

CODEBOOK FOR FARSCS_4.SAS7BDAT
(Fatal crash involvements)

Observations: 113,243
Variables: 85

Alphabetic List of Variables

- ABS – Antilock brake system (4-wheel) Type: Numeric8
0 Not ABS-equipped
.01-.99 proportion of vehicles with ABS (optional but cannot be identified for an individual vehicle from the 1st 12 digits of its VIN)
1 ABS-equipped
- AWD – All-wheel-drive or 4-wheel-drive Type: Numeric8
0 FWD or RWD – i.e., not equipped with AWD or 4-wheel-drive
.01-.99 proportion of vehicles with AWD or 4-wheel-drive (optional but cannot be identified from 1st 12 digits of VIN)
1 equipped with AWD or 4-wheel-drive
- BLOCKER – Voluntary vehicle-to-vehicle compatibility certification Type: Numeric8
0 Not certified (or not a pickup truck or SUV)
1 Certified, Option 1 (bumper height overlap with passenger cars)
2 Certified, Option 2 (“blocker beam” or other secondary energy-absorbing structure)
- BOD2 – Passenger car body type Type: Numeric8
0 Not a passenger car
1 2-door convertible
2 2-door coupe or sedan
3 3-door hatchback
4 4-door sedan
5 5-door hatchback
6 Station wagon
- CARS – Number of passenger cars in the crash Type: Numeric8
0 – 44 Number of passenger cars in transport involved in the crash
- CG – Car group Type: Numeric8
1303-64005 Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes
- CGP – Car group codes for merging with Polk data Type: Numeric8
1303-64005 Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes

COMBO – Side air bag with torso/head protection (“combination” bag) Type: Numeric8
 0 Not equipped with combo bags
 .01-.99 proportion of vehicles with combo bags (optional but cannot be identified from 1st 12 digits of VIN)
 .75 Combo bag for driver only
 1 Combo bags for driver and RF passenger (Note: a combo bag is a single bag that protects the head and torso; separate curtains and torso bags are coded CURTAIN=1, TORSO=1, COMBO=0)

COUNTY – County FIPS code Type: Numeric3
 1 – 840 3-digit FIPS code for the county (unmodified FARS variable)

CRSH – Crash type Type: Numeric8
 1 1st-event rollover
 2 Hit fixed object
 3 Hit pedestrian/bike/motorcycle
 4 Hit heavy vehicle (i.e., GVWR ≥ 10,000 pounds)
 5 Hit passenger car of known mass
 6 Hit LTV of known mass and GVWR < 10,000 pounds
 11 Other non-collision (fire, immersion, fell from vehicle,...)
 12 Hit train
 13 Hit animal, working vehicle, or on-road object
 14 Single-vehicle crash, no non-occupants: other/unclear type
 15 Single-vehicle crash involving non-occupants: other/unclear type
 16 Single vehicle: fatal to multiple or other traffic units
 21 Hit car of unknown mass
 22 Hit LTV of unknown mass
 23 Hit “other” type of vehicle (snowmobile, farm equipment, construction machinery,...)
 24 Hit unknown type of vehicle
 25 2-vehicle crash: fatal to non-occupants or parked-vehicle-occupants in addition to, possibly, occupants of vehicles in transport
 31 3+ vehicle crash: fatal only to occupants of vehicles in transport
 32 3+ vehicle crash: fatal to non-occupants or parked-vehicle-occupants in addition to, possibly, occupants of vehicles in transport

CURBWT – Curb weight (pounds) Type: Numeric8
 1799 – 7520 Curb weight in pounds

CURTAIN – Head curtain air bags for front-seat occupants Type: Numeric8
 0 Not equipped with head curtain bags
 .01-.99 proportion of vehicles with curtain bags (optional but cannot be identified from 1st 12 digits of VIN)
 1 Head curtains for driver and RF passenger

CY – Calendar year
 2002 – 2008 Calendar year in which the crash occurred
 Type: Numeric8

DEATHS – Case vehicle occupant fatalities
 0 – 14 Number of occupant fatalities in the case vehicle (unmodified FARS variable)
 Type: Numeric3

DENS3 – County population density
 0.1-66951 Inhabitants per square mile in the county where the crash occurred, based on
 2000 census
 Type: Numeric8

DRVAGE – Driver age
 14 – 96 Age of the driver (unknown or out-of-range excluded)
 Type: Numeric8

DRVMALE – Male driver
 0 Female driver
 1 Male driver (non-reported gender excluded)
 Type: Numeric8

ESC – Electronic stability control
 0 Not ESC-equipped
 .01-.99 proportion of vehicles with ESC (optional but cannot be identified for an
 individual vehicle from the 1st 12 digits of its VIN)
 1 ESC-equipped
 Type: Numeric8

FATALS – Fatalities in the crash
 0 – 14 Total number of fatalities in the crash, including occupants of any vehicles (in
 transport or not-in-transport) and non-occupants (unmodified FARS variable)
 Type: Numeric3

FOOTPRNT – Footprint (square feet)
 34.6 – 81.0 Footprint in square feet (TRAKWDTH X WB_MIN converted to square feet)
 Type: Numeric8

GE10 – GVWR \geq 10,000 pounds
 0 GVWR (gross vehicle weight rating) < 10,000 pounds
 1 GVWR \geq 10,000 pounds
 Type: Numeric8

HARM_EV – First harmful event
 1 – 99 First harmful event in the crash (unmodified FARS variable)
 Type: Numeric3

HIFAT_ST – High-fatality-rate State
 0 One of the 26 States with < 160 crash fatalities per million vehicle registration
 years in 2002-2008
 1 One of the 24 States with > 160 crash fatalities per million vehicle registration
 years in 2002-2008
 Type: Numeric8

HOUR – Hour when the crash occurred
 0 – 24 Hour when the crash occurred, military time (unmodified FARS variable)
 Type: Numeric3

HVYTRKS – Number of heavy vehicles in the crash Type: Numeric8
0 – 28 Number of heavy vehicles in transport involved in the crash

LGT_COND – Light condition Type: Numeric3
1 – 9 Light condition at the time of the crash (unmodified FARS variable)

LTVS – Number of LTVs in the crash Type: Numeric8
0 – 51 Number of LTVs in transport involved in the crash

MAK2 – Vehicle Make Type: Numeric8

- 2 Jeep
- 3 Hummer
- 6 Chrysler
- 7 Dodge
- 9 Plymouth
- 11 Sprinter
- 12 Ford
- 13 Lincoln
- 14 Mercury
- 18 Buick
- 19 Cadillac
- 20 Chevrolet
- 21 Oldsmobile
- 22 Pontiac
- 23 GMC
- 24 Saturn
- 30 Volkswagen
- 32 Audi
- 33 Mini-Cooper
- 34 BMW
- 35 Nissan
- 37 Honda
- 38 Isuzu
- 39 Jaguar
- 41 Mazda
- 42 Mercedes-Benz
- 45 Porsche
- 47 Saab
- 48 Subaru
- 49 Toyota (including Scion)
- 51 Volvo
- 52 Mitsubishi
- 53 Suzuki
- 54 Acura
- 55 Hyundai
- 58 Infiniti

59	Lexus
62	Land-Rover
63	Kia
64	Daewoo

MAXVEHNO – Highest VEH_NO of vehicles hitting non-occupants Type: Numeric8
 1 – 99 Highest VEH_NO of the vehicles that struck and fatally injured a non-occupant

MCYCLES – number of motorcycles in the crash Type: Numeric8
 0 – 6 Number of motorcycles in transport involved in the crash

MINVEHNO – Lowest VEH_NO of vehicles hitting non-occupants Type: Numeric8
 1 – 99 Lowest VEH_NO of the vehicles that struck and fatally injured a non-occupant

MM2 – Make-model Type: Numeric8
 2001-64033 Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes

MMP – Make-model codes for merging with Polk data Type: Numeric8
 2001-64033 Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes

MY – Model year Type: Numeric8
 2000 – 2007 Model year of the case vehicle

M_HARM – Most harmful event Type: Numeric3
 1 – 99 Most harmful event for the case vehicle (unmodified FARS variable)

NITE – Time of day when the crash occurred Type: Numeric8
 0 6:00 a.m. to 6:59 p.m.
 1 7:00 p.m. to 5:59 a.m.

NONOCC – Number of non-occupant fatalities in the crash Type: Numeric8
 0 – 10 Number of non-occupant fatalities in the crash

OBODY – Body type of the other vehicle Type: Numeric8
 1 – 99 Body type of the other vehicle in a 2-vehicle crash (unmodified FARS variable BODY_TYP for the other vehicle)

OCC – Number of occupant fatalities in the crash Type: Numeric8
 0 – 14 Number of occupant fatalities in the crash (including occupants of other vehicles in transport)

OCG2 – Car group (or LTV group) of the other vehicle Type: Numeric8
1008-99999 5-digit VIN-derived vehicle group (CG) of the other vehicle in a 2-vehicle crash (Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes)

OCURBWT – Curb weight (pounds) of the other vehicle Type: Numeric8
190 – 7520 Curb weight in pounds of the other vehicle in a 2-vehicle crash

OMAKMOD – FARS make and model of the other vehicle Type: Numeric8
1005-99999 Make and model of the other vehicle in a 2-vehicle crash (unmodified FARS variable MAK_MOD for the other vehicle)

OMM2 – Make and model of the other vehicle Type: Numeric8
1005-99999 5-digit VIN-derived make-model (MM2) of the other vehicle in a 2-vehicle crash (Download 10Formats2007.sas, CarGroup2007.docx, or LTVGroup2007.docx for valid codes)

OMOD_YR – Model year of the other vehicle Type: Numeric8
1930 – 9999 Model year of the other vehicle in a 2-vehicle crash (unmodified FARS variable MOD_YEAR for the other vehicle)

OTHVEH – Number of other-type vehicles in the crash Type: Numeric8
0 – 1 Number of other-type vehicles (snowmobiles, farm equipment, ...) in transport involved in the crash

OVIN – VIN of the other vehicle Type: Character12
12-character VIN of the other vehicle in a 2-vehicle crash (unmodified FARS variable VIN for the other vehicle)

OVINA –VINA_MOD of the other vehicle Type: Character3
VINA_MOD of the other vehicle in a 2-vehicle crash (unmodified FARS variable VINA_MOD for the other vehicle)

OVTYP – Type of the other vehicle in a 2-vehicle crash Type: Numeric8

1	Passenger car
2	LTV
3	Heavy vehicle
4	Motorcycle
5	Other (snowmobile, farm equipment, construction machinery,...)
9	Unknown

OVTYP2 – Type (detailed) of the other vehicle in a 2-vehicle crash Type: Numeric8

- 1 Passenger car
- 2.1 CUV
- 2.2 Minivan
- 2.3 Astro/Safari/Aerostar
- 2.4 Truck-based LTV
- 3 Heavy vehicle
- 4 Motorcycle
- 5 Other (snowmobile, farm equipment, construction machinery,...)
- 9 Unknown

OWTFLAG – Source of curb weight for the other vehicle Type: Numeric8

- 0 Good VIN, MY 1985-2007, weight in database
- 1 Good VIN, filled in some gaps in MY 1985-1999 database
- 2 MM2 not defined, but FARS supplies a VIN_WGT
- 3 MY 1981-1984 car with MM2 decoded, use FARS VIN_WGT
- 4 Weights in database for RV cutaways, etc. excluded body; reset to 5000
- 5 Good VIN, MY 1981-1984 or 2008-2009, use 1985 or 2007 weights
- 6 Filled in approximate weight based on MAK_MOD
- 7 Car or LTV, could not define a weight
- 9 Not a car or LTV

PARK – Number of non-transport-vehicle-occupant fatalities Type: Numeric8

- 0 – 4 Number of non- transport-vehicle-occupant fatalities in the crash

PASSIVE – Frontal air bags Type: Numeric8

- 0 Not equipped with frontal air bags
- 2 Dual frontal air bags
- 3 Dual frontal air bags with a manual on-off switch for the RF passenger
- 9 Unknown if equipped and/or what type

RDSUR – Road surface condition Type: Numeric8

- 0 Dry
- 1 Wet, muddy, or oily
- 2 Snow, ice, or slush
- 9 Unknown

ROAD_FNC – Roadway function class Type: Numeric3

- 1 –99 Roadway function class (unmodified FARS variable)

ROLLCURT – Head curtain air bags designed to deploy in rollovers Type: Numeric8

- 0 Not equipped with rollover curtain bags
- .01-.99 proportion of vehicles with rollover curtain bags (optional but cannot be identified from 1st 12 digits of VIN)
- 1 Rollover curtains for driver and RF passenger (Note: CURTAIN should also be coded 1)

TRKTYP – LTV type (case vehicle)	Type: Numeric8
0 Passenger car	
1 Compact pickup truck (download LTVGroup2007.docx for more information)	
2 Full-sized pickup truck with GVWR < 10,000 pounds	
3 Compact SUV	
4 Full-sized SUV	
5 Minivan	
6 Full-sized van with GVWR < 10,000 pounds	
7 Pickup-car (e.g., Subaru Baja)	
12 300-series pickup truck with GVWR ≥ 10,000 pounds	
16 300-series van with GVWR ≥ 10,000 pounds	
TW_F – Track width, front wheels (inches)	Type: Numeric8
54.5 – 71.6 Front track width, in inches	
TW_R – Track width, rear wheels (inches)	Type: Numeric8
52.2 – 75.8 Rear track width, in inches	
UNKVEH – Number of unknown-type vehicles in the crash	Type: Numeric8
0 – 5 Number of unknown-type vehicles in transport involved in the crash	
V1 – 1 st character of the VIN	Type: Character1
V2 – 2 nd character of the VIN	Type: Character1
V3 – 3 rd character of the VIN	Type: Character1
V4 – 4 th character of the VIN	Type: Character1
V5 – 5 th character of the VIN	Type: Character1
V6 – 6 th character of the VIN	Type: Character1
V7 – 7 th character of the VIN	Type: Character1
V8 – 8 th character of the VIN	Type: Character1
V11 – 11 th character of the VIN	Type: Character1
V12 – 12 th character of the VIN	Type: Character1
VEHAGE – Vehicle age in years (CY – MY)	Type: Numeric8
0 – 8 Age of the case vehicle (years)	
VEH_NO – Vehicle ID number	Type: Numeric3
1 – 91 Vehicle ID number (unmodified FARS variable)	
VE_FORMS – Number of vehicle forms submitted	Type: Numeric3
1 – 92 Number of vehicle-in-transport forms submitted for this crash (unmodified FARS variable)	
VINA_MOD	Type: Character3
3-character make-model code (unmodified FARS variable)	

