenville & Western Rwy Co. LLC [GRLW]	-	-	-	-	-	-	-	-	-	-	-	-
Gulf, Colorado San Saba Rwy Corp. [GCSR]	-	-	-	-	-	-	-	-	-	-	-	-
Birdsboro Materials/Haines & Kibblehouse [HKGX]	-	-	-	-	-	-	-	-	-	-	-	-
Hampton & Branchville RR Co. [HB]	-	-	-	-	-	-	-	-	-	-	-	-
Hartwell RR Co. [HRT]	1	-	1	-	-	-	-	-	-	1	-	1
Hawaiian Rwy Society [HRSX]	-	-	-	-	-	-	-	-	-	-	-	-
Heart of Georgia RR, Inc. [HOG]	2	-	2	-	-	-	1	-	1	1	-	1
Heber Valley RR Utah [HVRX]	3	-	3	-	-	-	-	-	-	3	-	3
Heritage RR Corp [HR]	-	-	-	-	-	-	-	-	-	-	-	-
High Point, Thomasville & Denton RR Co. [HPTD]	2	-	1	-	-	-	1	-	-	1	-	1
Hiwassee River RR [HWRV]	-	-	-	-	-	-	-	-	-	-	-	-
Hollis & Eastern RR Co. [HE]	-	-	-	-	-	-	-	-	-	-	-	-
Hondo Rwy LLC [HHRV]	-	-	-	-	-	-	-	-	-	-	-	-
Honey Creek RR, Inc. [HCRR]	-	-	-	-	-	-	-	-	-	-	-	-
Hoosier Southern RR [HOS]	-	-	-	-	-	-	-	-	-	-	-	-
Hoosier Valley RR Museum [HVMV]	-	-	-	-	-	-	-	-	-	-	-	-
Housatonic RR Co., Inc. [HRRC]	3	-	2	1	-	-	-	-	-	2	-	2
Huckleberry RR [HRR]	-	-	-	-	-	-	-	-	-	-	-	-
Huntsville & Madison county RR Authority [HMCR]	-	-	-	-	-	-	-	-	-	-	-	-
Huron & Eastern Rwy [HESR]	7	-	3	2	-	-	2	-	-	3	-	3
ITS Technologies & Logistics, LLC. [ITSL]	-	-	-	-	-	-	-	-	-	-	-	-
Idaho Northern & Pacific RR Co. [INPR]	8	-	6	1	-	1	2	-	-	5	-	5

Railroads whose employees worked < 400,000 hours

	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Illinois & Midland RR Inc. [IMRR]	5	-	4	1	-	-	-	-	-	4	-	4
Illinois Rwy Museum [IRYM]	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Rwy, Inc. [IR]	-	-	-	-	-	-	-	-	-	-	-	-
Illinois Western RR Co. [ILW]	-	-	-	-	-	-	-	-	-	-	-	-
Indian Creek RR Co. [ICRK]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana & Ohio Rwy [IORY]	7	-	2	1	-	-	4	-	-	2	-	2
Indiana Eastern RR LLC [IERR]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Northeastern RR Co., Incorporated [IN]	3	-	3	-	-	-	-	-	-	3	-	3
Indiana Rail Road Co. [INRD]	31	2	19	4	-	-	12	1	5	15	1	14
Indiana Rwy Museum [IRM]	1	-	1	-	-	-	-	-	-	1	-	1
Indiana Southern RR Co., Inc. [ISRR]	2	-	-	-	-	-	2	-	-	-	-	-
Indiana Southwestern Rwy Co. [ISW]	-	-	-	-	-	-	-	-	-	-	-	-
Indiana Transportation Museum [ITMZ]	2	-	2	-	-	-	-	-	-	2	-	2
Inland Lakes Rwy [ILRV]	-	-	-	-	-	-	-	-	-	-	-	-
Intermodal Transfer, LLC [RSIX]	1	-	-	1	-	-	-	-	-	-	-	-
Iowa Northern Rwy Co. [IANR]	10	-	5	1	-	-	4	-	-	5	-	5
Iowa River RR Inc [IARR]	-	-	-	-	-	-	-	-	-	-	-	-
Iowa Traction RR Co. [IATR]	-	-	-	-	-	-	-	-	-	-	-	-
Jacintoport International, LP [JCIV]	-	-	-	-	-	-	-	-	-	-	-	-
Jefferson Warrior RR [JEFW]	-	-	-	-	-	-	-	-	-	-	-	-
Johnson County Airport Commission [JCAX]	-	-	-	-	-	-	-	-	-	-	-	-
Joppa & Eastern RR Co. [JERX]	-	-	-	-	-	-	-	-	-	-	-	-
Juniata Valley RR Co. [JVRR]	3	-	-	-	-	-	3	-	-	-	-	-
K.W.T. Rwy, Inc. [KWT]	-	-	-	-	-	-	-	-	-	-	-	-
Kankakee, Beaverville & Southern RR Co. [KBSR]	2	1	2	-	-	-	2	1	2	-	-	-
Kansas City Term. Rwy Co. [KCT]	-	-	-	-	-	-	-	-	-	-	-	-
Kansas City Transportation Co LLC [KCTL]	-	-	-	-	-	-	-	-	-	-	-	-
Kansas and Oklahoma RR [KO]	6	-	1	3	-	-	2	-	-	1	-	1
Kaw River RR [KAW]	1	-	1	-	-	-	-	-	-	1	-	1
Kendallville Term. Rwy Co. [KTR]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky & Tennessee Rwy [KT]	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky Rwy Museum [KRM]	1	-	1	-	-	-	-	-	-	1	-	1
Keokuk Junction Rwy [KJRY]	3	-	2	1	-	-	-	-	-	2	-	2
Kettle Falls International Rwy LLC [KFR]	1	-	1	-	-	-	-	-	-	1	-	1
Kiamichi RR Co. LLC [KRR]	17	-	3	8	-	-	6	-	-	3	-	3
Kiski Junction RR [KJR]	1	-	1	-	-	-	-	-	-	1	-	1
Klamath Northern Rwy Co. [KNOR]	-	-	-	-	-	-	-	-	-	-	-	-
Knox & Kane RR Co. [KKRR]	-	-	-	-	-	-	-	-	-	-	-	-
Knoxville & Holston River RR Co., Inc. [KXHR]	5	-	2	1	-	-	2	-	-	2	-	2
Kosciusko And Southwestern Rwy [KSRY]	-	-	-	-	-	-	-	-	-	-	-	-
Kyle RR Co. [KYLE]	2	-	-	2	-	-	-	-	-	-	-	-
Lahaina Kaanapoli And Pacific [LKP]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Charlse Harbor District [LCHD]	-	-	-	-	-	-	-	-	-	-	-	-
Lake Michigan & Indiana RR Co. [LMIC]	1	-	1	-	-	-	-	-	-	1	-	1
Lake Shore Rwy [LSRX]	-	-	-	-	-	-	-	-	-	-	-	-
Lake State Rwy Co. [LSRC]	36	1	24	9	-	-	2	-	-	25	1	24
Lake Superior & Ishpeming RR Co. [LSI]	4	-	4	-	-	-	-	-	-	4	-	4
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]	3	-	1	1	-	-	1	-	-	1	-	1
Landisville RR, LLC [LVR]	-	-	-	-	-	-	-	-	-	-	-	-
Laona & Northern Rwy [LNO]	-	-	-	-	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other	
	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj
Lapree Industrial RR [LIRR]	-	-	-	-	-	-	-	-
Laurinburg & Southern RR Co. [LRS]	1	- 1	-	-	-	-	1	- 1
Leadville, Colorado & Southern RR, Co. [LCSR]	-	-	-	-	-	-	-	-
Lehigh Valley Rail Management [LVRX]	-	-	-	-	-	-	-	-
Litchfield Industrial RR [LFIZ]	-	-	-	-	-	-	-	-
Little Kanawha River Rail [LKRR]	-	-	-	-	-	-	-	-
Little River RR [LRR]	-	-	-	-	-	-	-	-
Little Rock & Western Rwy, L.P. [LRWN]	2	- 2	-	-	-	-	2	- 2
Little Rock Port RR Co. [LRPA]	-	-	-	-	-	-	-	-
Livonia, Avon & Lakeville RR Corp. [LAL]	1	1	-	-	-	-	1	1
Lodestar Logistics [LDLV]	-	-	-	-	-	-	-	-
Logansport & Eel River Short Line Co., Inc. [LER]	-	-	-	-	-	-	-	-
Lone Star Industries [LSIZ]	-	-	-	-	-	-	-	-
Longview Switching [LS]	2	-	2	-	-	-	-	-
Los Angeles County Metropolitan Trans Authority [LACZ]	1	- 1	-	-	1	- 1	-	-
Los Angeles Junction Rwy Co. [LAJ]	13	- 10	3	-	-	-	10	- 10
Louisiana & Delta RR [LDRR]	7	- 3	-	-	4	-	3	- 3
Louisiana & North West RR Co. [LNW]	2	-	2	-	-	-	-	-
Louisiana Southern [LAS]	10	- 1	6	-	3	-	1	- 1
Louisville & Indiana RR Co. [LIRC]	8	- 4	-	-	4	-	4	- 4
Louisville & Wadley Rwy Co. [LW]	-	-	-	-	-	-	-	-
Louisville, New Albany & Corydon RR [LNAL]	-	-	-	-	-	-	-	-
Lowville & Beaver River RR Co. [LBR]	-	-	-	-	-	-	-	-
Luxapalila Valley RR Inc. [LXVR]	-	-	-	-	-	-	-	-
Luzerene & Susquehanna Rwy Co. [LSX]	-	-	-	-	-	-	-	-
Lycoming Valley RR Co. [LVRR]	5	1 4	-	-	1	1	- 4	- 4
M & B RR LLC [MNBR]	4	- 2	1	-	1	-	2	- 2
Madison RR Division [CMPA]	-	-	-	-	-	-	-	-
Magma Arizona RR Co. [MAA]	-	-	-	-	-	-	-	-
Mahoning Valley RR Co. [MVRV]	-	-	-	-	-	-	-	-
Maine Eastern RR [MERR]	-	-	-	-	-	-	-	-
Manufacturers' Junction Rwy Co. [MJ]	-	-	-	-	-	-	-	-
Manufacturers' Rwy Co. [MRS]	1	- 1	-	-	-	-	1	- 1
Marquette Rail LLC [MQT]	1	- 1	-	-	-	-	1	- 1
Maryland & Delaware RR Co. [MDDE]	1	- 1	-	-	-	-	1	- 1
Maryland Midland Rwy, Inc. [MMID]	1	- 1	-	-	-	-	1	- 1
Massachusetts Central RR Corp. [MCER]	-	-	-	-	-	-	-	-
Massachusetts Coastal RR LLC [MCRL]	2	- 2	-	-	-	-	2	- 2
Massena Term. RR Co. [MSTR]	-	-	-	-	-	-	-	-
Maumee & Western RR Corp. [MAW]	-	-	-	-	-	-	-	-
Mccloud Rwy Co. [MCR]	-	-	-	-	-	-	-	-
Mckeesport Connecting RR Co. [MKC]	-	-	-	-	-	-	-	-
Meeker Southern RR [MSN]	-	-	-	-	-	-	-	-
Meridian Southern Rwy LLC [MDS]	-	-	-	-	-	-	-	-
Michigan Air-Line Rwy Co. [MAL]	-	-	-	-	-	-	-	-
Michigan Shore RR [MS]	5	- 1	-	-	4	-	1	- 1
Michigan Southern RR Co., Inc. [MSO]	-	-	-	-	-	-	-	-
Michigan State Trust For Rwy Preservation [MSTP]	-	-	-	-	-	-	-	-
Mid-Continent Rwy [MCRY]	1	- 1	-	-	-	-	1	- 1
Mid-Michigan RR Co. [MMRR]	2	-	-	-	2	-	-	-
Middletown & Hummelstown RR Co. [MIDH]	-	-	-	-	-	-	-	-
Middletown & New Jersey RR LLC [MNJ]	-	-	-	-	-	-	-	-
Midlands Rwy [MDRY]	-	-	-	-	-	-	-	-
Milford-Bennington RR Co. [MBRX]	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train			HRC			Other			
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
Minnesota Commercial Rwy [MNNR]	19	-	12	-	-	-	7	-	-	12	-	12
Minnesota Northern RR Inc. [MNN]	1	-	-	-	-	-	1	-	-	-	-	-
Minnesota Prairie Line, Inc. [MPLI]	1	-	1	-	-	-	1	-	1	-	-	-
Minnesota Southern Rwy, Inc. [MSWY]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota Transportation Museum [MNTX]	-	-	-	-	-	-	-	-	-	-	-	-
Minnesota, Dakota & Western Rwy Co. [MDW]	1	-	1	-	-	-	-	-	-	1	-	1
Mission Mountain RR [MMT]	2	-	1	-	-	-	1	-	-	1	-	1
Mississippi & Skuna Valley RR Co. [MSV]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Central RR Co. [MSCI]	2	-	1	1	-	-	-	-	-	1	-	1
Mississippi Export RR Co. [MSE]	2	-	-	2	-	-	-	-	-	-	-	-
Mississippi Southern RR [MSR]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Tennessee RR LLC [MTNR]	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Rwy Cooperative, Inc. [MSRW]	-	-	-	-	-	-	-	-	-	-	-	-
Missouri & Northern Arkansas RR Co., Inc. [MNA]	13	-	3	6	-	-	5	-	1	2	-	2
Missouri & Valley Park RR Corp [MVP]	1	-	-	1	-	-	-	-	-	-	-	-
Missouri North Central RR [MNC]	-	-	-	-	-	-	-	-	-	-	-	-
Modesto & Empire Traction Co. [MET]	6	-	2	2	-	-	2	-	-	2	-	2
Modoc Northern RR Co. [MNRR]	-	-	-	-	-	-	-	-	-	-	-	-
Mohawk, Adirondack & Northern RR Corp. [MHWA]	-	-	-	-	-	-	-	-	-	-	-	-
Monticello Rwy Museum [MRMZ]	1	-	1	-	-	-	-	-	-	1	-	1
Morehead & South Fork RR Co. Inc. [MHSF]	-	-	-	-	-	-	-	-	-	-	-	-
Morristown & Erie Rwy, Inc. [ME]	2	-	2	-	-	-	-	-	-	2	-	2
Moscow, Camden & San Augustine RR [MCSA]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Hood Rwy Co. [MH]	-	-	-	-	-	-	-	-	-	-	-	-
Mount Rainier Scenic RR [MRSR]	1	-	1	-	-	-	-	-	-	1	-	1
Mount Vernon Term. Rwy, Inc. [MVT]	-	-	-	-	-	-	-	-	-	-	-	-
Municipality Of East Troy [METW]	1	-	-	-	-	-	1	-	-	-	-	-
N C Transportation Museum Foundation [NCMX]	-	-	-	-	-	-	-	-	-	-	-	-
Napa Valley RR [NVRN]	-	-	-	-	-	-	-	-	-	-	-	-
Nash County RR [NCYR]	-	-	-	-	-	-	-	-	-	-	-	-
Nashville & Eastern RR [NERR]	6	-	5	-	-	-	4	-	3	2	-	2
Nashville & Western RR Corp. [NWR]	1	-	-	-	-	-	1	-	-	-	-	-
Naugatuck RR Co. Inc. [NAUG]	-	-	-	-	-	-	-	-	-	-	-	-
Nebkota Rwy, Inc. [NRI]	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska Central RR [NCRC]	4	-	2	1	-	-	2	-	1	1	-	1
Nebraska Northeastern Rwy Co. [NENE]	2	-	1	1	-	-	-	-	-	1	-	1
Nebraska, Kansas, Colorado Railnet [NKCR]	5	-	5	1	-	-	3	-	4	1	-	1
Nevada Northern Rwy [NNRX]	-	-	-	-	-	-	-	-	-	-	-	-
Nevada Southern Rwy [NVSU]	-	-	-	-	-	-	-	-	-	-	-	-
New Castle Industrial RR [NCIR]	-	-	-	-	-	-	-	-	-	-	-	-
New England Central RR [NECR]	8	-	4	3	-	-	1	-	-	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]	4	-	4	-	-	-	-	-	-	4	-	4
New Hope Valley Rwy/NC RR Museum [NHVX]	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey Rail Carrier, LLC. [NJRC]	-	-	-	-	-	-	-	-	-	-	-	-
New Mexico Rail Runner Express [NMRX]	6	1	3	2	-	-	-	-	-	4	1	3
New Orleans & Gulf Coast Rwy Co. Inc. [NOGC]	8	-	2	4	-	-	3	-	1	1	-	1
New Orleans Public Belt RR [NOPB]	4	-	5	2	-	3	-	-	-	2	-	2
New York & Atlantic Rwy Co. [NYA]	2	-	1	1	-	-	1	-	1	-	-	-
New York & Greenwood Lake Rwy [NYGL]	-	-	-	-	-	-	-	-	-	-	-	-
New York & Lake Erie [NYLE]	-	-	-	-	-	-	-	-	-	-	-	-
New York & Ogdensburg Rwy Co. Inc. [NYOG]	-	-	-	-	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other	
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld
New York Container Term. [NYCT]	-	-	-	-	-	-	-	-
New York New Jersey Rail LLC [NYNJ]	-	-	-	-	-	-	-	-
New York, Susquehanna & Western RR Co. [NYSW]	4	-	4	-	-	3	-	3
Newburgh & South Shore RR [NSR]	-	-	-	-	-	-	-	-
Newport Dinner Train [NPDX]	1	-	1	-	-	-	-	1
Niles Canyon Rwy [NICX]	-	-	-	-	-	-	-	-
Nimishillen & Tuscarawas, LLC [NTRY]	3	-	3	-	-	-	-	3
Nittany & Bald Eagle [NBER]	1	-	1	-	-	-	-	1
Norfolk & Portsmouth Belt Line RR Co. [NPB]	-	-	-	-	-	-	-	-
North Alabama RR Museum [NARZ]	-	-	-	-	-	-	-	-
North Carolina & Virginia RR Co. [NCVA]	2	-	-	2	-	-	-	-
North Shore RR [NSHR]	1	-	1	-	-	-	-	1
North Shore Scenic RR [NSSR]	1	-	-	-	-	1	-	-
Northern Lines Rwy LLC [NLR]	-	-	-	-	-	-	-	-
Northern Ohio & Western Rwy, LTD. [NOW]	-	-	-	-	-	-	-	-
Northern Plains RR, Inc. [NPR]	6	-	3	1	-	2	-	3
Northwestern Oklahoma RR Co. [NOKL]	-	-	-	-	-	-	-	-
Oakland Term. Rwy [OTR]	-	-	-	-	-	-	-	-
Ohi Rail Corp. [OHIC]	-	-	-	-	-	-	-	-
Ohio Central RR Co. [OHCR]	1	-	1	-	-	1	-	1
Ohio Southern RR Co. [OSRR]	-	-	-	-	-	-	-	-
Ohio Valley RR Co. [OVR]	-	-	-	-	-	-	-	-
Oil Creek & Titusville Lines [OCTL]	2	-	2	-	-	-	-	2
Oklahoma Rwy Museum Ltd [OKRX]	-	-	-	-	-	-	-	-
Old Augusta RR Co. [OAR]	-	-	-	-	-	-	-	-
Omaha, Lincoln & Beatrice Rwy Co. [OLB]	-	-	-	-	-	-	-	-
Ontario Central RR Corp. [ONCT]	-	-	-	-	-	-	-	-
Ontario Midland RR Corp. [OMID]	-	-	-	-	-	-	-	-
Orange Empire Rwy Museum [OERY]	-	-	-	-	-	-	-	-
Oregon Coast Scenic RR [OCSR]	-	-	-	-	-	-	-	-
Oregon Eastern RR [OERR]	-	-	-	-	-	-	-	-
Oregon Pacific RR Co. [OPR]	-	-	-	-	-	-	-	-
Otter Tail Valley RR Co., Inc. [OTVR]	1	-	1	-	-	-	-	1
Ouachita RR [OUCH]	-	-	-	-	-	-	-	-
Over Land Trucking and Rail [OLTX]	-	-	-	-	-	-	-	-
Owego & Harford Rwy, Inc. [OHRY]	-	-	-	-	-	-	-	-
Ozark Valley RR Inc. [OVRR]	-	-	-	-	-	-	-	-
Pacific & Arctic RR & Navigation Co. [PARN]	16	-	16	-	-	-	-	16
Pacific Harbor Line Inc. [PHL]	16	-	7	9	-	1	1	6
Pacific SW Rwy Museum [PSRM]	-	-	-	-	-	-	-	-
Pacific Sun RR, LLC [PSRR]	-	-	-	-	-	-	-	-
Palouse River & Coulee City RR Inc. [PCC]	6	-	1	4	-	1	-	1
Panhandle Northern RR Co. [PNR]	1	-	-	1	-	-	-	-
Patapsco & Back Rivers RR Co. [PBR]	4	-	3	1	-	-	-	3
Pecos Valley Southern Rwy Co. [PVS]	-	-	-	-	-	-	-	-
Pend Oreille Valley RR, Inc. [POVA]	1	-	1	-	-	-	-	1
Peninsula Term. Co. [PT]	-	-	-	-	-	-	-	-
Pennsylvania & Southern Rwy, LLC [PSCC]	-	-	-	-	-	-	-	-
Pennsylvania Southwestern RR, Inc. [PSWR]	3	-	3	-	-	-	-	3
Pickens Rwy Co. [PICK]	-	-	-	-	-	-	-	-
Pioneer Industrial Rwy Co. [PRY]	-	-	-	-	-	-	-	-
Pioneer Valley RR Co., Inc. [PVRR]	2	-	2	-	-	-	-	2
Pittsburgh & Ohio Central RR Co., The [POHC]	1	-	-	1	-	-	-	-
Pittsburgh, Allegheny & Mckees Rocks RR [PAM]	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other	
	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj
Plainsman Switching Co. [PMSW]	2	- 2	-	-	-	-	2	- 2
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	-	-	-	-	1	- 1
Port Of Palm Beach Term. [PPBD]	-	-	-	-	-	-	-	-
Port Of Tillamook Bay RR [POTB]	2	- 2	-	-	-	-	2	- 2
Port San Antonio [PSAN]	-	-	-	-	-	-	-	-
Port Term. RR Of South Carolina [PTR]	1	- 1	-	-	-	-	1	- 1
Port Utilities Commission Of Charleston, S.C. [PUCC]	-	-	-	-	-	-	-	-
Portland & Western RR, Inc. [PNWR]	2	-	-	-	2	-	-	-
Portland Term. [PTO]	3	- 2	1	-	-	-	2	- 2
Potomac Eagle Scenic Rail Excursion [PEX]	-	-	-	-	-	-	-	-
Prescott & Northwestern RR Co. [PNW]	-	-	-	-	-	-	-	-
Progressive Rail Inc [PGR]	2	-	1	-	1	-	-	-
Providence & Worcester RR Co. [PW]	5	1 2	2	-	-	-	3	1 2
Pueblo RR Museum [PBRF]	-	-	-	-	-	-	-	-
Puget Sound & Pacific RR Co. [PSAP]	-	-	-	-	-	-	-	-
Quincy RR Co. [QRR]	-	-	-	-	-	-	-	-
R J Corman RR Co./Tennessee Term. LLC [RJCK]	-	-	-	-	-	-	-	-
R. J. Corman RR Co./Pennsylvania Lines, Inc. [RJCP]	2	1 -	1	-	-	-	1	1 -
R. J. Corman RR Co./WV Line [RJCV]	-	-	-	-	-	-	-	-
R. J. Corman RR Co/Central Kentucky Lines [RJCC]	2	-	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 Link Inc. [RLIX]	-	-	-	-	-	-	-	-
Rail Serve [RASX]	1	-	-	-	1	-	-	-
Railtown 1897 RR [RTRX]	-	-	-	-	-	-	-	-
Raritan Central Rwy LLC [RCRY]	-	-	-	-	-	-	-	-
Rarus Rwy Co. [RARW]	3	- 3	-	-	-	-	3	- 3
Rat River Transportation Co. [RRTX]	-	-	-	-	-	-	-	-
Reading Blue Mountain & Northern RR Commision [RBMN]	7	- 7	-	-	-	-	7	- 7
Red River Valley & Western RR [RRVW]	8	- 6	2	-	-	-	6	- 6
Redmont Rwy Co. [RRC]	-	-	-	-	-	-	-	-
Regional Transportation Authority-Nashville, TN [NRTX]	4	1 1	-	-	2	-	2	1 1
Rescar Industries - Beaumont [RCIB]	-	-	-	-	-	-	-	-
Rescar Location 715 Switching [RCXM]	4	- 1	3	-	-	-	1	- 1
Riceboro Southern Rwy LLC [RSOR]	-	-	-	-	-	-	-	-
Richmond Pacific RR Corp. [RPRC]	3	- 3	-	-	-	-	3	- 3
Rio Valley Switching Co. [RVSC]	3	- 2	-	-	1	-	2	- 2
River Port RR [RVPR]	-	-	-	-	-	-	-	-
Rochester Southern RR, Inc. [RSR]	-	-	-	-	-	-	-	-
Rock & Rail Inc [RRRR]	-	-	-	-	-	-	-	-
Rockdale, Sandow & Southern RR Co. [RSS]	-	-	-	-	-	-	-	-
SANTA CLARA VALLEY TRANSPORTATION AUTHORITY [VTAZ]	-	-	-	-	-	-	-	-
SCTRR, LLC [SCTR]	1	-	-	-	1	-	-	-
SGZZ	-	-	-	-	-	-	-	-
SMS Rail Lines of New York City LLC [SNY]	-	-	-	-	-	-	-	-
SMS Rail Service, Inc. [SLRS]	3	- 1	1	-	1	-	1	- 1
Sabine River & Northern RR Co. [SRN]	2	- 1	1	-	-	-	1	- 1
Sacramento Valley RR [SAV]	1	-	-	-	1	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other	
	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj	Cnt	Kld Inj
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]	4	1 1	2	-	1	1	-	1
San Joaquin Valley RR Co. [SJVR]	3	- 2	-	-	3	- 2	-	-
San Luis & Rio Grande RR [SLRG]	12	- 7	4	-	1	-	7	- 7
San Luis Central RR Co. [SLC]	2	- 1	-	-	1	-	1	- 1
San Manuel Arizona RR Co. [SMA]	-	-	-	-	-	-	-	-
San Pedro & Southwestern RR Co. [SPSR]	-	-	-	-	-	-	-	-
Sand Springs Rwy Co. [SS]	-	-	-	-	-	-	-	-
Sandersville RR Co. [SAN]	1	-	-	-	1	-	-	-
Santa Cruz, Big Tree & Pacific RR [SCBG]	-	-	-	-	-	-	-	-
Santa Fe Southern Rwy, Inc. [SFS]	2	- 2	-	-	-	-	2	- 2
Santa Maria Valley RR Co. [SMV]	-	-	-	-	-	-	-	-
Saracuse Binghamton And New York RR [SBNX]	-	-	-	-	-	-	-	-
Savage Bingham & Garfield RR Co. [SBG]	-	-	-	-	-	-	-	-
Savannah Port Term. RR, Inc. [SAPT]	7	- 1	-	-	6	-	1	- 1
Seapac RR [SPRV]	-	-	-	-	-	-	-	-
Seminole Gulf RR [SGLR]	8	- 7	1	-	2	- 1	5	- 6
Semo Port RR, Inc. [SE]	-	-	-	-	-	-	-	-
Sequatchie Valley RR [SQVR]	-	-	-	-	-	-	-	-
Shamokin Valley RR Co. [SVRR]	-	-	-	-	-	-	-	-
Shawnee Term. Rwy Co. [STR]	-	-	-	-	-	-	-	-
Shelbyville Industrial RR [SVIZ]	-	-	-	-	-	-	-	-
Sidney & Lowe RR Inc. [SLGG]	2	-	2	-	-	-	-	-
Sierra Northern Rwy [SERA]	13	- 12	1	-	-	-	12	- 12
Sisseton Milbank RR [SMRR]	-	-	-	-	-	-	-	-
Ski Train RR [SKTX]	-	-	-	-	-	-	-	-
Snoqualmie Valley RR [SNVX]	-	-	-	-	-	-	-	-
Somerset RR Co. [SOM]	-	-	-	-	-	-	-	-
Souder Commuter Rail [SCR]	4	- 4	-	-	-	-	4	- 4
South Branch Valley RR [SBVR]	2	- 2	-	-	-	-	2	- 2
South Buffalo Rwy Co. [SB]	2	-	2	-	-	-	-	-
South Carolina Central RR Co., Inc. [SCRF]	10	- 1	1	-	9	- 1	-	-
South Carolina RR Museum, The [RRWX]	-	-	-	-	-	-	-	-
South Central Florida Express, Inc. [SCXF]	5	- 5	-	-	-	-	5	- 5
South Chicago & Indiana Harbor Rwy Co. [SCIH]	2	- 2	-	-	-	-	2	- 2
South Florida Regional Transit Authority [SFRV]	33	11 20	-	-	12	7 3	21	4 17
South Kansas & Oklahoma RR Co. [SKOL]	18	- 7	10	-	1	-	7	- 7
South Plains Lamesa RR, Ltd. [SLAL]	-	-	-	-	-	-	-	-
Southern Electric RR [SERX]	-	-	-	-	-	-	-	-
Southern Indiana Rwy, Inc. [SIND]	-	-	-	-	-	-	-	-
Southern Michigan RR Society [SMRS]	-	-	-	-	-	-	-	-
Southern New Jersey Light Rail System [SNJX]	3	- 3	-	-	-	-	3	- 3
Southern RR Co. Of New Jersey [SRNJ]	1	- 5	-	-	1	- 5	-	-
Southern Switching Co. [SSC]	-	-	-	-	-	-	-	-
Southwest Pennsylvania RR Co. [SWP]	2	- 1	-	-	1	-	1	- 1
Southwestern RR Co., Inc. [SW]	3	- 2	-	-	1	-	2	- 2
Squaw Creek Southern RR [SCS]	-	-	-	-	-	-	-	-
St Marys Rwy West LLC [SMW]	1	-	1	-	-	-	-	-
St. Croix Valley RR Co. [SCXY]	-	-	-	-	-	-	-	-
St. Lawrence & Atlantic RR Co. [SLR]	5	- 4	-	-	1	-	4	- 4
St. Louis, Iron Mountain, & Southern [SLOI]	-	-	-	-	-	-	-	-
St. Maries River RR Co. [STMA]	2	- 2	-	-	-	-	2	- 2

Railroads whose employees worked < 400,000 hours

	Total			Train			HRC			Other		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
St. Marys RR Co. [SM]	-	-	-	-	-	-	-	-	-	-	-	-
Steamtown National Historic Site [SNCX]	1	-	-	1	-	-	-	-	-	-	-	-
Steelton & Highspire RR [SH]	-	-	-	-	-	-	-	-	-	-	-	-
Stewartstown RR Co. [STRT]	-	-	-	-	-	-	-	-	-	-	-	-
Stillwater Central RR Co., Inc. [SLWC]	10	-	1	6	-	-	3	-	-	1	-	1
Stockton Term. & Eastern RR [STE]	1	-	1	-	-	-	-	-	-	1	-	1
Strasburg RR Co. [SRC]	1	-	1	-	-	-	-	-	-	1	-	1
Sumpter Valley RR [SUVX]	-	-	-	-	-	-	-	-	-	-	-	-
Sunflour RR, Inc. [SNR]	-	-	-	-	-	-	-	-	-	-	-	-
Tacoma Municipal Belt Line Rwy [TMBL]	12	-	8	1	-	-	3	-	-	8	-	8
Tacoma Rail Mountain Division [TRMW]	2	-	2	-	-	-	-	-	-	2	-	2
Talley Rand Term. RR [TTR]	-	-	-	-	-	-	-	-	-	-	-	-
Tazewell & Peoria RR, Inc. [TZPR]	2	-	1	1	-	-	-	-	-	1	-	1
Tennessee Southern RR Co., Inc. [TSRR]	1	-	1	-	-	-	-	-	-	1	-	1
Tennessee Valley RR [TVRM]	2	-	-	-	-	-	2	-	-	-	-	-
Tennken RR Co. Inc. [TKEN]	1	-	-	-	-	-	1	-	-	-	-	-
Terminal Rwy Alabama State Docks [TASD]	26	-	19	8	-	1	-	-	-	18	-	18
Texas & New Mexico RR Co. [TNMR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas & Northern Rwy Co. [TN]	2	-	2	-	-	-	1	-	1	1	-	1
Texas & Oklahoma RR Co. [TXOR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas City Term. Rwy Co. [TCT]	2	1	1	-	-	-	-	-	-	2	1	1
Texas Northwestern Rwy Co. [TXNW]	3	-	1	2	-	-	-	-	-	1	-	1
Texas Pacifico Transportation Limited [TXPF]	2	-	-	1	-	-	1	-	-	-	-	-
Texas Rock Crusher Rwy Co. [TXR]	-	-	-	-	-	-	-	-	-	-	-	-
Texas South-Eastern RR Co. [TSE]	-	-	-	-	-	-	-	-	-	-	-	-
Texas State RR [TSR]	1	-	1	-	-	-	-	-	-	1	-	1
Texas, Gonzales & Northern Rwy Co. [TXGN]	-	-	-	-	-	-	-	-	-	-	-	-
The Youngstown Belt RR Co. [YB]	-	-	-	-	-	-	-	-	-	-	-	-
Thermal Belt Rwy [TBRY]	-	-	-	-	-	-	-	-	-	-	-	-
Three Notch RR [TNHR]	-	-	-	-	-	-	-	-	-	-	-	-
Timberrock RR Co., Inc. [TIBR]	6	-	7	1	-	-	2	-	4	3	-	3
Tishomingo RR Co., Inc. [TISH]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo Lake Erie & Western RR [TLEW]	-	-	-	-	-	-	-	-	-	-	-	-
Toledo, Peoria & Western Rwy Corp. [TPW]	12	-	4	2	-	-	6	-	-	4	-	4
Tomahawk Rwy, L.P. [TR]	-	-	-	-	-	-	-	-	-	-	-	-
Towanda Monroeton Shippers Lifeline, Inc. [TMSS]	-	-	-	-	-	-	-	-	-	-	-	-
Transco Railcar Repair, Inc. [TRRJ]	-	-	-	-	-	-	-	-	-	-	-	-
Transkentucky Transportation RR, Inc. [TTIS]	-	-	-	-	-	-	-	-	-	-	-	-
Tri-City RR Co. [TCRY]	2	-	2	-	-	-	-	-	-	2	-	2
Trinity Rwy Express [TRES]	7	1	7	-	-	-	2	1	2	5	-	5
Trona Rwy Co. [TRC]	3	-	3	-	-	-	-	-	-	3	-	3
Tulsa-Sapulpa Union Rwy Co. LLC [TSU]	-	-	-	-	-	-	-	-	-	-	-	-
Turtle Creek Industrial RR, Inc. [TCKR]	-	-	-	-	-	-	-	-	-	-	-	-
Twin City & Western RR [TCWR]	4	1	3	-	-	-	-	-	-	4	1	3
U. S. Rail Corp. [USRP]	-	-	-	-	-	-	-	-	-	-	-	-
UTA FrontRunner Commuter Rail [UFRC]	3	-	1	-	-	-	2	-	-	1	-	1
Union County Industrial RR Co. [UCIR]	-	-	-	-	-	-	-	-	-	-	-	-
Upper Hudson River RR [UHRX]	1	-	1	-	-	-	-	-	-	1	-	1
Upper Merion & Plymouth RR Co. [UMP]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Central Rwy Co. [UCRY]	-	-	-	-	-	-	-	-	-	-	-	-
Utah Rwy Co. [UTAH]	2	-	1	-	-	-	1	-	-	1	-	1
Utah Transit Authority [UTAX]	2	-	-	-	-	-	2	-	-	-	-	-
V and S Rwy, Inc. [VSR]	1	-	1	-	-	-	-	-	-	1	-	1
V&S Rwy Inc D d/b/a/Towner Railway [VST]	-	-	-	-	-	-	-	-	-	-	-	-

Railroads whose employees worked < 400,000 hours

	Total		Train		HRC		Other				
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj		
Valdosta Rwy, L.P. [VR]	-	-	-	-	-	-	-	-	-		
Valley RR Co. [VALE]	-	-	-	-	-	-	-	-	-		
Vandalia RR Co. [VRRRC]	-	-	-	-	-	-	-	-	-		
Ventura County RR Co. [VCRR]	-	-	-	-	-	-	-	-	-		
Vermillion Valley RR Co., Inc. [VVRR]	-	-	-	-	-	-	-	-	-		
Vermont Rwy, Inc. [VTR]	20	-	20	-	-	-	-	20	-	20	
Vicksburg Southern RR, Inc. [VSOR]	2	-	1	1	-	-	1	-	1	-	
Virginia & Truckee RR Co., Inc. [VTRR]	-	-	-	-	-	-	-	-	-	-	
Virginia Rwy Express [VREX]	5	-	5	-	-	-	-	-	5	-	5
Virginia Southern RR [VSRR]	2	-	-	2	-	-	-	-	-	-	-
Vreeland Rail LLC [VREE]	-	-	-	-	-	-	-	-	-	-	-
WCTU Rwy [WCTR]	-	-	-	-	-	-	-	-	-	-	-
Wabash Central RR Corp. [WBCR]	-	-	-	-	-	-	-	-	-	-	-
Waccamaw Coast Line RR Co. [WCLR]	-	-	-	-	-	-	-	-	-	-	-
Walking Horse & Eastern RR Co. [WHOE]	-	-	-	-	-	-	-	-	-	-	-
Wallowa Union RR Authority [WURR]	-	-	-	-	-	-	-	-	-	-	-
Warren & Saline River RR Co. [WSR]	-	-	-	-	-	-	-	-	-	-	-
Warren & Trumbull RR Co., The [WTRM]	-	-	-	-	-	-	-	-	-	-	-
Washington & Idaho Rwy, Inc. [WIR]	-	-	-	-	-	-	-	-	-	-	-
Washington County RR Corp. [WACR]	1	-	-	-	-	-	1	-	-	-	-
Watco Switching [WATX]	2	-	2	-	-	-	-	-	2	-	2
Wellsboro & Corning RR Co. [WCOR]	-	-	-	-	-	-	-	-	-	-	-
West Chester RR Co. [WCRL]	-	-	-	-	-	-	-	-	-	-	-
West Isle Line Inc. [WFS]	-	-	-	-	-	-	-	-	-	-	-
West Jersey Short Line [WJSL]	-	-	-	-	-	-	-	-	-	-	-
West Michigan RR Co. [WMI]	-	-	-	-	-	-	-	-	-	-	-
West Tennessee RR Corp. [WTNN]	2	-	-	-	-	-	2	-	-	-	-
West Texas and Lubbock Rwy Co. [WTLC]	3	-	-	2	-	-	1	-	-	-	-
West Virginia Central RR [WVC]	1	-	1	-	-	-	-	-	1	-	1
Western Kentucky Rwy, LLC [WKRL]	-	-	-	-	-	-	-	-	-	-	-
Western Maryland Scenic RR [WMSR]	3	-	3	-	-	-	-	-	3	-	3
Western New York & Pennsylvania RR LLC [WNYP]	4	-	4	-	-	-	-	-	4	-	4
Western RR Co. [WRRRC]	-	-	-	-	-	-	-	-	-	-	-
Western Rail Switching, Inc. [WRS]	-	-	-	-	-	-	-	-	-	-	-
Western Rwy Museum [WRM]	-	-	-	-	-	-	-	-	-	-	-
Weyerhaeuser Woods RRs [WCTX]	2	-	2	-	-	-	-	-	2	-	2
Whitewater Valley RR [WVRR]	-	-	-	-	-	-	-	-	-	-	-
Wichita Term. Asociation [WTA]	3	-	1	2	-	-	-	-	1	-	1
Wichita, Tillman & Jackson Rwy Co., Inc. [WTJR]	3	-	2	1	-	-	1	-	1	-	2
Willamette & Pacific RR, Inc. [WPRR]	-	-	-	-	-	-	-	-	-	-	-
Willamette Valley Rwy Co. [WVR]	-	-	-	-	-	-	-	-	-	-	-
Wilmington & Western RR Co. [WWRC]	-	-	-	-	-	-	-	-	-	-	-
Wilmington Term. RR Inc. [WTRY]	-	-	-	-	-	-	-	-	-	-	-
Winamac Southern Rwy Co. [WSRY]	-	-	-	-	-	-	-	-	-	-	-
Winchester & Western RR Co. [WW]	6	-	3	1	-	-	3	-	1	2	2
Winston-Salem Southbound Rwy [WSS]	3	-	2	-	-	-	1	-	2	-	2
Wiregrass Central RR Co. [WGCR]	-	-	-	-	-	-	-	-	-	-	-
Wisconsin Northern RR [WN]	-	-	-	-	-	-	-	-	-	-	-
Yadkin Valley RR Co. [YVRR]	1	-	1	-	-	-	-	-	1	-	1
Yellowstone Valley RR Inc. [YSVR]	3	-	1	-	-	-	2	-	-	1	1
York Rwy Co. [YRC]	1	-	1	-	-	-	-	-	1	-	1
Youngstown & Austintown RR [YARR]	-	-	-	-	-	-	-	-	-	-	-
Yountstown & Southeastern RR Co., Inc. [YSRR]	1	-	1	-	-	-	1	-	1	-	-

Railroads whose employees worked < 400,000 hours

	Total			Train Accidents			HRC Incidents			Other Incidents		
	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj	Cnt	Kld	Inj
	Yreka Western RR Co. [YW]	-	-	-	-	-	-	-	-	-	-	-
Zanesville & Western Scenic RR [ZWSX]	-	-	-	-	-	-	-	-	-	-	-	-

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