# Documentation for simplified FARS database

All tables are provided as tab-delimited text files. There are no character fields longer than 255 characters.

## Original documentation:

Analytic manual and detailed record layouts and instructions: https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812447

Auxiliary file layouts: https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/AUXF\_A

## AZ\_ACCIDENT table: 79 columns with 3,904 accidents.

This table was derived from the original accident tables from 2012 through 2016. For many fields, the original code and the translation of that code as provided by NHTSA are shown next to each other, with the original field name followed by that field name with the suffix “lit”, for “literal”. For example, if the original record layout contains a field called WEATHER, this file will include WEATHER as a numeric, coded field, and WEATHER\_LIT as its translation. There is no description below for those fields, but you’ll see the translations of the codes in the data itself.

This table omits the information on the hour and minute that the accident was reported and the hour and minute that EMS arrived. These calculations will be difficult for you if you are using SQLite, as time calculations are not directly supported.

It also excludes WEATHER1, WEATHER2 (which are put together to create WEATHER); RAIL and one or two other fields. Some relatively arcane fields were not translated.

CITY and COUNTY translations came from the GSA’s Geographic Locator Codes at <https://www.gsa.gov/reference/geographic-locator-codes-glcs-overview> . One city code, 355, was missing from the file. A lookup of the latitude and longitude showed it was Oro City, which was added as a translation.

NHTSA changed the way it classified roadways in 2015, so those original fields were omitted. Instead, the road use class from the auxiliary file was used.

The file includes selected indicators from the FARS Accident Auxiliary files, such as whether a police pursuit was involved, a pedestrian involved and pedestrian killed, and similar items. It does not have every piece of information that you may want.

## AZ\_VEHICLE (131 columns with 5,889 vehicles) and AZ\_PERSON (96 columns with 10,611 people):

These tables are exactly as given by NHTSA, without the translations baked in. There will be very few reasons that you’ll need these tables – for instance, if you may need to do one query to find wrong-way drivers on a divided highway – so you can join those with the accident table. Be selective about how much of these tables you try to use, and consider keeping just a sliver of them for your analysis.

## Accident table field list:

|  |  |
| --- | --- |
| Field name | Description |
| accident\_id |  |
| ST\_CASE | Consecutive Number |
| VE\_TOTAL | Number of Vehicle Forms Submitted |
| VE\_FORMS | Number of Vehicle Forms Submitted for MV In Transport |
| PEDS | Number of Forms Submitted for Persons Not in Motor Vehicles |
| PERSONS | Number of MV Occupant |
| COUNTY | County |
| county\_name |  |
| CITY | City |
| city\_name |  |
| DAY | Crash Date (Day) |
| MONTH | Crash Date (Month) |
| YEAR | Crash Date (Year) |
| HOUR | Crash Time (Hour) |
| MINUTE | Crash Time (Minute) |
| NHS | National Highway System |
| FUNC\_SYS | Functional System |
| func\_sys\_lit |  |
| ROAD\_FNC | Roadway Function Class |
| road\_fnc\_lit |  |
| RD\_OWNER | Ownership |
| rd\_owner\_lit |  |
| TWAY\_ID | Trafficway Identifier (1) |
| TWAY\_ID2 | Trafficway Identifier (2) |
| LATITUDE | Global Position (Latitude) |
| LONGITUD | Global Position (Longitude) |
| SP\_JUR | Special Jurisdiction |
| sp\_jur\_lit |  |
| HARM\_EV | First Harmful Event |
| harm\_ev\_lit |  |
| MAN\_COLL | Manner of Collision |
| man\_coll\_lit |  |
| RELJCT1 | Relation to Junction Within Interchange Area |
| RELJCT2 | Relation to Junction - Specific Location |
| TYP\_INT | Type of Intersection |
| WRK\_ZONE | Work Zone |
| REL\_ROAD | Relation To Trafficway |
| LGT\_COND | Light Condition |
| lgt\_cond\_lit |  |
| WEATHER | Atmospheric Conditions |
| weather\_lit |  |
| SCH\_BUS | School Bus Related |
| CF1 | Related Factors (1) |
| CF2 | Related Factors (2) |
| CF3 | Related Factors (3) |
| cf1\_lit |  |
| cf2\_lit |  |
| cf3\_lit |  |
| FATALS | Fatalities |
| A\_INTER | Interstate |
| a\_inter\_lit |  |
| A\_ROADFC | Roadway Function Class |
| a\_road\_fc\_lit |  |
| A\_TOD | Time of Day |
| a\_tod\_lit |  |
| A\_DOW | Day of Week |
| a\_dow\_lit |  |
| A\_LT | Involving a Large Truck |
| a\_lt\_lit |  |
| A\_SPCRA | Involving Speeding |
| a\_spcra\_lit |  |
| A\_PED | Involving a Pedestrian |
| a\_ped\_lit |  |
| A\_PED\_F | Involving a Pedestrian Fatality |
| a\_ped\_f\_lit |  |
| A\_PEDAL | Involving a Pedalcyclist |
| a\_pedal\_lit |  |
| A\_PEDAL\_F | Involving a Pedalcyclist Fatality |
| a\_pedal\_f\_lit |  |
| A\_POLPUR | Involving a Police Pursuit |
| a\_polour\_lit |  |
| A\_POSBAC | Involving a Driver With Positive BAC |
| a\_posbac\_lit |  |
| A\_DIST | Involving a Distracted Driver |
| a\_dist\_lit |  |
| A\_DROWSY | Involving a Drowsy Driver |
| a\_drowsy\_lit |  |
| INDIAN\_RES | Indian Reservation based on special jurisdiction and geographic location data |

## Person table

|  |  |
| --- | --- |
| accident\_id |  |
| STATE | State Number |
| ST\_CASE | Consecutive Number |
| VE\_FORMS | Number of Vehicle Forms Submitted for MV In Transport |
| VEH\_NO | Vehicle Number |
| PER\_NO | Person Number |
| STR\_VEH | Number Of Motor Vehicle Striking Non-Motorist |
| COUNTY | County |
| DAY | Crash Date (Day) |
| MONTH | Crash Date (Month) |
| HOUR | Crash Time (Hour) |
| MINUTE | Crash Time (Minute) |
| RUR\_URB | Land Use |
| FUNC\_SYS | Functional System |
| HARM\_EV | First Harmful Event |
| MAN\_COLL | Manner of Collision |
| SCH\_BUS | School Bus Related |
| MAKE | Vehicle Make |
| MAK\_MOD | Make Model Combined |
| BODY\_TYP | Body Type |
| MOD\_YEAR | Vehicle Model Year |
| TOW\_VEH | Vehicle Trailing |
| SPEC\_USE | Special Use |
| EMER\_USE | Emergency Use |
| ROLLOVER | Rollover Type |
| IMPACT1 | Areas of Impact - Initial Contact Point |
| FIRE\_EXP | Fire Occurrence |
| AGE | Age |
| SEX | Sex |
| PER\_TYP | Person Type |
| INJ\_SEV | Injury Severity |
| SEAT\_POS | Seating Position |
| REST\_USE | Restraint System/Helmet Use |
| REST\_MIS | Any Indication of Mis-Use of Restraint System/Helmet Use |
| AIR\_BAG | Air Bag Deployed |
| EJECTION | Ejection |
| EJ\_PATH | Ejection Path |
| EXTRICAT | Extrication |
| DRINKING | Police Reported Alcohol Involvement |
| ALC\_DET | Method of Alcohol Determination by Police |
| ALC\_STATUS | Alcohol Test- Status |
| ATST\_TYP | Alcohol Test- Type |
| ALC\_RES | Alcohol Test- Result |
| DRUGS | Police Reported Drug Involvement |
| DRUG\_DET | Method of Drug Determination by Police |
| DSTATUS | Drug Test -Status |
| DRUGTST1 | Drug Test -Type (1) |
| DRUGTST2 | Drug Test -Type (2) |
| DRUGTST3 | Drug Test -Type (3) |
| DRUGRES1 | Drug Test- Result (1) |
| DRUGRES2 | Drug Test- Result (2) |
| DRUGRES3 | Drug Test- Result (3) |
| HOSPITAL | Transported to Medical Facility By |
| DOA | Died at Scene/En Route |
| DEATH\_DA | Death Date (Day) |
| DEATH\_MO | Death Date (Month) |
| DEATH\_YR | Death Date (Year) |
| DEATH\_HR | Death Time (Hour) |
| DEATH\_MN | Death Time (Minutes) |
| DEATH\_TM | Death Time |
| LAG\_HRS | Crash to Death Time (Hours) |
| LAG\_MINS | Crash to Death Minutes (Minutes) |
| P\_SF1 | Related Factors (1) |
| P\_SF2 | Related Factors (2) |
| P\_SF3 | Related Factors (3) |
| WORK\_INJ | Fatal Injury at Work |
| HISPANIC | Hispanic Origin |
| RACE | Race |
| LOCATION | Non-Motorist Location at Time of Crash |
| ROAD\_FNC | Roadway Function Class |
| CERT\_NO | Death Certificate Number |
| VINTYPE | VIN Vehicle Type |
| VINMAKE | VIN MAKE |
| VINA\_MOD | VIN model |
| VIN\_BT | VIN Body Type |
| VINMODYR | VIN Model Year |
| VIN\_LNGT | VIN length |
| VIN\_WGT | Curb Weight |
| WGTCD\_TR | Truck Weight Rating |

## Vehicle table field list:

|  |  |  |
| --- | --- | --- |
| accident\_id |  |  |
| STATE | State Number | |
| ST\_CASE | Consecutive Number | |
| VEH\_NO | Vehicle Number | |
| VE\_FORMS | Number of Vehicle Forms Submitted for MV In Transport | |
| NUMOCCS | Number of Occupants | |
| DAY | Crash Date (Day) | |
| MONTH | Crash Date (Month) | |
| HOUR | Crash Time (Hour) | |
| MINUTE | Crash Time (Minute) | |
| HARM\_EV | First Harmful Event | |
| MAN\_COLL | Manner of Collision | |
| UNITTYPE | Unit Type |  |
| HIT\_RUN | Hit and Run | |
| REG\_STAT | Vehicle Registration State | |
| OWNER | Registered Vehicle Owner | |
| MAKE | Vehicle Make | |
| MODEL | Vehicle Model | |
| MAK\_MOD | Make Model Combined | |
| BODY\_TYP | Body Type |  |
| MOD\_YEAR | Vehicle Model Year | |
| VIN | Vehicle Identification Number | |
| VIN\_1 | VIN Character(1) | |
| VIN\_2 | VIN Character(2) | |
| VIN\_3 | VIN Character(3) | |
| VIN\_4 | VIN Character(4) | |
| VIN\_5 | VIN Character(5) | |
| VIN\_6 | VIN Character(6) | |
| VIN\_7 | VIN Character(7) | |
| VIN\_8 | VIN Character(8) | |
| VIN\_9 | VIN Character(9) | |
| VIN\_10 | VIN Character(10) | |
| VIN\_11 | VIN Character(11) | |
| VIN\_12 | VIN Character(12) | |
| TOW\_VEH | Vehicle Trailing | |
| J\_KNIFE | Jackknife |  |
| MCARR\_I1 | MCID Issuing Authority | |
| MCARR\_I2 | MCID Identification Number | |
| MCARR\_ID | Motor Carrier Identification Number | |
| GVWR | Gross Vehicle Weight Rating | |
| V\_CONFIG | Vehicle Configuration | |
| CARGO\_BT | Cargo Body Type | |
| HAZ\_INV | Hazardous Materials Involvement/Placard-HM1 -Involvement | |
| HAZ\_PLAC | Hazardous Materials Involvement/Placard-HM2 Placard | |
| HAZ\_ID | Hazardous Materials Involvement/Placard- HM3 Identification Number | |
| HAZ\_CNO | Hazardous Materials Involvement/Placard-HM4 Class Number | |
| HAZ\_REL | Hazardous Materials Involvement/Placard-HM5 Released | |
| BUS\_USE | Bus Use |  |
| SPEC\_USE | Special Use | |
| EMER\_USE | Emergency Use | |
| TRAV\_SP | Travel Speed | |
| UNDERIDE | Underride/Override | |
| ROLLOVER | Rollover Type | |
| ROLINLOC | Location of Rollover | |
| IMPACT1 | Areas of Impact - Initial Contact Point | |
| DEFORMED | Extent of Damage | |
| TOWED | Vehicle Removal | |
| M\_HARM | Most Harmful Event | |
| VEH\_SC1 | Vehicle Related Factors (1) | |
| VEH\_SC2 | Vehicle Related Factors (2) | |
| FIRE\_EXP | Fire Occurrence | |
| DR\_PRES | Driver Presence | |
| L\_STATE | Driver License State | |
| DR\_ZIP | Driver ZIP Code | |
| L\_STATUS | Non-CDL License Status | |
| L\_TYPE | Non-CDL License Type | |
| CDL\_STAT | Commercial MV License Status | |
| L\_ENDORS | Compliance with CDL Endorsements | |
| L\_COMPL | License Compliance with Class of Vehicle | |
| L\_RESTRI | Compliance with License Restrictions | |
| DR\_HGT | Driver Height | |
| DR\_WGT | Driver Weight | |
| PREV\_ACC | Previous Recorded Crashes | |
| PREV\_SUS | Previous Recorded Suspensions and Revocations | |
| PREV\_DWI | Previous DWI Convictions | |
| PREV\_SPD | Previous Speeding Convictions | |
| PREV\_OTH | Previous Other Moving Violation Convictions | |
| FIRST\_MO | Date of First Crash, Suspension or Conviction (Month) | |
| FIRST\_YR | Date of First Crash, Suspension or Conviction (Year) | |
| LAST\_MO | Date of Last Crash, Suspension or Conviction (Month) | |
| LAST\_YR | Date of Last Crash, Suspension or Conviction (Year) | |
| SPEEDREL | Speeding Related | |
| DR\_SF1 | Driver Related Factors (4 choices) | |
| DR\_SF2 | Driver Related Factors (4 choices) | |
| DR\_SF3 | Driver Related Factors (4 choices) | |
| DR\_SF4 | Driver Related Factors (4 choices) | |
| VTRAFWAY | Trafficway Description | |