

2021 NFIRS FILES

Data Quality Notes

These notes reflect the full, all-incident PDR files.

Basic Incident File

- 1) **INC_NO**—there are records with negative values in INC_NO; there are also incident numbers with hyphens and other character values. The NFIRS Complete Reference Guide (CRG) states that the INC_NO is numeric only.
- 2) **EXP_NO**—there are 19 records with non-sequenced exposure numbers (these are not gaps of missing exposure incidents, but rather exposure incidents in which an improper, non-sequential exposure value was entered in the report and upon import to the system, the system allowed it).
- 3) **INC_TYPE**—there are 176 records with INC_TYPE='110' (4.1 conversion code); there are 302 records with a missing value (required field).
- 4) **AID**—there are 301 records with a missing value (required field). Of the 301 records, 294 also have missing values in the INC_TYPE field. In total, there are 309 records with either a missing value in INC_TYPE or AID or both are missing.
- 5) **ALARM**—there is one record with an alarm date of 0021; there is one record with an alarm date of 2001, there are three records with an alarm date of 2017; there is one record with an alarm date of 2018; there are 16 records with an alarm date of 2019; there are 393 records with an alarm date of 2020; and there are ten records with an alarm date of 2022.
- 6) **ARRIVAL**—there is one record with an arrival date of 0021; there is one record with an arrival date of 2001, there are three records with an arrival date of 2017; there is one record with an arrival date of 2018; there are 16 records with an arrival date of 2019; and there are 375 records with an arrival date of 2020; there are 435 records with an arrival date of 2022 (409 of these records have an arrival date of 1/01/2022 with an incident date of 12/31/2021); there is one record with an arrival date of 2032; and there is one record with an arrival date of 2921. In addition, there are 4,385 records with a missing arrival date that do not have INC_TYPE = 611 (dispatched and canceled en route) and require arrival time.
- 7) **INC_CONT**—there is one record with an incident-controlled date of 0021; there is one record with a controlled date of 2017; there is one record with a controlled date of 2018; there are 15 records with a controlled date of 2019; there are 198 records with a controlled date of 2020; there are 94 records with a controlled date of 2022 (80 of these records have a controlled date of 1/01/2022); and there is one record with a controlled date of 2121.
- 8) **LU_CLEAR**—there are 2,042 records with a last unit cleared date of 2022 (1,954 of these records have a last unit cleared date of 1/01/2022); there is one record with a last unit cleared date of 0021; there is one record with a last unit cleared date of 2001; there are three records with a last unit cleared date of 2017; there is one record with a last unit cleared date of 2018; there are 16 records with a last unit cleared date of 2019; there are 387 records that have a last unit cleared date of 2020; there are 14 records that have a last unit cleared date greater than 2022 (e.g., 2024, 8202).

- 9) **ALARMS**—this field contains many character values (ALARMS is the actual number of alarms transmitted for the incident).
- 10) **ACT_TAK1**—there are two records with a value of '-'; there are 179 records with a value of 'UU' (not a CRG options); there are 3,164 records with a missing value in ACT_TAK1 where AID = '1', '2', '5', 'N' and INC_TYPE ranges from '100' to '911' (these records should have a value in ACT_TAK1).
- 11) **ACT_TAK2**—there are 1,458 records with a value of '-'; there are 519 records with a value of 'UU' (not CRG options).
- 12) **ACT_TAK3**—there are four records with a value of '-'; there are 14 records with a value of 'UU' (not CRG options).
- 13) **THREE ACT_TAK FIELDS**—
 - there are 1,579 records where ACT_TAK1 equals ACT_TAK2.
 - there are 103 records where ACT_TAK1 equals ACT_TAK3.
 - there are 1,591 records where ACT_TAK2 equals ACT_TAK3.
 - there are 21 records where all three ACT_TAK values are equal.
- 14) **SUP_APP, EMS_APP, OTH_APP**—for each of these fields, there are records with thousands of apparatus that responded. For **SUP_APP**, there are two records with negative values. For **EMS_APP**, there are two records with negative values. For **OTH_APP**, there are six records with negative values.
- 15) **SUP_PER, EMS_PER, OTH_PER**—for each of these fields, there are records with extremely high values of personnel. For **SUP_PER**, there are five records with negative values. For **EMS_PER**, there are five records with negative values. For **OTH_PER**, there are two records with negative values.
- 16) **PROP_LOSS**—there are 17 records with PROP_LOSS of \$20 million or more.
- 17) **CONT_LOSS**—there are seven records with CONT_LOSS of \$20 million or more.
- 18) **PROP_VAL**—there are 15 records with a value of \$999,999,999.
- 19) **CONT_VAL**—there are five records with a value of \$999,999,999.
- 20) **FF_DEATH**—although this is a required field, there are 28,474 records with a missing value (all other records have a value of 0 to 6).
- 21) **FF_INJ**—although this is a required field, there are 28,472 records with a missing value (all other records have a value of 0 to 73; most of the records with high numbers of ff injuries had SEVERITY=1 on the Fire Service Casualty file).
- 22) **DET_ALERT**—there are 5,266 confined fire incident records that have a missing value (CRG indicates this is a required field for confined fires).
- 23) **PROP_USE**—there are 160 records with a value of '250' (not a CRG option). Although a required field, there are 1,487,058 records with a missing value. Of these records, 748,028 have AID = 3, 4 so property use is not required; there are 738,728 records with missing values that have INC_TYPE = 611 (dispatched and canceled en route) and do not require property use; there is one record where INC_TYPE = 300 where property use is required; and there are 301 records with a missing value in INC_TYPE.
- 24) **CENSUS**—there are records with data that do not appear to be census tracts.

Basic Incident Address File

- 1) **LOC_TYPE**—there are 1,081 records with missing values (required field).
- 2) **NUM_MILE**—there are records with street names, street types, and apartment numbers in this field.
- 3) **STREET_PRE**—there are 45 records with a value of ‘ST’ (not a CRG option).
- 4) **STREETNAME**—there are records with entire street addresses including house numbers, street types, and city names.
- 5) **STREETTYPE**—there are 26 records with a value of ‘WAYS’ (not a CRG option).
- 6) **STREETSUF**—there are 231 records with a value of ‘ST’ (not a CRG option).
- 7) **APT_NO**—includes names, street names, city names, etc.
- 8) **CITY**—there are numbers, street addresses, zip codes, etc. in this field.
- 9) **STATE_ID**—there are four records with a value of ‘TR’ (not a CRG option).
- 10) **ZIP5** includes invalid zip codes (some are less than five digits, include character values, etc.).
- 11) **ZIP4** includes invalid zip codes (some are less than four digits, include character values, etc.).

Basic Incident Aid Given or Received File

- 1) **FDIDRECAID**—there are at least 8,032 records with invalid FDIDs.
- 2) **INC_NOFDID**—there are 110,977 records with an incident number of 0; there are records that have invalid incident numbers (e.g., unk, unknown). This field should contain numeric values only.

Fire Incident File

- 1) **NUM_UNIT**—there are 1,130 records with a value of -1; there are 282,179 records with a value of 0; and there are 12 records with a value of 2,000 or greater.
- 2) **BLDG_INVOL**—there are 15 records that have a value of -1; there is one record with a value of 998 and there are four records with a value of 999.
- 3) **ACRES_BURN**—there is one record with a value of -1; there are six records with a value of 900,000 or greater.
- 4) **ON_SITE_M1**—there are 5 records with a value of ‘800’ (not a CRG option).
- 5) **AREA_ORIG**—there are 45 records with a value of ‘57’ (not a CRG option); there are 9 records with a missing value – all these records, however, have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 for which AREA_ORIG is not required. Therefore, there are no records with a missing value where it is a required field.
- 6) **HEAT_SOURC**—there are 9 records with a missing value – all these records, however, have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 for which HEAT_SOURC is not required. Therefore, there are no records with a missing value where it is a required field.
- 7) **FIRST_IGN**—there are 26 records with a value of ‘80’; there are 14 records with a value of ‘90’ (not CRG options); there are 9 records with a missing value – all these records, however, have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 for which FIRST_ORIG is not required. Therefore, there are no records with a missing value where it is a required field.
- 8) **CAUSE_IGN**— there are 12 records with a missing value – of these records, eight have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 for which CAUSE_IGN is not required. Therefore, there are four records with a missing value where it is a required field.
- 9) **FACT_IGN_1**— there are 1,243 records with a missing value. Of these, 611 have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 or CAUSE_IGN=0 for which FACT_IGN_1 is not required. Therefore, there are 632 records with a missing value where it is a required field.
- 10) **HUM_FAC_8**—there are no records with a value of ‘8’.
- 11) **HUM_FAC_1...HUM_FAC_8**—there are 10,444 records where the human factor fields have no values. Of these, 7,262 have INC_TYPE=110, 113-118, 150-155, 200-911 or AID=3 or 4 or CAUSE_IGN=0 for which the human factor fields are not required. Therefore, there are 3,182 records that should have values in the human factor fields.
- 12) **AGE**—there is one record with a value of 121; there is one record with a value of 123; and there is one record with a value of 800.
- 13) **SUP_FAC_1**—there are 487 records with a value of ‘UUU’ (not a CRG option).
- 14) **SUP_FAC_2**—there is one record with a value of ‘UUU’ (not a CRG option).
- 15) **MOB_TYPE**—there are 422 records with a value of ‘UU’ (not a CRG option).
- 16) **MOB_MAKE**—there are 20 records with a value of ‘HE’ (not a CRG option).
- 17) **MOB_MODEL**—there are 37 records with values of zero(s); there are records with ‘unknown’ responses.
- 18) **MOB_YEAR**—there are 11 records with a value of 1894 or earlier.
- 19) **EQ_BRAND**—there are some records with numeric values instead of brand names.

- 20) **EQ_MODEL**—there are 21 records with values of zero(s); there are records with ‘unknown’ responses.
- 21) **EQ_SER_NO**—there are 63 records with values of zero(s); there are records with ‘unknown’ responses as well as information other than serial numbers.
- 22) **EQ_YEAR**—there are nine records with a value of zero; and there are three records with a year of 9999.
- 23) **FIRE_SPRD**—there are 407,204 records with a missing value; all of these records, except one, have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which FIRE_SPRD is not required.
- 24) **ITEM_SPRD**—there are four records with a value of ‘80’; there are two records with a value of ‘90’; and there are 376 records with a value of ‘99’ (not CRG options).
- 25) **STRUC_TYPE**—there are 403,256 records with a missing value. Of these, 403,240 have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 for which STRUC_TYPE is not required. Therefore, there are 16 records with a missing value where it is a required field; of these records, all have INC_TYPE = 111, 112, or 121 and should have a value in this field.
- 26) **STRUC_STAT**—there are 407,716 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which STRUC_STAT is not required.
- 27) **BLDG_ABOVE**—there are 28 records with stories at or above 110 (two of these records have a value of 999). There are 406,367 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which BLDG_ABOVE is not required.
- 28) **BLDG_BELOW**—there is one record with value of -1; there are 21 records with stories below grade of 40 or more (14 of these records have a value of 99). There are 406,513 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which BLDG_BELOW is not required.
- 29) **BLDG_LGTH**—there are 507 records with a value of 0; there is one record with a value of 11,111; there is one record with a value of 5,405,501. There are 523,747 records with a missing value; of these records, 421,220 have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which BLDG_LGTH is not required. The remaining 102,527 records with a missing value in BLDG_LGTH have a value in TOT_SQ_FT.
- 30) **BLDG_WIDTH**—there are 509 records with a value of 0; there are two records with a value of 11,111. There are 523,747 records with a missing value; of these records, 421,220 have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which BLDG_WIDTH is not required. The remaining 102,527 records with a missing value in BLDG_WIDTH have a value in TOT_SQ_FT.

- 31) **TOT_SQ_FT**—there are 2,059 records with a value of 0; there are two records with a value of 99,999,999. There are 442,419 records with a missing value; of these, 411,732 records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which TOT_SQ_FT is not required. The remaining 30,687 records with a missing value in TOT_SQ_FT have values in BLDG_LGTH and BLDG_WIDTH.
- 32) **FIRE_ORIG**—there are 74 records with values greater than 99 (27 of these have a value of 999). There are 406,953 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which FIRE_ORIG is not required.
- 33) **ST_DAM_MIN**—there is one record with a value of -1.
- 34) **ST_DAM_SIG**—there is one record with a value of -1.
- 35) **ITEM_SPRD**—there are four records with a value of '80'; there are two records with a value of '90'; and there are 376 records with a value of '99' (not CRG options).
- 36) **MAT_SPRD**—there are six records with a value of '28' and there are 898 records with a value of '99' (not CRG options).
- 37) **DETECTOR**—there are 408,450 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which DETECTOR is not required.
- 38) **AES_PRES**—there are 408,032 records with a missing value; all of these records have INC_TYPE=100, 110, 113-118, 130-911 or AID=3 or 4 or STRUC_TYPE=0, 3-8 or missing for which AES_PRES is not required.

Civilian Fire Casualty File

- 1) **AGE**—there are 24 records where age is greater than 105 (this includes three records with an age of 999); there are 122 records where age is 0; and there are nine records with a missing value (required field).
- 2) **AFFILIAT**—there is one record with a value of 'U' (not a CRG option).
- 3) **SEV**—there are three records with a missing value (required field).
- 4) **CAUSE_INJ**—there is one record with a value of 'N' (not a CRG option).
- 5) **INJ_DT_TIM**—there is one record with an injury date (year) of 2001; there is one record with an injury date of 2017; and there are two records with an injury date of 2020.
- 6) **FACT_INJ1**—there are 12 records with a value of 'UU' (not a CRG option).
- 7) **PRIM_SYMP**—there are 72 records with a value of 'NN' (not a CRG option).
- 8) **BODY_PART**—there are four records with a value of '0'; there are 12 records with a value of 'U' (not CRG options).
- 9) **CC_DISPOS**—there are 178 records with a value of 'N'; the rest of the records where CC_DISPOS was reported have a value of '1'.

Fire Service Casualty File

- 1) **AGE**—there are 393 records with a value of 0; there are 56 records with an age ranging from 1 to 9; there are 11 records with an age over 90.
- 2) **RESPONSES**—there are five records with a value of 40 or more.
- 3) **ASSIGNMENT**—there are three records with a value of ‘U’ (not a CRG option).
- 4) **SEVERITY**—there are 69 records with a value of ‘U’ (not a CRG option).
- 5) **TAKEN_TO**—there are three records with a value of ‘U’ (not a CRG option).
- 6) **SYMPTOM**—there are 5,261 records with a value of ‘NN’ (not a CRG option).
- 7) **PABI**—there are eight records with a value of ‘30’; there are 11 records with a value of ‘60’; there are four records with a value of ‘70’ (not CRG options).
- 8) **FACTOR**—there is one record with a value of ‘6’; there is one record with a value of ‘9’ (not CRG options).
- 9) **LOCATION**—there are 89 records with a value of ‘NN’ (not a CRG option).
- 10) **VEHICLE**—there are two records with a value of ‘U’ (not a CRG option).

Fire Service Equipment Failure File

EQUIP_ITEM—there are 11 records with a missing value.

Wildland Fire File

- 1) **EXP_NO**—there are four records with exposure numbers of 100, 142, 212, and 214.
- 2) **LATITUDE**—there are 2,070 records with a value of 0.00 and there are 5 records with negative values (in the U.S., values of latitude are positive).
- 3) **LONGITUDE**—there are 2,071 records with a value of 0.00 and there are an additional 4,511 records with positive values (in the U.S., values of longitude are negative).
- 4) **TOWNSHIP**—there are 55 records with a value of 0; there are 159 records with a value greater than 36.
- 5) **SECTION**—there are 3 records with a value of 0; there is one record with a value greater than 36.
- 6) **AREA_TYPE**—there are 118 records with missing values (required field).
- 7) **FIRE_CAUSE**—there are 119 records with missing values (required field).
- 8) **HUM_FACT8**—this field consists of all missing values.
- 9) **HUM_FACT1...HUM_FACT8**—there are 7,438 records where the human factor fields have no values (required field).
- 10) **FACT_IGN1**—there are 6,671 records with missing values (required field).
- 11) **FACT_IGN fields**—there are two records where **FACT_IGN1** equals **FACT_IGN2**.
- 12) **SUPP_FACT1**—there are 44 records with a value of ‘UUU’ (not a CRG option).
- 13) **HEAT_SOURC**—there are 119 records with missing values (required field); and there are 37 records with invalid values of ‘1’, ‘4’ to ‘9’ (CRG specifies a two-digit **HEAT_SOURC** code).
- 14) **MOB_PROP**—there are 22 records with a value of ‘UU’ (not a CRG option).

- 15) **NFDRS_ID**—there are records that have invalid values as they contain less than six characters in the id number. CRG specifies a six-character ID.
- 16) **WIND_SPEED**—there are six records with a value greater than 100 mph.
- 17) **AIR_TEMP**—there is one record with a negative value (-50); there is one record with a value of 212 degrees F and one record with a value of 631 degrees F.
- 18) **REL_HUMID**—there are eight records with a relative humidity of over 100%.
- 19) **FUEL_MOIST**—fuel moisture generally ranges from 0% to 25%; there are 50 records with values ranging from 26 to 97.
- 20) **FED_CODE**—there are records with federal agency codes that do not match ones that are options in the CRG (e.g., some with numeric values and others with less than five-character values, etc.).
- 21) **ACRES_BURN**—there are 118 records with missing values (required field); there is one record with a value of 9,999,999 and one record with a value of 10,000,000.
- 22) **CROP_BURN1, CROP_BURN2, CROP_BURN3**—there are records with numerical values in these fields as opposed to listing the type(s) of crops; there are 70 records where CROP_BURN1=CROP_BURN2; 66 records where CROP_BURN1=CROP_BURN3; 67 records where CROP_BURN2=CROP_BURN3; and 66 records where CROP_BURN1=CROP_BURN2=CROP_BURN3.
- 23) **UNDET_BURN**—there is one record with a negative value.
- 24) **TAX_BURN**—there is one record with a negative value.
- 25) **NOTAX_BURN**—there is one record with a negative value.
- 26) **LOCAL_BURN**—there is one record with a negative value.
- 27) **COUNTY_BURN**—there is one record with a negative value.
- 28) **ST_BURN**—there is one record with a negative value.
- 29) **FED_BURN**—there is one record with a negative value.
- 30) **FOREI_BURN**—there is one record with a negative value.
- 31) **MILIT_BURN**—there is one record with a negative value.
- 32) **OTHER_BURN**—there is one record with a negative value.
- 33) **AGE**—there are 6,716 records with an age of 0; there are three records with an age value greater than 100 and there are three records with an age value of 999.
- 34) **ELEVATION**—there are 4,406 records with a value of 0 feet; there is one record with a value greater than 20,000 feet.
- 35) **FLAME_LGTH**—there are 5,004 records with a value of 0; there are two records with a value of **.
- 36) **SPREAD_RAT**—there is one record with a negative value; there are 4,017 records with a value of 0.

EMS File

- 1) **ARRIVAL**—there are 68 records where the date has a year other than 2021; 9 of these records have a date of 2020 and 22 records have a date of 2022 (only 13 of these records have a date of 01/01/2022). The remaining records have a date ranging from 1899 to 5202.
- 2) **TRANSPORT**—there are 30 records where the date has a year other than 2021; 2 of these records have a date of 2020 and 25 records have a date of 2022 (only 15 of these records have a date of 01/01/2022). There is one record with a date of 2023, one record with a date of 5202, and one record with a date of 6202.
- 3) **PROVIDER_A**—there is one record with missing value (required field).
- 4) **AGE**—there are 6,233 records where AGE is 0; there are 117 records where AGE is greater than 110 (49 of these records have an AGE greater than 120).
- 5) **SITE_INJ1**—there are 204 records with a value of ‘N’ (not a CRG option).
- 6) **PROC_USE20**—contains all missing values.
- 7) **SAFE_EQP7** and **SAFE_EQP8**—these fields contain all missing values. Additionally, there are no values of ‘N’ in the first field **SAFE_EQP1**, and there are no values of ‘U’ or ‘0’.
- 8) **ARR_DES1**—includes values ‘1’ and ‘2’ for both descriptors.
- 9) **ARR_DES2**—contains all missing values.
- 10) **IL_CARE**—there are 489,245 records with missing values (required field).

Hazardous Material File

- 1) **REL_FROM**—there is one record with a value of ‘3’ (not a CRG option).
- 2) **REL_STORY**—of 4,464 records that reported ‘outside of structure’ (value of ‘2’) in the REL_FROM field, 1,799 records have a numeric value in the REL_STORY field (although 1,515 of these have a value of 0).
- 3) **AFFEC_UNIT**—there are 7,273 records with a numeric value in the AFFEC_MEAS field. Of these, only 4,754 records contained a value in the AFFEC_UNIT field that defines the unit of measurement.
- 4) **EVAC_UNIT**—there are 4,282 records with a numeric value in EVAC_MEAS field. Of these, only 1,228 records contained a value in the EVAC_UNIT that defines the unit of measurement.
- 5) **HAZ_ACT FIELDS**—there is one record where HAZ_ACT1 equals HAZ_ACT2.
- 6) **CAUSE_REL**—there are 1,914 records with a missing value (required field).
- 7) **HAZ_DISPO**—there are 17 records with a missing value (required field).

Hazardous Material Chemical File

- 1) **UN_NUMBER**—there are two records with a value of 0, three records with a value of 000, and three records with a value of 0000; there are several records with less than four digits (UN_NUMBER is a four-digit number); there is one record with a value of ‘na’; there is one record with a value of ‘uu’; and there are several records with non-numeric values.
- 2) **DOT_CLASS**—there are three records with a value of ‘20’; there is one record with a value of ‘40’; there are three records with a value of ‘50’; there is one record with a value of ‘60’; and there are seven records with a value of ‘90’ (not CRG options).
- 3) **CAS_REGIS**—there are 13 records with non-numeric values.
- 4) **CHEM_NAME**—there are 4,254 records with missing values (required field); there are also many records with a numeric value.
- 5) **CAP_UNIT**—of the 4,932 records with a value in the CONT_CAP field, there are 2,493 records with a missing value in the CAP_UNIT field.
- 6) **AMOUNT_REL**—there are seven records with a negative value; there are 4,409 records with missing values (required field).
- 7) **UNITS_REL**—of the 7,787 records with values in the AMOUNT_REL field, there are 203 records with a missing value in the UNITS_REL field.
- 8) **REL_INT**—there are two records with a value of ‘U’ (not a CRG option).

Hazardous Material Mobile Property Type File

MP_YEAR—there are six records with a value of -1; and there are 13 records with a value of 0.

Hazardous Material Equipment Involved File

EQ_YEAR—there are seven records with a value of -1; there are 12 records with a value of 0; and there is one record with a value of 99.

Arson File

- 1.) **MOT_FACTS** fields—there is one record where **MOT_FACTS1 = MOT_FACTS2**.
- 2.) **GRP_INVOL** fields—there is one record where **GRP_INVOL1 = GRP_INVOL2**.

Arson Juvenile Subject File

- 1) **AGE**—there are 362 records where **AGE=0**; there are 620 records where **AGE** values are greater than 17. **AGE** should only be completed on the Juvenile Firesetter Module if the person involved in ignition was under age 18.
- 2) **RISK_FACT1**—there are 64 records with value of 'Z' (not a CRG option).

Arson Agency Referral File

- 1) **AGENCY_NAM**—there are some records with invalid agency names (e.g., '400 series', 'none').
- 2) **AG_ST_NUM**—there are a few records with street addresses in this field (e.g., '410 West', 'HWY 91').
- 3) **AG_STREET**—there are records that only include the street number in the street name field as well as the full street address with street type (e.g., 1 Bumps Pond Road; 10 Margaret Street).
- 4) **AG_APT_NO**—there are records with building numbers and floor numbers.
- 5) **AG_CITY**—there are several records with only a zip code and county names; there two records with a street address (e.g., 1105 Prairie Street).
- 6) **AG_ZIP5**—there are two records with a zip code of '00000' and five records with a zip code of '0' (not valid zip codes).
- 7) **AG_ZIP4**—there are some invalid zip4 values; one that starts with a '-' and one where zip4 is '0000'.
- 8) **AG_PHONE**—there are 9 records where the phone number contains all zero values; and there are several records with incomplete phone numbers.
- 9) **AG_CASE_NO**—there are 224 records where the case numbers contain all zero values; there are records with responses containing character values rather than numeric case numbers.
- 10) **AG_ORI**—there are some records that contain character values in this field.
- 11) **AG_FID**—there is one record containing a one-character value in this field; CRG indicates the **AG_FID** is a two-character identification number.
- 12) **AG_FDID**—there are 21 records with zero values in this field; there are a few records with invalid FDIDs (e.g., 'None', 'Other').

Fire Department Header File

- 1) **FD_NAME**—this field contains some records that are numbers or FDIDs; some appear to be addresses.
- 2) **FD_STR_NO**—there are some records that contain ‘PO BOX’ in the street number field and other invalid street numbers and names.
- 3) **FD_STREET**—there are records that include the street number in the street name field as well as the full street address; there are also records that include ‘PO BOX’ in this field.
- 4) **FD_STR_TYP**—there is one record with a value of ‘30’; there is one record with a value of ‘AVEN’ (not a CRG option); there are other records with invalid street type codes (e.g., ‘Roas’).
- 5) **FD_CITY**—there are a few records with number values or street addresses.
- 6) **FD_ZIP**—there are 53 records with zip code values of zero/zeroes; there are 133 records with four leading zeroes (not valid zip codes).
- 7) **FD_PHONE**—there are at least 108 records with invalid phone numbers; others are incomplete or include character values.
- 8) **FD_FAX**—similar issues as seen with FD_PHONE field.
- 9) **FD_EMAIL**—email addresses appear to be invalid (contain no @ symbols or periods).
- 10) **FD_FIP_CTY**—there are records with invalid values for the FIPS County Code; some of the codes are less than three digits and include character values. FIPS County Codes consist of numbers.
- 11) **NO_PD_FF**—there are two records with a value of 9999.
- 12) **NO_VOL_FF**—there are eight records with a value of 1000 or more.
- 13) **NO_VOL_PDC**—there are four records with a value greater than 500.