



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

Summary of Accidents Investigated By The Federal Railroad Administration Calendar Year 1993

ATTENTION

IF YOU WOULD LIKE TO RECEIVE A COPY OF "SUMMARY OF ACCIDENTS INVESTIGATED BY THE FEDERAL RAILROAD ADMINISTRATION", OR, IF YOU ARE ALREADY RECEIVING THE SUMMARY AND HAVE AN ADDRESS CHANGE, PLEASE COMPLETE THE FORM BELOW.

NAME _____

COMPANY NAME _____

STREET _____

CITY _____

STATE _____ **ZIP CODE** _____

SEND TO:

**FEDERAL RAILROAD ADMINISTRATION
400 SEVENTH STREET, S.W.
ROOM 8301
WASHINGTON, D.C. 20509**

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INTRODUCTION

The 1993 Summary of Accidents Investigated by the Federal Railroad Administration (FRA) includes 94 railroad accidents.

This summary provides the following information:

- o the railroad(s) involved
- o the location and the time of the accident
- o the type of railroad accident
- o the method of operation and movements involved
- o the speed involved
- o the number of casualties
- o the estimated cost of railroad damages
- o the probable cause and any contributing factor(s)

The railroad codes used in this summary can be found in the FRA Guide for Preparing Accident/Incident Reports Appendix A.

Estimated railroad damage includes labor cost, and all other costs to repair or replace damaged on-track equipment, signals, track, track structures, or roadbed. The cost of lading and clearing the wreck, as well as the cost to society, is not included.

The data were edited and summarized by FRA personnel. The United States Government assumes no liability for its contents or use.

Federal Railroad Administration
Office of Safety, RRS-22
400 Seventh Street, S.W.
Washington, D.C. 20590

ACCIDENT SUMMARY

1. Accidents Investigated

During Calendar Year 1993 the Federal Railroad Administration investigated and determined the probable cause of 94, railroad accidents.

2. <u>Type of Accident</u>	<u>No.</u>	<u>Percent</u>
(a) Derailment	50	53.2
(b) Head-End Collision	6	6.4
(c) Rear-End Collision	4	4.3
(d) Side Collision	3	3.2
(e) Raking Collision	2	2.1
(f) Highway-Rail Crossing	20	21.3
(g) Railroad Grade Crossing	2	2.1
(h) Obstruction	2	2.1
(i) Other	5	5.3
Total	94	100.0

3. Casualties

(a) Killed	113
(b) Injured	460
Total	573

ACCIDENT SUMMARY BY TRACK CLASS, DAMAGES, AND TYPE

TRACK CLASS	ACCI-DENTS	TOTAL DAMAGE	COLLI SIONS	DERAIL-MENTS	OTHER ACCIDENTS	HIGHWAY-RAIL COLLISIONS
1	3	1,943,350	2	0	0	1
2	11	1,635,972	3	7	1	0
3	26	14,055,947	3	17	3	3
4	50	43,996,712	9	24	3	14
5	4	807,200	0	2	0	2
6	0		0	0	0	0
X	0		0	0	0	0
TOTAL	94	62,439,181	17	50	7	20

	COLLI SION	DERAIL MENT	OTHER	HIGHWAY-RAIL COLLISION	TOTAL ACCID
AMTRAK (NATIONAL RR PASSENGER CORP)	1	5	1	7	14
ATCHISON, TOPEKA AND SANTA FE	4	3	0	3	10
BURLINGTON NORTHERN	7	14	4	2	27
CHICAGO, CENTRAL & PACIFIC RR	1	0	0	0	1
CANADIAN NATIONAL RAILWAYS	0	0	0	1	1
CONSOLIDATED RAIL CORPORATION	1	1	0	3	5
CHICAGO RAIL LINK	1	0	0	0	1
CSX TRANSPORTATION	1	11	1	3	16
DELAWARE AND HUDSON RAILROAD	0	1	0	0	1
DENVER AND RIO GRANDE WESTERN	1	0	0	0	1
ILLINOIS CENTRAL RR	0	1	0	1	2
INDIANA HARBOR BELT RR	1	0	0	0	1
KANSAS CITY SOUTHERN RW	0	1	0	0	1
MISSOURI AND NORTHERN ARKANSAS	2	0	1	0	2
NORFOLK SOUTHERN CORP	0	3	0	1	4
PADUCAH & LOUISVILLE RW	0	1	0	0	1
SAINT LOUIS SOUTHWESTERN	0	0	1	0	1
SOO LINE RAILROAD CO	1	0	0	0	1
SOUTHERN PACIFIC TRANS CO	3	9	0	3	15
SPRINGFIELD TERMINAL RW	0	2	0	0	2
UNION PACIFIC RAILROAD CO	2	5	1	3	11
WISCONSIN CENTRAL LTD	0	1	0	0	1
TOTAL	26	58	9	27	119

REPORT NUMBER	RAILROAD CODEACCIDENT LOCATION....		DATE	PAGE
1	MNA BN	LAMAR	29	01/03/93	1
2	BN	STRUBLE	19	01/13/93	1
3	KCS	WEST LAKE	22	01/15/93	1
4	NICD	GARY	18	01/18/93	2
6	CSX	JACKSON	21	01/20/93	2
5	BN SP	AURORA	17	01/20/93	2
7	ATSF IHB	CHICAGO	17	01/21/93	3
8	SP	YONCALLA	41	01/27/93	3
9	BN	WICHITA	20	01/28/93	3
10	ATK CR	MICHIGAN CITY	18	01/30/93	4
11	ST	NORTH PETERSBURG	36	02/08/93	4
12	BN	IRONDALE	08	02/10/93	4
13	WC	SOLON SPRINGS	55	02/10/93	5
14	SP	FERRUM	06	02/11/93	5
15	ATSF BN	FAIRMONT	40	02/21/93	5
16	CSX	IJAMSVILLE	24	02/23/93	6
17	ATK IC	MEMPHIS	47	02/23/93	6
18	SP	OGDEN	49	02/26/93	6
19	SP	SCHULENBURG	48	03/02/93	7
20	ATK CR	COMSTOCK	26	03/10/93	7
22	NS	BLUEFIELD	54	03/15/93	8
21	UP	NUGGET	56	03/15/93	8
23	CSX ATK	FORT LAUDERDALE	12	03/17/93	8
24	CSX	GERMANTOWN	24	03/23/93	9
25	BN	SCANLON	27	03/26/93	9
26	BN	ROSEBUD	30	03/29/93	9
27	NS	ORANGEBURG	45	04/05/93	10
28	SP	NILAND	06	04/14/93	10
29	ATSF SP	BEALVILLE	06	04/15/93	10
30	SP	MUMFORD	48	04/19/93	11
31	BN	HOME VALLEY	53	04/20/93	11
32	BN	BERWYN	31	04/28/93	11
34	ST	PETERSBURG	36	04/29/93	12
33	SP	DAYTON	48	04/29/93	12
35	UP	BIG SPRING	48	05/05/93	12

REPORT RAILROAD NUMBER	RAILROAD CODEACCIDENT LOCATION....	DATE	PAGE
36	BN	SALEM	05/14/93	13
37	CN	WARROAD	05/17/93	13
38	ATK CSX	OPA LOCKA	05/21/93	13
39	CSX DH	NEWARK	05/23/93	14
40	ATK SP	BELMONT	06/08/93	14
41	CSX	DELTA	06/11/93	14
42	BN	SEYMOUR	06/22/93	15
43	BN	KENNEWICK	06/24/93	15
44	CR CSX	WASHINGTON	06/25/93	15
45	ATK SP	HARTFORD	06/28/93	16
46	NS	HARRIMAN	07/05/93	16
47	BN	PALEREMO	07/07/93	16
48	UP	MANDEVILLE	07/17/93	17
49	CSX	TERRE HAUTE	07/23/93	17
50	SP	GRAND JUNCTION	07/25/93	17
51	ATK BN	CENTRALIA	07/28/93	18
52	ATSF	SELIGMAN	08/08/93	18
53	BN	HUDSON	08/11/93	19
54	ATSF	GALESBURG	08/13/93	19
55	ATSF	AUGUSTA	08/15/93	19
56	ATSF	FRIONA	08/16/93	20
57	SP	FLATONIA	08/17/93	20
58	BN	LEHIGH	08/18/93	20
59	IC	CICERO	08/24/93	21
60	CSX	TUNNEL HILL	08/27/93	21
61	BN	FORT SCOTT	08/28/93	21
62	CSX	STARNES	09/11/93	22
63	BN	FIRTH	09/14/93	22
65	CSX	DICKASON	09/15/93	23
64	NS	MCPHERSON	09/15/93	22
66	ATK SSWN	PONTIAC	09/17/93	23
67	UP	BASS	09/18/93	23
70	ATK CSX	AKKA	09/22/93	24
68	UP	HODGE	09/22/93	24
71	UP	KEEFER CREEK	09/22/93	25

REPORT NUMBER	RAILROAD CODEACCIDENT LOCATION....	DATE	PAGE
69	BN	SPRAGUE	53	09/22/93 24
72	BN	STEVENSON	53	09/28/93 25
73	CR CRL	CHICAGO	17	09/28/93 25
74	BN	BERTHOUD	08	09/30/93 26
75	UP	KEYSTONE	31	10/01/93 26
76	DRGW ATSF	DENVER	08	10/13/93 26
78	ATSF	MACHOVEC	48	10/17/93 27
77	UP	DUPONT	08	10/17/93 27
79	BN	KALAMA	53	10/28/93 27
80	PAL	LOUISVILLE	21	11/03/93 28
81	BN UP	LONGVIEW	53	11/11/93 28
82	SP	MINNOW	41	11/22/93 28
83	ATK UP	BOISE	16	11/23/93 29
84	UP	LATHROP	06	11/25/93 29
85	BN	BROADVIEW	30	11/26/93 29
86	BN	RANDALL	27	11/30/93 30
87	ATK CSX	KISSIMMEE	12	11/30/93 30
88	CSX	GIBSON	37	12/06/93 30
89	SP	BELEN	48	12/13/93 31
91	SOO CC	DUBUQUE	19	12/21/93 31
90	ATK CSX	GARY	18	12/21/93 31
92	BN	SEWARD	31	12/25/93 32
93	ATSF	CORCORAN	06	12/26/93 32
94	ATK CR	NORTH TONAWANDA	36	12/29/93 32

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
MNA BN	01/03/93	11:56 AM	LAMAR	MO	RR GRADE CROSSING	0	2	\$ 950,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
1			METHOD OF OPERATION:	INTERLOCKING	MOVEMENTS INVOLVED: FREIGHT TRAIN		LOCAL	0 MPH
			EQUIPMENT DERAILED:	4 LOCOMOTIVE(S) 3 CAR(S)	FREIGHT TRAIN		0120	43 MPH

PROBABLE CAUSE: THE MNA CREWMEMBERS FAILED TO OPERATE THEIR TRAIN IN ACCORDANCE WITH SIGNAL INDICATIONS.

CONTRIBUTING FACTORS: THE MNA CREWMEMBERS WERE NOT QUALIFIED ON THE PHYSICAL CHARACTERISTICS AND APPLICABLE INTERLOCKING RULES OF THE TERRITORY ON WHICH THEY WERE OPERATING.

BN	01/13/93	10:00 AM	STRUBLE	IA	DERAILMENT	0	0	\$ 425,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
2			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01G28	40 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S)				

PROBABLE CAUSE: A BROKEN NUMBER ONE AXLE ON LOCOMOTIVE BN 761 CAUSED BY INSUFFICIENT LUBRICATION IN THE SUPPORT BEARING HOUSING.

KCS	01/15/93	01:30 AM	WEST LAKE	LA	DERAILMENT	0	0	\$ 62,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
3			METHOD OF OPERATION:	YARD LIMITS	MOVEMENTS INVOLVED: FREIGHT TRAIN		DODG8	15 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S) 5 CAR(S)				

PROBABLE CAUSE: INADEQUATE BRAKES ON TRAIN DODG8 CAUSED BY A CLOSED ANGLE COCK BETWEEN THE REAR LOCOMOTIVE KCS 4343 AND COVERED HOPPER KCS 5166, THE FIRST CAR IN THE TRAIN.

CONTRIBUTING FACTORS: CARRIER PERSONNEL FAILED TO PERFORM THE REQUIRED BRAKE TEST BEFORE THE TRAIN DEPARTED THE YARD.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
NICD	01/18/93	09:36 AM	GARY	IN	RAKING COLLISION	7	95	\$ 854,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
4			METHOD OF OPERATION:	INTERLOCKING	MOVEMENTS INVOLVED:	PASSENGER TRAIN	7	0 MPH
			EQUIPMENT DERAILED:	NONE		PASSENGER TRAIN	12	30 MPH

PROBABLE CAUSE: THE ENGINEER OF NICD 7 FAILED TO OPERATE HIS TRAIN IN ACCORDANCE WITH AN ABSOLUTE STOP SIGNAL INDICATION AND FOULED AN ADJACENT MAIN TRACK.

CONTRIBUTING FACTORS: THE ENGINEER OF NICD 12 FAILED TO TAKE ANY ACTION TO REDUCE THE SPEED OF HIS TRAIN PRIOR TO AN IMMINENT COLLISION WITH THE STANDING TRAIN.

BN SP	01/20/93	12:55 AM	AURORA	IL	HEAD-END COLLISION	1	1	\$ 2,933,130
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
5			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED:	FREIGHT TRAIN	17	9 MPH
			EQUIPMENT DERAILED:	3 LOCOMOTIVE(S) 6 CAR(S)		FREIGHT TRAIN	RVCHX	21 MPH

PROBABLE CAUSE: THE CREWMEMBERS OF BN FREIGHT NO. 17 MADE AN UNAUTHORIZED FORWARD MOVE AFTER MAKING A REVERSE MOVE WITHIN INTERLOCKING LIMITS.

CSX	01/20/93	02:15 PM	JACKSON	KY	OBSTRUCTION	0	1	\$ 42,900
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
6			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED:	LIGHT LOCO(S)	C753	15 MPH
			EQUIPMENT DERAILED:	2 CAR(S)		MOW EQUIPMENT		0 MPH

PROBABLE CAUSE: THE CREWMEMBERS OF CSX C753 OCCUPIED THE LIMITS OF A CONDITIONAL STOP ORDER WITHOUT PROPER AUTHORITY.

CONTRIBUTING FACTORS: THE MW FOREMAN FAILED TO ERECT A CONDITIONAL STOP SIGN AT THE PROPER LOCATION SHOWN ON HIS WORK AUTHORITY.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATSF IHB	01/21/93	08:20 AM	CHICAGO	IL	RAKING COLLISION	0	0	\$ 97,000
		TYPE OF TRACK:	MAIN					
		CLASS OF TRACK:	3					
7		METHOD OF OPERATION:	INTERLOCKING		MOVEMENTS INVOLVED: FREIGHT TRAIN		NPX9	40 MPH
		EQUIPMENT DERAILED:	2 LOCOMOTIVE(S) 7 CAR(S)				13321	40 MPH

PROBABLE CAUSE: VANDALISM. A FOURTEEN YEAR OLD YOUTH WAS APPREHENDED AND ADMITTED THAT HE TURNED THE ANGLE COCK BETWEEN THE THIRTEENTH AND FOURTEENTH CARS WHILE THE TRAIN WAS STOPPED.

SP	01/27/93	02:45 PM	YONCALLA	OR	DERAILMENT	0	2	\$ 862
		TYPE OF TRACK:	MAIN					
		CLASS OF TRACK:	2					
8		METHOD OF OPERATION:	TRAFFIC CONTROL		MOVEMENTS INVOLVED: FREIGHT TRAIN		MEEUM	22 MPH
		EQUIPMENT DERAILED:	4 LOCOMOTIVE(S) 15 CAR(S)					

PROBABLE CAUSE: WHEEL LIFT CAUSED BY EXCESSIVE BUFF (COMPRESSIVE) FORCES RESULTING FROM OPERATION OF HEAD END LOCOMOTIVES IN DYNAMIC BRAKING AND MID-TRAIN HELPER LOCOMOTIVES IN POWER.

BN	01/28/93	12:10 PM	WICHITA	KS	HIGHWAY-RAIL CROSSING	0	1	\$ 0
		TYPE OF TRACK:	MAIN					
		CLASS OF TRACK:	3					
9		METHOD OF OPERATION:	TRACK WARRANT CONTROL		MOVEMENTS INVOLVED: FREIGHT TRAIN		91666	36 MPH
		EQUIPMENT DERAILED:	NONE					
		WARNING DEVICE:	ACTIVE					

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO A FREIGHT TRAIN THAT WAS OCCUPYING A HIGHWAY-RAIL GRADE CROSSING.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATK CR	01/30/93	06:26 PM	MICHIGAN CITY	IN	HIGHWAY-RAIL CROSSING	3	1	\$ 1,257
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
10			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		365	72 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
ST	02/08/93	01:00 AM	NORTH PETERSBURG	NY	DERAILMENT	0	0	\$ 300,445
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
11			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		PODH	40 MPH
			EQUIPMENT DERAILED:	2 LOCOMOTIVE(S) 24 CAR(S)				
PROBABLE CAUSE: BROKEN RAIL (PLANT WELD IN CWR).								
BN	02/10/93	02:42 AM	IRONDALE	CO	DERAILMENT	0	0	\$ 531,600
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
12			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		OWY90	48 MPH
			EQUIPMENT DERAILED:	22 CAR(S)				
PROBABLE CAUSE: FAILURE OF THE NUMBER 4 AXLE ON HOPPER CAR SDEX 10435.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
WC	02/10/93	08:00 AM	SOLOM SPRINGS	WI	DERAILMENT	0	0	\$ 854,704
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
13			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		CSXTL	36 MPH
			EQUIPMENT DERAILED:	3 LOCOMOTIVE(S) 24 CAR(S)				
PROBABLE CAUSE: BROKEN RAIL (ORDINARY BREAK).								
SP	02/11/93	11:05 AM	FERRUM	CA	DERAILMENT	2 TRANSIENTS	0	\$ 206,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	5				
14			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		AVCIM	63 MPH
			EQUIPMENT DERAILED:	15 CAR(S)				
PROBABLE CAUSE: UNDETERMINED.								
ATSF BN	02/21/93	12:27 93	FAIRMONT	OK	RR GRADE CROSSING	1	3	\$ 791,427
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
15			METHOD OF OPERATION:	INTERLOCKING	MOVEMENTS INVOLVED: FREIGHT TRAIN		01175	40 MPH
			EQUIPMENT DERAILED:	5 LOCOMOTIVE(S) 8 CAR(S)	FREIGHT TRAIN		ENH01	0 MPH
PROBABLE CAUSE: THE CREWMEMBERS OF ATSF ENH01 FAILED TO OPERATE THEIR TRAIN IN ACCORDANCE WITH A STOP SIGNAL INDICATION AND STOPPED ON A RAILROAD CROSSING-AT-GRADE.								
CONTRIBUTING FACTORS: THE ABSENCE OF A YELLOW LIGHT ON THE FIXED SEMAPHORE APPROACH SIGNAL INTENDED TO PROVIDE A NIGHT ASPECT, COMPOUNDED BY LIMITED VISION DUE TO HEAVY FOG.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
CSX	02/23/93	01:22 AM	IJAMSVILLE	MD	DERAILMENT	0	0	\$ 198,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
16			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		B722	67 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S)				
				4 CAR(S)				
				1 CABOOSE(S)				

PROBABLE CAUSE: THE CREWMEMBERS OF B722 FAILED TO PROPERLY SECURE THEIR UNATTENDED TRAIN WHICH ALLOWED IT TO ROLL FREE ON A DESCENDING GRADE AND SUBSEQUENTLY DERAIL IN A CURVE.

ATK IC	02/23/93	05:45 AM	MEMPHIS	TN	DERAILMENT	0	0	\$ 114,344
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
17			METHOD OF OPERATION:	YARD LIMITS	MOVEMENTS INVOLVED: PASSENGER TRAIN		59	18 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S)				
				4 CAR(S)				

PROBABLE CAUSE: WIDE GAGE DUE TO INEFFECTIVE CROSSTIES.

SP	02/26/93	05:40 AM	OGDEN	UT	REAR-END COLLISION	0	2	\$ 2,039,127
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
18			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: FREIGHT TRAIN		RUGJM	0 MPH
				DIRECT TRAFFIC CONTROL	FREIGHT TRAIN		EUCHX	52 MPH
			EQUIPMENT DERAILED:	5 LOCOMOTIVE(S)				
				41 CAR(S)				

PROBABLE CAUSE: THE CREWMEMBERS OF SP EUCHX FAILED TO OPERATE THEIR TRAIN IN ACCORDANCE WITH A STOP SIGNAL INDICATION.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
SP	03/02/93	11:05 PM	SCHULENBURG	TX	DERAILMENT	0	0	\$ 1,113,828
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
19			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: FREIGHT TRAIN		WCHOM	40 MPH
				TIMETABLE				
			EQUIPMENT DERAILED:	30 CAR(S)				
			HAZARDOUS MATERIALS RELEASED: YES	NUMBER EVACUATED: 160				

PROBABLE CAUSE: EMPTY BOXCAR WP 60012 WAS OFF-CENTER ON THE B-END WITH THE CENTER PIN MISSING.

CONTRIBUTING FACTORS: IMPROPER TRAIN MAKE-UP. THREE EMPTY BOXCARS, INCLUDING WP 60012, WERE PLACED AHEAD OF 35 HEAVILY LOADED TANK CARS.

ATK CR	03/10/93	11:10 AM	COMSTOCK	MI	HIGHWAY-RAIL CROSSING	1	1	\$ 275,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
20			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: PASSENGER TRAIN		350	60 MPH
				TIMETABLE				
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				

PROBABLE CAUSE: A PROPANE TRUCK OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A PRIVATE HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: SLIPPERY ROAD CONDITIONS DUE TO AN ACCUMULATION OF WET SNOW PREVENTED THE VEHICLE OPERATOR FROM EFFECTIVELY CONTROLLING HIS VEHICLE AND ALLOWED THE TRUCK TO SKID ONTO THE CROSSING.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
UP	03/15/93	07:08 AM	NUGGET	WY	DERAILMENT	0	0	\$ 210,400
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
21			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		SENPZ	28 MPH
			EQUIPMENT DERAILED:	26 CAR(S)				

PROBABLE CAUSE: LATERAL FORCES GENERATED BY DTTX 72172 (A MULTI-PLATFORM ARTICULATED CAR) ON A SIX-DEGREE CURVE WITH WEAK TRACK FASTENERS (SPIKES) ALLOWED THE HIGH RAIL TO ROLL OUT.

NS	03/15/93	01:55 AM	BLUEFIELD	WV	DERAILMENT	0	1	\$ 525,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
22			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		194V4	20 MPH
			EQUIPMENT DERAILED:	5 LOCOMOTIVE(S) 14 CAR(S)				

PROBABLE CAUSE: DURING SEVERE WINTER WEATHER, ICE BUILT UP BETWEEN THE TREAD OF THE WHEEL AND THE BRAKE SHOES WHILE THE TRAIN WAS STANDING AND RESULTED IN INEFFECTIVE BRAKES WHEN THE TRAIN WAS MOVED.

CSX ATK	03/17/93	03:13 PM	FORT LAUDERDALE	FL	HIGHWAY-RAIL CROSSING	6	8	\$ 922,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
23			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		PO912	30 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE TANK TRUCK OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: ROUTING OF TRAFFIC FROM MULTIPLE LANES TO SINGLE LANE BECAUSE OF HIGHWAY CONSTRUCTION CREATED CONGESTION IN THE CROSSING AREA.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
CSX	03/23/93	07:35 PM	GERMANTOWN	MD	DERAILMENT	0	0	\$ 1,101,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
24			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: FREIGHT TRAIN		S216	53 MPH
				TIMETABLE				
			EQUIPMENT DERAILED:	33 CAR(S)				
PROBABLE CAUSE: EXCESSIVE BUFF (COMPRESSIVE) FORCES CAUSED BY IMPROPER TRAIN HANDLING ON TRACK WITH AN UNDULATING GRADE WITHIN REVERSE AND COMPOUND CURVATURE.								
BN	03/26/93	01:04 AM	SCANLON	MN	DERAILMENT	0	0	\$ 1,209,200
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
25			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		124HT	38 MPH
			EQUIPMENT DERAILED:	50 CAR(S)				
PROBABLE CAUSE: UNDETERMINED.								
BN	03/29/93	08:28 PM	ROSEBUD	MT	REAR-END COLLISION	0	0	\$ 566,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
26			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		NN226	0 MPH
				AUTOMATIC BLOCK	FREIGHT TRAIN		RC006	22 MPH
					FREIGHT TRAIN		NN227	0 MPH
			EQUIPMENT DERAILED:	2 LOCOMOTIVE(S)				
				4 CAR(S)				
				1CABOOSE(S)				
PROBABLE CAUSE: THE CREWMEMBERS OF BN TRAIN NO. RC006 FAILED TO OPERATE THEIR TRAIN IN ACCORDANCE WITH A RESTRICTED SPEED SIGNAL INDICATION.								
CONTRIBUTING FACTORS: THE ENGINEER'S AND ENGINEER TRAINEE'S BLOOD ALCOHOL LEVELS WERE MEASURED AT 0.082 AND 0.064 PERCENT RESPECTIVELY AT THE TIME OF COLLECTION WHICH WAS 5 1/2 AND 4 1/2 HOURS AFTER THE ACCIDENT FOR THE ENGINEER AND ENGINEER TRAINEE RESPECTIVELY.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
NS	04/05/93	08:15 PM	ORANGEBURG	SC	HIGHWAY-RAIL CROSSING	6	0	\$ 50
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
27			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		P65	49 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
SP	04/14/93	08:39 PM	NILAND	CA	DERAILMENT	0	0	\$ 321,466
			TYPE OF TRACK:	SIDING				
			CLASS OF TRACK:	2				
28			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		WCHOM	20 MPH
			EQUIPMENT DERAILED:	8 CAR(S)				
			HAZARDOUS MATERIALS RELEASED:	YES	NUMBER EVACUATED: 150			
PROBABLE CAUSE: GAPPED SWITCH POINT ALLOWED THE L-3 WHEEL OF TANK CAR NO. TILX 300419 TO FALL BETWEEN THE STOCK RAIL AND THE SWITCH POINT.								
ATSF	04/15/93	09:30 PM	BEALVILLE	CA	DERAILMENT	0	0	\$ 72,000
SP			TYPE OF TRACK:	SIDING				
			CLASS OF TRACK:	2				
29			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		1839	5 MPH
			EQUIPMENT DERAILED:	2 CAR(S)				
PROBABLE CAUSE: EXCESSIVE BUFF (COMPRESSIVE) FORCES GENERATED WHEN THE ENGINEER FAILED TO EFFECTIVELY CONTROL THE SLACK IN HIS TRAIN WHILE RELEASING THE AIR BRAKES ON A DESCENDING GRADE.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
SP	04/19/93	12:15 PM	MUMFORD	TX	HIGHWAY-RAIL CROSSING	4	1	\$ 0
			TYPE OF TRACK:		MAIN			
			CLASS OF TRACK:		4			
30			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		EGCHQ	58 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
BN	04/20/93	07:40 AM	HOME VALLEY	WA	DERAILMENT	0	0	\$ 343,350
			TYPE OF TRACK:		MAIN			
			CLASS OF TRACK:		4			
31			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01667	45 MPH
			EQUIPMENT DERAILED:	9 CAR(S)				
PROBABLE CAUSE: BURNED OFF R-2 JOURNAL CAUSED BY A FAILED ROLLER BEARING ON TANK CAR RTMX 13039.								
BN	04/28/93	02:30 AM	BERWYN	NE	DERAILMENT	0	0	\$ 839,000
			TYPE OF TRACK:		MAIN			
			CLASS OF TRACK:		4			
32			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01121	45 MPH
			EQUIPMENT DERAILED:	17 CAR(S)				
			HAZARDOUS MATERIALS RELEASED:	YES	NUMBER EVACUATED:	120		
PROBABLE CAUSE: BROKEN RAIL (DETAIL FRACTURE).								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
SP	04/29/93	08:00 PM	DAYTON	TX	DERAILMENT	0	0	\$ 322,400
	TYPE OF TRACK:		MAIN					
	CLASS OF TRACK:		4					
33	METHOD OF OPERATION:		TRAFFIC CONTROL		MOVEMENTS INVOLVED:	FREIGHT TRAIN	AASBT	40 MPH
						FREIGHT TRAIN	HODYM	0 MPH
						CUT OF CARS		0 MPH
	EQUIPMENT DERAILED:		38 CAR(S)					
	HAZARDOUS MATERIALS RELEASED:		YES	NUMBER EVACUATED:	30			
PROBABLE CAUSE: IRREGULAR CROSSLEVEL. 1-1/2 INCHES DIFFERENCE IN CROSSLEVEL WITHIN 62 FEET.								
CONTRIBUTING FACTORS: INSUFFICIENT SIDE BEARING CLEARANCE (5/32 INCH) ON THE AR CORNER OF ACFX 44533.								
ST	04/29/93	02:05 PM	PETERSBURG	NY	DERAILMENT	0	0	\$ 7,305
	TYPE OF TRACK:		MAIN					
	CLASS OF TRACK:		3					
34	METHOD OF OPERATION:		TRAFFIC CONTROL		MOVEMENTS INVOLVED:	FREIGHT TRAIN	UB26B	10 MPH
	EQUIPMENT DERAILED:		14 CAR(S)					
PROBABLE CAUSE: IRREGULAR TRACK ALIGNMENT (BUCKLED).								
UP	05/05/93	11:30 PM	BIG SPRING	TX	DERAILMENT	0	3	\$ 315,000
	TYPE OF TRACK:		MAIN					
	CLASS OF TRACK:		4					
35	METHOD OF OPERATION:		TRACK WARRANT CONTROL		MOVEMENTS INVOLVED:	FREIGHT TRAIN	1EPFW	15 MPH
			AUTOMATIC BLOCK					
	EQUIPMENT DERAILED:		6 LOCOMOTIVE(S)					
			4 CAR(S)					
PROBABLE CAUSE: WASHOUT OF TRACK STRUCTURE.								
CONTRIBUTING FACTORS: THE CARRIER FAILED TO CONDUCT A SPECIAL INSPECTION OF THE TRACK AFTER SEVERE FLOODING CONDITIONS AND THE TRAIN CREW FAILED TO OPERATE AT RESTRICTED SPEED IN ACCORDANCE WITH SIGNAL INDICATIONS.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	05/14/93	08:45 PM	SALEM	OR	DERAILMENT	0	0	\$ 1,018,320
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
36			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		52663	35 MPH
			EQUIPMENT DERAILED:	13 CAR(S)				

PROBABLE CAUSE: BURNED OFF R-3 JOURNAL CAUSED BY A FAILED ROLLER BEARING ON BOX CAR BN 218869.

CONTRIBUTING FACTORS: THE TRAIN CREW FAILED TO PROPERLY INSPECT THEIR TRAIN AFTER NOTIFICATION BY THE DISPATCHER OF A PROBLEM.

CN	05/17/93	11:45 AM	WARROAD	MN	HIGHWAY-RAIL CROSSING	3	0	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
37			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		865KP	51 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

ATK CSX	05/21/93	07:50 PM	OPA LOCKA	FL	DERAILMENT	0	6	\$ 1,620,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
38			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		P097	45 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S) 4 CAR(S)				

PROBABLE CAUSE: VANDALISM. TWO METAL ROLLERS WERE PLACED AT THE HEEL BLOCKS OF THE SWITCH POINTS OBSTRUCTING THE TRAIN'S NORMAL MOVEMENT.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
CSX DH	05/23/93	11:55 PM	NEWARK	DE	DERAILMENT	0	0	\$ 1,125,850
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
39			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		29252	46 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S) 29 CAR(S)				
PROBABLE CAUSE: BROKEN RAIL (BOLT HOLE BREAK OUT AT THE HEEL OF THE FROG).								
ATK SP	06/08/93	03:44 PM	BELMONT	CA	SIDE COLLISION	0	0	\$ 420,350
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
40			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: PASSENGER TRAIN		59	55 MPH
				TIMETABLE	YARD/SWITCHING		7657	0 MPH
			EQUIPMENT DERAILED:	NONE				
PROBABLE CAUSE: THE CREWMEMBERS OF SP 7657 FAILED TO OBTAIN PERMISSION FROM THE DISPATCHER TO ENTER THE MAIN TRACK FROM THE SIDING AND SUBSEQUENTLY FOULED THE MAIN TRACK JUST PRIOR TO THE ARRIVAL OF AMTRAK PASSENGER TRAIN NO. 59.								
CSX	06/11/93	03:50 PM	DELTA	SC	DERAILMENT	0	0	\$ 210,000
			TYPE OF TRACK:	SIDING				
			CLASS OF TRACK:	2				
41			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		0614	25 MPH
			EQUIPMENT DERAILED:	7 CAR(S)				
PROBABLE CAUSE: BUCKLED TRACK. THE CARRIER FAILED TO ADEQUATELY ADJUST THE CONTINUOUS WELDED RAIL TO A DESIRED TEMPERATURE.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	06/22/93	09:00 PM	SEYMOUR	MO	DERAILMENT	0	0	\$ 230,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
42			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		79122	42 MPH
			EQUIPMENT DERAILED:	16 CAR(S)				

PROBABLE CAUSE: STRUCTURAL FAILURE ON THE FIFTH WELL OF ARTICULATED CAR NO. DTTX 63185. A 100 PERCENT NEW BREAK CAUSED THE LEFT SIDE TO COLLAPSE AND FALL ONTO THE TRACK.

BN	06/24/93	10:30 PM	KENNEWICK	WA	HIGHWAY-RAIL CROSSING	3	0	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
43			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		40169	49 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: THE SEVENTEEN YEAR OLD MOTOR VEHICLE OPERATOR'S BLOOD ALCOHOL LEVEL WAS MEASURED AT 0.06 PERCENT.

CR CSX	06/25/93	01:30 PM	WASHINGTON	DC	DERAILMENT	0	0	\$ 44,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
44			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		Q406	8 MPH
			EQUIPMENT DERAILED:	12 CAR(S)				

PROBABLE CAUSE: WHEEL LIFT ON FLAT CAR MTTX 472764 ON THE HIGH RAIL OF AN EIGHT-DEGREE THIRTY-MINUTE CURVE CAUSED BY THE FAILURE TO PROPERLY APPLY COUPLER MOVEMENT LIMITERS ON TWO FLAT CARS (MTTX 472764 AND MTTX 476829).

CONTRIBUTING FACTORS: MARGINAL TRACK SURFACE CONDITIONS.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATK SP	06/28/93	08:35 PM	HARTFORD	IL	HIGHWAY-RAIL CROSSING	0	15	\$ 165,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
45			METHOD OF OPERATION:	AUTOMATIC BLOCK TIMETABLE	MOVEMENTS INVOLVED: PASSENGER TRAIN		305	36 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				
PROBABLE CAUSE: THE TRACTOR-TRAILER TRUCK STALLED AND BECAME DISABLED ON THE HIGHWAY-RAIL GRADE CROSSING JUST PRIOR TO THE PASSENGER TRAIN'S ARRIVAL.								
NS	07/05/93	05:26 AM	HARRIMAN	TN	DERAILMENT	0	0	\$ 502,700
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
46			METHOD OF OPERATION:	AUTOMATIC BLOCK TIMETABLE	MOVEMENTS INVOLVED: FREIGHT TRAIN		167T3	28 MPH
			EQUIPMENT DERAILED:	29 CAR(S)				
			HAZARDOUS MATERIALS RELEASED:	YES	NUMBER EVACUATED: 150			
PROBABLE CAUSE: UNDETERMINED.								
BN	07/07/93	11:35 PM	PALEREMO	ND	DERAILMENT	0	0	\$ 822,800
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
47			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01203	53 MPH
			EQUIPMENT DERAILED:	46 CAR(S)				
PROBABLE CAUSE: BROKEN RAIL (BOLT HOLE BREAKOUT).								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
UP	07/17/93	09:15 PM	MANDEVILLE	AR	HIGHWAY-RAIL CROSSING	3	0	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
48			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		FWCHZ	56 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
CSX	07/23/93	11:10 PM	TERRE HAUTE	IN	REAR-END COLLISION	0	0	\$ 120,300
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
49			METHOD OF OPERATION:	YARD LIMITS	MOVEMENTS INVOLVED: FREIGHT TRAIN CUT OF CARS		T541	16 MPH 0 MPH
			EQUIPMENT DERAILED:	3 LOCOMOTIVE(S) 1 CAR(S) 1 CABOOSE(S)				
PROBABLE CAUSE: THE CREWMEMBERS OF CSX T541 FAILED TO OPERATE THE TRAIN AT RESTRICTED SPEED WITHIN YARD LIMITS.								
CONTRIBUTING FACTORS: LACK OF EFFECTIVE EFFICIENCY TESTING OF THE ENGINEER REGARDING HIS ABILITY TO OPERATE A TRAIN UNDER CONDITIONS AND REQUIREMENTS PRESCRIBED BY CONTROLLED SPEED AND RESTRICTED SPEED.								
SP	07/25/93	03:08 PM	GRAND JUNCTION	CO	DERAILMENT	0	0	\$ 570,858
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
50			METHOD OF OPERATION:	DIRECT TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		ARATC	30 MPH
			EQUIPMENT DERAILED:	32 CAR(S)				
PROBABLE CAUSE: RESTRICTED MOVEMENT OF THE TRUCK BOLSTER ON HOPPER CAR CELX 905032 CREATED HIGH LATERAL FORCES CAUSING THE LOW RAIL TO ROLL OUT.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATK BN	07/28/93	08:40 PM	CENTRALIA	WA	DERAILMENT	0	0	\$ 273,400
		TYPE OF TRACK:	MAIN					
		CLASS OF TRACK:	4					
51		METHOD OF OPERATION:	TRAFFIC CONTROL		MOVEMENTS INVOLVED: FREIGHT TRAIN	01686	45 MPH	
		EQUIPMENT DERAILED:	2 LOCOMOTIVE(S) 4 CAR(S)		PASSENGER TRAIN	1014	50 MPH	

PROBABLE CAUSE: EXCESSIVE BUFF (COMPRESSIVE) FORCES CAUSED BY AN UNDESIRED EMERGENCY BRAKE APPLICATION RESULTING FROM AN AIR HOSE SEPARATION BETWEEN THE 46TH AND 47TH CARS. ONE OF THE DERAILED CARS WAS SUBSEQUENTLY STRUCK BY A PASSING AMTRAK PASSENGER TRAIN NO. 1014.

ATSF	08/08/93	01:40 PM	SELIGMAN	AZ	DERAILMENT	0	4	\$ 2,440,000
		TYPE OF TRACK:	MAIN					
		CLASS OF TRACK:	4					
52		METHOD OF OPERATION:	TRAFFIC CONTROL		MOVEMENTS INVOLVED: FREIGHT TRAIN	SLACH	35 MPH	
		EQUIPMENT DERAILED:	9 CAR(S)		FREIGHT TRAIN	1-188	18 MPH	

PROBABLE CAUSE: INSUFFICIENT LUBRICATION IN THE CENTER PLATE OF DTTX 72428, AN ARTICULATED FIVE-PACK CAR, CAUSED THE BC TRUCK TO BECOME RIGID, ALLOWING THE R-4 WHEEL TO DROP WITHIN THE GAGE ON A FOUR DEGREE CURVE.

CONTRIBUTING FACTORS: THE SEVERITY OF THE ACCIDENT WAS COMPOUNDED WHEN THE CREW OF ATSF 1-188 FAILED TO OPERATE AT RESTRICTED SPEED AFTER BEING NOTIFIED BY THE DISPATCHER OF THE DERAILMENT AND THE TRAIN SUBSEQUENTLY STRUCK THE SIDE OF THE DERAILED EQUIPMENT.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	08/11/93	02:35 AM	HUDSON	CO	OTHER	0	0	\$ 524,600
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
53			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: CUT OF CARS		01268	UNK MPH
					FREIGHT TRAIN		03TT1	0 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S)				
				2 CAR(S)				

PROBABLE CAUSE: THE CREWMEMBERS OF BN 26810 FAILED TO PROPERLY SECURE THE CARS IN THEIR TRAIN AFTER THEY HAD UNCOUPLED THEM FROM THE LOCOMOTIVES. SUBSEQUENTLY THE CARS ROLLED FREE ON A DESCENDING GRADE AND STRUCK STANDING TRAIN NO. 03TT1.

ATSF	08/13/93	01:10 PM	GALESBURG	IL	HIGHWAY-RAIL CROSSING	2	0	\$ 2,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	5				
54			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		1771	50 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE HIGHWAY-RAIL GRADE CROSSING ACTIVE WARNING DEVICES FAILED TO FUNCTION AS INTENDED.

ATSF	08/15/93	12:50 PM	AUGUSTA	KS	DERAILMENT	0	0	\$ 255,625
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
55			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		1197	42 MPH
			EQUIPMENT DERAILED:	4 CAR(S)				

PROBABLE CAUSE: INEFFECTIVE SNUBBING DEVICES AND IMPROPERLY MAINTAINED RESILIENT SIDE BEARINGS ON CARS HS 903189 AND KCS 8693 CAUSED THE TRACK GAGE TO SPREAD ALLOWING THE WHEELS TO DROP INSIDE THE RAILS.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATSF	08/16/93	08:10 AM	FRIONA	TX	HIGHWAY-RAIL CROSSING	3	0	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
56			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		1398	55 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

SP	08/17/93	08:50 PM	FLATONIA	TX	DERAILMENT	0	0	\$ 599,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	5				
57			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		PBCIQ	42 MPH
			EQUIPMENT DERAILED:	32 CAR(S)				

PROBABLE CAUSE: TRAIN HANDLING. IMPROPER USE OF THE LOCOMOTIVE THROTTLE BY THE ENGINEER WHILE OPERATING THE TRAIN ON AN ASCENDING GRADE.

BN	08/18/93	09:30 AM	LEHIGH	ND	SIDE COLLISION	0	2	\$ 13,946
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
58			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		4383D	0 MPH
				AUTOMATIC BLOCK	FREIGHT TRAIN		69CC	45 MPH
			EQUIPMENT DERAILED:	NONE				

PROBABLE CAUSE: THE CREWMENBERS OF BN LOCAL FREIGHT NO. 43830 FAILED TO STOP SHORT OF THE SIDING CLEARANCE POINT AND FOULED THE MAIN TRACK IN ADVANCE OF THE APPROACHING BN COAL TRAIN NO. 69CC574.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
IC	08/24/93	05:30 AM	CICERO	IL	HIGHWAY-RAIL CROSSING	0	1	\$ 0
			TYPE OF TRACK:	INDUSTRY				
			CLASS OF TRACK:	1				
59			METHOD OF OPERATION:	YARD LIMITS	MOVEMENTS INVOLVED: FREIGHT TRAIN		1223	10 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				
PROBABLE CAUSE: THE HIGHWAY-RAIL GRADE CROSSING WARNING DEVICES FAILED TO OPERATE AS INTENDED.								
CSX	08/27/93	04:35 PM	TUNNEL HILL	KY	DERAILMENT	0	0	\$ 266,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
60			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		R534	34 MPH
			EQUIPMENT DERAILED:	18 CAR(S)				
PROBABLE CAUSE: BUCKLED TRACK. THE CARRIER FAILED TO ADJUST THE CONTINUOUS WELDED RAIL TO THE DESIRED NEUTRAL RAIL TEMPERATURE.								
BN	08/28/93	11:00 AM	FORT SCOTT	KS	DERAILMENT	0	0	\$ 301,200
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
61			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01702	30 MPH
			EQUIPMENT DERAILED:	20 CAR(S)				
PROBABLE CAUSE: EXCESSIVE BUFF (COMPRESSIVE) FORCES RESULTING FROM IMPROPER TRAIN MAKE-UP CAUSED WHEEL LIFT ON EMPTY FLAT CAR NO. TTGX 913371, THE 49TH CAR IN THE TRAIN.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
CSX	09/11/93	05:40 AM	STARNES	VA	DERAILMENT	0	0	\$ 969,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
62			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		40210	40 MPH
			EQUIPMENT DERAILED:	46 CAR(S)				
PROBABLE CAUSE: UNDETERMINED.								
BN	09/14/93	03:20 PM	FIRTH	NE	OBSTRUCTION	0	0	\$ 124,550
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
63			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01120	33 MPH
					MOW EQUIPMENT		11109	0 MPH
					MOW EQUIPMENT		11780	0 MPH
			EQUIPMENT DERAILED:	NONE				
PROBABLE CAUSE: REMOVAL OF A TRACK AND TIME LIMIT BLOCK BY THE DISPATCHER WITHOUT IT FIRST BEING RELEASED BY THE WELDING FOREMAN.								
NS	09/15/93	07:25 AM	MCPHERSON	GA	DERAILMENT	0	0	\$ 209,300
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
64			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		Q02G1	1 MPH
					FREIGHT TRAIN		321G1	26 MPH
			EQUIPMENT DERAILED:	32 CAR(S)				
PROBABLE CAUSE: BROKEN R-4 WHEEL (SHATTERED RIM) ON HOPPER CAR SOU 101391 CAUSED BY A FATIGUE CRACK. SOME OF THE DERAILED EQUIPMENT SUBSEQUENTLY STRUCK PASSING NORTHBOUND TRAIN NO. Q02G1, AND DERAILED THREE OF ITS CARS.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
CSX	09/15/93	04:25 PM	DICKASON	IN	DERAILMENT	0	0	\$ 536,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
65			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		Q595	33 MPH
			EQUIPMENT DERAILED:	18 CAR(S)				
PROBABLE CAUSE: BURNED OFF L-2 JOURNAL CAUSED BY A FAILED ROLLER BEARING ON BOX CAR CNW 543013.								
ATK SSWN	09/17/93	08:35 PM	PONTIAC	IL	OTHER	0	10	\$ 0
			TYPE OF TRACK:	SIDING				
			CLASS OF TRACK:	2				
66			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN CUT OF CARS		21	5 MPH 0 MPH
			EQUIPMENT DERAILED:	NONE				
PROBABLE CAUSE: THE ENGINEER OF AMTRAK PASSENGER TRAIN NO. 21 FAILED TO OPERATE HIS TRAIN AT RESTRICTED SPEED PREPARED TO STOP WITHIN ONE-HALF THE RANGE OF VISION WHILE OPERATING ON A SIDING.								
UP	09/18/93	01:23 AM	BASS	TX	OTHER	1	3	\$ 577,333
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
67			METHOD OF OPERATION:	AUTOMATIC BLOCK TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN CUT OF CARS		CBTHS LHK42	26 MPH 10 MPH
			EQUIPMENT DERAILED:	4 LOCOMOTIVE(S) 8 CAR(S)				
PROBABLE CAUSE: THE CREWMEMBERS OF TRAIN LHK42 FAILED TO PROPERLY SECURE A CUT OF CARS ON A DESCENDING GRADE WHILE SWITCHING IN AN INDUSTRIAL PLANT. THE CARS ROLLED FREELY ONTO THE MAIN TRACK AND INTO THE PATH OF COAL TRAIN NO. CBTHS.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
UP	09/22/93	06:30 AM	HODGE	MO	DERAILMENT	0	0	\$ 827,620
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
68			METHOD OF OPERATION:	AUTOMATIC BLOCK TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		FARDT	35 MPH
			EQUIPMENT DERAILED:	22 CAR(S)				

PROBABLE CAUSE: WASHED OUT TRACK STRUCTURE CAUSED BY THE FAILURE OF A 42-INCH CULVERT TO CARRY THE FLOW OF WATER AFTER HEAVY RAINFALL.

BN	09/22/93	12:10 PM	SPRAGUE	WA	OTHER	0	4	\$ 95,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
69			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		0192	45 MPH
					MOW EQUIPMENT		5591	20 MPH
					MOW EQUIPMENT		11473	15 MPH
			EQUIPMENT DERAILED:	NONE				

PROBABLE CAUSE: THE MW EMPLOYEE FAILED TO CORRECTLY WRITE AND READ BACK TO THE DISPATCHER THE AUTHORIZED TRACK AND TIME LIMITS GRANTED AND THE DISPATCHER FAILED TO RECOGNIZE AND PROPERLY RESPOND TO THE INCORRECT READ-BACK RESULTING IN UNAUTHORIZED OCCUPANCY BY MW.

ATK CSX	09/22/93	02:52 AM	AKKA	AL	DERAILMENT	47	163	\$11,400,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
70			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		P002	72 MPH
			EQUIPMENT DERAILED:	3 LOCOMOTIVE(S) 8 CAR(S)				

PROBABLE CAUSE: A RIVER BARGE TOW STRUCK AND MISALIGNED THE THROUGH PLATE GIRDER SECTION OF A RAILROAD BRIDGE SHORTLY BEFORE A PASSENGER TRAIN ARRIVED.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
UP	09/22/93	10:15 PM	KEEFER CREEK	MO	DERAILMENT	0	0	\$ 197,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
71			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		CHCK	48 MPH
			EQUIPMENT DERAILED:	10 CAR(S)				

PROBABLE CAUSE: THE RAILROAD DRAINAGE CULVERT WAS OBSTRUCTED BY DEBRIS WHICH ALLOWED THE UNCONTROLLED WATER FROM HEAVY RAINS TO WASH OUT THE TRACK ROADBED.

BN	09/28/93	11:10 PM	STEVENSON	WA	DERAILMENT	0	0	\$ 125,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
72			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		68627	51 MPH
			EQUIPMENT DERAILED:	17 CAR(S)				

PROBABLE CAUSE: BURNED OFF L-2 JOURNAL CAUSED BY A FAILED ROLLER BEARING ON THE LEAD TRUCK OF BOX CAR ASAB 7458.

CR CRL	09/28/93	12:01 PM	CHICAGO	IL	HEAD-END COLLISION	0	1	\$ 120,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
73			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: LIGHT LOCO(S)		YDFF2	15 MPH
				TIMETABLE	FREIGHT TRAIN		4907	2 MPH
				YARD LIMITS				
			EQUIPMENT DERAILED:	NONE				

PROBABLE CAUSE: THE CREWMEMBERS OF CR YDFF2 FAILED TO OPERATE THEIR TRAIN AT RESTRICTED SPEED AND STOP WITHIN ONE-HALF THE RANGE OF VISION.

CONTRIBUTING FACTORS: THE YARDMASTER FAILED TO NOTIFY EITHER TRAIN CREW OF THEIR CONCURRENT OCCUPANCY ON THE MAIN TRACK AS REQUIRED BY CARRIER SPECIAL INSTRUCTIONS 5801-1.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	09/30/93	02:45 PM	BERTHOUD	CO	DERAILMENT	0	0	\$ 712,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
74			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		19401	51 MPH
			EQUIPMENT DERAILED:	32 CAR(S)				

PROBABLE CAUSE: EXCESSIVE BUFF (COMPRESSIVE FORCES) GENERATED WHEN THE ENGINEER FAILED TO PROPERLY CONTROL THE SLACK IN HIS TRAIN ON AN UNDULATING TRACK PROFILE.

UP	10/01/93	06:03 AM	KEYSTONE	NE	HEAD-END COLLISION	0	2	\$ 2,509,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
75			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		9391	0 MPH
					FREIGHT TRAIN		9504	24 MPH
			EQUIPMENT DERAILED:	2 LOCOMOTIVE(S) 29 CAR(S)				

PROBABLE CAUSE: THE AIR BRAKES ON UP TRAIN NO. 9504 FAILED TO RESPOND TO AN EMERGENCY APPLICATION FOR UNKNOWN REASONS.

DRGW ATSF	10/13/93	12:20 PM	DENVER	CO	HEAD-END COLLISION	0	2	\$ 90,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	2				
76			METHOD OF OPERATION:	YARD LIMITS	MOVEMENTS INVOLVED: FREIGHT TRAIN		AMW1	17 MPH
					LIGHT LOCO(S)		YNYSO	0 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S)				

PROBABLE CAUSE: THE CREWMEMBERS OF ATSF AMW1 FAILED TO OPERATE THEIR TRAIN AT RESTRICTED SPEED WITHIN YARD LIMITS AND STOP WITHIN ONE-HALF THE RANGE OF VISION.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
UP	10/17/93	12:05 AM	DUPONT	CO	HIGHWAY-RAIL CROSSING	3	0	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
77			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		DECY	40 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: THE MOTOR VEHICLE OPERATOR'S BLOOD ALCOHOL LEVEL WAS MEASURED AT 0.224 PERCENT.

ATSF	10/17/93	09:47 AM	MACHOVEC	TX	HEAD-END COLLISION	0	2	\$ 1,538,000
			TYPE OF TRACK:	INDUSTRY				
			CLASS OF TRACK:	1				
78			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		CMLDV	0 MPH
					FREIGHT TRAIN		CDVML	40 MPH
			EQUIPMENT DERAILED:	5 LOCOMOTIVE(S)				
				15 CAR(S)				

PROBABLE CAUSE: THE CREWMEMBERS OF CMLDV FAILED TO REALIGN THE MAIN TRACK SWITCH BEFORE RELEASING THEIR TRACK WARRANT.

BN	10/28/93	04:00 PM	KALAMA	WA	OTHER	0	0	\$ 83,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
79			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		53866	15 MPH
					MOW EQUIPMENT		BNX54	1 MPH
			EQUIPMENT DERAILED:	3 CAR(S)				

PROBABLE CAUSE: THE ENGINEER OF BN LOCAL FREIGHT NO. 53866 FAILED TO COMPLY WITH PROPER RADIO PROCEDURES BEFORE INITIATING A SHOVING MOVE.

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
PAL	11/03/93	07:05 AM	LOUISVILLE	KY	DERAILMENT	0	0	\$ 101,250
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
80			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: FREIGHT TRAIN		PL402	35 MPH
				TIMETABLE				
			EQUIPMENT DERAILED:	7 CAR(S)				
			HAZARDOUS MATERIALS RELEASED: YES	NUMBER EVACUATED: 2800				
PROBABLE CAUSE: BURNED OFF R-2 JOURNAL CAUSED BY A FAILED ROLLER BEARING ON THE LEAD AXLE OF TANK CAR GATX 52386.								
CONTRIBUTING FACTORS: THE TRAIN CREW FAILED TO PROPERLY INSPECT THEIR TRAIN AFTER BEING NOTIFIED BY THE TRAIN COORDINATOR THAT SPARKS WERE REPORTED COMING FROM A WHEEL.								
BN UP	11/11/93	12:20 AM	LONGVIEW	WA	HEAD-END COLLISION	5	0	\$ 3,948,700
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
81			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		11110	37 MPH
					FREIGHT TRAIN		NPSEZ	35 MPH
			EQUIPMENT DERAILED:	8 LOCOMOTIVE(S) 25 CAR(S)				
PROBABLE CAUSE: THE CREW OF BN TRAIN NO. 11110 FAILED TO OPERATE THEIR TRAIN IN ACCORDANCE WITH SIGNAL INDICATIONS.								
SP	11/22/93	12:20 PM	MINNOW	OR	DERAILMENT	0	0	\$ 921,500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
82			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		1PTOA	47 MPH
			EQUIPMENT DERAILED:	32 CAR(S)				
			HAZARDOUS MATERIALS RELEASED: YES	NUMBER EVACUATED: 100				
PROBABLE CAUSE: BROKEN RAIL (VERTICAL SPLIT HEAD).								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
ATK UP	11/23/93	12:15 AM	BOISE	ID	DERAILMENT	0	16	\$ 843,200
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
83			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		26	52 MPH
			EQUIPMENT DERAILED:	2 LOCOMOTIVE(S) 6 CAR(S)				
PROBABLE CAUSE: BROKEN RAIL.								
UP	11/25/93	09:30 PM	LATHROP	CA	HIGHWAY-RAIL CROSSING	3	0	\$ 500
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
84			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		0AAP4	60 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
BN	11/26/93	06:55 AM	BROADVIEW	MT	DERAILMENT	0	0	\$ 236,039
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
85			METHOD OF OPERATION:	TRACK WARRANT CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		01602	40 MPH
			EQUIPMENT DERAILED:	7 CAR(S)				
PROBABLE CAUSE: EXCESSIVE CROSS LEVEL DIFFERENCE ON A CURVE (3-3/8 INCHES WITHIN 62 FEET).								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	11/30/93	12:25 AM	RANDALL	MN	DERAILMENT	0	0	\$ 774,300
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
86			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		02010	60 MPH
			EQUIPMENT DERAILED:	9 CAR(S)				

PROBABLE CAUSE: BROKEN RAIL (TRANSVERSE FISSURE).

ATK CSX	11/30/93	12:44 PM	KISSIMMEE	FL	HIGHWAY-RAIL CROSSING	0	63	\$ 2,350,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
87			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		88	79 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S) 4 CAR(S)				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE TRUCK DRIVER FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: THE TRUCKING COMPANY FAILED TO REQUEST THE REQUIRED FLAGGING PROTECTION FROM THE RAILROAD.

CSX	12/06/93	05:40 AM	GIBSON	NC	DERAILMENT	0	0	\$ 540,245
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
88			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		Q4910	40 MPH
			EQUIPMENT DERAILED:	30 CAR(S)				
			HAZARDOUS MATERIALS RELEASED: YES	NUMBER EVACUATED: 300				

PROBABLE CAUSE: BROKEN RAIL (DETAIL FRACTURE).

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
SP	12/13/93	07:35 AM	BELEN	TX	HIGHWAY-RAIL CROSSING	3	0	\$ 17,150
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
89			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		MBSMF	48 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	PASSIVE				
PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
ATK CSX	12/21/93	09:32 AM	GARY	IN	HIGHWAY-RAIL CROSSING	1	35	\$ 172,200
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
90			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: PASSENGER TRAIN		PO41	51 MPH
			EQUIPMENT DERAILED:	1 LOCOMOTIVE(S) 1 CAR(S)				
			WARNING DEVICE:	ACTIVE				
PROBABLE CAUSE: THE DRIVER OF THE TRACTOR-TRAILER TRUCK FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.								
SOO CC	12/21/93	08:45 PM	DUBUQUE	IA	SIDE COLLISION	0	0	\$ 405,350
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	1				
91			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN FREIGHT TRAIN		WCS24 430	50 MPH 4 MPH
			EQUIPMENT DERAILED:	20 CAR(S)				
PROBABLE CAUSE: THE CREWMEMBERS OF CC TRAIN WCS24 FAILED TO PROPERLY SECURE CARS LEFT UNATTENDED ON A DESCENDING GRADE WHICH ALLOWED THE CARS TO ROLL FREE AND SUBSEQUENTLY STRIKE THE THIRD CAR OF TRAIN SOO 430.								

RR CODE	DATE	TIME	CITY/STATION	STATE	ACCIDENT TYPE	KILLED	INJURED	RR DAMAGE
BN	12/25/93	04:50 AM	SEWARD	NE	REAR-END COLLISION	0	4	\$ 1,942,000
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	4				
92			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		47AA	0 MPH
				TRACK WARRANT CONTROL	FREIGHT TRAIN		111MR	39 MPH
			EQUIPMENT DERAILED:	2 LOCOMOTIVE(S)				
				30 CAR(S)				

PROBABLE CAUSE: THE AIR BRAKES ON TRAIN NO. 111MR FAILED TO RESPOND TO AN EMERGENCY APPLICATION.

CONTRIBUTING FACTORS: AN OBSTRUCTED BRAKE PIPE ON CAR CWEX 1637 MAY HAVE ALLOWED LESS THAN THE REQUIRED AIR PRESSURE TO FLOW THROUGH THE TRAIN'S AIR BRAKE SYSTEM.

ATSF	12/26/93	08:50 PM	CORCORAN	CA	HIGHWAY-RAIL CROSSING	3	4	\$ 200
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	5				
93			METHOD OF OPERATION:	TRAFFIC CONTROL	MOVEMENTS INVOLVED: FREIGHT TRAIN		9189	65 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING FREIGHT TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

ATK CR	12/29/93	01:35 PM	NORTH TONAWANDA	NY	HIGHWAY-RAIL CROSSING	2	1	\$ 0
			TYPE OF TRACK:	MAIN				
			CLASS OF TRACK:	3				
94			METHOD OF OPERATION:	AUTOMATIC BLOCK	MOVEMENTS INVOLVED: PASSENGER TRAIN		64	60 MPH
				TIMETABLE	FREIGHT TRAIN		YAKE	0 MPH
			EQUIPMENT DERAILED:	NONE				
			WARNING DEVICE:	ACTIVE				

PROBABLE CAUSE: THE MOTOR VEHICLE OPERATOR FAILED TO YIELD THE RIGHT-OF-WAY TO AN ONCOMING PASSENGER TRAIN AT A HIGHWAY-RAIL GRADE CROSSING.

CONTRIBUTING FACTORS: AFTER HAVING DIRECTED VEHICULAR TRAFFIC AROUND THE LOWERED GATE, THE CONDUCTOR OF CONRAIL FREIGHT TRAIN YAKE-17 FAILED TO HALT VEHICULAR TRAFFIC AT THE CROSSING, PRIOR TO THE ARRIVAL OF ATK TRAIN NO. 64.

