U. S. DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION OFFICE OF SAFETY



SUMMARY

OF

ACCIDENTS INVESTIGATED

BY THE

FEDERAL RAILROAD ADMINISTRATION

OCTOBER 1, 1976 THROUGH DECEMBER 31, 1976



FOREWORD

During the first three months of Fiscal Year 1977, (October 1, 1976 - December 31,1976) the Federal Railroad Administration investigated and determined the apparent causes of 34 railroad accidents.

The summary of Accident Investigations is intended to provide only the essential information necessary for the reader to ascertain the following: (a) the type of railroad operation involved in each of the 34 accidents investigated by the FRA, (b) the kind of accident investigated, (c) the cost of the accident in terms of casualties and railroad property damage, and (d) the apparent cause.

The estimated monetary costs of damages shown relate to railroad property only. They do not reflect, for example, costs related to clearing a wreck, damage to lading, claims settlement, or damage to privately-owned structures near railroad property.

Abbreviations used in this report and their meanings are as follows:

ABS -- Automatic Block Signal System

ATC -- Automatic Train Control

MBS -- Manual Block Signal System

MU -- Multiple-Unit Electric Car

RDC -- Rail-Diesel Car

TCS -- Traffic Control System

TO -- Train Orders

TT -- Time Table

TT&TO -- Time Table and Train Orders

CTC -- Centralized Traffic Control

The capital letter abbreviations found in the RAILROAD column on the left side of each page are the DOT Alphabetic Railroad Codes, as found in the FRA Guide for Preparing Accident/Incident Reports, 1977, pages A-1 through A-45.

Requests for further information or details concerning any of the accidents summarized in this document should be directed to:

Office of Safety, RRS-25 Federal Railroad Administration 2100 Second Street, S. W. Washington, D. C. 20590

<u>SYNOPSIS</u>

1.	<u>Acci</u>	dents Investigated	
	(a)	Total of All Types	34
2.	Туре	s of Accidents	
	(á) (b) (c)	Collisions Derailments* Rail-Highway Crossings	12 19 3
		*Includes collisions resulting from derailments	
3.	Casu	alties and Estimated Cost of Damages	
	(a) (b) (c)	Killed Injured RR Property Damage \$7,062,9	7 274 950
4.	Dera	ilment Causes	,
	(e)	Broken Rail Other Track Conditions Broken Wheel Loose Wheel Other Car Conditions Switch Tampering Miscellaneous	4 6 1 2 1 1 4
5.	<u>Coll</u>	ision Causes	
	(a) (b) (c) (d)	Negligence of Members of Train Crews Maintenance of Way Equipment Occupying Main Track Without Adequate Protection Car Condition Miscellaneous	7 1 2 2
6.	Acci	dents Ratio by Cause or Type	
	(a) (b) (c) (d) (e)	29.4% were derailments resulting from track conditions. 17.7% were derailments and collisions resulting from car 20.6% were derailments and collisions resulting from hur 8.8% were rail-highway grade crossing accidents. 23.5% were collisions, derailments, fires and non-derailmiscellaneous causes.	man factors.
7.	Human	n Factor Accidents	
	(b) S	Rear-end Collision Side Collisions Head-end Collisions Other Collisions	1 2 2 4

RR C	CODE	DATE	TIME	LOCATION		CASUA	LTIES	ESTIMATED DAMAGE
		52		ECCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
CR Amtra	k	10/06/76	7:29 am	Boston, Massachusetts South Station	Collision (bumper block)	Ø	8	\$60.00
. 1	Movem	d of Operat ents Involvment Derail	ed : Passe	enger Station, Interloc enger Train No. 732, Ea	king, TT&TO. stbound, 2 RDC Cars	•		
	CAUSE	A combin	tation area	et rail, sanders not fu a, which allowed the tr	unctioning, and poss ain to collide with	ibly a spe the bumpe	ed in exce r at the er	ss of the 6 mph limit d of the track.
·			# 15 m			<u> </u>	·	
LN		10/05/76	9:00 am	Crawford, Kentucky	Rear-End Collision	n Ø	2	\$26,001.00
2	Movem	ents Involv	ed : Freig	le Track, TCS ght Trains, X1312 South co Unit, 3 Cars.	, X1507 South			
	CAUSE			r to operate the follow signal indication.	ing train in accord	ance with	a	
					<u> </u>			
CR		10/06/76	5:20 pm	Reading, Pennsylvania	Derailment and Bridge Collapse	Ø	Ø	\$40,000.00
:/ 3 ::	Movem	ents Involv		Operation ch Engine and Freight C k Cars, 1 Flat Car.	ars.	4		
	CAUSE			fter being struck by a uring a switching movem		o frames w	nich exceed	ed the maximum

ממ	CODE	DATE	TIME	LOCATION		CASUA	LTIES	ESTIMATED DAMAGE
KK	CODE .	22		LOCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
CO		10/18/76	5:00 am	Clifford, Michigan	Collision	Ø	Ø	\$1,496,690.00
4	Movem	ents Involv	ed : Freig	le-Track Main Line, MBS ght Train PH 42 East, 3 cos, 10 Cars.		S.		
	CAUSE	: Vandalis		s damaged a switch whic tanding on the siding.	ch caused the train	to run int	o a siding	and strike
BN		10/18/76	1:20 pm	Chicago, Illinois	Derailment	Ø	50	\$329,301.00
5	Movem	d of Operat ents Involv ment Derail	ed: Passe	ack Main Line, TCS. enger Train, Amtrak No. rs.	. 6, 2 Loco Units, 1	1 Cars.		
	CAUSE			on the lead truck of the and derail the trailing			ch permitte	ed the pedestal
NW		10/19/76	8:15 pm	New Haven, Indiana	Head-End Collisio	n 1	3	\$168,067.00
6	Moveme	nts Involve	ed: Local	e-Track Main Line, ABS Freight Train, East, N D Units, 2 Cars.	, TCS. No. 1376, 1 Loco, 12	! Cars; Swi	tching Loco	omotive, 55 Cars.

CAUSE: Failure to have sufficient air brakes in use throughout the train (No. 1376) to effectively control the speed, and stopping ability, of train. This was a direct result of an improper train brake test after a pick-up of three loaded hopper cars just prior to the accident.

S.

DATE	TIME	I OCATION		CASUA	LTIES	ESTIMATED DAMAGE
	1 HAIL	ECCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
10/21/76	7:40 am	Madison, Wisconsin	Head-On Collision	Ø	2 ,	\$26,200.00
nts Involve	ed : Freig	ht Train No. 263, and	Yard Engine 751.			
						, which requires
10/22/76	3:00 am	Red Desert, Wyoming	Derailment	Ø	Ø	(UNK)
ents Involve	ed : Freig	ht Train, ASPX-21 East		116 Cars.		
10/28/76	12:26 am	Thompsonville, Connecticut	Derailment	Ø	Ø	\$30,000.00
	i of Operatents Involvement Derail Failure trains to 10/22/76 d of Operatents Involvement Derail A piece stand fo	10/21/76 7:40 am I of Operation: Singlents Involved: Freignent Derailed: Front Failure of Train No trains to be prepare 10/22/76 3:00 am I of Operation: Doublents Involved: Freignent Derailed: 41 Care: A piece of timber stand for a facing	10/21/76 7:40 am Madison, Wisconsin I of Operation: Single-Track Main Line, TT8 ents Involved: Freight Train No. 263, and ment Derailed: Front Truck of lead Loco Un Failure of Train No. 263 to operate within trains to be prepared to stop short of ot 10/22/76 3:00 am Red Desert, Wyoming of Operation: Double-Track Main Line, ABS ents Involved: Freight Train, ASPX-21 East ment Derailed: 41 Cars. A piece of timber which fell from a car stand for a facing point switch, causing	10/21/76 7:40 am Madison, Wisconsin Head-On Collision of Operation: Single-Track Main Line, TT&TO. Ents Involved: Freight Train No. 263, and Yard Engine 751. Thent Derailed: Front Truck of lead Loco Unit on No. 263. Failure of Train No. 263 to operate within yard limits in acceptains to be prepared to stop short of other trains, engines of Operation: Double-Track Main Line, ABS, TT&TO. Thents Involved: Freight Train, ASPX-21 East, 4 Loco Units, and ment Derailed: 41 Cars. A piece of timber which fell from a car in the train, which stand for a facing point switch, causing the switch points to 10/28/76 12:26 am Thompsonville, Derailment	DATE TIME LOCATION ACCIDENT TYPE KILLED 10/21/76 7:40 am Madison, Wisconsin Head-On Collision Ø 1 of Operation: Single-Track Main Line, TT&TO. 2 ents Involved: Freight Train No. 263, and Yard Engine 751. 3 nent Derailed: Front Truck of lead Loco Unit on No. 263. Failure of Train No. 263 to operate within yard limits in accordance we trains to be prepared to stop short of other trains, engines, or obstruction of Operation: Double-Track Main Line, ABS, TT&TO. 3 ents Involved: Freight Train, ASPX-21 East, 4 Loco Units, and 116 Cars. 3 ents Involved: Freight Train, ASPX-21 East, 4 Loco Units, and 116 Cars. 4 piece of timber which fell from a car in the train, which struck a stand for a facing point switch, causing the switch points to open, de	DATE TIME LOCATION ACCIDENT TYPE KILLED INJURED 10/21/76 7:40 am Madison, Wisconsin Head-On Collision Ø 2 1 of Operation: Single-Track Main Line, TT&TO. 2 ents Involved: Freight Train No. 263, and Yard Engine 751. 3 ent Derailed: Front Truck of lead Loco Unit on No. 263. 3 Failure of Train No. 263 to operate within yard limits in accordance with Rule 93 trains to be prepared to stop short of other trains, engines, or obstructions. 10/22/76 3:00 am Red Desert, Wyoming Derailment Ø Ø 1 of Operation: Double-Track Main Line, ABS, TT&TO. 2 ents Involved: Freight Train, ASPX-21 East, 4 Loco Units, and 116 Cars. 3 ents Involved: 41 Cars. 4 piece of timber which fell from a car in the train, which struck a hand-opera stand for a facing point switch, causing the switch points to open, derailing the

CAUSE: A defective rail frog.

77 O	0D.E	DATE	TIME	LOCATION		CASUA	LTIES	ESTIMATED DAMAGE
RR C	ODE	DATE	TIVIL	LOCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
SCL		11/07/76	10:40 am	Wilson, North Carolina	a Side Collision	Ø	2	\$119,300.00
10	Mover Equip	ments Involoment Derai E: Failure	ved : Frei led : 3 Lo of enginee	ole Track Main Line, To ght Trains, X1527 Nort oco Units, and 4 Cars. or on the northbound to so stop the train at a	th, and X735 South. rain (X1527) to reduc	ce train s s required	peed at an by signal	approach signal, indications.
FEC		11/08/76	6:30 am	Miami, Florida	Grade Crossing	Ø	22	\$45.00
11	Mover	ments Invol	tion: Sing ved: Trai led: (NIL		imit Rules)			
	CAUSI	E: Failure	of bus dri	ver to stop at grade o	crossing.			
MILW		11/14/76	12:40 pm	Malden, Washington	Collision	Ø	2	\$136,099.00
12	Move		ved : West	le Track Main Line, T bound Freight Train,)		Train.	·	

CAUSE: Failure of work train crew to provide protection for movement of the locomotive and caboose on the main track in accordance with train orders.

RR CC)DF	DATE	TIME	LOCATION	ACCIDENT TYPE	CASUA	LTIES	ESTIMATED DAMAGE
		· ·			ACCIDENT TIPE	KILLED	INJURED	RAILROAD EQUIPMENT
SP		11/15/76	1:30 am	Bisbee, Texas	Derailment	Ø	Ø	\$63,800.00
13	Moven	ents Invol	ved : Fre	n Track, TT&TO. ight Train oco Units, 6 Cars	· .			
•	CAUSE	: Harmoni	c roll of o	car and a low rail join	t.			·
CNW		11/22/76	11:53 am	Belle Plains, Iowa	Derailment- Side Collision	Ø	Ø	\$489,000.00
14	Mover	od of Opera ments Invol oment Derai	ved : Fre	ble track, cab-signal s ight Trains; X6839 East Cars.				
	CAUSI	on axle	. The car	n train X6815 West caus derailed and struck a ruck the side of X6839	facing point switch			
ICG AMTRAK		11/25/76	3:50 am	Dyersburg, Tennessee	Derailment	Ø	34	\$235,000.00
15	Mover		ved: Pass	ble Track Main Line, Al senger Train No. 59 Sou oco Units, 11 Cars.				
	CAUSI			ing over track that wa automobile approximate				esult of having

RR CO	DE	DATE	TIME	LOCATION	100,17,17, 77,	CASUA	LTIES	ESTIMATED DAMAGE
RR CO	DE	DATE		LOCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
BN	•	11/26/76	2:55 am	Belt, Montana	Derailment (Tank Car Explosio	2 ons)	12	\$630,058.00
	Movem	ments Invol		gle Track Main Line, TT ight Train X5743 East, Cars.		ars.		
	CAUSE	of the		under the forward part gh the 51st cars. The es.				ltiple
CO AMTRAK		11/30/76	1:15 am	Thurmond, West Virginia	Derailment	Ø	3	\$25,300.00
	Mover		ved : Pas	gle-Track Main Line, TO senger Train No. 51 (AM ars.				
	CAUSE			d high lateral forces o igh rail on a 4 ⁰ curve		re, widene	d the gage	and .
CR AMTRAK		12/01/76	5:30 pm	Charlestown, Maryland	Side Collision	Ø	Ø ·	\$22,000.00
	Mover	od of Opera ments Invol oment Derai	ved : Fre	ole-track electrified m ight Train MW-1 South, reight Car; 2 Passenger	Passenger Train No.			

CAUSE: A broken wheel on an empty freight car caused it to derail and foul the adjacent track. Passenger train (on adjacent track) struck the derailed car.

RR COD)E	DATE	TIME	LOCATION	ACCIDENT TARE	CASUA	LTIES	ESTIMATED DAMAGE
rk WL) <u>)</u>	3.1.2		BOOMTON	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
MOPAC AMTRAK		12/02/76	1:42 pm	Irondale, Missouri	Grade Crossing	Ø	11	\$75,000.00
19	Mo		nvolved :	Single Track Mair Passenger Train, 6 Cars.		orth.		
	CAI			loaded with 32,000 mtrak Train at a gr		ruck the	side of	the first
CO-	•	12/02/76	3:30 pm	Pullman, Michigan	Derailment	Ø	Ø	\$136,250.00
20	Mo	vements I	nvolved :	Single-Track Mair Freight Train, No 26 Cars.				
	CA	USE: Bro	ken rail	on tangent track.				
CONRAI		12/03/76	9:05 am	New York, New York	Derailment	Ø	Ø	\$2,775.00
21	Mo	thod of O vements I uipment D	nvolved :	Passenger Train I	No. 938 South (2			

CAUSE: Widening of track gauge under train due to rotted and deteriorated ties.

DD CODE	DATE	TIME	LOCATION		CASUA	LTIES	ESTIMATED DAMAGE
RR CODE	DATE	TIVIL	LOCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
SOU	12/06/76	6:50 am 1	Winston, Virginia	Derailment	Ø	23	\$62,900.00
М		nvolved:	Double-Track Main Passenger Train 1 7 Cars.		-Directi	onal Runn	ing)
C			e North rail at an e at the time was below				
SLSF	12/07/76	9:15 am	Jonesboro, Arkansas	Collision	Ø	3	\$49,000.00
M		nvolved:	Single-Track Mair Freight Train BTX 1 Locomotive Unit	X North, and a cu	it of 2 F	reight Ca	rs.
C	sid [*]		n employee to prope slight downgrade, and				
MKT	12/09/76	6:00 pm	Dallas, Texas	Collision (Runaway Freigh	Ø nt Car)	2	\$9,089.00
М	ethod of Opovements In	nvolved :	Switching Movemen MKT 650941.	nts, Loco. MKT 10			2, and Flat Car
			the brakes of a car lo		ecending ar	rade.	

חם כ	ODE	DATE	TIME	LOCATION		CASUA	LTIES	ESTIMATED DAMAGE
RR C	ODE	DATE	THVIL	ECCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
CR		12/10/76	8:58 am	Philadelphia, Pennsylvania	Collision with Bumper Post	Ø	45	None
25	Movem	d of Opera ents Invol ment Derai	ved : Pass	enger Terminal, ABS. enger Train	٠, .		,	.·
	CAUSE			train failed to proper d of station track.	ly control speed of	train and	, as a resu	lt, train struck
ICG		12/11/76	2:55 pm	Morganfield, Kentucky	Derailment	Ø	1	\$13,300.00
26	Movem		ved : Frei	Line, Single Track, T ght Train No. 241 Sout ers and Caboose.				
	CAUSE	E: Broken	Rail.					
SCL		12/13/76	3:23 pm	Aberdeen, North Carolina	Derailment	Ø	1	\$501,500.00
27	Movem	od of Opera ments Invol oment Derai	ved : Frei	Line, TCS. ght Train, No. 290 Sou ars.	th.			
	CAUSE	: A loose	wheel on h	opper car LN 139300.	•			

DD COI	0.5	DATE	TIME	LOCATION	ACCUPATION TO THE	CASUA	LTIES	ESTIMATED DAMAGE
RR COI	DE .	Ditte	1 TWL	LOCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
CR	12,	/13/76	3:30 pm	Columbus, Ohio	Side Collision	Ø	4	\$250,000.00
M	Novement	ts Involv	ed : Cab 2	rlocking, within yard l 2X, Caboose, and Freigh co Units, 3 MTY Hopper	nt Train JKO1.			· · · · · · · · · · · · · · · · · · ·
C	CAUSE:		of southbou indication	und train (Cab 2X) to s n.	stop at an interlock	ing home s	ignal, whic	cĥ displayed
ATSF AMTRAK	12/	15/76	8:58 am 1	Marland, Oklahoma	Grade Crossing	3	Ø	\$504,000.00
M	Novement	of Operat ts Involv nt Derail	ed: Passe	line, single track, TO enger Train, Amtrak No.		its, 9 Car	s.	
C	CAUSE:	crossing	, and to re	oil tank-truck driver emain standing until th g in the vicinity at ti	ne train had passed,	as is req		
BN AMTRAK	12,	/16/76	2:45 am	Ralston, Nebraska	Derailment	1	8	\$761,800.00
M	Movement	of Operat ts Involv nt Derail	ed : Passe	line, single track, To enger Train No. 6 East co Unit, 11 Cars.				

CAUSE: Excessive lateral forces on track by locomotive while in curve.

RR CO	DE	DATE	TIME	LOCATION	100100000	CASUA	LTIES	ESTIMATED DAMAGE
KK W	DE	27112		ECCATION	ACCIDENT TYPE	KILLED	INJURED	RAILROAD EQUIPMENT
SOU		12/17/76	9:45 pm	Burke, Virginia	Derailment	Ø	Ø	\$300,000.00
	Movem	ents Invol	ved : Frei	le-Track Main Line, CT ght Train No. 156, Nor ars (14 thru 42).				
	CAUSE	: Broken	car wheel o	n SOU 41308.				
CR AMTRAK		12/26/76	7:41 pm	Downingtown, Pa.	Derailment	Ø	36	\$88,900.00
32	Movem	d of Opera ents Invol ment Derai	ved: Pass	Line, Electrified, AB enger Train No. 441 (B ers.				
	CAUSE			n vicinity of the heel mitted the lead wheel				n of switch ties.
UP		12/13/76	3:05 pm	Sloan, Nevada	Derailment	Ø	Ø	\$300,000.00
33	Movem	ents Invol	ved : Frei	Line, Single Track, T ght Train, X6902, East T Track-Geometry Cars.	•		. •	
	CAUCE	· Tnack-t	rain dynami	cs resulting from havi	ing light weight care	s at head #	end of trai	n

DD CC	NDE	DATE	TIME	LOCATION	ACCUPATE TUDE	CASUALTIES		ESTIMATED DAMAGE RAILROAD EQUIPMENT	
RR CODE				LOCATION	ACCIDENT TYPE	KILLED	INJURED		
PLE		12/30/76	10:40 pm	McKeesport, Pennsylvania	Collision Run-Away Train	Ø	Ø	\$171,515.00	
34	4 Method of Operation: Main Line, TCS. Movements Involved: 4 coupled RDC cars, un-manned. Equipment Derailed: 1st and 2nd RDC units.								
	CAUSE: Vandalism. The cars had been serviced at Glenwood, Pa., and were placed on a siding with motors idling, and hand brakes set. Vandals apparently boarded the cars, released the brakes, started them moving eastward, and then left the cars. The cars moved eastward 9.1 miles and then collided with 3 loaded coal hopper cars that were standing on a siding.								

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION Washington, D.C. 20590

Official Business

PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID FEDERAL RAILROAD ADMINISTRATION

~ DOT 516



