RAIL EQUIPMENT

ACCIDENT/INCIDENT

FORM   F 6180.54

ACCIDENT DOWNLOADS ON DEMAND

DATA FILE STRUCTURE
AND
FIELD INPUT SPECIFICATIONS

Effective Date: May 2003 – May 2011

Rail Equipment Accident/Incident
Accident Downloads on Demand
Data File Structure and Field Input Specifications

Accident Data
On Demand

FIELD NAME	FILE POSITION	FIELD TYPE	FIELD LENGTH	DEFINITION	BLOCK # ON FORM 6180.54	CONVERSION
amtrak	1	A/N	1	amtrak involvement		
iyr	2 - 3	A/N	2	year of incident	5	
imo	4 - 5	A/N	2	month of incident	5	
railroad	6 - 9	A	4	railroad code (Reporting RR)	1a	
incdtno	10 - 19	A/N	10	railroad assigned number	1b	
iyr2	20 - 21	A/N	2	year of incident	5	
imo2	22 - 23	A/N	2	month of incident	5	
rr2	24 - 27	A	4	railroad code (Other RR involved)	2a	
incdtno2	28 - 37	A/N	10	other railroad assigned number	2b	
iyr3	38 - 39	A/N	2	year of incident	5	
imo3	40 - 41	A/N	2	month of incident	5	
rr3	42 - 45	A	4	railroad code (RR responsible for track maintenance)	3a	
incdtno3	46 - 55	A/N	10	RR assigned number	3b	
dummy1	56 - 59	A/N	4	blank data expansion field		
gxid	60 - 66	A/N	7	grade crossing id number	4	
year	67 - 68	A/N	2	year of accident / incident	5	
month	69 - 70	A/N	2	month of incident	5	
day	71 - 72	A/N	2	day of incident	5	
timehr	73 - 74	N	2	hour of incident	6	
timemin	75 - 76	N	2	minute of incident	6	
ampm	77 - 78	A/N	2	am or pm	6	

1

Indicates links, changes, or new data

FIELD NAME	FILE POSITION	FIELD TYPE	FIELD LENGTH	DEFINITION		BLOCK # ON FORM 6180.54	CONVERSION
type	79 - 80	A/N	2	type of accident: 01= derailment 02= head on collision 03= rearend collision 04= side collision 05= raking collision 06= broken train collision 07= hwy-rail crossing	08= RR Grade Crossing 09= obstruction 10= explosive – detonation 11= fire / violent rupture 12= other impacts 13= other (described in narrative)	7	
cars	81 - 83	N	3	# of cars carrying hazmat		8	
carsdmg	84 - 86	N	3	# of hazmat cars damaged or derailed		9	
carshzd	87 - 89	N	3	# of cars that released hazmat		10	
evacuate	90 - 95	N	6	# of persons evacuated		11	
division	96 - 115	A/N	20	railroad division		12	
station	116 - 135	A/N	20	nearest city and town		13	
milepost	136 - 141	A/N	6	milepost #		14	
state	142 - 143	A/N	2	FIPS State code		15	
temp	144 - 146	N	3	temperature in degrees fahrenheit		17	
visiblty	147	A/N	1	daylight period: 1=dawn 2=day	3=dusk 4=dark	18	
weather	148	A/N	1	weather conditions: 1=clear 2=cloudy 3=rain	4=fog 5=sleet 6=snow	19	
trnspd	149 - 151	A/N	3	speed of train in miles per hour: blank=unknown		28	
typspd	152	A/N	1	train speed type: E=estimated R=recorded blank=unknown		28	
trnnbr	153 - 156	A/N	4	train id number		27	
trndir	157	A/N	1	train direction: 1=north 2=south	3=east 4=west	24	
tons	158 - 162	N	5	gross tonnage, excluding power units		29	

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Accident Data On Demand

Rail Equipment Accident/Incident
Accident Downloads on Demand
Data File Structure and Field Input Specifications

FIELD NAME	FILE POSITION	FIELD TYPE	FIELD LENGTH	DEFINITION	BLOCK # ON FORM 6180.54	CONVERSION
typeq	163	A/N	1	type of consist: 1=freight train 2=passenger train 3=commuter train 4=work train 5=single car 6= cut of cars 7= yard / switching 8= light loco(s) 9= maint / inspect car A= spec. MoW eq.	25	Added 'A' to selection options
eqatt	164	A/N	1	equipment attended: 1=yes 2=no	26	
trkname	165 - 184	A/N	20	track identification	21	
trkclas	185	A/N	1	FRA track class: 1-9,X	22	Extended Track class to 9
trkdnsty	186 - 191	A/N	6	annual track density - gross tonnage in millions	23	
typtrk	192	A/N	1	type of track: 1=main 2=yard 3=siding 4=industry	20	
rrcar1	193 - 196	A/N	4	car initials (first involved)	31a(1)	
carnbr1	197 - 202	A/N	6	car number (first involved)	31a(1)	
positon1	203 - 205	A/N	3	car position in train (first involved)	31b(1)	
loaded1	206	A/N	1	car loaded or not (first involved): Y=yes N=no blank=not applicable	31c(1)	
rrcar2	207 - 210	A/N	4	car initials (causing)	31a(2)	
carnbr2	211 - 216	A/N	6	car number (causing)	31a(2)	
positon2	217 - 219	A/N	3	car position in train (causing)	31b(2)	
loaded2	220	A/N	1	car loaded or not (causing): Y=yes N=no blank=not applicable	31c(2)	
headend1	221	N	1	# of head end locomotives	34a(1)	
midman1	222	N	1	# of mid train locomotives, manual	34b(1)	
midrem1	223	N	1	# of mid train locomotives, remote	34c(1)	
rman1	224	N	1	# of rear end locomotives, manual	34d(1)	
rrem1	225	N	1	# of rear end locomotives, remote	34e(1)	
headend2	226	N	1	# of head end locomotives, derailed	34a(2)	
midman2	227	N	1	# of mid train locomotives, manual, derailed	34b(2)	

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midrem2	228	N	1	# of mid train locomotives, remote, derailed	34c(2)	
rman2	229	N	1	# of rear end locomotives, manual, derailed	34d(2)	
rrem2	230	N	1	# of rear end locomotives, remote, derailed	34e(2)	
loadf1	231 - 233	N	3	# of loaded freight cars	35a(1)	
loadp1	234 - 236	N	3	# of loaded passenger cars	35b(1)	
emptyf1	237 - 239	N	3	# of empty freight cars	35c(1)	
emptyp1	240 - 242	N	3	# of empty passenger cars	35d(1)	
caboose1	243 - 245	N	3	# of cabooses	35e(1)	
loadf2	246 - 248	N	3	# of derailed loaded freight cars	35a(2)	
loadp2	249 - 251	N	3	# of derailed loaded passenger cars	35b(2)	
emptyf2	252 - 254	N	3	# of derailed empty freight cars	35c(2)	
emptyp2	255 - 257	N	3	# of derailed empty passenger cars	35d(2)	
caboose2	258 - 260	N	3	# of derailed cabooses	35e(2)	
eqpdmg	261 - 267	N	7	reportable equipment damage in $	36	
trkdmg	268 - 274	N	7	track, signal, way & structure damage in $	37	
cause	275 - 278	A/N	4	primary cause of incident (refer to Appendix C)	38	
cause2	279 - 282	A/N	4	contributing cause of incident (refer to Appendix C)	39	
caskldrr	283 - 285	N	3	# killed for reporting RR - calculated from Form F6180.55a's submitted		
casinjrr	286 - 289	N	4	# injured for reporting RR - calculated from Form F6180.55a's submitted		
caskld	290 - 292	N	3	total killed for all RRs involved - calculated from Form F6180.55a's submitted		
casinj	293 - 296	N	4	total injured for all RRs involved - calculated from Form F6180.55a's submitted		
accause	297 - 300	A/N	4	accident cause code from jointcd 1 record for this incident (refer to Appendix C)		
acctrk	301	A/N	1	type track code from jointcd 1 record for this incident		

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acctrkcl	302	A/N	1	FRA track class from jointcd 1 record for this incident (FRA track class: 1-9,X)		
highspd	303 - 305	A/N	3	maximum speed reported for equipment involved: blank=unknown		
accdmg	306 - 313	N	8	total reportable damage on all reports in $		
dummy2	314 - 316	A/N	3	blank data expansion field		
stcnty	317 - 322	A/N	6	FIPS State & County code		
totinj	323 - 326	N	4	total injured for railroad as reported on Form F6180.54		
dummy3	327 - 332	A/N	6	blank data expansion field		
totkld	333 - 336	N	4	total killed for railroad as reported on Form F6180.54		
engrs	337	A/N	1	# of engineers on duty: blank=not applicable	40	
firemen	338	A/N	1	# of firemen on duty: blank=not applicable	41	
conductr	339	A/N	1	# of conductors on duty: blank=not applicable	42	
brakemen	340	A/N	1	# of brakemen on duty: blank=not applicable	43	
enghr	341 - 342	A/N	2	# of hours engineers on duty: blank=not applicable	44	
engmin	343 - 344	A/N	2	# of minutes engineers on duty (+enghr): blank=not applicable	44	
cdtrhr	345 - 346	A/N	2	# of hours conductors on duty: blank=not applicable	45	
cdtrmin	347 - 348	A/N	2	# of minutes conductors on duty (+cdtrhr): blank=not applicable	45	
jointcd	349	A/N	1	indicates railroad reporting		
region	350	A/N	1	FRA designated region		
dummy4	351	A/N	1	blank data expansion field		
typrr	352 - 353	A/N	2	type railroad - ICC categories; 1st position indicates class 1,2,or 3 RR		

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FIELD NAME	FILE POSITION	FIELD TYPE	FIELD LENGTH	DEFINITION	BLOCK # ON FORM 6180.54	CONVERSION
dummy5	354 - 356	A/N	3	blank data expansion field		
rrdiv	357 - 362	A/N	6	RR division code		
method	363 - 382	A/N	20	Method of operation (Series of 1 position codes): A= ATCS B=auto train control C= auto train stop D= cab signals E= traffic control F= interlocking G= automatic block rules H= current of traffic I= time table / train orders J= track warrant control K= direct traffic Control L= yard limits M= special instructions N= other than main track O= other (specify in a narrative) P= positive train control	30	Added 'P' to selection options
narrlen	383 - 386	N	4	length of narrative		
dummy6	387 - 390	A/N	4	blank data expansion field		
year4	391 - 394	A/N	4	Four character year identification		
rrempkld	395 - 397	N	3	# of RR employees killed as reported on Form F6180.54	46	
rrempinj	398 - 400	N	3	# of RR employees injured as reported on Form F6180.54	46	
passkld	401 - 403	N	3	# of passengers killed as reported on Form F6180.54	47	
passinj	404 - 406	N	3	# of passengers injured as reported on Form F6180.54	47	
otherkld	407 - 409	N	3	# of others killed as reported on Form F6180.54	48	
otherinj	410 - 412	N	3	# of others injured as reported on Form F6180.54	48	
county	413 - 432	A/N	20	County Name (See FIPS Codes for associated codes)	16	
cntycd	433 - 435	A/N	3	FIPS County Code		
alcohol	436 - 437	A/N	2	# of positive alcohol tests	32	
drug	438 - 439	A/N	2	# of positive drug tests	32	
dummy7	440 - 451	A/N	12	blank data expansion field		
passtrn	452	A/N	1	were there passengers being transported: Y=yes N=no blank=not applicable	33	
ssb1	453 - 472	A/N	20	special study block 1	49	

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ssb2	473 - 492	A/N	20	special study block 2	49	
narr1	493 - 592	A/N	100	narrative	52	
narr2	593 - 692	A/N	100	narrative	52	
narr3	693 - 792	A/N	100	narrative	52	
narr4	793 - 892	A/N	100	narrative	52	
narr5	893 - 992	A/N	100	narrative	52	
narr6	993 - 1092	A/N	100	narrative	52	
narr7	1093 - 1192	A/N	100	narrative	52	
narr8	1193 - 1292	A/N	100	narrative	52	
narr9	1293 - 1392	A/N	100	narrative	52	
narr10	1393 - 1492	A/N	100	narrative	52	
narr11	1493 - 1592	A/N	100	narrative	52	
narr12	1593 - 1692	A/N	100	narrative	52	
narr13	1693 - 1792	A/N	100	narrative	52	
narr14	1793 - 1892	A/N	100	narrative	52	
narr15	1893 - 1992	A/N	100	narrative	52	
rcl	1993 - 1993	A/N	1	Remote control locomotive = 0,1,2, or 3 0= not a remotely controlled operation 1= remote control portable transmitter 2= remote control tower operation 3= remote control portable transmitter (more than one remote control)	30a	new data
latitude	1994 - 2003	N	10	Latitude in decimal degrees, explicit decimal, explicit +/- (WGS84)	50	new data
longitud	2004 - 2014	N	11	Longitude in decimal degrees, explicit decimal, explicit +/- (WGS84)	51	new data

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