FORMAT FOR FRA INVENTORY FIELDS - DATA ENTRY FIELD DESCRIPTION
INVENTORY FIELD ORDER
(Fields not in Form 6180.71 are for FRA Internal Use)

Note: See Last Page for Instructions for Submitting Electronic Data to the FRA

Field No.	Form 6180.71 No.	Field Name	Description	Size/ Type	Start (End) (for ASCII)	Valid Values, Ranges, &Comments (Current/New Values are to be provided to the FRA. Previous Values are shown in this table for information only.) [Conversions - FRA Internal Use]
1	B.	CROSSING	Crossing No.	7 C	1 (7)	Valid Crossing I.D. No. Must be 6 numeric characters followed by 1 alphabetic character.
2	D.	EFFDATE	Effective Date	6 C	8 (13)	Entered in form as MM/DD/YYYY (stored in EFFDATE field as YYMMDD)
3		EDATE		6 C	14 (19)	End date for the most current record is always '999999'. When the crossing is updated with a new record, the end date of the previous current record is set to one day before the effective date of the new current record. EDATE is stored as YYMMDD.
4	C.	REASON	Reason for Update	1 C	20	1=Changes in Existing Crossing Data 2=New Crossing 3=Closed Crossing or Abandoned
5	I.2.	STATE	State	2 C	21 (22)	Valid State FIPS Code
6	I.3.	CNTYCD	County	4 C	23 (26)	Valid County FIPS Code
7		STATE2	State	2 C	27 (28)	Valid State FIPS Code
8	I.12.	CITYCD	City	4 C	29 (32)	Valid City FIPS Code
9	I.12.	NEAREST	In or Near City	1 C	33	0 = In City 1=Near City
10	I.1.	RAILROAD	Railroad Operating Company	4 C	34 (37)	Valid Railroad Code For valid railroad codes, refer to current list of railroad codes provided by FRA Office of Safety

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11	I.4.	RRDIV	RR Division	14 C	38 (51)	Railroad Division Name or Blank
12	I.5.	RRSUBDIV	RR Subdivision	14 C	52 (65)	Railroad Subdivision or Blank
13	I.14.	HIGHWAY	Highway type and No.	7 C	66 (72)	Any Alphanumeric Data or Blank
14	I.13.	STREET	Street or Road Name	17 C	73 (89)	Any Alphanumeric Data or Blank
15	I.8.	RRID	RR I.D. No.	10 C	90 (99)	Any Alphanumeric Data or Blank
16	I.9.	TTSTN	Nearest RR Timetable Station	6 C	100 (105)	Valid Timetable Station
17	I.6.	BRANCH	Branch or Line Name	15 C	106 (120)	Branch/Line Name or Blank
18	I.7.	MILEPOST	RR Milepost	6 C	121 (126)	The first two spaces can be alphanumeric, and the next four spaces numeric. There is an implied decimal point after the first 4 characters.
19	I.22.	MAPREF	County Map Ref. No.	10 C	127 (136)	Any Alphanumeric Data or Blank
20	I.17	TYPEXING	Type of Crossing	1 C	137	1=Pedestrian, 2=Private Vehicle, 3=Public Vehicle

(The following is the key for the crossing type and position:

11 - Pedestrian at grade
12 - Pedestrian RR under
13 - Pedestrian RR over
21 - Private at grade
22 - Private RR under
23 - Private RR over
31 - Public at grade
32 - Public RR under
33 - Public RR over) |
| 21 | I.18. | POSXING | Position of Crossing | 1 C | 138 | 1=At grade, 2=RR under, 3=RR over |

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22	I.27.A	PRVCAT	Private Xing Category	1 C	139	1=Farm, 2=Residential, 3=Recreational, 4=Industrial, 5=Commercial
23	I.27.C.	PRVIND	Signs/ Signals	1 C	140	Current Values: 1=signs, 2=signals, 3=no signs or signals, 4=both signs and signals [On Previous Version of Inventory Form 8=Signs, 9=Signals; 0=None]
24	I.27.C.	PRVSIGN (Reference Field 140, PRVSIGNL)	Specify	15 C	141 (155)	Any Alphanumeric Data
25	A.	INIT	Initiating Agency	1 C	156	1=Railroad 2=State [3=DOT 4=Original FRA Internal Use]
26		BATCH		6 C	157 (162)	Coded field which is used for batch identification during update: The first character is the last character of the year; The second-fourth characters are the day of the year, and the fifth-sixth characters are the sequence number.
27		USERCD		1 C	163	This field is not currently used
28		UPDATE		2 C	164 (165)	Coded date of update.

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29		LINK		5 C	166 (170)	New Value: Used for High Speed Corridor. (Previous Value: This was the link identification code (LIC) from the rail network model for the line on which the crossing lies. The LIC is a five digit code incorporating the alphabetical abbreviation of the owning railroad and a sequence number.)
30	II.1.C.	DAYTHRU	Day Thru Train Movements	2 N	171 (172)	0 to 99
31		DAYSWT (Reference Field 135, TOTALTRN, and Field 136 TOTALSWT)	Switching	2 N	173 (174)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
32		NGHTTHRU (Reference Field 135, TOTALTRN)	Night Thru Train Movements	2 N	175 (176)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
33		NGHTSWT (Reference Field 135, TOTALTRN, and Field 136 TOTALSWT)	Night Switching Movements	2 N	177 (178)	(Previous Values: 0 to 99) Not in New Form-field No Longer Maintained in Inventory-obsolete
34	II.1.D.	LT1MOV	Less Than One Movement Per Day?	1 C	179	0 = At least one train per day 1=Less than one train per day Enter a check if train frequency is less than one train per day.
35	II.2.A.	MAXTTSPD	Maximum Timetable Speed	3 N	180 (182)	1 to 150

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36	II.2.B	MINSPD	From Min:	3 N	183 (185)	1 to 150
37	II.2.B.	MAXSPD	To Max:	3 N	186 (188)	1 to 150
38	II.3.	MAINTRK	Main	1 N	189	0 to 9
39	II.3.	OTHRTRK	Other	2 N	190 (191)	0 to 99 number of other tracks
40	II.3.	OTHRDES	Specify	10 C	192 (201)	Description, if other tracks exist
41	II.4.	SEPIND	Does Another RR Operate a Separate Trk. (Y/N)?	1 C	202	1=Yes 2=No
42	II.4.	SEPRR	Specify	16 C	203 (218)	Up to 4 valid RR codes Code should not be repeated
43	II.5.	SAMEIND	Does Another RR Operate Over Your Trk. (Y/N)?	1 C	219	1=Yes 2=No
44	II.5	SAMERR	Specify	16 C	220 (235)	Up to 4 valid RR codes Code should not be repeated

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45		WDCODE	Warning Device Code	1 C	236	Highway warning device class at crossing.

New Values:

9 - Four Quad (full barrier) Gates
8 - All other Gates
7 - Flashing lights
6 - Highway signals, wigwags, bells, other activated
5 - Special Active Warning Devices
4 - Stop signs
3 - Crossbucks
2 - Other signs or signals
1 - No signs or signals

(Note: SPECPRO (Field 64) has WDCODE=5; and WARNACTO (Field 142) has WDCODE=6.

Previous Values:
8 - Gates
7 - Flashing lights
6 - Highway traffic signals, wigwags, or bells
5 - Non-train activated special protection
4 - Crossbucks
3 - Stop signs
2 - Other signs or signals
1 - No sign or signal) |
46		XBUCKRF (Reference Field 138, XBUCK)	Crossbucks- Reflector- ized	1 N	237	(Previous Values: 0 to 9) Not in New Form-field No Longer Maintained in Inventory-obsolete
47		XBUCKNRF (Reference Field 138, XBUCK)	Crossbucks- Non- reflectori-zed	1 N	238	(Previous Values: 0 to 9) Not in New Form-field No Longer Maintained in Inventory-obsolete
48	III.2.B.	STOPSTD	Highway Stop Signs	1 N	239	0 to 9 9 represents 9 or more

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49		STOPOTH	Other Stop Sign	1 N	240	(Previous Values: 0 to 9 9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete Conversion: If at least one of the two "Other Signs: Specify" field sets (OTHSGN1 and OTHDES1, or OTHSGN2 and OTHDES2) are blank, the value for STOPOTH (Other Stop Sign) was placed in the blank OTHSGN1 (or OTHSGN2) field, and "OTHRSTPSGN" was entered in the corresponding OTHDES1 (or OTHDES2) field.
50	III.2.F.	OTHSGN1	Other Signs:	1 N	241	0 to 9 9 represents 9 or more
51	III.2.F.	OTHDES1	Specify:	10 C	242 (251)	Any Alphanumeric Description
52	III.2.F.	OTHSGN2	Other Signs:	1 N	252	0 to 9 9 represents 9 or more
53	III.2.F.	OTHDES2	Specify:	10 C	253 (262)	Any Alphanumeric Description
54		GATERW (Reference Field 139, GATES)	Gates-Red & White	1 N	263	(Previous Values: 0 to 9 9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete
55		GATEOTH (Reference Field 139, GATES)	Gates-Other	1 N	264	(Previous Values: 0 to 9 9 represents 9 or more) Not in New Form-field No Longer Maintained in Inventory-obsolete
56	III.3.C.	FLASHOV	Canti-levered (or bridged) Flashing Lights-Over Traffic Lane	1 N	265	0 to 9 9 represents 9 or more

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57	III.3.C.	FLASHNOV	Canti-levered (or bridged) Flashing Lights-Not Over Traffic	1 N	266	0 to 9 9 represents 9 or more
58	III.3.D.	FLASHMAS	Mast Mounted Flashing Lights:	1 N	267	0 to 9 9 represents 9 or more
59	III.3.F.	FLASHOTH	Other Flashing Lights:	1 N	268	0 to 9 9 represents 9 or more
60	III.3.F.	FLASHDES	Specify:	9 C	269 (277)	Any Alphanumeric Description
61	III.3.G.	HWYSGNL	Hwy. Traffic. Signals	1 N	278	0 to 9 9 represents 9 or more
62	III.3.H.	WIGWAGS	Wigwags	1 N	279	0 to 9 9 represents 9 or more
63	III.3.J.	BELLS	Bells	1 N	280	0 to 9 9 represents 9 or more
64	III.4.	SPECPRO	Specify Warning Device:	20 C	281 (300)	Description of Non-train Activated Device
65	III.1.	NOSIGNS	No Signs or Signals (Check if Correct)	1 C	301	Enter a check if no signs or signals are present. 1=No signs or signals 0=At least one sign or signal
66	IV.10.	COMPOWER	Commercial Power Available (Y/N)?	1 C	302	1=Yes 2=No

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67	III.7.	SGNLEQP	Signalling for Train Operation: Is Track Equipped with Train Signals	1 C	303	1=Yes 2=No
68	III.6.	SPSEL	New: Train Detection (Previous: Does Xing Signal Provide Speed Selection for Trains?)	1 C	304	New Values: 1=Constant Warning Time 2= Motion Detectors 3=DC/AFO 4=other 5=none (Previous Values: 1=Yes, 2=No, 3=N/A) Conversion: Yes (1) –> CWT (1) No (2) -> DC/AFO (3) N/A (3)-> None (5)
69	IV.1.	DEVELTYP	Type of Development	1 C	305	1 to 5 1=Open Space, 2=Residential, 3=Commercial, 4=Industrial, 5=Institutional
70	IV.5	HWYPVED	Is Highway Paved?	1 C	306	1=Yes 2=No
71	IV.7.	DOWNST	Does Track Run Down a Street (Y/N)?	1 C	307	1=Yes 2=No
72	III.2.E.	PAVEMRK	Pavement Markings:	1 C	308	1 to 4 1=Stoplines, 2=RR Xing Symbols, 3=No Markings 4=Stoplines and RR Xing Symbols

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73	IV.8.	HWYNEAR (See Field 152, HWYNRSIG)	Nearby Intersecting Highway?	1 C	309	New Values: 1=Less than 75ft; 2=75 to 200ft; 3=200 to 500 ft; 4=N/A (Previous Values: 1=Yes 2=No) Conversion: Yes–>Less than 75 ft No–>N/A
74	III.2.C.	ADVWARN	RR Advance Warning Signs	1 C	310	1=Yes 2=No
75	IV.2.	XANGLE	Smallest Crossing Angle	1 C	311	1 to 3 1=0-29, 2=30-59, 3=60-90 (in degrees)

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76	IV.6.	XSURFACE (See Field 151, XSUROTHR)	Crossing Surface:	1 C	312	New Values: 1. Timber 2. Asphalt 3. Asphalt and Flange 4. Concrete 5. Concrete and Rubber 6. Rubber 7. Metal 8. Unconsolidated 9. Other (Specify) Conversion: New (Old 1. Timber Sectional Treated Timber (1) and Full Wood Plank (2) 2. Asphalt Asphalt (3) 3. Asphalt and Flange (New) 4. Concrete Concrete Slab (4) and Concrete Pavement (5) 5. Concrete and Rubber (New) 6. Rubber Rubber (6) 7. Metal Metal Sections (7) and Other Metal(8) 8. Unconsolidated Unconsoli- dated (9) 9. Other (Specify) Other (0))
77	IV.3.	TRAFICLN	No. of Traffic Lanes Crossing RR:	1 C	313	1 to 9

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78	IV.4.	TRUCKLN	Are Truck Pullout Lanes Present (Y/N)?	1 C	314	1=Yes 2=No
79	V.2.	STHWY1	Is crossing on State Highway System (Y/N)?	1 C	315	1=Yes 2=No
80	V.1.	HWYSYS	Highway System:	2 C	316 (317)	01=Interstate National Highway System 02=Other National Highway System 03=Other Federal-Aid Highway- Not NHS 08=Non Federal-Aid (NHS=National Highway System)
81	V.3.	HWYCLASS	Functional Classification of Road at Crossing:	2 C	318 (319)	01, 02, 06, 07, 08, 09, 11, 12, 14, 16, 17, 19 01=R. Interstate, 02=R. Oth. Prin. Arterial, 06=R. Minor Arterial, 07=R. Major Collector, 08=R. Minor Collector, 09=R. Local, 11=U. Interstate, 12=U. Oth. Freeway and Expressway, 14=U. Oth. Prin. Arterial, 16=U. Minor Arterial, 17=U. Collector, 19=U. Local [R=Rural, U=Urban]
82	V.5.	AADT	AADT	6 C	320 (325)	000001 - 999999
83	V.6.	PCTTRUK	Estimate Percent Trucks:	2 C	326 (327)	00 - 99
84	I.23.	LATITUDE	Latitude	10 7 N	328 (337)	Grade crossing latitudinal coordinate, from the center of the crossing.
85	I.24.	LONGITUD	Longitude	11 7 N	338 (348)	Grade crossing longitudinal coordinate, from the center of the crossing.

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86	I.25.	LLSOURCE	Lat/Long Source	C 1	349	1 = actual; 2=estimated; blank=neither [3. Federal Actual; 4. Federal Derived - For FRA Internal Use]
87	III.8.	INTRPRMP	Intercon-nection/Pre-emption	1 C	350	New values: 0 = not interconnected 1 = simultaneous preemption 2 = advance preemption 9 = n/a (Previous values: 0 = not interconnected 1 = interconnected 2 = simultaneous preemption 3 = advance preemption 9 = n/a) **Conversion**: 1 (interconnected)–>1 (simultaneous pre.) 2(simulta. pre.)–>1(simultaneous pre.) 3(adv. pre.)–>2 (adv.pre.)
88	III.2.D.	HUMPSIGN	Hump Signs	1 C	351	1=Yes 2=No 3=Unknown
89	I.21.	HSCORRID	[High Speed] Corridor ID Code	2 C	352 (353)	Code must be in High Speed Corridor Table (obtain from FRA)
90		DOTACPD		8 6 N	354 (361)	DOT Accident Prediction Value
91		ACPDDATE		8 DATE	362 (369)	Indicates when DOTACPD was generated.
92		ACCCNT1		2 N	370 (371)	Five year accident history.
93		ACCCNT2		2 N	372 (373)	Five year accident history.
94		ACCCNT3		2 N	374 (375)	Five year accident history.

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95		ACCCNT4		2 N	376 (377)	Five year accident history.
96		ACCCNT5		2 N	378 (379)	Five year accident history.
97		HISTDATE		8 DATE	380 (387)	Indicates when ACCNT1- ACCNT5 were generated
98	V.7.	SCHLBUS	Avg No of School Buses Passing Over the Crossing on a School Day	3 N	388 (390)	Value must be 0 through 999
99	I.16	WHISTBAN	Whistle Ban (Quiet Zone)	1 C	391	Valid values: 0=no 1=24 hour 2=partial 9=unknown
100	I.19	PASSCD	New: Type of Passenger Service Previous: Passenger Train Type	1 C	392	Valid values: A = AMTRAK operates over crossing B = AMTRAK and other passenger train operates over crossing C = Other passenger train operates over crossing, including seasonal D = None
101	I.20	PASSCNT	Avg Passenger Train Count Per Day	3 N	393 (395)	Value must be 0 through 999. [Cannot exceed the total train movements]
102	I.10	RRMAIN	Parent RR	4 C	396 (399)	Valid Railroad Code
103	I.11	XINGOWNR	Crossing Owner	4 C	400 (403)	Valid Railroad or Company Code

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104		SOURCE		1 C	404	This field will indicate the source of the last update. Valid values: H = other hard copy I = inventory form M = other magnetic media P = mass-update printout T = magnetic tape X = GX O = foreign files
105		UPDATDAT		8 DATE	405 (412)	This field will contain the date that the last update to the record was posted.
106		LONGBDAT		8 DATE	413 (420)	This field will contain the same date as the field EFFDATE, in this file, except that the year will be four characters in this data element.
107		LONGEDAT		8 DATE	421 (428)	This field will contain the same date as the field EDATE, in this file, except that the year will be four characters in this data element
108	III.3.B.	FOURQUAD	Four-quadrant gates present	1 C	429	1=Yes 2=No
109		TWOQUAD	Two-quadrant gates present	1 C	430	NOT USED IN NEW FORM
110	I.27.B.	OPENPUB	Private Crossing-Public Access	1 C	431	1=Yes 2=No Blank=Unknown
111 112 113 114	I.28.A. I.28.B. I.28.C. I.28.D.	RRNARR1 RRNARR2 RRNARR3 RRNARR4	Railroad Use	20 C for each one	432 (451) 452 (471) 472 (491) 492 (511)	These fields will contain whatever the railroad desires to enter.

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115 116 117 118	I.29.A. I.29.B. I.29.C. I.29.D.	STNARR1 STNARR2 STNARR3 STNARR4	State Use	20 C for each one	512 (531) 532 (551) 552 (571) 572 (591)	These fields will contain whatever the State desires to enter.
119	V.5.	AADTYEAR	Year for AADT	4 C	592 (595)	This field will contain the year of the last AADT update.
120		AADTCALC		1 C	596	Not used.
121		TRAINDAT		4 C	597 (600)	Not used. (Was to contain the year of the last trains update.)
122		TRAINCAL		1 C	601	Not used. (This field was to identify how the last trains update was calculated: 1 = actual 2 = estimated Blank = neither)
123 124 125 126 127	III.9 III.10 III.11 III.12 IV.11	RESERVE1 RESERVE2 RESERVE3 RESERVE4 RESERVE5	Reserved for Future Use	1C 3C 3C 3C 3C	602 603 (605) 606 (608) 609 (611) 612 (614)	Reserved for future use. (RESERVE1 is 1 C. RESERVE2, RESERVE3, RESERVE4, and RESERVE5 are 3 C each.)
128		DOTCASPD		8 6 N	615 (622)	DOT Predicted Casualty Rate
129		DOTFATPD		8 6 N	623 (630)	DOT Predicted Fatality Rate
130		FUNCCAT		1 C	631	Not Used.
131	I.32.	RRCONT	Railroad Contact	10 C	632 (641)	This field will contain the telephone number of the railroad contact associated with the crossing.

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132	I.33.	HWYCONT	State Contact	10 C	642 (651)	This field will contain the telephone number of the State highway contact associated with the crossing.
133	I.31.	POLCONT	Emergency Contact	10 C	652 (661)	This field will contain the telephone number of the emergency contact associated with the crossing. This will be the telephone number (area code and phone number) for the Emergency Notification System Contact (e.g., Law Enforcement, Railroad Emergency Contact, or State Emergency Contact) associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line.
134	I.30.	NARR	Narrative	100 C	662 (761)	No editing will be done on this field
135	II.1.A.	TOTALTRN	Total Trains	3 N	762 (764)	0-500 Conversion: TOTALTRN = DAYTHRU + DAYSWT + NGHTTHRU + NGHTSWT
136	II.1.B.	TOTALSWT	Total Switching Trains	3 N	765 (767)	0-500 Conversion: TOTALSWT = DAYSWT + NGHTSWT
137	I.15.	ENSSIGN	ENS Sign	1 C	768	1 = Yes 2 = No
138	III.2.A.	XBUCK	Crossbucks	2 N	769 (770)	Conversion: XBUCK = XBUCKRF + XBUCKNRF
139	III.3.A.	GATES	Gates	2 N	771 (772)	Conversion: GATES=GATERW+GATEOTH
140	I.27.C.	PRVSIGNL	Specify	15 C	773 (787)	Conversion: If PRVIND=2 then previous PRVSIGN value will be moved to PRVSIGNL

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141	III.3.E.	FLASHPAI	Number of flashing light pairs	2 N	788 (789)	This field contains the number of flashing light pairs.
142	III.3.K.	WARNACTO	Other Train Activated Warning Devices	9 C	790 (798)	This field contains other train activated warning devices.
143	III.5.	CHANNEL	Channelizatio n Devices with Gates	1 C	799	1=All Approaches 2=One Approach 3=None
144	I.26.	XINGADJ	Adjacent Xing with separate no.?	1 C	800	1=Yes 2=No
145	I.26.	XNGADJNO	Adjacent Xing with separate no.? Provide no.	7 C	801 (807)	Valid crossing number
146	IV.9.	ILLUMINA	Is Xing Illuminated?	1 C	808	1=Yes 2=No
147	V.4.	HWYSPEED	Posted Hwy Speed	3 N	809 (811)	This field contains the posted highway speed.
148	I.3.	[CNTYNAM]	County	20 C	812 (831)	Valid County Name
149	I.9.	[TTSTNNAM]	Nearest RR Timetable Station	25 C	832 (856)	Valid Timetable Station name
150	I.12.	[CITYNAM]	City	20 C	857 (876)	Valid City Name
151	IV.6.	XSUROTHR	Crossing Surface: 9. Other	20 C	877 (896)	Specify Other Crossing Surface
152	IV.8.	HWYNRSIG	Nearby Intersecting Highway? Is it signalized?	1 C	897	1=Yes 2=No