FARS ANALYTIC REFERENCE GUIDE 1975 TO 2002

By

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Preface

The Fatality Analysis Reporting System (FARS) formally referred to as the Fatal Accident Reporting System, is a collection of files documenting all qualifying fatal crashes since 1975 that occurred within the 50 states, the District of Columbia, and Puerto Rico. To be included in this census of crashes, a crash had to involve a motor vehicle traveling on a trafficway customarily open to the public, and must result in the death of a person (occupant of a vehicle or a nonmotorist) within 30 days of the crash. The purpose of this document is to provide an analytic reference to individuals who wish to conduct crash and vehicle research using the FARS data.

Since 1975 a comprehensive coding manual has been produced each year. The coding manual provides a set of written instructions to every FARS analyst on how to transfer the data from a police accident report (PAR) to the FARS system. Since 1975, the FARS has undergone several changes. To augment the coding manual, classes are held each year to train the coders and a system wide FARS meeting is held to encourage uniform coding for later analysis.

By default the coding manual has taken on an additional role. Namely, an aid to the analytic researcher. When doing longitudinal analysis, that is analysis across several years, to ensure accuracy, each variable of interest must be checked in each year's coding manual. Often experience with the system helps with the research, but errors are still possible.

An unsuspecting analyst might assume that if one had a complete set of coding manuals and sufficient diligence, one could produce the desired results. Unfortunately, the data in the current files available for analysis do not correspond with the historical coding manuals. This is especially true for the early years of the program.

A complete set of consistent coding manuals, unfortunately, does not organize the data for the purpose of analysis. A FARS analyst needs the data functionally organized. Within any functional category one needs to know what data are available and how to access them. There is a serious question of organization. Should the functional categories be organized across the three major files, accident, vehicle and person? Or should the functional categories be organized for each of the three files? There are advantages to both. Experience suggests that the preference of most analysts is to work with a single file if possible, thus the second approach has been adopted.

The collection of the FARS data for over twenty-five years has been an outstanding accomplishment. The purpose behind collecting these data, however, is to make them available for future analysis. This analytic reference guide should improve the usefulness and accessibility of the data. However, it can only be, an ongoing work in progress, with room for improvement.

The information contained in this analytic reference is not complete. For example, only a brief section on

the VIN has been included. The information reported seems to be consistent for all automobile VIN's across years. It does not address other types of vehicles. The full VIN interpretation requires an additional manual and is beyond the scope of this text.

Several SAS® computer programs were developed to analyze the variables, to check for inconsistency across years. The programs worked well, but were not automatic and may not have identified all inconsistencies.

Many useful points of cross reference have been included. However, it is far from complete. It would be an error to assume that all instances of a heading are included in the cross reference. It is rather a suggestion on topics that one should consider when one starts to conduct research.

Each edition corrects known errors of pervious editions and your help is requested to identify problems with the current publication. With the exception of personal notes, there is no reason to keep older copies of this reference guide. All material, in earlier editions, has been retained.

Thank you for your interest in highway traffic safety.

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Instructions

The FARS analytic reference guide has seven sections. Three of these sections address each of the three principle files, namely the accident, vehicle and person files. Each of these three sections is divided into three subsections. The first subsection is a cross tabulation or index of the variables and key words/topics for the file. The variables and key words are in alphabetical order in the first column. The names of the variables are in upper case, while the key words are in lower case. The second subsection lists all of the variables by year for the file. The third subsection contains detailed information on each of the variables.

In the first subsection, for a given file, to the right of the FARS variables and key words are one or more headings of the segments and corresponding page numbers, which provides the information about the variable, key words or associated variables to be considered. The third subsections are arranged alphabetically by heading. Each of the variables in a segment is addressed in reverse chronological order, that is most recent items first. The dates, for which the variable is defined, appear along with the allowable values for each time period. Often similar variables will appear in the same segment. This is particularly true of variables that have had a name change over time. For example, the variable to examine roadway function, that is interstate vs local road et al, has been ROAD_FNC since 1981. However from 1975 to 1980 the variable CL_TWAY was used. In this document they are in the same segment, Roadway Function Class, and CL_TWAY directly follows ROAD_FNC.

There are a total of seven sections within this reference guide, namely the preface/instructions, list of variables, accident file, vehicle file, person file, compact disk comments, and references. The page numbers for the pre**f**ace/instructions start with "F-" followed by a lower case Roman numeral. The list of varia**b**les is numbered with "B-" followed by an Arabic numeral. The three file sections start with "A-", "V-", and "P-" respectively followed by either a lower case Roman numeral or an Arabic numeral. Roman numerals are used for the first and second subsections, i.e. the list of variables/cross tabulations and the list of variables by year, at the beginning of each file section. Arabic numerals number the files' third subsection. The section on the **c**ompact disk is numbered with "C-" followed by an Arabic numeral. The final section is the **r**eferences, where each page is numbered with a "R-" followed by an Arabic numeral.

This guide has documentation on variables that appear on more than one file, i.e. at least two of the Accident, Vehicle, or Person files. This reflects the SAS® data structure at the National Center for Statistics and Analysis and may not correspond to the structure of the data at any other site. The exception is the data on the vehicle model which is in both the Vehicle and Person files. The vehicle model data requires 49 pages of this document and, for the sake of brevity, only appears once in the Vehicle file. The popular ASCII sets of data, on CD's, do not repeat variables. If the ASCII data sets are converted to SAS® using the supplied conversion software, the data sets will have the data structure of the National Center for Statistics and Analysis.

When appropriate, notes, often suggested by users, are included in the documentation to guide researchers in the use of these data. The notes often highlight idiosyncrasies of these data, which have been uncovered

during analysis and may prevent unprofitable avenues of research.

For any variable critical to the analysis being conducted, it is good practice to examine the variable by state.

THE FARS VARIABLES

The following is a list of variables within the FARS data system. The variables are listed in alphabetical order.

FARS VARIABLES	ACCIDENT VARIABLES	VEHICLE VARIABLES	PERSON VARIABLES
AGE			AGE
AIR_BAG			AIR_BAG
ALC_DET			ALC_DET
ALC_RES			ALC_RES
ALIGNMNT	ALIGNMNT		
ARR_HOUR	ARR_HOUR		
ARR_MIN	ARR_MIN		
ATST_TYP			ATST_TYP
AUT_REST			AUT_REST
AVOID		AVOID	
AXLES		AXLES	
BODY_TYP		BODY_TYP	BODY_TYP
BUS_USE		BUS_USE	
CARGO_BT		CARGO_BT	
CDL_STAT		CDL_STAT	
CERT_NO			CERT_NO
CF1	CF1		
CF2	CF2		
CF3	CF3		
CHAS_TR		CHAS_TR	
CITY	CITY		
CL_TWAY	CL_TWAY		
COUNTY	COUNTY		COUNTY
C_M_ZONE	C_M_ZONE		
DAY	DAY		DAY
DAY_WEEK	DAY_WEEK		
DEATHS		DEATHS	
DEATH_DA			DEATH_DA
DEATH_HR			DEATH_HR
DEATH_MN			DEATH_MN
DEATH_MO			DEATH_MO
DEATH_TM			DEATH_TM
DEATH_YR			DEATH_YR
DRINKING			DRINKING
DEFORMED		DEFORMED	

FARS VARIABLES	ACCIDENT VARIABLES	VEHICLE VARIABLES	PERSON VARIABLES
DRUGRES1			DRUGRES1
DRUGRES2			DRUGRES2
DRUGRES3			DRUGRES3
DRUGS			DRUGS
DRUGTST1			DRUGTST1
DRUGTST2			DRUGTST2
DRUGTST3			DRUGTST3
DRUG_DET			DRUG_DET
DRUNK_DR	DRUNK_DR		
DR_CF1		DR_CF1	
DR_CF2		DR_CF2	
DR_CF3		DR_CF3	
DR_CF4		DR_CF4	
DR_DRINK		DR_DRINK	
DR_HGT		DR_HGT	
DR_PRES		DR_PRES	
DR_TRAIN		DR_TRAIN (75-86)	
DR_WGT		DR_WGT	
DR_ZIP		DR_ZIP	
EJECTION			EJECTION
EJ_PATH			EJ_PATH
EMER_USE			EMER_USE
EXTRICAT			EXTRICAT
EMER_USE		EMER_USE	
FATALS	FATALS		
FED_AID	FED_AID		
FIRE_EXP		FIRE_EXP	FIRE_EXP
FIRST_MO		FIRST_MO	
FIRST_YR		FIRST_YR	
FLDCD_TR		FLDCD_TR	
GVWR		GVWR	
HARM_EV	HARM_EV	HARM_EV	HARM_EV
HAZ_CARG		HAZ_CARG	
HISPANIC			HISPANIC
HIT_RUN	HIT_RUN	HIT_RUN	
HOSPITAL			HOSPITAL
HOSP_HR	HOSP_HR		
HOSP_MN	HOSP_MN		

HOUR	HOUR		HOUR
IMPACT1		IMPACT1	IMPACT1
IMPACT2		IMPACT2	IMPACT2
IMPACTS		IMPACTS	IMPACTS
FARS	ACCIDENT	VEHICLE	PERSON
VARIABLES	VARIABLES	VARIABLES	VARIABLES
INJ_SEV			INJ_SEV
J_KNIFE		J_KNIFE	
LAG_HRS			LAG_HRS
LAG_MINS			LAG_MINS
LAND_USE	LAND_USE		
LAST_MO		LAST_MO	
LAST_YR		LAST_YR	
LATITUDE	LATITIUDE		
LGT_COND	LGT_COND		
LOCATION			LOCATION
LONGITUD	LONGITUD		
L_CL_VEH		L_CL_VEH	
L_COMPL		L_COMPL	
L_ENDORS		L_ENDORS	
L_RESTRI		L_RESTRI	
L_STATE		L_STATE	
L_STATUS		L_STATUS	
MAKE		MAKE	MAKE
MAK_MOD		MAK_MOD	MAK_MOD
MAN_COLL	MAN_COLL	MAN_COLL	MAN_COLL
MAN_RES			MAN_RES
MCARR_ID		MCARR_ID	
MCYCL_DS		MCYCL_DS	MCYCL_DS
MCYCL_TY		MCYCL_TY	
MILEPT	MILEPT		
MINUTE	MINUTE		MINUTE
MODEL		MODEL	
MOD_YEAR		MOD_YEAR	MOD_YEAR
MONTH	MONTH	MONTH	MONTH
M_HARM		M_HARM	
NHS	NHS		
NOT_HOUR	NOT_HOUR		
NOT_MIN	NOT_MIN		
NO_LANES	NO_LANES		

N_MOT_NO			N_MOT_NO
OCUPANTS		OCUPANTS	
OWNER		OWNER	
PAVE_TYP	PAVE_TYP		
PEDS	PEDS		
PERSONS	PERSONS		
FARS	ACCIDENT	VEHICLE	PERSON
VARIABLES	VARIABLES	VARIABLES	VARIABLES
PER_NO			PER_NO
PER_TYP			PER_TYP
PREV_ACC		PREV_ACC	
PREV_DWI		PREV_DWI	
PREV_OTH		PREV_OTH	
PREV_SPD		PREV_SPD	
PREV_SUS		PREV_SUS	
PROFILE	PROFILE		
P_CF1			P_CF1
P_CF2			P_CF2
P_CF3			P_CF3
RACE			RACE
RAIL	RAIL		
REG_STAT		REG_STAT	
REL_JUNC	REL_JUNC		
REL_ROAD	REL_ROAD		
REST_USE			REST_USE
ROAD_FLO	ROAD_FLO		
ROAD_FNC	ROAD_FNC		ROAD_FNC
ROLLOVER		ROLLOVER	ROLLOVER
ROUTE	ROUTE		
SCH_BUS	SCH_BUS		SCH_BUS
SEAT_POS			SEAT_POS
SER_TR		SER_TR	SER_TR
SEX			SEX
SPEC_USE		SPEC_USE	SPEC_USE
SP_JUR	SP_JUR		
SP_LIMIT	SP_LIMIT		
STATE	STATE	STATE	STATE
ST_CASE	ST_CASE	ST_CASE	ST_CASE
SUR_COND	SUR_COND		
TA_1_CL	TA_1_CL		

TEST_RES			TEST_RES
TOWAWAY		TOWAWAY	
TOW_VEH		TOW_VEH	TOW_VEH
TOXCLGY			TOXCLGY
TRAF_FLO	TRAF_FLO		
TRA_CONT	TRA_CONT		
TRAV_SP		TRAV_SP	
TWAY_FLO	TWAY_FLO		
FARS	ACCIDENT	VEHICLE	PERSON
VARIABLES	VARIABLES	VARIABLES	VARIABLES
TWAY_ID	TWAY_ID		
T_CONT_F	T_CONT_F		
UNDERRIDE		UNDERRIDE	UNDERRIDE
VEHICLES	VEHICLES		
VEH_CF1		VEH_CF1	
VEH_CF2		VEH_CF2	
VEH_MAN		VEH_MAN	
VEH_NO		VEH_NO	VEH_NO
VE_FORMS	VE_FORMS	VE_FORMS	VE_FORMS
VIN		VIN	
VINA_MOD		VINA_MOD	VINA_MOD
VIN_BT		VIN_BT	VIN_BT
VIN_LNGT		VIN_LNGT	
VIN_WGT		VIN_WGT	VIN_WGT
VIN_1		VIN_1	
VIN_2		VIN_2	
VIN_3		VIN_3	
VIN_4		VIN_4	
VIN_5		VIN_5	
VIN_6		VIN_6	
VIN_7		VIN_7	
VIN_8		VIN_8	
VIN_9		VIN_9	
VIN_10		VIN_10	
VIN_11		VIN_11	
VIN_12		VIN_12	
VIOLCHG1		VIOLCHG1	
VIOLCHG2		VIOLCHG2	
VIOLCHG3		VIOLCHG3	
VIOL_CHG		VIOL_CHG	

V_CONFIG		V_CONFIG	
WEATHER	WEATHER		
WGTCD_TR		WGTCD_TR	WGTCD_TR
WHLBS_LG		WHLBS_LG	WHLBS_LG
WHLBS_SH		WHLBS_SH	WHLBS_SH
WORK_INJ			WORK_INJ
YEAR	YEAR		

THE ACCIDENT FILE

Cross Tabulation

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ALIGNMNT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ARR_HOUR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B
ARR_MIN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B
CF1..CF3	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	C	C	C
CITY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CL_TWAY	A	A	A	A	A	A		B	B	B	B	B																
COUNTY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C_M_ZONE						A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
DAY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DAY_WEEK	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DRUNK_DR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FATALS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FED_AID								A	A	A	A	A	B	B	B	B	B	B	B									
HARM_EV	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
HIT_RUN	A	A	B	B	B	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	D
HOSP_HR													A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B
HOSP_MN													A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B
HOUR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LAND_USE	A	A	A	A	A	A	A	A	A	A	A	A																

LATITUDE																									A	A	A	A
FARS ACCIDENT FILE VARIABLES																													
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	
LGT_COND	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
LONGITUD																									A	A	A	A	
MAN_COLL	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	
MILEPT								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
MINUTE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
MONTH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
NHS																				A	A	A	A	A	A	A	A	A	
NOT_HOUR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
NOT_MIN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
NO_LANES	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
PAVE_TYP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
PEDS																	A	A	A	A	A	A	A	A	A	A	A	A	
PERSONS	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
PROFILE	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
RAIL					A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
REL_JUNC	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	
REL_ROAD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	C	C	
ROAD_FLO	A	A	A	A	A	A	A																						

ROAD_FNC							A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
ROUTE													A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS ACCIDENT FILE VARIABLES																													
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	
SCH_BUS			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
SP_JUR	A	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
SP_LIMIT	A	A	B	B	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
STATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
ST_CASE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
SUR_COND	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
TA_1_CL				A	A	A	A																						
TRAF_FLO													A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	
TRA_CONT	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	
TWAY_FLO								A	A	A	A	A																	
TWAY_ID								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	
T_CONT_F								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
VEHICLES		A	A	A	A	A	A																						
VE_FORMS		A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
WEATHER	A	A	A	A	A	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
YEAR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	

Atmospheric Conditions

1982 and later

Variable = WEATHER

Values =
1 No Adverse Atmospheric Conditions
2 Rain
3 Sleet
4 Snow
5 Fog
6 Rain and Fog
7 Sleet and Fog
8 Other: Smog, Smoke, Blowing Sand or Dust
9 Unknown

1980 to 1981

Values =
1 Normal
2 Rain
3 Sleet
4 Snow
5 Fog
8 Other: Smog, Smoke, Blowing Sand or Dust
9 Unknown

1975 to 1979

Values =
1 Clear
2 Rain
3 Sleet
4 Snow
7 Cloudy
9 Unknown

Note: The original documentation, for 1979 and earlier data are not consistent with the current data file structure. The codes above will provide the desired results.

See Roadway Surface Conditions

City County

1975 and later

Variable = CITY

Values = Blanks
0000 Not Applicable
0001-9996 Use GSA Geographical Codes
9997 Other
9999 Unknown

Variable = COUNTY

Values = Blanks
000 Not Applicable
001-996 Use GSA Geographical Codes
997 Other
999 Unknown

Note GSA geographical codes are some what stable. Occasionally one code will be divided into two codes.

If you need a copy of the current city/county codes contact GSA at (202) 501-0176 or (202) 219-0077.

Construction/Maintenance Zone

The construction maintenance zone variable identifies crashes that occurred in a construction or maintenance zone. Use of the codes does not imply that the crash was caused by the construction or maintenance activity or zone.

1982 and later

Variable = C_M_ZONE

Values = Blank
0 None
1 Construction
2 Maintenance
3 Utility
4 Work Zone, Type Unknown

1980 to 1881

Variable = C_M_ZONE

Values = 0 None
1 Construction
2 Maintenance
3 Construction or Maintenance

1975 to 1979

Variable = C_M_ZONE

The variable exists in the data sets but has not been initialized. The data were not collected.

Date (of the crash/accident)

1975 and later

Variable = DAY (Also in the PERSON file)

Values = 01-31 The Day of the Month of the Crash

Variable = MONTH (Also in the PERSON file and since 1995 in the VEHICLE file)

Values = 01-12 The Month of the Crash 1 = January ... 12 = December

Variable = DAY_WEEK (This variable has been calculated based on the year, month, and day)

Values =
1 Sunday
2 Monday
3 Tuesday
4 Wednesday
5 Thursday
6 Friday
7 Saturday
9 Unknown

Problems have arisen when using the DAY_WEEK variable in files from the years 1983-1985.

1998 and later

Variable = YEAR

Values = The year in which the crash took place. (**4** digits, i.e. 1999)

1975 to 1997

Variable = YEAR

Values = The year in which the crash took place. (**2** digits, i.e. 87)

(Continued on Next Page)

Date (of the crash/accident Continued)

Holidays - Note: The length of a "FARS holiday" depends on the day on which the holiday occurs. NHTSA uses the following times for holiday analysis:

DAY OF HOLIDAY	TIME PERIOD USED FOR ANALYSIS
Sunday or Monday	6:00 p.m. Friday to 5:59 a.m. Tuesday
Tuesday	6:00 p.m. Friday to 5:59 a.m. Wednesday
Wednesday	6:00 p.m. Tuesday to 5:59 a.m. Thursday
Thursday	6:00 p.m. Wednesday to 5:59 a.m. Monday
Friday or Saturday	6:00 p.m. Thursday to 5:59 a.m. Monday

Drunk Driver

1975 and later

Variable = DRUNK_DR

Values = The number of drunk drivers involved in the fatal crash

This is a derived variable. Data from the vehicle file are analyzed and if there is sufficient information to conclude that a driver was drunk, i.e., if the BAC is positive, or if the police reported alcohol involvement, then the driver is counted as a drunk driver. A driver being charged with an alcohol violation by itself, does not have the driver counted as a drunk driver. Note that alcohol data are often missing. For that reason this variable may under count the actual number of drunk drivers. For detailed analysis of alcohol involvement, the alcohol files should be used.

A crash is alcohol involved if a driver, pedestrian or pedalcyclist involved in the crash has 1) police-reported alcohol involvement or 2) positive alcohol test result.

From 1975 to 1993 the maximum number of drunk drivers was 6. Virtually all crashes have no more than two drunk drivers.

Two useful partitions of this variable are:
1) no drunk drivers, one or more drunk drivers involved and
2) no drunk drivers, one drunk driver, multiple drunk drivers

In the early years of FARS, especially 1975 and 1976, the alcohol data must be used with care. In these two years no drunk drivers were identified for the state of North Dakota. In 1975/76 Alabama, Mississippi, New Mexico, North Carolina, Texas, and West Virginia have a reported drunk driver rate for fatal crashes of less than five percent. In 1979 these data, from these states, report a drunk driver rate for fatal crashes between 18.5 percent and 43.0 percent.

Fatalities

1975 and later

Variable = FATALS

Values = Number of fatalities that occurred in the crash.

This variable should have a value of at least one. In 1985, 1981, 1978 and 1975, on rare occasions the value is set at zero. A program statement similar to:
"IF (FATALS EQ 0) THEN FATALS = 1" should help correct the problem. One can reason that at least one fatality must have occurred in the crash or else it would not be listed in FARS. However, it is possible that more than one fatality occurred in one or more of these crashes.

Note that the variable DEATHS under the heading Fatalities, in the Vehicle file, provides the number of fatalities in each vehicle involved in the crash.

Fatality Counts

One is often required to count the number of fatalities that have a given set of attributes that are contained in the vehicle or person files. For example, to count the number of crashes where the driver was drowsy, sleepy, asleep, or fatigued. The drowsy driver information is found in the vehicle file using the related factors - driver level variables, DR_CF1 ... DR_CF4. If one does a conventional merge of the accident file with the vehicle file and uses the proc freq to obtain the frequency/counts one will get a count of the vehicles with a drowsy driver not a count of the crashes with a drowsy driver. The SAS® code below will provide the correct count for 1992 data. Note in 1992 there were only three diver level related factors DR_CF1, DR_CF2, and DR_CF3.

```
LIBNAME FARS92 'enter the path name for the FARS data here';

/*  THIS PROGRAM COUNTS THE NUMBER OF FATALITIES
FOR 1992 THAT INVOLVED A SLEEPY, FATIGUED OR DROWSY DRIVER */

DATA VEH;
SET FARS92.VEHICLE (KEEP=ST_CASE DR_CF1 DR_CF2 DR_CF3);
        BY ST_CASE;  /*REQUIRED TO GET FIRST.ST_CASE & LAST.ST_CASE*/
        IF FIRST.ST_CASE THEN COUNT =0;
/*RETAIN DOES NOT RESET COUNT TO ZERO UNTIL THERE IS A NEW ST_CASE*/
        RETAIN COUNT;
IF ((DR_CF1 EQ 1) OR (DR_CF2 EQ 1) OR (DR_CF3 EQ 1)) THEN COUNT =1;
        IF LAST.ST_CASE AND (COUNT EQ 1) THEN OUTPUT;

DATA ACC;
SET FARS92.ACCIDENT (KEEP = ST_CASE FATALS);

DATA ACC_VEH;
        MERGE ACC (IN=A) VEH (IN=V);
        BY ST_CASE;
        IF A AND V;

/*  THE VARIABLE _ONE_ IS SET TO 1 EVERY TIME A CRASH INVOLVES A
DROWSY DRIVER */
        _ONE_ = 1;

PROC FREQ DATA = ACC_VEH;
        TABLES _ONE_;
/*  THE VARIABLE _ONE_ IS MULTIPLIED BY FATALS, THE NUMBER OF
FATALITIES INVOLVED IN THE CRASH  */
```

```
WEIGHT FATALS;  RUN;
```

Federal Aid System

1994 and later

Variable = NHS

Values =
0 This Section is Not on the National Highway System
1 This Section is on the National Highway System
9 Unknown

1987 to 1993

Variable = FED_AID

Values =
1 Interstate
2 Federal Aid Primary (other than interstate)
3 Federal Aid Urban
4 Federal Aid Secondary (rural only)
5 Non-Federal Aid
9 Unknown

1982 to 1986

Variable = FED_AID

Values =
1 Interstate
2 Other Federal Aid Primary
3 Federal Aid Secondary
4 Federal Aid Urban Arterials
5 Federal Aid Urban Collectors
6 Non-Federal Aid Arterials
7 Non-Federal Aid Collectors
8 Non-Federal Aid Local
9 Unknown

(Continued on Next Page)

Federal Aid System Continued

1978 to 1981

Variable = TA_1_CL

Values =
1 Interstate
2 Other Federal Aid Primary
3 Federal Aid Secondary
4 Federal Aid Urban Arterials
5 Federal Aid Urban Collectors
6 Non-Federal Aid Arterials
7 Non-Federal Aid Collectors
8 Non-Federal Aid Local
9 Unknown

1975 to 1977

Variable = TA_1_CL

The variable is in the file, but has not been initialized, i.e. no data for this variable. This may be due to the extensive revisions by the Federal Highway Administration (FHWA) in 1977, which caused extensive modifications to this field for all data before 1978.

Global Position

1999 and later

Variable = LATITUDE

Values = DDMMSSSS
This is character data of numerals not numeric data.

If the value is 12345678 then:

12 are the number of degrees / 88 Not Available / 99 Unknown
34 are the number of minutes / 88 Not Available / 99 Unknown
5678 are the number of seconds with a decimal point between the 6 & 7.
8888 Not Available / 9999 Unknown

88888888 Not available
99999999 Unknown

In 1999 less than 0.5% of the crashes had data for this variable. Suggest that before using this variable that it be examined by state.

Variable = LONGITUD

Values = DDDMMSSSS

If the value is 123456789 then:

123 are the number of degrees / 888 Not Available / 999 Unknown
45 are the number of minutes / 88 Not Available / 99 Unknown
6789 are the number of seconds with a decimal point between the 7 & 8.
8888 Not Available / 9999 Unknown

88888888 Not Available
99999999 Unknown

In 1999 less than 0.5% of the crashes had data for this variable. Suggest that before using this variable that it be examined by state.

Harmful Event

1982 and later

Variables = HARM_EV — First harmful event applies to the crash. The most harmful event variable M_HARM applies to the vehicle. Harmful events are judgement calls of the FARS analysts based on data within the police accident report.

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Thrown or Falling Object
17 Boulder
18 Other Object(not fixed)
19 Building
20 Impact Attenuator/Crash Cushion
21 Bridge Pier or Abutment
22 Bridge Parapet End
23 Bridge Rail
24 Guardrail
25 Concrete Traffic Barrier
26 Other Longitudinal Barrier Type
27 Highway/Traffic Sign Post
28 Overhead Sign Support
29 Luminary/Light Support
30 Utility Pole
31 Other Post, Other Pole, or Other Support
32 Culvert

(Continued on Next Page)

Harmful Event 1982 and later (Continued)

33 Curb
34 Ditch
35 Embankment - Earth
36 Embankment - Rock, Stone, or Concrete
37 Embankment - Material Type Unknown
38 Fence
39 Wall
40 Fire Hydrant
41 Shrubbery
42 Tree
43 Other Fixed Object
44 Pavement Surface Irregularity (1993 only)
45 Transport Device Used as Equipment (Since 1993)
46 Traffic Signal Support
47 Vehicle Occupant Struck or Run Over by Own Vehicle (Since 1997)
48 Collision With Snow Bank (Since 1997)
49 Ridden Animal or Animal Drawn Conveyance (Since 1998)

99 Unknown

ir the irst harmful event variable is used it is often a good idea to construct a two way table of harmful event by state and check for consistency.

(Continued on Next Page)

Harmful Event (Continued)

1975 to 1981

Variables = HARM_EV

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Other Object
17 Bridge or Overpass (1975 to 1978 only)
18 Building
19 Culvert
20 Curb or Wall
21 Divider
22 Embankment
23 Fence
24 Guard Rail
25 Light Support
26 Sign Post
27 Tree/Shrubbery
28 Utility Pole
29 Other Pole/Support
30 Impact Attenuator
31 Other Fixed Object
32 Bridge or Overpass [Passing Under] (1979 to 1981 only)
33 Bridge or Overpass [Passing Over] (1979 to 1981 only)

99 Unknown

Hit-and-Run

1982 and later

Variable = HIT_RUN

Values =
0 No Hit and Run
1 Hit Motor Vehicle in Transport
2 Hit Pedestrian or Non-Motorist
3 Hit Parked Vehicle or Object
4 Occupant is Struck by or Fell From Own Hit-and-Run Vehicle (Since 2002)

1977 to 1981

Variable = HIT_RUN

Values =
0 No Hit and Run
1 Hit Motor Vehicle
2 Hit Non-Motorist
3 Left Scene

1975 to 1976

Variable = HIT_RUN

Values =
0 Not Applicable
1 With Motor Vehicle
2 With Non-Occupant

NOTE: From 1975 to 1981 if no information was known about the Hit-and-Run vehicle and/or driver, the vehicle form and/or driver form were not filled out and were not counted as unknown. Starting in 1982 both a vehicle and a driver form were filled out and the data were identified as unknown. This is why, for example, there were approximately only 20-40 drivers with unknown sex listed in the FARS data set from 1975 to 1981 and 700-1000 drivers with unknown sex from 1982 on.

Light Condition

1980 and later

Variable = LGT_COND

Values =
1 Daylight
2 Dark
3 Dark but lighted
4 Dawn
5 Dusk
9 Unknown

1975 to 1979

Variable = LGT_COND

Values =
1 Daylight
2 Dark
3 Dark but lighted
6 Dawn or Dusk
9 Unknown

For data from 1975 to 1979, if one needs to separate Dawn from Dusk, use the variable HOUR. LGT_COND EQ 6 and 0 LE HOUR LT 12 gives Dawn, LGT_COND EQ 6 and (12 LE HOUR LE 24) gives Dusk.

If LGT_COND is unknown then check the variable HOUR, i.e. the hour of the day when the crash took place. The general rule, when LGT_COND is unknown, is: if 06 LE HOUR LT 18 then the crash was during the day, if (0 LE HOUR LT 6) OR (18 LT HOUR LE 24) then the crash was at night.

Data from 1975 to 1979 do not conform to the original documentation. Dawn or Dusk was originally coded as 4, but has been recorded as 6.

If one needs to separate night from day the following SAS® code, for all years, is suggested.

```
LENGTH TIME_DAY $ 5;
IF LGT_COND EQ 1 THEN TIME_DAY = 'DAY';
ELSE IF (2 LE LGT_COND LE 3) THEN TIME_DAY = 'NIGHT';
ELSE IF (LGT_COND GE 4) AND (6 LE HOUR LE 18) THEN TIME_DAY = 'DAY';
```

```
ELSE IF (LGT_COND GE 4) AND ((0 LE HOUR LT 6) OR (18 LT HOUR LE 24))
        THEN TIME_DAY = 'NIGHT';
```

Manner of Collision - This is repeated in the Vehicle and Person files.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

2002 and later

Variable = MAN_COLL

Values =
- 00 Not Collision with Motor Vehicle in Transport
- 01 Front-to-Rear (Includes Rear-End)
- 02 Front-to-Front (Includes Head-On)
- 03 Angle - Front-to-Side, Same Direction
- 04 Angle - Front-to-Side, Opposite Direction
- 05 Angle - Front-to-Side, Right Angle (Includes Broadside)
- 06 Angle - Front-to-Side/Angle-Direction Not Specified
- 07 Sideswipe - Same Direction
- 08 Sideswipe - Opposite Direction
- 09 Rear-to-Side
- 10 Rear-to-Rear
- 11 Other (End-Swipes and Others)
- 99 Unknown

1978 to 2001

Variable = MAN_COLL

Values =
- 0 Not Collision with Motor Vehicle in Transport
- 1 Rear-End
- 2 Head-On
- 3 Rear-to-Rear
- 4 Angle
- 5 Sideswipe, Same Direction
- 6 Sideswipe, Opposite Direction
- 9 Unknown

(Continued on Next Page)

Manner of Collision (Continued) - This is repeated in the Vehicle and Person files.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

1975 to 1977

Variable = MAN_COLL

Values =
0 Not Collision with Motor Vehicle in Transport
1 Rear-End
2 Head-On
3 Rear-to-Rear
4 Angle
7 Sideswipe (May either be same or opposite direction)
9 Unknown

Note in the original files, from 1975 to 1977 sideswipe was coded as 5 but has since been changed to 7. These years are not consistent with the documentation of the time.

Note: From 1975 to 2001, the manner of collision is totally dependent on the directions of travel of the vehicles involved. The directions of travel of the vehicles is often misunderstood. The direction of a vehicle is determined by the **pre-crash condition** direction of travel. That is just before the vehicle goes out of control. Example 1) Assume two vehicles are heading toward each other on the same roadway, one going north and the other going south. If the south bound vehicle skids on a patch of ice and turns 180° and immediately is struck in the rear by the vehicle going north then the manner of collision is head-on not rear-end. Example 2) Had the vehicle going north sideswiped the south bound vehicle, which after the ice skid was pointed north, the manner of collision would be sideswipe **opposite** direction, even though both vehicles are pointed north at the time of the sideswipe. **The pre-crash condition directions of travel, for both vehicles, determine the outcome.** These examples involve a rotation of a vehicle just before the crash and can account for 20 percent to 30 percent of the coded cases. See "Impact" in the vehicle section of this guide.

Starting in 2002 and later the manner of collision is dependent on the geometry of the points of impact. That is Example 1 above is now coded 01, Front-to-Rear (Includes **Rear-End**) and Example 2, is now coded 07, Sideswipe - **Same** Direction. This is a major change in the MAN_COLL variable. Care must be taken when using this variable over a time period that spans 2001 to 2002.

Milepoint

1982 and later

Variable = MILEPT

Values = 00000 None
Actual to Nearest 0.1 mile (Assumed decimal, e.g., 12345 = 1234.5)
99999 Unknown

Five digits are always coded.

Data not collected prior to 1982.

Non-Motorist Forms Submitted

1991 and later

Variable = PEDS

Values = # of Non-Motorists i.e. any person(s) who is (are) not an occupant of a Motor Vehicle in transport.

1975 to 1990 Data not available

Number of Lanes

1980 and later

Variable = NO_LANES

Values = Blank
1 One lane
2 Two lanes
3 Three lanes
4 Four lanes
5 Five lanes
6 Six lanes
7 Seven or more lanes
9 Unknown

1975 to 1979

Variable = NO_LANES

Values = Blank
1 One lane
2 Two lanes
3 Three lanes
4 Four lanes
5 Five lanes
6 Six or more lanes
9 Unknown

The number of lanes refers to the number of lanes of a continuous cross section of roadway. For example, a local roadway with one lane going north and one lane going south would be coded as 2 lanes. However, if a trafficway is a divided highway, with 2 lanes going north, a median, and 2 lanes going south, then the number of lanes is coded as 2. If a trafficway has 2 lanes going north immediately adjacent to 2 lanes going south, one continuous cross section of roadway, then the number of lanes is coded as 4. This variable can be used with the trafficway flow variable TRAF_FLO to determine the trafficway geometry. For example:
IF (NO_LANES EQ 2) AND (TRAF_FLO EQ 1)
then one has a two lane roadway that is not physically divided, that is what most people think of as a 2 lane road, one lane going in each direction.

Person Forms Submitted

1975 and later

Variable = PERSONS

Values = The number of persons involved in the crash, except for uninjured bus and train passengers. A form describing all other persons involved in a crash, will be filed, i.e. this variable is a count of the persons in the crash.

1982 and later

Note: In the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case with hit-and-runs, the values are coded as unknown.

Example: Between 1982 - 1994, the number of drivers coded with unknown sex fluctuated between 700-1000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons, in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit and run crashes.

1975 to 1981

In the event of a hit-and-run crash, if the vehicle information was not known, then no vehicle form was filled out. Likewise, if no information was known on the person level, usually the driver of the unknown vehicle, then a person level form was not filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Example: From 1975 to 1980, there were 30-40 drivers coded with unknown sex. Approximately 0.05 percent of all drivers involved in fatal crashes. In 1981 the number of drivers with unknown sex rose to over 300, approximately 0.5 percent of all drivers involved in fatal crashes.

Rail Grade Crossing Identifier

1979 and later

Variable = RAIL

Values = Blanks
0000000 Not Applicable
nnnnnnA Six Digits Followed by One Alphabetic Valid F.R.A. Code
9999999 Unknown

Related Factors Accident Level

Note: There are also vehicle level related factors in the vehicle file, VEH_CF1 and VEH_CF2 and driver related factors, also in the vehicle file, namely DR_CF1, DR_CF2, DR_CF3 and (DR_CF4 Since 1997). In addition there are person related factors P_CF1, P_CF2, and P_CF3 in the person file.

Note the FARS coder may have used any of the three variables to code a related factor. One must test all three variables to insure that the selected related factor is included.

Variables = CF1 or CF2 or CF3

1982 and later

Values =

00 None
01 Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls etc.
02 Shoulder Related (Design or Condition Since 2002)
03 Other Construction Created Condition
04 No or Obscured Pavement Marking
05 Surface Under Water
06 Inadequate Construction of Poor Design or Roadway, Bridge, etc.
07 Surface Washed Out (caved in, road slippage)

14 Motor Vehicle in Transport struck by falling cargo or something that came loose from or some thing that was set in motion by a vehicle (Since 1983)
15 Nonoccupant struck by falling cargo, or something came loose from or some thing that was set in motion by a vehicle (Since 1983)
16 Nonoccupant struck vehicle (Since 1983)
17 Vehicle set in motion by nondriver (Since 1983)
18 Date of Accident and Date of EMS Notification were not the same day (Since 1988)
19 Recent previous accident scene nearby (Since 1989)
20 Police Pursuit Involved (Since 1994)
21 Within Designated School Zone (Since 1995)
22 Speed Limit is a Satutory Limit as Recorded or was Determined as This State's "Basic Rule" (Since 1999)

99 Unknown

(Continued on Next Page)

Related Factors (Continued)

Variables = CF1 or CF2 or CF3

1975 to 1981 Except as noted (values 49 - 51 were added starting in 1979)

Values = 00 None

VISION OBSCURED BY:

01 Rain, Snow, Fog, Smoke, Sand, Dust i.e. weather conditions
02 Reflected Glare, Bright Sunlight, Headlights

VISION OBSCURED BY (Continued):

03 Curve, Hill or Other Design Features (including Traffic Signs, Embankments)
04 Building, Billboard, etc.
05 Trees, Crops, Vegetation
06 Moving Vehicle (including Load)
07 Parked Vehicle
08 Other Object Not Classified Above

SWERVING DUE TO:

20 Severe Crosswind
21 Wind from Passing Truck
22 Slippery surface
23 Avoiding Debris or Objects in Road
24 Ruts, Holes, Bumps, in Road
25 Avoiding Animals in Road
26 Avoiding Vehicle in Road
27 Avoiding Phantom Vehicle
28 Avoiding Pedestrian, Pedalcyclist, Other Non-Motorist in Road
29 Avoiding Water, Snow, Oil slick on Road

Note: Starting in 1982, many of the Related Factors Accident Level factors, values 01 - 29, are coded as Related Factors - Driver Level, values 61 - 87, in the vehicle section of the data.

(Continued on Next Page)

ROADWAY FEATURES:

40 Traffic Controls Not Functioning Properly
41 Inadequate Warning of Exits, Lanes Narrowing, Traffic Controls, Etc.
42 Uncontrolled Intersection or Railroad Crossing
43 Shoulder Too Low or High
44 Shoulders too Narrow or no Shoulders for Emergency Use
45 & 46 [These values have been coded but I don't have a definition for them. I suggest you avoid these values.]
47 Other Construction
48 No or Obscured Pavement Markings
49 Surface Underwater (Since 1979)
50 Inadequate construction or poor design of roadway, bridge, etc. (Since 1979)
51 Surface Washed Out (caved in, road slippage) (Since 1979)

99 Unknown

Relation to Junction

1991 and later

Variable = REL_JUNC

Values = NON-INTERCHANGE, i.e., all roadways are on the same level

01 Non-Junction
02 Intersection
03 Intersection Related
04 Driveway, Alley Access, etc.
05 Entrance/Exit Ramp Related
06 Rail Grade Crossing
07 In Crossover
09 Unknown - Non-Interchange

INTERCHANGE AREA, i.e., roadways are on different levels, e.g., a cloverleaf

10 Intersection
11 Intersection Related
12 Driveway Access
13 Entrance/Exit Ramp Related
14 In Crossover
15 Other location in Interchange
19 Unknown, Interchange Area
99 Unknown

1975 to 1990

Variable = REL_JUNC

Values =
1 Non-Junction
2 Intersection
3 Intersection Related
4 Interchange Area
5 Driveway, Alley, Access, Etc.
6 Entrance/Exit Ramp (Since 1978)
7 Rail Grade Crossing (Since 1979)
8 In Crossover (Since 1980)
9 Unknown

Relation to Roadway

1998 and later

Variable = REL_ROAD

Values =
01 On Roadway
02 Shoulder
03 Median
04 Roadside
05 Outside Right-of-way
06 Off Roadway - Location Unknown
07 In Parking Lane
08 Gore
10 Separator
11 Two-way Continuous Left-turn Lane {Since 2001}
(See Trafficway Flow)
99 Unknown

1975 to 1997

Variable = REL_ROAD

Values =
1 On Roadway
2 Shoulder
3 Median
4 Roadside
5 Outside Right-of-way
6 Off Roadway - Location Unknown
7 In Parking Lane (Since 1980)
8 Gore (Since 1982)
9 Unknown

Roadway Alignment

1975 and later

Variable = ALIGNMNT

Values =	1	Straight
	2	Curved
	9	Unknown

1975 to 1976

Note for 1975 and 1976 the data were originally coded differently, but the current 1975 and 1976 files use the values above. This is a case where the original coding charts are misleading.

Roadway Function Class

1987 and later

Variable = ROAD_FNC

Values =
01 Rural Principal Arterial - Interstate
02 Rural Principal Arterial - Other
03 Rural Minor Arterial
04 Rural Major Collector
05 Rural Minor Collector
06 Rural Local Road or Street
09 Rural Unknown

11 Urban Principal Arterial - Interstate
12 Urban Principal Arterial - Other Freeways or Expressways
13 Urban Principal Arterial
14 Urban Minor Arterial
15 Urban Collector
16 Urban Local Road or Street
19 Urban Unknown

99 Unknown

1987 and later

Variable = ROUTE

Values =
1 Interstate
2 U.S. Highway
3 State Highway
4 County Road

LOCAL STREET
5 Township
6 Municipality
7 Frontage Road (Since 1994)

8 Other
9 Unknown

(Continued on Next Page)

Roadway Function Class (Continued)

1981 to 1986

Variable = ROAD_FNC

Values =
1 Principal Arterial - Interstate
2 Principal Arterial - Other Urban Freeways and Expressways
3 Principal Arterial - Other
4 Minor Arterial
5 Urban Collector
6 Major Rural Collector
7 Minor Rural Collector
8 Local Road or Street
9 Unknown

Variable = LAND_USE

Values =
1 Urban
2 Rural
9 Unknown

1975 to 1980

Variable = ROAD_FNC

Values >>> This variable is included in the format, but is not initialized. Do not use it.

1982 to 1986

Variable = CL_TWAY (see LAND_USE next page)

Values =
1 Interstate
2 Other U.S. Route
3 Other State Route
4 County Road
5 Local Street
8 Other Road
9 Unknown

(Continued on Next Page)

Roadway Function Class (Continued)

1981

Variable = CL_TWAY

Data are not available for this variable in 1981

1975 to 1980

Variable = CL_TWAY (see LAND_USE below)

Values =
1 Interstate
2 Other Limited Access
3 Other U.S. Route
4 Other State Route
5 Other Major Artery
6 County Road
7 Local Street
8 Other Road
9 Unknown

1975 to 1980

Variable = LAND_USE

The variable LAND_USE is defined by the Federal Highway Administration (FHWA) and does not necessarily coincide with the U.S. Census Bureau's definition or any other definition of urban or rural. It has been determined that there are errors in the 1975 and 1976 data for this variable; consequently, care should be taken when comparing data over several years.

Values =
1 Urban
2 Rural
9 Unknown

Roadway Profile

1982 and later

Variable = PROFILE

Values =	1	Level
	2	Grade
	3	Hill crest
	4	Sag
	9	Unknown

1975 to 1981

Variable = PROFILE

Values =	1	Level
	2	Grade
	9	Unknown

Note, for 1975 and 1976, the data were originally coded differently, but the current 1975 and 1976 files use the values above. This is a case where the original coding charts are misleading.

Roadway Surface Condition

1975 and later

Variable = SUR_COND

Values 1 Dry
2 Wet
3 Snow or Slush
4 Ice
5 Sand, Dirt, Oil
8 Other
9 Unknown

1979 data and earlier were originally coded differently but have been converted to the above codes.

Roadway Surface Type

1975 and later

Variable = PAVE_TYP

Values =
1 Concrete
2 Blacktop (Bituminous)
3 Brick or Block
4 Slag, Gravel or Stone
5 Dirt
8 Other
9 Unknown

School Bus Related (Repeated in the person file)

1977 and later

Variable = SCH_BUS

Values = 0 No
1 Yes Crashes in which a vehicle functioning as a school bus was directly or indirectly involved.

Note: Also check the variable SPEC_USE in the vehicle file. When the variable SPEC_USE is set to the value 2 then the vehicle is used as a school bus.

This code applies to crashes in which a vehicle functioning as a school bus was directly or indirectly involved. The "school bus" does not have to be a traffic unit in the crash, but it must have been involved in some school-related activity (e.g. children boarding or alighting from the bus: bus stopping at or pulling from a location of such activity, etc.)

If school bus related is yes, then the crash and all fatalities in that crash are school bus related.

A school bus crash is (1) a motor vehicle crash in which a school bus, with or without a pupil on board, is involved directly as a contact vehicle or (2) a motor vehicle crash or an other-road-vehicle crash in which a school bus, with or without a pupil or board, is involved indirectly as a noncontact vehicle.

Additional explanation inclusions:

A collision involving motor vehicle in transport in which one or more school buses strike(s) or are (is) struck by another road vehicle (directly involved).

A collision involving a pedestrian in which a child approaching or leaving a school bus, stopped and with its red lights flashing, is struck and injured by a motor vehicle (indirectly involved).

A collision crash or non-collision crash involving a motor vehicle in transpport passing a school bus stopped and with its red lights flashing (the school bus is a non-contact vehicle indirectly involved).

A collision crash in which a child approaching or leaving a school bus, stopped and with its red light flashing, is struck and injured by a pedalcyclist (school bus indirectly involved).

School Bus Related (Repeated in the person file)[Continued]

Additional explanation exclusions:

A collision crash on non-collision crash involving a motor vehicle which is normally used as a school bus, but is carrying only senior citizens when the collision occurs.

Special Jurisdiction

The special jurisdiction code refers to a road which may be under special jurisdiction even though it is patrolled by state, county or local police (e.g., all state highways running through Indian reservations are under the jurisdiction of the indian reservation.

1975 and later except as noted

Variable = SP_JUR

Values =
0 No Special Jurisdiction
1 National Park Service
2 Military
3 Indian Reservation
4 College/University Campus
5 Other Federal Properties (Since 1977)
8 Other (Since 1976)
9 Unknown

Speed Limit

1980 and later

Variable = SP_LIMIT

Values = 00 No Statutory Limit
01 - 98 Speed limit in Miles Per Hour
99 Unknown

1979

Variable = SP_LIMIT

Values = 01 - 98 Speed limit in Miles Per Hour
99 Unknown

1977 to 1978

Variable = SP_LIMIT

Values = 01 - 94 Speed limit in Miles Per Hour
95 Speed limit is 95 MPH or greater
96 No Statutory Limit
99 Unknown

1975 to 1976

Variable = SP_LIMIT

Values = 01 - 94 Speed limit in Miles Per Hour
95 Speed limit is 95 MPH or greater
96 No Statutory Limit
98 Not Reportable
99 Unknown

Note: TRAV_SP, travel speed, an estimate of the speed of the vehicle involved in the crash is found in the vehicle file. Travel speed is often an estimate of the actual speed by the investigating officers.

State - Repeated in the vehicle and person files.

1975 and later

Variable = STATE

Values = GSA state codes except for 43, Puerto Rico - This is the state in which the crash occurred. The state in which the vehicle(s) is (are) registered, REG_STAT, is found in the vehicle file, the coding is the same.

If the object of the analysis is to examine the effects of the environment then use REG_STAT rather than STATE.

01 Alabama
02 Alaska
04 Arizona
05 Arkansas
06 California
08 Colorado
09 Connecticut
10 Delaware
11 District of Columbia
12 Florida
13 Georgia
15 Hawaii
16 Idaho
17 Illinois
18 Indiana
19 Iowa
20 Kansas
21 Kentucky
22 Louisiana
23 Maine
24 Maryland
25 Massachusetts
26 Michigan
27 Minnesota
28 Mississippi
29 Missouri
30 Montana
31 Nebraska
32 Nevada
33 New Hampshire
34 New Jersey
35 New Mexico
36 New York
37 North Carolina
38 North Dakota
39 Ohio
40 Oklahoma
41 Oregon
42 Pennsylvania
43 Puerto Rico
44 Rhode Island
45 South Carolina
46 South Dakota
47 Tennessee
48 Texas
49 Utah
50 Vermont
51 Virginia
53 Washington
54 West Virginia
55 Wisconsin
56 Wyoming

State Case

1975 and later

Variable = ST_CASE

This variable is in each Accident, Vehicle and Person record. It is a combination of the GSA state code and an assigned consecutive number. It is a unique identifier for the Crash within the year. It is used as the key, when any two of these files, from the same year, are merged.

This variable is stored as a numeric variable of six characters, the first two characters are the state code, the next four characters are case number, with leading zeros if necessary.

Also see: VEH_NO, Vehicle Number, in the Vehicle File or Person File

Time

1999 and later

Variables = HOUR
or NOT_HOUR
or ARR_HOUR
or HOSP_HR (Since 1987)

Values = 00 - 24 Valid Military Times
99 Unknown
99 and MINUTE = 97 Officially Canceled (Does not apply to NOT_HOUR)
99 and MINUTE = 98 Unknown Whether Transported
(Does not apply to NOT_HOUR)

Variable = MINUTE
or NOT_MIN
or ARR_MIN
or HOSP_MN (Since 1987)

Values = 00-59 The minute of notification/arrival
99 Unknown

HOUR and Minute are the time of the crash, in hours and minutes.

NOT_HOUR and NOT_MIN are the times, in hours and minutes, of the notification of the need for emergency medical service, i.e. the time of the 911 call.

ARR_ HOUR and ARR_MIN are the arrival times, in hours and minutes, of the emergency medical service at the crash scene.

HOSP_HR and HOSP_MIN are the arrival times, in hours and minutes of the emergency medical service at the hospital.

Note that the time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital. All time is 24 hour military times.

If you need to separate day and night see the variable LGT_COND under the heading Light Condition.

(Continued on Next Page)

Time (Continued)

1975 to 1998 (except HOSP_HR and HOSP_MN)

Variables = HOUR
or NOT_HOUR
or ARR_HOUR
or HOSP_HR (Since 1987)

Values = 00 and MINUTE = 00, Not Notified/Officially Canceled/Not Transported
00 - 24 Valid Military Times
99 Unknown

Variable = MINUTE
or NOT_MIN
or ARR_MIN
or HOSP_MN (Since 1987)

Values = 00-59 The minute of notification/arrival
99 Unknown

HOUR and Minute are the time of the crash, in hours and minutes.

NOT_HOUR and NOT_MIN are the times, in hours and minutes, of the notification of the need for emergency medical service, i.e. the time of the 911 call.

ARR_ HOUR and ARR_MIN are the arrival times, in hours and minutes, of the emergency medical service at the crash scene.

HOSP_HR and HOSP_MIN are the arrival times, in hours and minutes of the emergency medical service at the hospital.

Note that the time of the crash/arrival of the emergency medical service can occur in a different day than the arrival of emergency medical service at the crash scene/hospital. All time is 24 hour military times.

If you need to separate day and night see the variable LGT_COND under the heading Light Condition.

Traffic Control Devices

1982 and later Note that in 1991 the descriptions of the variables obtained from a PROC CONTENTS changed, but the values did not if agency SAS files are used.

Variable = TRA_CONT

Values = 00 No Controls

NOT AT RAILROAD GRADE CROSSINGS

Highway Traffic Signals

01 Traffic control signal (on colors) without pedestrian signal
02 Traffic control (on colors) with pedestrian signal
03 Traffic control signal (on colors) not know if pedestrian signal
04 Flashing traffic control signal
05 Flashing beacon
06 Flashing highway traffic signal, type unknown, or other
07 Lane use control signal
08 Other highway traffic signal
09 Unknown highway traffic signal

Regulatory Signs

20 Stop Sign
21 Yield Sign
28 Other regulatory sign
29 Unknown type regulatory sign

School Zone Signs

30 School speed limit sign
31 School advance or crossing sign
38 Other school related sign
39 Unknown type school zone sign

Warning Sign

40 Warning Sign
41 Electronic Warning Sign (Since 2002)

(Continued on Next Page)

Traffic Control Devices (Continued)

1982 and later

Variable = TRA_CONT

Miscellaneous not at Railroad Crossing

50 Officer, crossing guard, flagman, etc.

AT RAILROAD GRADE CROSSINGS

Active Devices

Values =
60 Gates
61 Flashing Lights
62 Traffic Control Signal
63 Wigwags
64 Bells
68 Other train activated device
69 Active device, type unknown

Passive Devices

70 Cross bucks
71 Stop sign
72 Other railroad crossing sign
73 Special warning device - watchman, flagged by crew
78 Other passive device
79 Passive device, type unknown

Miscellaneous Devices at Railroad Crossing

80 Grade crossing controlled, type unknown

WHETHER OR NOT AT RAILROAD GRADE CROSSING

98 Other
99 Unknown

(Continued on Next Page)

Traffic Control Devices (Continued)

1975 to 1981

Variable = TRA_CONT

Values =
- 00 No Controls
- 01 Flashing Traffic Signals
- 02 On Colors Traffic Signal
- 03 Stop Sign
- 04 Yield Sign
- 05 Physically Controlled Railroad Crossing
- 06 Stop Sign for Railroad Crossing
- 07 Other Railroad Crossing
- 08 School Zone Sign
- 09 Traffic Controls not Functioning
- 10 Pedestrian Signal (Since 1978)
- 98 Other
- 99 Unknown

Original coding manuals are not consistent with the current structure of the data.

Traffic Control Device Functioning

1982 and later

Variable = T_CONT_F

Values =
0 No Controls
1 Device Not Functioning
2 Device Functioning - Functioning Improperly
3 Device Functioning Properly
9 Unknown

Data not collected prior to 1982

Trafficway Flow

1987 and later

Variable = TRAF_FLO

Values =
1 Not Physically Divided (Two Way Trafficway)
2 Divided Highway, Median Strip (Without Traffic Barrier)
3 Divided Highway, Median Strip (With Traffic Barrier)
4 One Way Trafficway
5 Divided Highway, Median Strip (With Two-way Continuous Left-turn Lane) {Since 2001} (See Relation to Roadway)
9 Unknown

1982 - 1986

Variable = TWAY_FLO

Values same as TRAF_FLO for 1987 and later namely:

Values =
1 Not Physically Divided (Two Way Trafficway)
2 Divided Highway, Median Strip (Without Traffic Barrier)
3 Divided Highway, Median Strip (With Traffic Barrier)
4 One Way Trafficway
9 Unknown

1975 - 1981

Variable = ROAD_FLO

Values =
1 Divided Highway, Median Strip (Since 1977)
2 Divided Highway, Guardrail (Since 1977)
3 Divided Highway, Other Barrier or Barrier Type Unknown
4 Not Physically Divided
5 One Way Traffic
9 Unknown

Note: In 1975 and 1976 all divided highway traffic is coded as level 3, i.e. divided highway, other barrier or barrier type unknown. There is no distinction made among median strips, guardrails and other barriers for these two years.

Trafficway Identifier

1998 and later

Variable = TWAY_ID

Values = Actual Posted Number, Assigned Number, or Common Name(if no posted or assigned number) (Maximum number of Characters 20) except:

9999999999999999999 Unknown

1982 to 1997

Variable = TWAY_ID

Values = Actual Posted Number, Assigned Number, or Common Name(if no posted or assigned number) (Maximum number of Characters 10) except:

9999999999 Unknown

Vehicle Forms Submitted (Number of) Repeated in the vehicle and person files.

1982 and later

Variable = VE_FORMS

Values = 01-99

This counts the number of vehicles in transport involved in the crash. Legally parked vehicles are not included.

Note: In the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case with hit-and-runs, the values are coded as unknown.

1976 to 1981

Variable = VE_FORMS

Values = 00-99

This counts the vehicle forms submitted, see note on vehicles below. It is unlikely that the number of vehicles involved in the crash is greater than the Number of Vehicle Forms plus two.

Note: In the event of a hit-and-run crash, if the vehicle information was not known, then **no** vehicle form was filled out. Likewise, if no information was known on the person level, usually the driver of the unknown vehicle, then a person level form was **not** filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

1976 to 1981

Variable = VEHICLES

Values = 01-99

This counts the number of vehicles in transport involved in the crash. Legally parked vehicles are not included.

THE VEHICLE FILE

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FARS VEHICLE FILE VARIABLES																												
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AVOID																	A	A	A	A	A	A	A	A	A	A	A	A
AXLES																	A	A	A	A	B	B	B	B	B	B	B	B
BODY_TYP	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	C	C	D	D	D	D	D	D	C	C	C	C
BUS_USE																											A	A
CARGO_BT																	A	A	A	A	B	B	B	B	B	B	C	C
CDL_STAT																	A	A	B	B	B	B	B	B	B	B	B	B
CHAS_TR	A	A	A	A	A	A	A																					
DEATHS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEFORMED				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DR_CF1	A	A	A	B	C	C	C	D	D	D	D	E	E	E	E	E	F	F	F	G	H	H	H	H	H	I	J	K
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DR_CF4																							H	H	H	I	J	K
DR_DRINK	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DR_HGT																								A	A	A	A	A
DR_PRES	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
DR_TRAIN	A	A	A	A	A	A	A	A	A	A	A	A																
DR_WGT																								A	A	A	A	A

DR_ZIP													A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS VEHICLE FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
EMER_USE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FIRE_EXP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FIRST_MO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FIRST_YR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
FLDCD_TR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
GWVR																											A	A
HARM_EV	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	C	D	D	D	E	F	F	F	F	F
HAZ_CARG								A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B
HIT_RUN	A	A	B	B	B	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
IMPACT1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
IMPACT2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
IMPACTS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
J_KNIFE						A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
LAST_MO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LAST_YR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
L_CL_VEH								A	A	A	A	A																
L_COMPL													A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B
L_ENDORS																	A	A	A	A	A	A	A	A	A	A	A	A

L_RESTRI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
L_STATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS VEHICLE FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
L_STATUS	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D
MAKE	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C	D	E	E	E	E	E	E	E	E	E	E	E	E
MAK_MOD	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D
MAN_COLL	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
MCARR_ID																								A	A	A	A	A
MCYCL_DS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MCYCL_TY	A	A	A	A	A	A	A																					
MODEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOD_YEAR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
MONTH																					A	A	A	A	A	A	A	A
M_HARM	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	C	D	D	D	E	E	E	E	E	E
OCUPANTS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
OWNER																A	A	A	A	A	A	A	A	A	A	A	A	A
PREV_ACC	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
PREV_DWI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
PREV_OTH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
PREV_SPD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B

PREV_SUS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B
REG_STAT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ROLLOVER				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS VEHICLE FILE VARIABLES																													
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	
SER_TR	S	E	E	-	V	I	N	-	M	A	N	U	A	L	-	F	O	R	-	L	E	V	E	L					
SPEC_USE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
STATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ST_CASE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TOWAWAY	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
TOW_VEH	A	A	A	A	A	A	A	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
TRAV_SP	A	A	A	A	A			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
UNDERRIDE																				A	A	A	A	A	A	A	A	A	A
VEH_CF1	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	D	E	F	G	
VEH_CF2	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	D	E	F	G	
VEH_MAN								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VEH_NO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VE_FORMS		A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
VIN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VINA_MOD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

VIN_2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_3	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_4	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS VEHICLE FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
VIN_6	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_7	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_8	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_9	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_10	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_11																				A	A	A	A	A	A	A	A	A
VIN_12																				A	A	A	A	A	A	A	A	A
VIN_BT								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_LNGT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_WGT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIOLCHG1																							A	A	A	A	A	A
VIOLCHG2																							A	A	A	A	A	A
VIOLCHG3																							A	A	A	A	A	A
VIOL_CHG	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B						
V_CONFIG																	A	A	A	A	B	B	B	B	B	B	C	C

WGTCD_TR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
WHLBS_LG	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
WHLBS_SH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Axles

1995 and later Number of (Counts the total number of axles on the **vehicle** for the vehicle including trailing units.)

(The major change in this variable from 1994 to 1995 is the count of axles on the vehicle rather than on the ground)

Variable = AXLES

Values = 00 Not Applicable, not a truck or bus
02-97 Number of Axles
98 Medium/Heavy Truck or Bus, Number of Axles Unknown
99 Unknown if Light or Medium/Heavy Truck of Bus

1991 to 1994 Number of (Counts the total number of axles on the **ground** for the vehicle including trailing units.)

Variable = AXLES

Values = 00 Not Applicable, not a truck or bus
02-97 Number of Axles
98 Medium/Heavy Truck or Bus, Number of Axles Unknown
99 Unknown Vehicle Type

Body Type (Also see V_CONFIG and CARGO_BT for trucks and busses as well as VIN_BT, VIN body type.)

1991 and later (except as noted)

Variable = BODY_TYP BY NHTSA vehicle category

NHTSA has precise definitions for several vehicle categories, such as passenger cars, pickups, buses etc. For some categories, one will also need the variable TOW_VEH. Complete BODY_TYP data by numerical order, follows this listing.

LE is less than or equal EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 11

Light Trucks* => 14 LE BODY_TYP LE 19 OR 30 LE BODY_TYP LE 41 OR
45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Utility Vehicles => 14 LE BODY_TYP LE 19
Note that utility vehicles are also part of the light truck category.

Pickups => 30 LE BODY_TYP LE 39 {See BODY_TYP value 67 from 2001}

Vans => 20 LE BODY_TYP LE 22 OR 28 LE BODY_TYP LE 29
{OR 24 LE BODY_TYP LE 25 Since 1993}

Light Trucks
& Vans* => 14 LE BODY_TYP LE 22 OR 28 LE BODY_TYP LE 41 OR
45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])
{OR 24 LE BODY_TYP LE 25 Since 1993}

Passenger
Vehicles => 01 LE BODY_TYP LE 11 OR 14 LE BODY_TYP LE 22 OR
28 LE BODY_TYP LE 41 OR 45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])
{OR 24 LE BODY_TYP LE 25 Since 1993}

Medium Trucks => 60 LE BODY_TYP LE 62 OR BODY_TYP EQ 64 OR
BODY_TYP EQ 71

(Continued on Next Page)

Body Type 1991 and later (Continued)

Heavy Trucks =>	BODY_TYP EQ 63 OR BODY_TYP EQ 66 OR BODY_TYP EQ 72 OR BODY_TYP EQ 78 OR (BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])
Large Trucks =>	60 LE BODY_TYP LE 64 OR BODY_TYP EQ 66 OR 71 LE BODY_TYP LE 72 OR BODY_TYP EQ 78 OR (BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])
Combination Trucks =>	(60 LE BODY_TYP LE 64 AND [1 LE TOW_VEH LE 4]) OR (71 LE BODY_TYP LE 72 AND [1 LE TOW_VEH LE 4]) OR (78 LE BODY_TYP LE 79 AND [1 LE TOW_VEH LE 4]) OR
See V_CONFIG	BODY_TYP EQ 66
Single Unit Trucks =>	[60 LE BODY_TYP LE 64 OR 71 LE BODY_TYP LE 72 OR BODY_TYP EQ 78]
See V_CONFIG	AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9]
Motorcycles =>	80 LE BODY_TYP LE 89
Buses =>	50 LE BODY_TYP LE 59 See V_CONFIG

* Within the yearly NHTSA publication Traffic Safety Facts, the term "Light Trucks" includes "Vans".

Note BODY_TYP 12, large limousines and BODY_TYP 13, three-wheel automobiles or automobile derivatives are not included as part of Passenger Cars or Passenger Vehicles.

When defining **School Buses** 1993 and later be sure to include the **new** body type **24 (van-based school bus)**. However, body type 24 is not part of Buses.

When defining **Transit Buses** 1993 and later be sure to include the **new** body type **25 (van-based transit bus)**. However, body type 25 is not part of Buses.

Note, a single unit truck that tows another vehicle, or a bobtail, by itself are considered combination trucks.

(Continued on Next Page)

Body Type (Also see V_CONFIG and CARGO_BT for trucks and busses as well as VIN_BT, VIN body type.)

1991 and later (except as noted) BY numerical order

Variable = BODY_TYP

Value =
01 Convertible
02 2 door Sedan/HT/Coupe
03 3 door/2 door Hatchback
04 4 door Sedan/HT
05 5 door/4 door Hatchback
06 Station Wagon
07 Hatchback/unknown doors
08 Other auto (1991 - 1993 only)
08 Sedan/Hardtop# doors unknown (Since 1994)
09 Unknown auto type (1991 - 1993 only)
09 Other or Unknown auto type (Since 1994)
10 Auto Pickup
11 Auto Panel
12 Large Limousine
13 3-Wheel Auto
14 Compact Utility
15 Large Utility
16 Utility Station Wagon
19 Utility Unknown Body
20 Minivan
21 Large Van
22 Step Van
23 Van Motorhome
24 Van-Based School Bus (Since 1993)
25 Van-Based Transit Bus (Since 1993)
28 Other Van type
29 Unknown Van type
30 Compact Pickup (Gross Vehicle Weight, GVWR, < 4500 lbs)
31 Standard Pickup (4500 lbs ≤ GVWR < 10,000 lbs)
32 Pickup w/Camper
33 Convertible Pickup
39 Unknown Pickup
40 Cab Chassis Based
41 Truck Based Panel

(Continued on Next Page)

Body Type 1991 and later BY numerical order - (Continued)

42 Light Truck Motorhome
45 Other Light Conventional
48 Unknown Light Conventional
49 Unknown Light Vehicle
50 School Bus
51 X-country/Intercity
52 Transit Bus
58 Other Bus
59 Unknown Bus
60 Step Van
61 Single Unit Straight Truck low GVWR
62 Single Unit Straight Truck med GVWR
63 Single Unit Straight Truck high GVWR
64 Single Unit Straight Truck unknown GVWR
65 Med/Hvy Motorhome
66 Truck/Tractor (Cab only, or with any number of trailing units:any weight)
67 Medium/Heavy Pickup (GVWR > 10,000 lbs.) {Since 2001}
71 Med Single Unit Straight Truck or Combination 10,000 lbs < GVWR < 26,000 lbs
72 Hvy Single Unit Straight Truck or Combination 26,000 lbs < GVWR
73 Camper or Motorhome, Unknown Truck Type
78 Unknown Medium/Heavy Truck
79 Unknown Truck
80 Motorcycle
81 Moped
82 3-wheel MC/Moped - not All-Terrain Vehicle
83 Off Road Motorcycle (2-wheel) (Since 1993)
88 Other Motorcycle
89 Unknown Motorcycle
90 ATV (All-Terrain Vehicle; includes 3 or 4 wheels)
91 Snowmobile
92 Farm Equipment
93 Construction Equipment
94 Motorized Wheel Chair (Since 1997)
97 Other Vehicle (includes go-cart, fork-lift, city street sweeper, dune/swamp buggy)
99 Unknown Body Type

(Continued on Next Page)

Body Type (Continued)

1982 to 1990

Variable = BODY_TYP BY NHTSA vehicle category

LE is less than or equal
EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 11 OR BODY_TYP EQ 67

Light Trucks* => BODY_TYP EQ 12 OR 50 LE BODY_TYP LE 51 OR
53 LE BODY_TYP LE 56 OR 58 LE BODY_TYP LE 59 OR
68 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Utility Vehicles => BODY_TYP EQ 12 OR BODY_TYP EQ 56 OR
BODY_TYP EQ 68

Note that utility vehicles are also part of the light truck category.

Pickups => 50 LE BODY_TYP LE 51

Vans => 40 LE BODY_TYP LE 41 OR 48 LE BODY_TYP LE 49

Light Trucks
& Vans* => BODY_TYP EQ 12 OR 40 LE BODY_TYP LE 41 OR
48 LE BODY_TYP LE 51 OR 53 LE BODY_TYP LE 56 OR
58 LE BODY_TYP LE 59 OR 68 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Passenger
Vehicles => 01 LE BODY_TYP LE 12 OR 40 LE BODY_TYP LE 41 OR
48 LE BODY_TYP LE 51 OR 53 LE BODY_TYP LE 56 OR
58 LE BODY_TYP LE 59 OR 67 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Medium Trucks => 70 LE BODY_TYP LE 71 OR BODY_TYP EQ 75 OR
BODY_TYP EQ 78

Heavy Trucks => BODY_TYP EQ 72 OR BODY_TYP EQ 74 OR
BODY_TYP EQ 76 OR

(BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])
(Continued on Next Page)

Body Type 1982 to 1990 (Continued)

Large Trucks => 70 LE BODY_TYP LE 72 OR 74 LE BODY_TYP LE 76 OR
BODY_TYP EQ 78 OR
(BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])

Combination
Trucks => (70 LE BODY_TYP LE 72) AND [1 LE TOW_VEH LE 4]) OR
BODY_TYP EQ 74 OR
(75 LE BODY_TYP LE 76) AND [1 LE TOW_VEH LE 4]) OR
(78 LE BODY_TYP LE 79) AND [1 LE TOW_VEH LE 4])

Single Unit
Trucks => [70 LE BODY_TYP LE 72 OR 75 LE BODY_TYP LE 76 OR
BODY_TYP EQ 78] AND
[TOW_VEH EQ 0 OR TOW_VEH EQ 9]

Motorcycles => 20 LE BODY_TYP LE 29

Buses => 30 LE BODY_TYP LE 39

* Within the yearly NHTSA report Fatal Accident Reporting System, the term "Light Trucks" includes Vans.

Note BODY_TYP 13, large limousines and BODY_TYP 14, three-wheel automobiles or automobile derivatives are not included as part of Passenger Cars or Passenger Vehicles.

Note, a single unit truck that tows another vehicle, or a bobtail by itself, are considered combination trucks.

(Continued on Next Page)

Body Type (Continued)

1982 to 1990

Variable = BODY_TYP BY numerical order

Value =
- 01 Convertible
- 02 2 door Sedan/HT/Coupe
- 03 3 door/2 door Hatchback
- 04 4 door Sedan/HT
- 05 5 door/4 door Hatchback
- 06 Station Wagon
- 07 Hatchback/# doors unknown
- 08 Other auto
- 09 Unknown auto type
- 10 Auto Pickup
- 11 Auto Panel
- 12 Short Utility/not Truck Based
- 13 Large Limousine
- 14 3-wheel vehicle unknown bt
- 20 Motorcycle
- 21 Moped
- 27 3-wheel MC or Moped
- 28 Other Cycle
- 29 Unknown Cycle
- 30 School Bus
- 31 X-country/Intercity
- 32 Transit Bus
- 38 Other Bus
- 39 Unknown Bus
- 40 Van
- 41 Van Commercial Cutaway
- 42 Van Motorhome
- 48 Other Van type
- 49 Unknown Van type
- 50 Pickup
- 51 Pickup w/Slide-in Camper
- 52 Pickup Based Motorhome
- 53 Cab chassis Based
- 54 Truck Based Panel
- 55 Truck Based SW

(Continued on Next Page)

Body Type 1992 to 1990 BY numerical order - (Continued)

56 Truck Based utility
58 Other Light Conventional Truck
59 Unknown Light Convent Truck
67 Station Wagon, base body unknown
68 Utility, Base Body Unknown
69 Unknown Light Truck
70 Straight Truck, low GVW
71 Straight Truck, med GVW
72 Straight Truck, hi GVW
73 Med/Hvy Truck Motorhome
74 Truck/Tractor
75 Unknown Med Truck
76 Unknown Hvy Truck
77 Camper/Motorhome
78 St GVW Unknown
79 Unknown Truck Type
80 Snowmobile
81 Farm Equip/no Trucks
82 ATV,Dune/Swamp Buggy
83 Construction Equipment/not Trucks
88 Other
89 Unknown Other Vehicle
90 3-wheel Vehicle Unknown Body Type
99 Unknown Body Type

(Continued on Next Page)

Body Type (Continued)

1975 to 1981

Variable = BODY_TYP BY NHTSA vehicle category

LE is less than or equal
EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 09

Light Trucks* => BODY_TYP EQ 43 OR BODY_TYP EQ 50 OR
BODY_TYP EQ 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Utility Vehicles => BODY_TYP EQ 43
Note that utility vehicles are also part of the light truck category.

Pickups => BODY_TYP EQ 50

Vans => BODY_TYP EQ 51

Light Trucks
& Vans* => BODY_TYP EQ 43 OR 50 LE BODY_TYP LE 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Passenger
Vehicles => 01 LE BODY_TYP LE 09 OR BODY_TYP EQ 43 OR
50 LE BODY_TYP LE 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Medium Trucks => 53 LE BODY_TYP LE 54 OR BODY_TYP EQ 56

Heavy Trucks => BODY_TYP EQ 55 OR 57 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

Large Trucks => 53 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

(Continued on Next Page)

Body Type 1975 to 1981 (Continued)

Combination
Trucks => ([53 LE BODY_TYP LE 56] AND TOW_VEH EQ 1) OR
57 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

Motorcycles => 15 LE BODY_TYP LE 18

Buses => 25 LE BODY_TYP LE 29

* Within the yearly NHTSA report Fatal Accident Reporting System, the term "Light Trucks" includes Vans.

The body type data do not track with the original documentation. For example, the documentation states that BODY_TYP EQ 7 is for utility vehicles. However, when the files are examined one sees that BODY_TYP EQ 43 is the value that will provide the desired result. The files have been modified to make the early years for this variable compatible with 1981.

Note, BODY_TYP 40 large limousines are not included as part of Passenger Cars or Passenger Vehicles.

(Continued on Next Page)

Body Type (Continued)

1975 to 1981

Variable = BODY_TYP BY numerical order

Value =
1 CONVERTIBLE
2 2 DOOR SEDAN HT COUPE
3 4 DOOR SEDAN HT
4 HATCHBACK
5 CAR-PICKUP BODY
6 STATION WAGON
7 ON/OFF ROAD VEHICLE
8 OTHER AUTO
9 UNKNOWN AUTO TYPE
15 MOTORCYCLE
16 MOPED
17 OTHER CYCLE
18 UNKNOWN CYCLE
25 SCHOOL BUS
26 CROSS COUNTY
27 TRANSIT BUS
28 OTHER BUS
29 UNKNOWN BUS
35 SNOWMOBILE
36 FARM EQUIPMENT
37 DUNE/SWAMP BUGGY
38 CONSTRUCT EQUIPMENT
39 AMBULANCE/HEARSE TYPE
40 LARGE LIMOUSINE
41 CAMPER/MOTORHOME
42 FIRE TRUCK
43 ON/OFF ROAD VEHICLE
44 OTHER SPECIAL VEHICLE
45 AMBULANCE EMS
50 PICKUP
51 VAN
52 TRUCK BASED SW
53 STRAIGHT TRUCK, LOW GVW
54 STRAIGHT TRUCK, MED GVW
55 STRAIGHT TRUCK, HI GVW

(Continued on Next Page)

Body Type 1975 to 1981 BY numerical order - (Continued)

56 STRAIGHT TRUCK, UNKNOWN GVW
57 TWO UNIT TRUCK
58 MULTI UNIT TRUCK
59 TRUCK-TRACTOR
60 UNKNOWN TYPE TRUCK
99 UNKNOWN

Bus Use

2000 and later

Variable = BUS_USE

Values=
0 Not used as a Bus
1 Used as a Public School Bus
2 Used as a Private School Bus
3 Used as a School Bus, Public or Private Unknown
4 Used as a Scheduled Service Bus
5 Used as a Tour Bus
6 Used as a Commuter Bus
7 Used as a Shuttle Bus
8 Modified for Personal/Private Use
9 Unknown Bus Use

Cargo Body Type (See V_CONFIG and BODY_TYP)

2001 and later

Variable = CARGO_BT

Values =
- 00 Not Applicable not a Truck or Bus
- 01 Van/Enclosed Box
- 02 Cargo Tank
- 03 Flatbed
- 04 Dump
- 05 Concrete Mixer
- 06 Auto Transporter
- 07 Garbage/Refuse
- 08 Grain, Chips, Gravel
- 09 Pole
- 20 Bus (seats 9-15 people, including driver)
- 21 Bus (seats more that 15 people, including driver)
- 96 No Cargo Body Type
- 97 Medium/Heavy Truck, or Bus, Other Cargo Body Type
- 98 Medium/Heavy Truck, or Bus, Unknown Cargo Body Type
- 99 Unknown if Light/Medium/Heavy Truck or Bus

1995 to 2000

Variable = CARGO_BT

Values =
- 00 Not Applicable not a Truck or Bus
- 01 Van/Enclosed Box
- 02 Cargo Tank
- 03 Flatbed
- 04 Dump
- 05 Concrete Mixer
- 06 Auto Transporter
- 07 Garbage/Refuse
- 08 Bus
- 97 Medium/Heavy Truck, Other Cargo Body Type
- 98 Medium/Heavy Truck, Unknown Cargo Body Type
- 99 Unknown if Light or Medium/Heavy Truck/Bus

(Continued on Next Page)

Cargo Body Type (Continued)

1991 to 1994

Variable = CARGO_BT

Values =
- 00 Not Applicable not a Truck or Bus
- 01 Van/Enclosed Box
- 02 Cargo Tank
- 03 Flatbed
- 04 Dump
- 05 Concrete Mixer
- 06 Auto Transporter
- 07 Garbage/Refuse
- 08 Medium/Heavy Truck, Other Body Type
- 09 Bus
- 99 Unknown Vehicle Type

Compliance with License Endorsements

1991 and later

Variable = L_ENDORS

Values =
0 No Endorsements required for this vehicle
1 Endorsement(s) Required, complied with
2 Endorsement(s) Required, not complied with
3 Endorsement(s) Required, compliance unknown
9 Unknown, if required

Data not collected prior to 1991

Compliance with License Restrictions

1975 and later

Variable = L_RESTRI

Values =
0 No Restrictions or Not Applicable (i.e. license is suspended, revoked, expired or not for this type of vehicle
1 Restrictions Complied With
2 Restrictions Not Complied With
3 Restrictions, Compliance Unknown
9 Unknown

Crash Avoidance Maneuver

1991 and later

Variable = AVOID

Values =
0 No Avoidance Maneuver Reported
1 Braking (skidmarks evident)
2 Braking (no skidmarks, driver stated)
3 Braking (other reported evidence)
4 Steering (evidence or stated)
5 Steering and Braking (evidence or stated)
6 Other Avoidance Maneuver
8 Not Reported [/Inconclusive (Since 1999)] (by police)

AVOID is the maneuver that the driver executed to attempt to avoid the crash. See VEH_MAN, Vehicle Maneuver, for the maneuver that the driver was executing just prior to entering a crash situation.

Date

1975 and later

Variables = FIRST_MO
LAST_MO

Values = 00 No Record
01-12 Month 1 = January, 12 = December
99 Unknown

1998 and later

Variables = FIRST_YR
LAST_YR

Values = 0000 No Record (4 digit field e.g. 1998)
9999 Unknown

1975 to 1997

Variables = FIRST_YR
LAST_YR

Values = 00 No Record
01 - 97 1901 to 1997
99 Unknown

FIRST_MO and FIRST_YR are the month and year of the driver's first crash, suspension, or conviction. LAST_MO and LAST_YR are the month and year of the driver's last crash crash, suspension, or conviction.

1995 and later

Variable = MONTH
From the Accident file.

Values = 01-12 The Month of the Crash 1 = January ... 12 = December

Driver Drinking

1975 and later

Variable = DR_DRINK

Values = 0 No Drinking
1 Drinking
9 Unknown (1975-1981, about 0.6 percent)

This is a derived variable. Data from the vehicle file are analyzed and if there is "sufficient information" to conclude that a driver was drinking, i.e., positive BAC data or police reported alcohol involvement then a driver is classified as drinking. Note that alcohol data are often missing. For that reason this variable may under count the actual number of drinking drivers. For detailed analysis of alcohol involvement, the alcohol files should be used.

A driver that is charged with an alcohol violation does not by itself make the driver a "drinking driver" by this definition.

Driver Height Weight

1998 and later

Variable = DR_HGT

Values = 24-107 Actual inches
998 Other
999 Unknown

Minimum height 2 feet = 24 inches, Maximum height 8 feet 11 inches = 107 inches

1998 and later

Variable = DR_WGT

Values = 40-700 Actual weight in pounds
998 Other
999 Unknown

Driver License Type Compliance

1993 and later

Variable = L_COMPL

Values =
0 Not Licensed
1 No License Required for this Class Vehicle
2 No Valid License for this Class Vehicle
3 Valid License for this Class Vehicle
8 Unknown if Commercial Driver's License and/or CDL Endorsement Required for this Vehicle
9 Unknown

1987 to 1992

Variable = L_COMPL

Values =
0 Not Licensed
1 No License Required for this Class Vehicle
2 No Valid License for this Class Vehicle
3 Valid License for this Class Vehicle
9 Unknown

1982 to 1986

Variable = L_CL_VEH

Values =
0 No License Required
1 No License, License Required
2 Valid License for This Class Vehicle Only
3 One Valid License, but Not for this Class Vehicle
4 Multiple Class Licenses, Valid License for this Class Vehicle
5 Multiple Class Licenses, Not Valid License for this Class Vehicle
9 Unknown

Before 1982

Data not available

Driver License Status

1993 and later (Commercial Motor Vehicle License Status)

Variable = CDL_STAT

Values =
0 No Commercial Driver's License (CDL)
1 Suspended
2 Revoked
3 Expired
4 Cancelled or Denied
5 Disqualified
6 Valid
7 Learner's Permit
8 Other Not-Valid
9 Unknown CDL

1991 to 1992 (Commercial Motor Vehicle License Status) Continued

Variable = CDL_STAT

Values =
0 No Commercial Driver's License (CDL not required)
1 No CDL (CDL Required)
2 No CDL (Unknown if CDL Required)
3 CDL (CDL not required)
4 CDL (CDL REQUIRED)
5 CDL (Unknown if CDL required)
6 Unknown CDL (CDL not required)
7 Unknown CDL (CDL required)
9 Unknown CDL (Unknown if CDL required)

(Driver License Status Continued on Next Page)

Driver License Status (Continued)

1993 and later (NON-Commercial Motor Vehicle License Status)

Variable = L_STATUS

Values =
0 Not Licensed
1 Suspended
2 Revoked
3 Expired
4 Cancelled or Denied
6 Valid
7 Learner's Permit
8 Temporary
9 Unknown

Note values 6, 7, and 8 are valid license categories.

1987 to 1992 (NON-Commercial Motor Vehicle License Status)

Variable = L_STATUS

Values =
0 Not Licensed
1 Suspended
2 Revoked
3 Expired
4 Cancelled or Denied
5 Single Class License
6 Multiple Class License
7 Learner's Permit
8 Temporary
9 Unknown

Note: values 5 and 6, single class license and multiple class license, with 7 and 8 make up the valid license category. These four values are combined to make the valid license category for 1987-1992.

(Continued on Next Page)

Driver License Status (Continued)

1982 to 1986 (NON-Commercial Motor Vehicle License Status)

Variable = L_STATUS

Values =
0 None required
1 None
2 Valid
3 Suspended
4 Revoked
5 Expired
6 Cancelled or Denied
7 Learner's Permit
8 Temporary
9 Unknown

Values 2, 7, and 8 are all valid license categories.

1975 to 1981

Variable = L_STATUS (NON-Commercial Motor Vehicle License Status)

Values =
0 None required
1 No License, License Required
2 Licensed, but not for this type of Vehicle
3 Valid License for this type of Vehicle
4 Suspended License
5 Revoked License
6 Expired License
7 Learner's Permit
9 Unknown

Values 3 and 7 make up the valid license category.

Driver Presence

1978 and later

Variable = DR_PRES

Values =
1 Driver Operated Vehicle
2 Driverless (No Driver)
3 Driver Left Scene
9 Unknown

1975 to 1977

Variable = DR_PRES

Values =
1 Driver Operated Vehicle
2 No Driver
9 Unknown

Driver Training

1975 to 1986

Variable = DR_TRAIN

Values =
0 None
1 High School
2 Commercial
3 School Bus
4 Traffic School
5 Two or More Types
6 Training, Type Unknown (Since 1977)
7 Unknown

Driver Zip Code

1987 and later

Variable = DR_ZIP

Values =	00000	Not resident of U. S. or Territories
	nnnnn	Five Numerics, Actual Value
	99999	Unknown

Emergency Use

1977 and later

Variable = EMER_USE

Values = 0 No
1 Yes Only if the vehicle was being used as an emergency vehicle at the time of the crash.

Extent of Deformation

1975 and later

Variable = DEFORMED

Values =	0	None
	2	Other (Minor)
	4	Functional (Moderate)
	6	Disabling (Severe)
	9	Unknown

The data on "8 Not Reportable" collected in 1976 are no longer contained in the file. The data, for this year, are not consistent with the documentation of the time.

Fatalities in Vehicle (number)

1975 and later

Variable = DEATHS

Values = The number of fatalities that occurred in the vehicle.

This is a derived variable and is not coded on the form directly. In 1976 this value is always set to 0.

Note that the variable FATALS in the Accident file, under the heading Fatalities, provides the number of deaths for the entire crash.

Fire Occurrence

1975 and later

Variable = FIRE_EXP

Values = 0 No Fire
1 Fire Occurred in Vehicle During Crash

From 1975 to 1979 if an explosion occurred in the vehicle, with or without a fire, this variable would also be set to 1.

Harmful Event - HARM_EV is from the Accident Files and is repeated here

1982 and later

Variables = HARM_EV — First harmful event applies to the crash. The most harmful event variable M_HARM applies to the vehicle. Harmful events are judgement calls of the FARS analysts based on the data within the police accident report. Note that Most Harmful Event M_HARM was not collected prior to 1979.

M_HARM — Most harmful event applies to the vehicle. This variable has the same values as does HARM_EV but is at the vehicle level rather that the accident level. Therefore different vehicles in a crash will have the same first harmful event but may have different most harmful events. Note in particular, that M_HARM describes a vehicle not a person. Therefore, one can not assume that the most harmful event for a vehicle was the cause of any death or injury for any specific individual within the vehicle.

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Thrown or Falling Object
17 Boulder
18 Other Object(not fixed)
19 Building
20 Impact Attenuator/Crash Cushion
21 Bridge Pier or Abutment

(Continued on Next Page)

Harmful Event 1982 and later (Continued)

22 Bridge Parapet End
23 Bridge Rail
24 Guardrail
25 Concrete Traffic Barrier
26 Other Longitudinal Barrier Type
27 Highway/Traffic Sign Post
28 Overhead Sign Support
29 Luminary/Light Support
30 Utility Pole
31 Other Post, Other Pole, or Other Support
32 Culvert
33 Curb
34 Ditch
35 Embankment - Earth
36 Embankment - Rock, Stone, or Concrete
37 Embankment - Material Type Unknown
38 Fence
39 Wall
40 Fire Hydrant
41 Shrubbery
42 Tree
43 Other Fixed Object
44 Pavement Surface Irregularity (1993 only)
45 Transport Device Used as Equipment (Since 1993)
46 Traffic Signal Support (Since 1994)
47 Vehicle Occupant Struck or Run Over by Own Vehicle (Since 1997)
48 Collision With Snow Bank (Since 1997)
49 Ridden Animal or Animal Drawn Conveyance (Since 1998)

99 Unknown

If either first harmful event, HARM_EV, or most harmful event, M_HARM, is used, it is often a good idea to construct a two way table of harmful event by state and check for consistency. For example, in the 1989 FARS data in the cases where a vehicle fire was identified, that is FIRE_EXP =1, Virginia coded M_HARM as 02 Fire/Explosion **for all cases**. In the same year for the crashes where a vehicle fire was identified, that is FIRE_EXP =1, Connecticut, Delaware, Idaho, Kansas, Mississippi, New Hampshire, Oklahoma, Rhode Island, South Dakota, and Wyoming **never** coded M_HARM as 02 Fire/Explosion. That is, different states code harmful events differently.

(Continued on Next Page)

Harmful Event 1975 to 1981

Variables = HARM_EV
M_HARM (Since 1979)

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Other Object
17 Bridge or Overpass (1975 to 1978 only)
18 Building
19 Culvert
20 Curb or Wall
21 Divider
22 Embankment
23 Fence
24 Guard Rail
25 Light Support
26 Sign Post
27 Tree/Shrubbery
28 Utility Pole
29 Other Pole/Support
30 Impact Attenuator
31 Other Fixed Object
32 Bridge or Overpass [Passing Under] (1979 to 1981 only)
33 Bridge or Overpass [Passing Over] (1979 to 1981 only)

99 Unknown

Hazardous Cargo

1991 and later

Variable = HAZ_CARG

Values =
0 No
1 Yes, Placarded
2 Yes, Not Placarded
3 Yes, Unknown if Placarded
9 Unknown

1982 to 1990

Variable = HAZ_CARG

Values =
0 No
1 Yes
9 Unknown

Hit-and-Run - This is from and is repeated in the Accident Files.

1982 and later

Variable = HIT_RUN

Values =
0 No Hit and Run
1 Hit Motor Vehicle in Transport
2 Hit Pedestrian or Non-Motorist
3 Hit Parked Vehicle or Object

1977 to 1981

Variable = HIT_RUN

Values =
0 No Hit and Run
1 Hit Motor Vehicle
2 Hit Non-Motorist
3 Left Scene

1975 to 1976

Variable = HIT_RUN

Values =
0 Not Applicable
1 With Motor Vehicle
2 With Non-Occupant

Impact

1994 and later

Variables = IMPACT1 Initial (or first) impact point
IMPACT2 Principal impact point

Values = 00 Non-Collision
01-12 - Clock Points (See coding manual)
13 Top
14 Undercarriage
99 Unknown

1994 and later

Variable = UNDERIDE

Values = 0 No Underride or Override

WITH MOTOR VEHICLE IN TRANSPORT
1 Underride (Compartment Intrusion)
2 Underride (No Compartment Intrusion)
3 Underride (Compartment Intrusion Unknown)

WITH OTHER VEHICLE
4 Underride (Compartment Intrusion)
5 Underride (No Compartment Intrusion)
6 Underride (Compartment Intrusion Unknown)

7 Override, Motor Vehicle in Transport
8 Override, Other Vehicle
9 Unknown if Underride or Override

Note the striking vehicle, not the vehicle struck, determines the underride/override condition. After the crash, in the case of an override or underride one vehicle is over the other. If the striking vehicle is over the other, then the crash is an override. If the striking vehicle is under the other, the crash is an underride. See Vehicle Role variable = IMPACTS.

See the note on the next page about using and interpreting the variable UNDERIDE.

(Continued on Next Page)

Impact (Continued)

1975 to 1993

Variables = IMPACT1 Initial (or first) impact point
IMPACT2 Principal impact point

Values = 00 Non-Collision
01-12 - Clock Points (See coding manual)
13 Top
14 Undercarriage
15 Underride (Since 1980)
16 Override (Since 1982)
99 Unknown

Note the striking vehicle, not the vehicle struck, determines the underride/override condition. From 1975 to 1993 both the initial and principal impacts were counted. In the event and only in the event, that the initial or principal impact point was an underride/override were the variable IMPACT1 or IMPACT2 flagged/counted as such. However, all other underrides/overrides were not counted, nor should they have been counted. IMPACTS WERE COUNTED, NOT UNDERRIDES! Therefore, the variable UNDERIDE was added to the FARS system in 1994.

The variable UNDERIDE, like all FARS variables, is dependent on the data contained in police accident reports. The NASS/CDS system is based on the efforts of professional accident investigators performing detailed analysis of approximately 5000 crashes a year. An analysis of the 1994-1996 FARS and NASS/CDS data systems and the 1997 Trucks in Fatal Accident file revealed that underrides and overrides are generally **not** identified on the police accident reports.

Jackknife

The JACK KNIFE field applies to a condition which occurs to a semi-truck (i.e., cab and one or more trailers) while in motion. The condition reflects a loss of control of the truck by the driver in which there trailer yaws more than 15 degrees from its normal straight line path behind the cab. If the final resting configuration of the vehicle is in the jack knife position, it does not necessarily mean that the vehicle has jack knifed (such as, an accident occurring while the vehicle is backing up or parking).

1982 and later

Variable = J_KNIFE

Values = 0 Not an Articulated Vehicle
1 No
2 First Event
3 Subsequent Event

1980 to 1981

Variable = J_KNIFE

Values = 0 Not an Articulated Vehicle
1 No
2 Yes

There is a note in old documentation that suggests that the field for 1980 and perhaps 1981 may be a dummy field, but these data seem reasonable and useable.

1975 to 1979

The variable exists in the data sets but has not been initialized. These data were not collected.

Manner of Collision - This comes from the Accident file and is repeated in the Person file.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

2002 and later

Variable = MAN_COLL

Values =
- 00 Not Collision with Motor Vehicle in Transport
- 01 Front-to-Rear (Includes Rear-End)
- 02 Front-to-Front (Includes Head-On)
- 03 Angle - Front-to-Side, Same Direction
- 04 Angle - Front-to-Side, Opposite Direction
- 05 Angle - Front-to-Side, Right Angle (Includes Broadside)
- 06 Angle - Front-to-Side/Angle-Direction Not Specified
- 07 Sideswipe - Same Direction
- 08 Sideswipe - Opposite Direction
- 09 Rear-to-Side
- 10 Rear-to-Rear
- 11 Other (End-Swipes and Others)
- 99 Unknown

1978 to 2001

Variable = MAN_COLL

Values =
- 0 Not Collision with Motor Vehicle in Transport
- 1 Rear-End
- 2 Head-On
- 3 Rear-to-Rear
- 4 Angle
- 5 Sideswipe, Same Direction
- 6 Sideswipe, Opposite Direction
- 9 Unknown

(Continued on Next Page)

Manner of Collision (Continued) - This comes from the Accident file and is repeated in the Person file.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

1975 to 1977

Variable = MAN_COLL

Values =
0 Not Collision with Motor Vehicle in Transport
1 Rear-End
2 Head-On
3 Rear-to-Rear
4 Angle
7 Sideswipe (May either be same or opposite direction)
9 Unknown

Note in the original files, from 1975 to 1977 sideswipe was coded as 5 but has since been changed to 7. These years are not consistent with the documentation of the time.

Note: From 1975 to 2001, the manner of collision is totally dependent on the directions of travel of the vehicles involved. The directions of travel of the vehicles is often misunderstood. The direction of a vehicle is determined by the **pre-crash condition** direction of travel. That is just before the vehicle goes out of control. Example 1) Assume two vehicles are heading toward each other on the same roadway, one going north and the other going south. If the south bound vehicle skids on a patch of ice and turns 180° and immediately is struck in the rear by the vehicle going north then the manner of collision is head-on not rear-end. Example 2) Had the vehicle going north sideswiped the south bound vehicle, which after the ice skid was pointed north, the manner of collision would be sideswipe **opposite** direction, even though both vehicles are pointed north at the time of the sideswipe. **The pre-crash condition directions of travel, for both vehicles, determine the outcome.** These examples involve a rotation of a vehicle just before the crash and can account for 20 percent to 30 percent of the coded cases. See "Impact" in the vehicle section of this guide.

Starting in 2002 and later the manner of collision is dependent on the geometry of the points of impact. That is Example 1 above is now coded 01, Front-to-Rear (Includes **Rear-End**) and Example 2, is now coded 07, Sideswipe - **Same** Direction. This is a major change in the MAN_COLL variable. Care must be taken when using this variable over a time period that spans 2001 to 2002.

Manner of Leaving Scene

1976 and later

Variable = TOWAWAY

Values =
1 Driven
2 Towed Away
3 Abandoned/Left Scene
9 Unknown

1975 only

Variable = TOWAWAY

Values =
2 Towed Away
4 Not Towed Away
9 Unknown

Note: The early years are not consistent with the documentation of the time.

Model Year - This is repeated in the person file.

1998 and later

Variable = MOD_YEAR

Values = (A 4 Digit Field)

9999 Unknown

A vehicle manufactured as a 1985 model is coded as 1985.

1975 to 1997

Variable = MOD_YEAR

Values = 00-98 (A 2 Digit Field)
99 Unknown

A vehicle manufactured as a 1985 model is coded as 85.

Motor Carrier ID

1998 and later

Variable = MCARR_ID

Values = AANNNNNNNNN

Where AA = 00 Not Applicable
01-56 FARS State Code
57 US DOT
58 ICC
95 Canada
96 Mexico
88 None
99 Unknown

and Where NNNNNNNNN
= Actual Number Except:
000000000 Not Applicable
888888888 None
999999999 Unknown

Note: This variable is only applicable for the following vehicles:

1. Medium/Heavy Trucks: vehicles with two axles/six tires and/or gross weight greater than 10,000 pounds.
2. Buses with 16 or more seats (including the driver)
3. Trucks and Vans of any size carrying hazardous cargo.

Motorcycle Data

1975 and later

Variable = MCYCL_DS - This variable is repeated in the person file.

Values = Motorcycle Displacement - This is the Cubic Centimeter piston bore. This is a numeric value (example, Honda 160 cc engine). This field is 4 positions long.

1975 to 1981

Variable = MCYCL_TY

Values = Motorcycle Type (or Bike Type). This is the VINA Body Type (example, Dirt Bike). This information is in the VINA documentation.

Occupants

1975 and later

Variable = OCUPANTS

Values = The actual number of occupants in the vehicle, except as listed below.
96 96 or more occupants in the vehicle.
97 Unknown - Only Injured Reported
99 Unknown

All, some or none of the individuals may have died in the crash.

Previously Recorded

1994 and later

Variables = PREV_ACC Previously Recorded Accidents (Crashes)
PREV_DWI Previously Recorded DWI Convictions
PREV_OTH Previously Recorded Other Moving Violations Convict
PREV_SPD Previously Recorded Speeding Convictions
PREV_SUS Previously Recorded Suspensions and Revocations

Counts only events occurring within three (3) years of the accident (crash).
Speeding violations count going too slow, as well as, going too fast.

Values = 00 None
01-97 Actual Value
98 Accidents not Reported on Driving Record
99 Unknown

If a driver has been disqualified for a CDL this event is recorded in Previous Recorded Suspensions and Revocations.

The current crash is not included in any of the counters.

1975 to 1993

Variables = PREV_ACC Previously Recorded Accidents (Crashes)
PREV_DWI Previously Recorded DWI Convictions
PREV_OTH Previously Recorded Other Moving Violations Convict
PREV_SPD Previously Recorded Speeding Convictions
PREV_SUS Previously Recorded Suspensions and Revocations

Counts only events occurring within three (3) years of the accident (crash).
Speeding violations count going too slow, as well as, going too fast.

Values = 00 None
01-97 Actual Value
98 CDL Disqualified
99 Unknown

The current crash is not included in any of the counters.

Registered Vehicle Owner Type

1991 and later

Variable = OWNER

Values =
0 Not Applicable, Vehicle Not Registered
1 Driver (of this Vehicle) Was Registered Owner
2 Driver (of this Vehicle) Not Registered Owner (other private owner)
3 Vehicle Registered As Business/Company/Government Vehicle
4 Vehicle Registered As Rental Vehicle
5 Vehicle Was Stolen (reported by police)
6 Driverless Vehicle
9 Unknown

Related Factors - Driver Level

Note: There are also accident level related factors in the accident file, CF1, CF2, and CF3 and vehicle related factors in the vehicle file, i.e. this file, namely VEH_CF1 and VEH_CF2.

Note the FARS coder may have used any of the three variables to code a related factor. One must test all three variables to insure that the selected related factor is included.

1982 and later except as noted

Variables = DR_CF1 or DR_CF2 or DR_CF3 (or DR_CF4 Since 1997)

Values = 00 None

PHYSICAL/MENTAL CONDITION

01 Drowsy, Sleepy, Asleep, Fatigued
02 Ill, Passed Out/Blackout
03 Emotional (e.g. Depression, Angry, Disturbed)
04 Drugs-Medication
05 Other Drugs (Marijuana, Cocaine, etc.)
06 Inattentive (Talking, Eating, etc.)
07 Restricted to Wheelchair
08 Paraplegic (1982 to 1994 only, see code 11)
09 Impaired Due to Previous Injury
10 Deaf
11 Other Physical Impairment (Includes Paraplegic Since 1995)
12 Mother of Dead Fetus
13 Mentally Challenged (Since 1995)
14 Failure to Take Drugs/Medication (Since 1995)
15 Seat Back Not in Normal Position, Seat Back Reclined (Since 2002)
16 Police of Law Enforcement Officier (Since 2002)

MISCELLANEOUS FACTORS

17 Running off Road (Since 2000)
18 Traveling on Prohibited Trafficways (Since 1995)
19 Legally Driving on Suspended or Revoked License
20 Leaving Vehicle Unattended with Engine Running
Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo

(Continued on Next Page)

22 Towing or Pushing Vehicle Improperly
23 Failing to Dim Lights or to Have Lights on when Required
24 Operating without Required Equipment
25 Creating Unlawful Noise or using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to keep in Proper Lane or Running off Road (1982-1999)
28 Failure to keep in Proper Lane (Since 2000)
29 Illegal Driving on Road Shoulder, in Ditch or Sidewalk or on Median
30 Making Improper Entry to or Exit from Trafficway
31 Starting or Backing Improperly
32 Opening Vehicle Closure into Moving Traffic or Vehicle is in Motion
33 Passing where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning not to Pass
34 Passing on Wrong Side
35 Passing with insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner or Operating at erratic or Suddenly Changing Speeds
37 High Speed Chase with Police in Pursuit (See Note)
38 Failure to Yield Right of Way
39 Failure to Obey Traffic Actual Signs, Traffic Control Devices or traffic Officers, Failure to Observe Safety Zone Traffic Laws
40 Passing Through or Around Barrier
41 Failure to Observe Warnings or Instructions on Vehicle Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds (1982 - 1994)
46 Not Used (1995-1997)
46 Racing (Since 1998)
47 Making Right Turn from Left Turn Lane or Making Left Turn from Right Turn Lane
48 Making Improper Turn
49 Failure to Comply with Physical Restrictions of License
50 Driving Wrong Way on One-Way Trafficway
51 Driving on Wrong Side of Road (Intentionally or Unintentionally)

(Continued on Next Page)

52 Operator Inexperience
53 Unfamiliar with Roadway
54 Stopping in Roadway (Vehicle not Abandoned)
55 Underriding a Parked Truck
56 Improper Tire Pressure
57 Locked Wheel
58 Over Correcting
59 Getting Off/Out of or On/In to Moving Vehicle
60 Getting Off/Out of or On/In to Non-Moving Vehicle

VISION OBSCURED BY
[1975 to 1981 see related factors accident level, CF1...CF3]

61 Rain, Snow, Fog, Smoke, Sand, Dust
62 Reflected Glare, Bright Sunlight, Headlights
63 Curve, Hill, Or Other Design Features (including Traffic signs,
64 Building, Billboard, etc. Embankment)
65 Trees, Crops, Vegetation
66 Motor Vehicle (including load)
67 Parked Vehicle
68 Splash or Spray or Passing Vehicle
69 Inadequate Defrost or Defog System
70 Inadequate Lighting System
71 Obstructing Angles on Vehicle
72 Mirrors - Rear View
73 Mirrors - Other
74 Head Restraints
75 Broken or Improperly Cleaned Windshield
76 Other Obstruction

AVOIDING, SWERVING, OR SLIDING DUE TO
[1975 to 1981 see related factors accident level, CF1...CF3]

77 Severe Crosswind
78 Wind from Passing Truck
79 Slippery or Loose Surface
80 Tire Blow-Out or Flat [See VEH_CFx (01) tires]
81 Debris or Objects in Road
82 Ruts, Holes, Bumps in Road

(Continued on Next Page)

83 Live Animals in Road
84 Vehicle in Road
85 Phantom Vehicle
86 Pedestrian, Pedalcyclist, or Other Non-Motorist in Road
87 Ice, Water, Snow, Slush, Sand, Dirt, Oil, Wet Leaves on Road
88 Trailer Fishtailing or Swaying (Since 2001)

OTHER MISCELLANEOUS FACTORS

89 Carrying Hazardous Cargo Improperly (Since 1994)
90 Hit-and-Run Vehicle Drive
91 Non-Traffic Violation Charged - Manslaughter or Homicide or Other Assault (Since 1986)
92 Other Non-Moving Traffic Violation (Since 1986)

POSSIBLE DISTRACTIONS (INSIDE VEHICLE) (SINCE 1991)

93 Cellular Telephone (Since 1991)
94 Fax Machine (1991 - 2001)
94 Cellular Telephone in Use in Vehicle (Since 2002)
95 Computer (Since 1991 - 2001)
95 Computer Fax Machines/Printers (Since 2002)
96 On-Board Navigation System (Since 1991)
97 Two-Way Radio (Since 1991)
98 Heads-up Display (Since 1991)

99 Unknown

Note: A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed or taking other evasive action to allude the officer's continued attempts to stop the motorist. This is recorded if any Related Factor - Driver Level, DR_CF1, DR_CF2 or DR_CR3 or (DR_CF4 Since 1997) is coded 37 [or one of the accident related factors CF1, CF2, or CF3, is coded 20, police pursuit involved - Since 1994].

Examination, of the 1998 file, shows that there were a total of 64 drivers out of 56,865 that had one or

more driver distractions coded in FARS, i.e. $93 \leq DR\_CFi \leq 98$. 33 of the 64 drivers were in

Related Factors - Driver Level 1982 and later (Continued)

Oklahoma. 31 of the 50 states and the District of Columbia did not report any driver distractions on their police accident reports and therefore are not identified in FARS. When using Related Factors, it is suggested that the variable be examined by state.

Note: Related Factors - Driver Level, variables DR_CF1 ... DR_CF4 are concerned with speeding, e.g. Value = 44, Driving too Fast for Conditions or in Excess of Posted Speed Limit and since 1998 Value = 46 Racing.

(Continued on Next Page)

Related Factors - Driver Level (Continued)

1975 to 1981 Early files are not consistent with the documentation of the **time**. The following interpretation is suggested for current/future analysis.

Variables = DR_CF1 or DR_CF2 or DR_CF3

Values = 00 None

PHYSICAL/MENTAL CONDITION

01 Drowsy, Sleepy, Asleep, Fatigued
02 Ill, Blackout
03 Depression
04 Reaction to Drugs-Medication
05 Other Drugs (Marijuana, Cocaine, etc.)
06 Inattentive (Talking, Eating, etc.)
07 Physical Impairments
08 Died Prior to Accident

MISCELLANEOUS CAUSES

20 Leaving Vehicle Unattended with Engine Running
Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to Dim Lights or to Have Lights on when Required
24 Operating without Required Equipment
25 Creating Unlawful Noise or using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to keep in Proper Lane or Running off Road
29 Illegal Driving on Road Shoulder, in Ditch or Sidewalk or on Median
30 Making Improper Entry to or Exit from Trafficway
31 Starting or Backing Improperly
32 Opening Vehicle Closure into Moving Traffic or Vehicle is in Motion
33 Passing where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning not to Pass
34 Passing on Wrong Side
35 Passing with insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle

(Continued on Next Page)

Related Factors - Driver Level 1975 to 1981 (Continued)

36 Operating the Vehicle in an Erratic, Reckless, Careless or Negligent Manner
37 High Speed Chase with Police in Pursuit (Since 1978) See note:
38 Failure to Yield Right of Way
39 Failure to Obey Traffic Signs, Traffic Control Devices or traffic Officers, Failure to Observe Safety Zone
40 Passing Through or Around Barrier
41 Failure to Observe Warnings or Instructions on Vehicle Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds
47 Making Right Turn from Left Turn Lane
Making Left Turn from Right Turn Lane
48 Making Improper Turn
49 Failure to Comply with Physical Restrictions of License
50 Driving Wrong Way on One-Way Trafficway
51 Driving on Wrong Side of Road
52 Operator Inexperience
53 Unfamiliar with Roadway
54 Stopping in Roadway (Since 1979)

99 Unknown

Note: A pursuit is an event that is initiated when a law enforcement officer, operating an authorized emergency vehicle, gives notice to stop (either through the use of visual or audible emergency signals or a combination of emergency devices) to a motorist who the officer is attempting to apprehend and that motorist fails to comply with the signal by either maintaining his/her speed, increasing speed or taking other evasive action to allude the officer's continued attempts to stop the motorist. This is recorded if any Related Factor - Driver Level, DR_CF1, DR_CF2 or DR_CF3 is coded as 37.

Related Factors - Vehicle Level

Note: There are also accident level related factors in the accident file, CF1, CF2, and CF3 and driver related factors in the vehicle file, i.e. this file, namely DR_CF1, DR_CF2, DR_CF3 and (DR_CF4 Since 1997).

Note, the FARS coder may have used either of the two variables to code a related factor. One must test both variables to insure that the selected related factor is included.

1982 and later

Variable = VEH_CF1 or VEH_CF2

Values =
00 None
01 Tires (Does not include wheels see value 16) [See DR_CFx (80) Flat Tire]
02 Brake System
03 Steering System - tie rod, kingpin, ball joint, etc.
04 Suspension - Springs, shock absorbers, MacPherson struts, axle bearing, control arms, etc.
05 Power Train{/Engine (since 2001)} - universal joint, drive shaft, transmission, etc.
06 Exhaust System
07 Headlights
08 Signal Lights
09 Other Lights
10 Horn
11 Mirrors
12 Wipers
13 Driver Seating and Control
14 Body, Doors, Hood, Other
15 Trailer Hitch
16 Wheels
17 Air Bags (Since 1995)
18 Other Vehicle Defects
19 Safety Belts (Since 2002)

31 Hit-and-Run Vehicle
32 Vehicle Registration for Handicapped
33 Vehicle Being Pushed by Non-Motorist
34 Vehicle Impact Point - the Result of Something Set-in-Motion (Since 1998)

(Continued on Next Page)

Related Factors - Vehicle Level 1982 and later (Continued)

35 Reconstructed Vehicle (Since 1998)
36 Electric/Alternative Fuel Vehicle (Since 1999)
37 Transporting Children to/from Head Start/Day Care (Since 2000)
38 Vehicle Went Airborne During Crash (Since 2001)
99 Unknown

1975 to 1981

Variable = VEH_CF1 or VEH_CF2

Values =
00 None
01 Tires and Wheels
02 Brake System
03 Steering System
04 Suspension - Springs, Shock Absorbers, MacPherson Struts, Axle Bearing, Control Arms, etc.
05 Power Train - Universal Joint, Drive Shaft, Transmission, etc.
06 Exhaust System
07 Headlights
08 Signal Lights
09 Other Lights
10 Horn
11 Mirrors
12 Wipers
13 Driver Seating and Control
14 Body, Doors, Hood, Other
15 Trailer Hitch

99 Unknown

Rollover - Repeated in the person file.

1978 and later

Variable = ROLLOVER

Values = 0 No Rollover
1 First Event
2 Subsequent Event

1975 to 1977 DATA NOT AVAILABLE

Special Use (Also in the person file)

1975 and later (except as noted)

Variable = SPEC_USE

Values =	0	No Special Use
	1	Taxi
	2	Vehicle Used as School Bus
	3	Vehicle Used as Other Bus
	4	Military
	5	Police
	6	Ambulance (Since 1980)
	7	Firetruck (Since 1982)
	9	Unknown

Note: The variable SCH_BUS in the accident and person file identifies vehicles used as school buses.

State

1975 and later

Variables = REG_STAT — State in which the vehicle was registered
(Note values above 90 conflict with L_STATE variable see below)

STATE — State in which the accident (crash) occurred from Accident File

L_STATE — State in which the driver is licensed
(Note values above 90 conflict with REG_STAT variable see below)

Values = GSA state codes except for 43, Puerto Rico

If the object of the analysis is to examine the effects of the environment, e.g., salt corrosion of vehicles, then use REG_STAT rather than STATE.

01 Alabama	30 Montana
02 Alaska	31 Nebraska
04 Arizona	32 Nevada
05 Arkansas	33 New Hampshire
06 California	34 New Jersey
08 Colorado	35 New Mexico
09 Connecticut	36 New York
10 Delaware	37 North Carolina
11 District of Columbia	38 North Dakota
12 Florida	39 Ohio
13 Georgia	40 Oklahoma
15 Hawaii	41 Oregon
16 Idaho	42 Pennsylvania
17 Illinois	43 Puerto Rico
18 Indiana	44 Rhode Island
19 Iowa	45 South Carolina
20 Kansas	46 South Dakota
21 Kentucky	47 Tennessee
22 Louisiana	48 Texas
23 Maine	49 Utah
24 Maryland	50 Vermont
25 Massachusetts	51 Virginia
26 Michigan	53 Washington
27 Minnesota	54 West Virginia
28 Mississippi	55 Wisconsin

29 Missouri 56 Wyoming

(Continued on Next Page)

REG_STAT, STATE, L_STATE 1975 and later (Continued)

92 No Registration REG_STAT only
93 Multiple State Registration - In State REG_STAT only
(In 1997 level 93 and level 94 were combined into level 93
After 93 the level is Multiple State Registration)
94 Multiple State Registration - Out-of State REG_STAT only
(1975-96 only, value=94 not valid after 1996)
95 U.S. Government Tags REG_STAT only

94 Military L_STATE only
95 Canada L_STATE only
96 Mexico L_STATE only
97 Other Foreign Country L_STATE only
99 Unknown L_STATE only

State Case

1975 and later

Variable = ST_CASE

This variable is in each Accident, Vehicle and Person record. It is a combination of the GSA state code and an assigned consecutive number. It is a unique identifier for the Crash within the year. It is used as the key when any two of these files from the same year, are merged.

This variable is stored as a numeric variable of six characters, the first two characters are the state code, the next four characters are the case number, with leading zeros if necessary.

Also see: VEH_NO, Vehicle Number, in the Vehicle File or Person File.

Towed Trailing Unit

1983 and later

Variable = TOW_VEH

Values =
0 No
1 Yes, One Trailing Unit
2 Yes, Two Trailing Units
3 Yes, Three or More Trailing Units
4 Yes, Number of Trailing Units Unknown (Since 1984)
9 Unknown

1982

Variable = TOW_VEH

Values =
0 No
1 Yes, One Trailing Unit
4 Yes, Number of Trailing Units Unknown
5 Yes, Two or More Trailing Units
9 Unknown

1975 to 1981

Variable = TOW_VEH

Values =
0 No
1 Yes

Note that the number of unknowns is 0 until 1982. From 1982 to 1984 the number of unknowns is approximately 2500 per year. Starting in 1985 the number of unknowns falls to about 300 per year.

This variable not only applies to tractor trailers, but also to boats, cars, and U-hall type vehicles that are towed with a trailer hitch. Vehicles that are pulled by a rope or chain are not counted as towed vehicles.

Travel Speed

1975 and later (Except 1980 & 1981 see note below)

Variable = TRAV_SP

Values =
00 Stopped Vehicle
01 - 96 Travel Speed in MPH
97 Speed of 97 MPH or Higher
99 Unknown

Note: These data are collected after the crash, and are an estimate of the travel speed, which is often a judgement, rather than a measurement. Computing the mean without removing the unknowns will increase the mean travel speed.

Note: For the years 1980 and 1981 travel speed was not collected. However, the variable is currently in the data base for these two years with all data as missing. With this variable there has always been a high number of unknown cases. Since the data were considered somewhat "uncollectible" a decision was made not to collect the data for these two years. However, although the data were often unavailable, it was considered too important not to try to collect it.

Truck Fuel Code

1975 and later

Variable = FLDCD_TR

This is RLPolk VINA decode data.

Values =
C Gasoline Engine that can be easily Converted to Gaseous Powered Engine (Powered by Natural Gas, Propane, etc.)
D Diesel
E Electric
F Flexible fuel
G Gas
H Ethanol fuel only
M Methanol gas only
N Compressed Natural Gas
P Propane
9 Unknown

Unknowns

1982 and later

Starting in 1982, in the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case with hit-and-runs, the values are coded as unknown.

Example: Between 1982 - 1994, the number of drivers coded with unknown sex fluctuated between 700-1000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit and run crashes.

1975 to 1981

In the event of a hit-and-run crash, if the vehicle information was not known, then a vehicle form was not filled out. Likewise, in a hit-and-run crash, if there was no known information at the person level, usually the driver of the unknown vehicle, then a person level form was not filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Example: From 1975 to 1980, there were 30-40 drivers coded with unknown sex. Approximately 0.05 percent of all drivers involved in fatal crashes. In 1981 the number of drivers with unknown sex rose to over 300, approximately 0.5 percent of all drivers involved in fatal crashes.

Vehicle Configuration (See BODY_TYP and CARGO_BT)

2001 and later

Variable = V_CONFIG

Values =
- 00 Not Applicable, not a Medium/Heavy Truck or Bus or Vehicle Displaying a hazardous material placard
- 01 Single Unit Truck (Two Axles 6 Tires)
- 02 Single Unit Truck (Three or More Axles)
- 03 Single Unit Truck (Unknown Number Axles, tires)
- 04 Truck/Trailer(s)
- 05 Truck Tractor (Bobtail i.e. tractor only, no trailer)
- 06 Tractor/Semi-Trailer (one Trailer)
- 07 Tractor/Doubles (two Trailers)
- 08 Tractor/Triples (three Trailers)
- 19 Med./Heavy Trucks, Cannot Classify
- 20 Bus (seats for 9-15 people, including driver)
- 21 Bus (seats for more than people, including driver)
- 70 Light Truck (van, mini van, panel, pickup, sport utility, vehicle displaying a hazardous material placard)
- 80 Passenger Car (only when displaying a hazardous materials placard)

- 99 Unknown if Light of Medium/Heavy Truck/Bus

1995 to 2000

Variable = V_CONFIG

Values =
- 0 Not Applicable, not a Medium/Heavy Truck or Bus
- 1 Single Unit Truck (Two Axles 6 Tires)
- 2 Single Unit Truck (Three or More Axles)
- 3 Single Unit Truck (Unknown Number Axles, tires)
- 4 Truck/Trailer(s)
- 5 Truck Tractor (Bobtail i.e. tractor only, no trailer)
- 6 Tractor/Semi-Trailer
- 7 Med./Heavy Trucks, Cannot Classify
- 8 Bus
- 9 Unknown if Light of Medium/Heavy Truck/Bus

(Continued on Next Page)

Vehicle Configuration (See BODY_TYP and CARGO_BT) (Continued)

1991 to 1994

Variable = V_CONFIG

Values =
0 Not Applicable, not a Medium/Heavy Truck or Bus
1 Single Unit Truck (Two Axles 6 Tires)
2 Single Unit Truck (Three or More Axles)
3 Truck/Trailer(s)
4 Truck Tractor (Bobtail i.e. tractor only, no trailer)
5 Tractor/Semi-Trailer
6 Med./Heavy Trucks, Cannot Classify
7 Bus
9 Unknown

Vehicle Forms Submitted (Number of) From the accident file also repeated in the person file.

1982 and later

Variable = VE_FORMS

Values = 01-99

This counts the number of vehicles in transport involved in the crash. Legally parked vehicles are not included.

Note: In the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case which is often the case with hit-and-runs, the values are coded as unknown.

1976 to 1981

Variable = VE_FORMS

Values = 00-99

This counts the vehicle forms submitted, see note on vehicles in the Accident file. It is unlikely that the number of vehicles involved in the crash is greater than the Number of Vehicle Forms plus two.

Note: In the event of a hit-and-run crash, if the vehicle information was not known, then **no** vehicle form was filled out. Likewise, if no information was know on the person level, usually the driver of the unknown vehicle, then a person level form was **not** filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Vehicle Identification Number

1975 and later

Variable = VIN — The first [12 (1994 and later)] [10 (1975 to 1993)] characters of the vehicle identification number (VIN). The vehicle manufacturers use the VIN to describe certain characteristics of a vehicle and to assign a serial number to the vehicle. VINA is a software program, maintained by R. L. Polk & Co, that deciphers the VIN for 1966 and newer vehicles that are within the scope of the program. In FARS, the VINA program uses analyst coded vehicle make, model year and the VIN as input values and returns decode values for automobiles, trucks, and motorcycles. Vehicle type, determined by the analyst coded body type, is also used as input to facilitate the program processing. Many variables decoded from the VIN have "VIN" as the first part of their name. Some of the results from the VINA$_{TM}$ program are used as edit checks for these data.

Variables = VIN_1 ... VIN_12 — The 1 st, ... 12 th character of the vehicle identification (VIN) number

Starting in 1981, the Vehicle Identification Numbers were required to conform to an international standard. Some of the highlights of those standards appear in the following pages. For vehicles built prior to 1981 one may consult the National Automobile Theft Bureau's publication Passenger Vehicle Identification Manual for the year in question. The VINA$_{TM}$ program developed by R. L. Polk & Co. is capable of decoding the VIN for model years 1961 and later.

The first character of the VIN usually identifies the country or Nation of Origin, the most popular are:

VIN_1 =	1	USA
	2	Canada
	3	Mexico
	J	Japan
	K	Korea
	L	Taiwan
	S	England
	VF	France V for Europe F for France
	W	West Germany
	Y	Sweden
	Z	Italy

(Continued on Next Page)

The second and third characters of the VIN, more or less, identify the make of the vehicle, the most popular **AUTOMOBILE** makes are:

VIN_2|VIN_3 =		
	2A	AVANTI
	A3	MITSUBISHI
	AB	ISUZU
	AJ	JAGUAR
	AM	MASERATI (IF VIN_1 = Z)
	AM	AMERICAN MOTORS (IF VIN_1 = 1)
	AR	ALPHA ROMEO
	AW	AUDI
	AX	STERLING
	B3	DODGE
	BA	BMW
	BB	BERTONE
	C3	CHRYSLER
	CA	ROLLS ROYCE
	CC	LOTUS
	CE	DELOREAN
	CF	ASTON MARTIN
	DB	MERCEDES BENZ
	E3	EAGLE
	F1	EAGLE MEDALLION (IF VIN_1 = V SEE RENAULT)
	F1	MERKUR (IF VIN_1 = W)
	F1	RENAULT (IF VIN_1 = V SEE EAGLE MEDALLION)
	F1	SUBARU (IF VIN_1 = J)
	F3	PEUGEOT
	FA	FORD (IF VIN_1 = 1)
	FA	FIAT (IF VIN_1 = Z)
	FF	FERRARI
	FR	PININFARINA
	G1	CHEVROLET
	G2	PONTIAC
	G3	OLDSMOBILE
	G4	BUICK
	G6	CADILLAC
	G8	SATURN
	H4	ACURA
	HM	HONDA

(Continued on Next Page)

Vehicle Identification Number 1981 and later (Continued)

JC	JEEP
LN	LINCOLN
M1	MAZDA
ME	MERCURY
MH	HYUNDAI
N1	NISSAN
P3	PLYMOUTH
PO	PORSCHE
S3	SAAB
S3	SUZUKI
T2	TOLYOTA
V1	VOLVO
VW	VOLKSWAGEN

The model year of the vehicle is usually the tenth character. The values are:

VIN_10 =

A	1980	L	1990	Y	2000
B	1981	M	1991	1	2001
C	1982	N	1992	2	2002
D	1983	P	1993	3	2003
E	1984	R	1994	4	2004
F	1985	S	1995	5	2005
G	1986	T	1996	6	2006
H	1987	V	1997	7	2007
J	1988	W	1998	8	2008
K	1989	X	1999	9	2009

1981 and later

Variable VIN_LNGT This is the actual length of the vehicle identification number

Values = 1-17 Actual value
99 Unknown VIN length

Vehicle Make

1991 and later

Variable = MAKE

Values = [In numerical order]

01 American Motors
02 Jeep
03 AM General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle
12 Ford
13 Lincoln
14 Mercury
18 Buick
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
24 Saturn
25 Grumman
29 Other Domestic
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Healey
34 BMW
35 Nissan/Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi
53 Suzuki
54 Acura
55 Hyundai
56 Merkur
57 Yugo
58 Infiniti
59 Lexus
60 Daihatsu
61 Sterling
62 Land Rover
63 KIA
64 Daewoo
69 Other Imports
70 BSA
71 Ducati
72 Harley-Davidson
73 Kawasaki
74 Moto-Guzzi
75 Norton
76 Yamaha
80 Brockway
81 Diamond Reo
82 Freightliner
83 FWD
84 International Harvester
85 Kenworth
86 Mack
87 Peterbilt
88 Iveco/Magirus
89 White/Autocar - White GMC
90 Bluebird
91 Eagle Coach
92 Gillig
93 MCI
94 Thomas Built
98 Other Make
99 Unknown Make

(Continued on Next Page)

Vehicle Make

1991 and later

Variable = MAKE

Values = [In Alphabetical order]

54 Acura
31 Alfa Romeo
03 AM General
01 American Motors
32 Audi
33 Austin/Healey
34 BMW
80 Brockway
70 BSA
90 Bluebird
18 Buick
19 Cadillac
20 Chevrolet
06 Chrysler
60 Daihatsu
64 Daewoo
81 Diamond Reo
07 Dodge
71 Ducati
10 Eagle
91 Eagle Coach
36 Fiat
12 Ford
82 Freightliner
83 FWD
92 Gillig
23 GMC
25 Grumman
72 Harley-Davidson
37 Honda
55 Hyundai
08 Imperial
58 Infiniti
84 International Harvester
38 Isuzu
88 Iveco/Magirus
39 Jaguar
02 Jeep
73 Kawasaki
85 Kenworth
63 KIA
40 Lancia
62 Land Rover
59 Lexus
13 Lincoln
86 Mack
41 Mazda
93 MCI
42 Mercedes-Benz
14 Mercury
56 Merkur
43 MG
52 Mitsubishi
74 Moto-Guzzi
35 Nissan/Datsun
75 Norton
21 Oldsmobile
98 Other Make
69 Other Imports
29 Other Domestic
87 Peterbilt
44 Peugeot
09 Plymouth
22 Pontiac
45 Porsche
46 Renault
47 Saab
24 Saturn
61 Sterling
48 Subaru
53 Suzuki
94 Thomas Built
49 Toyota
50 Triumph
99 Unknown Make
30 Volkswagen
51 Volvo
89 White/Autocar - White GMC
76 Yamaha
57 Yugo

(Continued on Next Page)

Vehicle Make (Continued)

1975 to 1990

Variable = MAKE

Values = [In numerical order]

01 American Motors
02 Jeep
03 Am General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle (Not before 1988)
12 Ford
13 Lincoln
14 Mercury
18 Buick
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
29 Other Domestic
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Healey
34 BMW
35 Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi (Not before 1982)
53 Suzuki (Not before 1987)
57 Lexus (Not before 1988)
58 Infinity (Not before 1988)
59 Other Imports
60 BSA
61 Ducati
62 Harley-Davidson
63 Kawasaki
64 Moto-Guzzi
65 Norton
67 Yamaha
69 Other Motor Cycle
70 Moped
80 Brockway
81 Diamond Reo
82 Freightliner
83 FWD
84 International Harvester
85 Kenworth
86 Mack
87 Peterbilt
88 White
95 Other Truck/Bus
98 Other Make
99 Unknown Make

Note: For 1986 and earlier data, one may have to refer to the first several values, 01-09, with a single digit rather than a double digit with a leading "0", zero. E.g. 6 for Chrysler rather than 06 for Chrysler. This may be system dependent.

(Continued on Next Page)

Vehicle Make

1975 to 1990

Variable = MAKE

Values = [In Alphabetical order]

31 Alfa Romeo
03 Am General
01 American Motors
32 Audi
33 Austin/Healey
34 BMW
80 Brockway
60 BSA
18 Buick
19 Cadillac
20 Chevrolet
06 Chrysler
35 Datsun
81 Diamond Reo
07 Dodge
61 Ducati
10 Eagle (Not before 1988)
36 Fiat
12 Ford
82 Freightliner
83 FWD
23 GMC
62 Harley-Davidson
37 Honda
08 Imperial
58 Infinity (Not before 1990)
84 International Harvester
38 Isuzu
39 Jaguar
02 Jeep
63 Kawasaki
85 Kenworth
40 Lancia
57 Lexus (Not before 1990)
13 Lincoln
86 Mack
41 Mazda
42 Mercedes-Benz
14 Mercury
43 MG
52 Mitsubishi (Not before 1982)
70 Moped
64 Moto-Guzzi
65 Norton
21 Oldsmobile
98 Other Make
69 Other Motor Cycle
95 Other Truck/Bus
59 Other Imports
29 Other Domestic
87 Peterbilt
44 Peugeot
09 Plymouth
22 Pontiac
45 Porsche
46 Renault
47 Saab
48 Subaru
53 Suzuki (Not before 1987)
49 Toyota
50 Triumph
99 Unknown Make
30 Volkswagen
51 Volvo
88 White
67 Yamaha

Note: For 1986 and earlier data, one may have to refer to the first several values, 01-09, with a single digit rather than a double digit with a leading "0", zero. E.g. 6 for Chrysler rather than 06 for Chrysler. This may be system dependent.

Vehicle Maneuver

1982 and later

Variable = VEH_MAN

Values =
01 Going Straight
02 Slowing or Stopping in Traffic Lane
03 Starting in Traffic Lane
04 Stopped in Traffic Lane
05 Passing or Overtaking Another Vehicle
06 Leaving a Parked Position
07 Parked
08 Entering a Parked Position
09 Maneuvering to Avoid
10 Turning Right: Right Turn On Red Permitted
11 Turning Right: Right Turn On Red Not Permitted
12 Turning Right: Right Turn On Red Not Applicable or Not Known if Permitted
13 Turning Left
14 Making a U-Turn
15 Baking up (not parking)
16 Changing Lanes or Merging
17 Negotiating a Curve
98 Other
99 Unknown

VEH_MAN is the maneuver that the driver was executing just prior to entering a crash situation. For the maneuver that the driver executed to attempt to avoid the crash, see the variable AVOID under Crash Avoidance Maneuver.

Vehicle Model

1991 and later

The make data are concatenated with the model data to form the make model variable. The first two digits identifies the make, the last three digits identifies the model. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

Variable = MAK_MOD

Values =

01001 AMER Rambler/American
01002 AMER Rebel/Matador
01003 AMER Ambassador
01004 AMER Pacer
01005 AMER AMX
01006 AMER Javelin
01007 AMER Hornet/Concord
01008 AMER Spirit/Gremlin
01009 AMER Eagle
01010 AMER Eagle SX-4
01398 AMER Other
01399 AMER Unknown
02401 JEEP CJ-2/CJ-3/CJ-4
02402 JEEP CJ-5/CJ-6/CJ-7/CJ-8
02403 JEEP YJ-Wrangler
02404 JEEP Cherokee (84 on)
02404 JEEP Liberty (Since 2002)
02421 JEEP Cherokee (thru 83)
02431 JEEP Grand Wagoneer
02481 JEEP Pick-up
02482 JEEP Comanche
02498 JEEP Other Truck
02499 JEEP Unknown Truck
03401 AM Dispatcher
03421 AM Hummer SUV (Since 1993)
03466 AM Dispatcher DJ
03481 AM Hummer Pickup (Since 2002)
03498 AM Other Light Truck
03499 AM Unknown Light Truck
03884 AM Medium/Heavy Truck
03898 AM Other Medium/Heavy Truck
03899 AM Unknown Medium/Heavy
03983 AM Bus rear engine
03988 AM Bus Other
03989 AM Unknown But Type
03998 AM Other Vehicle
03999 AM Unknown
06009 CHRY Cordoba
06010 CHRY Newport/New Yorker
06014 CHRY New Yorker/E-Class
06015 CHRY Laser
06016 CHRY LeBaron
06017 CHRY LeBaron GTS/GTC
06031 CHRY TC Maserati (1988-1991)
06035 CHRY Conquest
06041 CHRY Concord (Since 1993)
06042 CHRY LHS (Since 1994)
06043 CHRY Sebring (Since 1995)
06044 CHRY Cirrus (Since 1995)
06050 CHRY Executive
06051 CHRY 300M
06052 CHRY PT Cruiser
06053 CHRY Prowler (Since 2002)
06398 CHRY Other Auto
06399 CHRY Unknown Auto
06441 CHRY Town & Country Lt Truck
06442 CHRY Voyager (Since 2001)

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

06499 CHRY Unknown Light Truck (Since 2001)
06999 CHRY Unknown
07001 DODG Dart
07002 DODG Coronet/Charger/Magnum
07003 DODG Polara/Monaco
07004 DODG Viper (Since 1992)
07005 DODG Challenger
07006 DODG Aspen
07007 DODG Diplomat
07008 DODG Omni
07009 DODG Mirada
07010 DODG St Regis
07011 DODG Aries
07012 DODG 400
07013 DODG Rampage (car)
07014 DODG 600
07015 DODG Daytona
07016 DODG Lancer
07017 DODG Shadow
07018 DODG Dynasty
07019 DODG Spirit
07020 DODG Neon (Since 1995)
07033 DODG Challenger-import
07034 DODG Colt
07035 DODG Conquest
07039 DODG Stealh
07040 DODG Monaco
07041 DODG Intrepid (Since 1993)
07042 DODG Avenger (Since 1995)
07043 DODG Stratus (Since 1995)
07398 DODG Other Auto
07399 DODG Unknown Auto
07401 DODG Raider
07421 DODG Ramchager
07441 DODG Vista Van
07442 DODG Caravan
07461 DODG B-series Pickup
07470 DODG Van Derivativ

07471 DODG D50,Colt Pickup,Ram
07472 DODG Dakota
07481 DODG D,W-series Pickup
07482 DODG Ram Pickup (Since 1994)
07498 DODG Other light Truck
07499 DODG Unknown light Truck
07850 DODG Motorhome
07881 DODG CBE
07882 DODG COE lo ent
07883 DODG COE hi ent
07884 DODG Unknown engine location
07890 DODG COE unknown ent
07898 DODG Other medium/heavy
07899 DODG Unknown medium/heavy
07981 DODG Conventional Bus
07988 DODG Other Bus
07998 DODG Other Veh
07999 DODG Unknown
08010 IMPL Imperial
08398 IMPL Other Auto
08399 IMPL Unknown
08999 IMPL Unknown Auto
09001 PLYM Valiant/Duster/Scamp
09002 PLYM Satellite/Belvedere
09003 PLYM Fury
09004 PLYM Gran Fury
09005 PLYM Barracuda
09006 PLYM Volare
09007 PLYM Caravelle
09008 PLYM Horizon/Turismo
09011 PLYM Reliant(K)
09013 PLYM Scamp-auto pickup
09017 PLYM Sundance
09019 PLYM Acclaim
09020 PLYM Neon (Since 1995)
09031 PLYM Cricket
09032 PLYM Arrow
09033 PLYM Sapporo
09034 PLYM Champ/Colt import

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

09035 PLYM Conquest
09037 PLYM Laser
09038 PLYM Breeze (Since 1996)
09039 PLYM Prowler (Since 1996)
09398 PLYM Other Auto
09399 PLYM Unknown Auto
09401 PLYM Trailduster
09441 PLYM Vista
09442 PLYM Voyager (1991-2000 only)
09461 PLYM B-series Van
09471 PLYM Arrow Pickup
09498 PLYM Other light truck
09499 PLYM Unknown light truck
09998 PLYM Other Vehicle
09999 PLYM Unknown
10034 EAGL Summit
10037 EAGL Talon
10040 EAGL Premier
10041 EAGL Vision (Since 1993)
10044 EAGL Medallion
10398 EAGL Other Auto
10399 EAGL Unknown Auto
10441 EAGL Summit Wagon (Since 1993)
10999 EAGL Unknown
12001 FORD Falcon
12002 FORD Fairlane
12003 FORD Mustang/Mustang II
12004 FORD Thunderbird
12005 FORD LTD II
12006 FORD LTD/Galaxy/Custom
12007 FORD Ranchero
12008 FORD Maverick
12009 FORD Pinto
12010 FORD Torino/Gran Torino/Elite
12011 FORD Granada
12012 FORD Fairmont
12013 FORD Escort/EXP
12015 FORD Tempo
12016 FORD Crown Victoria
12017 FORD Taurus
12018 FORD Probe
12031 FORD English Ford
12032 FORD Fiesta
12033 FORD Festiva
12035 FORD Contour (Since 1994)
12036 FORD Aspire (Since 1994)
12037 FORD Focus (Since 2000)
12398 FORD Other Auto
12399 FORD Unknown Auto
12401 FORD Bronco II/Explorer
12402 FORD Escape
12421 FORD Bronco-fullsize
12422 FORD Expediton (Since 1996)
12423 FORD Excursion
12441 FORD Aerostar
12442 FORD Windstar (Since 1995)
12461 FORD E-series Van
12470 FORD Van derivative
12471 FORD Ranger
12472 FORD Courier
12481 FORD F-series Pickup
12498 FORD Other light truck
12499 FORD Unknown light truck
12850 FORD Motorhome
12880 FORD Med/Heavy Pickup (Since 2001)
12881 FORD Truck CBE
12882 FORD Truck COE lo ent
12883 FORD Truck COE hi ent
12884 FORD Medium/Heavy Truck Unknown Engine Location
12890 FORD Truck COE Unknown ent
12898 FORD Other Medium/Heavy Truck
12899 FORD Unknown Medium/Heavy Truck
12981 FORD Conventional Bus
12988 FORD Other Bus
12998 FORD Other Vehicle
12999 FORD Unknown

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

13001 LINC TownCar/Continental
13002 LINC Mark 13005 LINC Continental
13011 LINC Versailles
13398 LINC Other Auto
13399 LINC Unknown Auto
13421 LINC Navigator (Since 1997)
13481 LINC Blackwood (Since 2001)
13499 LINC Unknown Light Truck (Since 2001)
13999 LINC Unknown
14002 MERC Cyclone
14003 MERC Capri-domestic
14004 MERC Cougar XR7
14006 MERC Marquis/Monterey
14008 MERC Comet
14009 MERC Bobcat
14010 MERC Montego
14011 MERC Monarch
14012 MERC Zephyr
14013 MERC Lynx/LN7 (1982-1983)
14015 MERC Topaz
14017 MERC Sable
14031 MERC Capri-foreign
14033 MERC Pantera-foreign
14036 MERC Tracer
14037 MERC Mystique (Since 1995)
14398 MERC Other Auto
14399 MERC Unknown Auto
14401 MERC Mountaineer (Since 1996)
14443 MERC Villager (Since 1993)
14499 MERC Light Truck (Unknown)
14999 MERC Unknown
18001 BUIC Special/Skylark
18002 BUIC Lesabre/Wildcat/Centurion
18003 BUIC Electra/Park Avenue
18004 BUIC Roadmaster
18005 BUIC Riviera
18007 BUIC Century
18008 BUIC Apollo/Skylark(75)

18010 BUIC Rega
18012 BUIC Skyhawk
18015 BUIC Skylark(76-85)
18018 BUIC Somerset/Skylark(86+)
18020 BUIC Regal FWD
18021 BUIC Reatta
18031 BUIC Opel Kadette
18032 BUIC Opel Manta
18033 BUIC Opel GT
18034 BUIC Opel Isuzu
18398 BUIC Other Auto
18399 BUIC Unknown Auto
19003 CADI Deville/Fleetwood
19004 CADI Limousine
19005 CADI Eldorado
19006 CADI Commercial Series
19009 CADI Allante
19014 CADI Seville
19016 CADI Cimarron
19017 CADI Catera (Since 1997)
19398 CADI Other Auto
19399 CADI Unknown Auto
19421 CADI Escalade/lt truck (Since 1999)
19421 CADI Escalade/EXT (Since 2002)
19499 CADI Unknown Light Truck (Since 2002)
20001 CHEV Malibu/Chevelle
20002 CHEV Caprice/Impala
20004 CHEV Corvette
20006 CHEV Corvair
20007 CHEV El Camino
20008 CHEV Nova
20009 CHEV Camaro
20010 CHEV Monte Carlo
20011 CHEV Vega
20012 CHEV Monza
20013 CHEV Chevette
20015 CHEV Citation
20016 CHEV Cavalier

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

20017 CHEV Celebrity
20443 CHEV Ventura (Since 1997)
20461 CHEV G-series Van
20466 CHEV P-series Van
20470 CHEV Van Derivative
20471 CHEV S-10,T-10
20472 CHEV LUV
20481 CHEV C,K,R,V-series Pickup
20482 CHEV Avalanche
20498 CHEV Other light truck
20499 CHEV Unknown light truck
20850 CHEV Motorhome
20881 CHEV CBE
20882 CHEV COE lo ent
20883 CHEV COE hi ent
20884 CHEV Unknown engine location
20890 CHEV COE Unknown ent
20898 CHEV Other medium/heavy
20899 CHEV Unknown medium/heavy
20981 CHEV Conventional Bus
20988 CHEV Other Bus
20998 CHEV Other Vehicle
20999 CHEV Unknown
21001 OLDS Cutlass RWD
21002 OLDS Delta 88
21003 OLDS Ninety-Eight
21005 OLDS Toronado
21006 OLDS Commercial Series
21012 OLDS Starfire
21015 OLDS Omega
21016 OLDS Firenza
21017 OLDS Ciera
21018 OLDS Calais
21020 OLDS Cutlass FWD
21021 OLDS Achieva
21022 OLDS Aurora
21023 OLDS Intrigue (Since 1997)
21398 OLDS Other Auto
21399 OLDS Unknown Auto
21401 OLDS Bravada
21441 OLDS Silhouette
21498 OLDS Other light truck
21499 OLDS Unknown Light Truck
21999 OLDS Unknown
22001 PONT Lemans/Tempest
22002 PONT Bonneville/Catalina
22005 PONT Fiero
22008 PONT Ventura
22009 PONT Firebird/Trans AM
22010 PONT Grand Prix RWD
22011 PONT Astre
22012 PONT Sunbird
22013 PONT T-1000/1000
22015 PONT Phoenix
22016 PONT J-2000/Sunbird/Sunfire
22017 PONT 6000
22018 PONT Grand AM
22020 PONT Grand Prix
22031 PONT Lemans (88+)
22398 PONT Other Auto
22399 PONT Unknown Auto
22399 PONT Vibe (Lt Truck) (Since 2002)
22441 PONT Trans Sport
22999 PONT Unknown
23007 GMC Caballero/Sprint
23401 GMC Jimmy/S-15 based/Envoy
23421 GMC Jimmy fullsize
23431 GMC Suburban
23441 GMC Safari
23461 GMC G-series Van
23466 GMC P-series Van
23470 GMC Van Derivative
23471 GMC S15/Somona
23481 GMC C,K,R,V-series Pickup
23498 GMC Other light truck
23499 GMC Unknown light truck
23850 GMC Motorhome
23881 GMC CBE

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

23882 GMC COE lo ent
23883 GMC COE hi ent
23884 GMC Unknown engine location
23890 GMC COE Unknown ent
23898 GMC Other medium/heavy
23899 GMC Unknown medium/heavy
23981 GMC Conventional Bus
23988 GMC Other Bus
23998 GMC Other Vehicle
23999 GMC Unknown
24001 SATN SL
24002 SATN SC
24003 SATN SW
24004 SATN EV1 (Since 1997)
24005 SATN LS
24006 SATN LW
24398 SATN Other Auto
24399 SATN Unknown Auto
24401 SATN Vue (Since 2002)
24999 SATN Unknown Saturn (Since 2002)
29001 STUDEBAKER/AVANTI
29002 CHECKER
29003 PANOZ
29004 SALEEN
29398 OTHER DOMESTIC
29339 Unknown Make
30031 VW Karmann Ghia
30032 VW Beetle 1300/1500
30033 VW Super Beetle
30034 VW 411/412
30035 VW Squareback/Fastback
30036 VW Rabbit
30037 VW Dasher
30038 VW Scirocco
30040 VW Jetta
30041 VW Quantum
30042 VW Golf/Cabriolet/Cabrio
30043 VW Rabbit Pickup
30044 VW Fox

30045 VW Corrado
30046 VW Passat
30398 VW Other Auto
30399 VW Unknown Auto
30401 VW The Thing
30441 VW Vanagon/Camper
30442 VW Euovan (92-93)
30498 VW Other light truck
30499 VW Unknown light truck
30998 VW Other Vehicle
30999 VW Unknown
31031 ALFA Spider
31032 ALFA Sports Sedan
31033 ALFA Sprint Velocatione
31034 ALFA GTV-6
31035 ALFA 164
31398 ALFA Other Auto
31399 ALFA Unknown Auto
32031 AUDI Super 90
32032 AUDI 100
32033 AUDI Fox
32034 AUDI 4000
32035 AUDI 5000
32036 AUDI 80/90
32037 AUDI 200
32038 AUDI V-8 Quattro
32039 AUDI Coupe Quattro (90-91)
32040 AUDI S4/S6 (92-95)
32041 AUDI Cabriolet (Since 1994)
32042 AUDI A6 (Since 1995)
32043 AUDI A4 (Since 1996)
32044 AUDI A8 (Since 1997)
32045 AUDI TT FWD, Quattro (Since 1999)
32046 AUDI S8 (Since 2001)
32047 AUDI Allroad (Since 2001)
32398 AUDI Other Auto
32399 AUDI Unknown Auto
33031 AUST Marina
33032 AUST America

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

33033 AUST Healey Sprite
33034 AUST Healey 100/3000
33035 AUST Mini/Mini Cooper/Moke
33398 AUST Other Auto
33399 AUST Unknown Auto
34031 BMW 1600/1800/2000/2002
34032 BMW Coupe (before 1975)
34033 BMW Bavarian Sedan
34034 BMW 3-series
34035 BMW 5-series
34036 BMW 6-series
34037 BMW 7-series
34038 BMW 8-series
34039 BMW Z3 (Since 1996)
34040 BMW Z8 (Since 2000)
34041 BMW SL 500 (Since 2002)
34398 BMW Other Auto
34399 BMW Unknown Auto
34401 BMW X5 Light Truck (Since 2000)
34701 BMW 0-50cc
34702 BMW 51-124cc
34703 BMW 125-349cc
34704 BMW 350-449cc
34705 BMW 450-749cc
34706 BMW 750cc & over
34709 BMW Unknown cc
34999 BMW Unknown
35031 NISS F-10
35032 NISS 200SX/240SX
35033 NISS B210/210/1200
35034 NISS Z-car,ZX
35035 NISS 310
35036 NISS 510
35037 NISS 610
35038 NISS 710
35039 NISS 810/Maxima
35040 NISS Roadster
35041 NISS 311/PL411/RL411
35042 NISS Stanza
35043 NISS Sentra
35044 NISS Pulsar
35045 NISS Micra
35046 NISS NX 1600/2000 (1991-1994)
35047 NISS Altima/Quest (Since 1993)
35398 NISS Other Auto
35399 NISS Unknown Auto
35401 NISS Pathfinder
35402 NISS Xterra (Since 1999)
35441 NISS Van
35442 NISS Axxess
35444 NISS Altra EV elec. veh. (Since 1999)
35471 NISS Datsun/Nissan Pickup
35498 NISS Other light truck
35499 NISS Unknown light truck
35883 NISS COE hi entry
35898 NISS Other medium/heavy truck
35899 NISS Unknown medium/heavy truck
35999 NISS Unknown
36031 FIAT 124 Coupe/Sedan
36032 FIAT 124 Spider/Racer
36033 FIAT Brava/131
36034 FIAT 850 Coupe/Spider
36035 FIAT 128
36036 FIAT X-1/9
36037 FIAT Strada
36398 FIAT Other Auto
36399 FIAT Unknown Auto
36882 FIAT COE lo ent
36883 FIAT COE hi ent
36890 FIAT COE Unknown Entry
36898 FIAT Other medium/heavy truck
36899 FIAT Unknown med/heavy truck
36998 FIAT Other Vehicle
36999 FIAT Unknown
37031 HOND Civic/CRX
37032 HOND Accord
37033 HOND Prelude

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

37034 HOND 600
37036 HOND EV Plus Electric (Since 1999)
37037 HOND Insight
37398 HOND Other Auto
37399 HOND Unknown Auto
37401 HOND Passport (Since 1994)
37402 HOND CR-V (Since 1997)
37441 HOND Odyssey (Since 1995)
37498 HOND Other Light Truck
37499 HOND Unknown Light Truck
37701 HOND 0-50cc
37702 HOND 51-124cc
37703 HOND 125-349cc
37704 HOND 350-449cc
37705 HOND 450-749cc
37706 HOND 750cc & over
37709 HOND Unknown cc
37731 HOND ATV 0-50cc
37732 HOND ATV 51-124cc
37733 HOND ATV 125-349cc
37734 HOND ATV 350cc & over
37739 HOND Unknown cc
37999 HOND Unknown
38031 ISUZ I-Mark
38032 ISUZ Impulse
38033 ISUZ Stylus
38398 ISUZ Other Auto
38399 ISUZ Unknown Auto
38401 ISUZ Trooper/Trooper II
38402 ISUZ Rodeo
38403 ISUZ Amigo
38441 ISUZ Oasis
38471 ISUZ Pup Pickup
38472 ISUZ Hombre
38498 ISUZ Other light truck
38499 ISUZ Unknown light truck
38881 ISUZ Medium/Heavy CBE
38882 ISUZ Medium/Heavy COE lo ent
38883 ISUZ Medium/Heavy COE hi ent

38884 ISUZ Unknown Engine Location
38890 ISUZ Medium/Heavy COE Unknown Ent
38898 ISUZ Other medium/heavy
38899 ISUZ Unknown medium/heavy
38981 ISUZ Conventional Bus Engine out front
38982 ISUZ Bus front engine flat front
38997 ISUZ Other Bus
38999 ISUZ Unknown
39031 JAG XJ-S/XK8 Coupe
39032 JAG XJ6/12/XJR Sedan/Coupe
39033 JAG XK-E
39398 JAG Other Auto
39399 JAG Unknown Auto
40031 LANC Beta Seda
40032 LANC Beta Coupe/Zagato
40033 LANC Scorpion
40398 LANC Other Auto
40399 LANC Unknown Auto
41031 MAZD RX2
41032 MAZD RX3
41033 MAZD RX4
41034 MAZD RX7
41035 MAZD GLC/323/Protege
41036 MAZD Cosmo
41037 MAZD 626
41038 MAZD 808
41039 MAZD Mizer
41040 MAZD R-100
41041 MAZD 616/618
41042 MAZD 1800
41043 MAZD 929
41044 MAZD MX-6
41045 MAZD Miata//MX-5
41046 MAZD MX-3/Galaxy
41047 MAZD Millenia
41398 MAZD Other auto
41399 MAZD Unknown auto

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Vehicle Model - 1991 and later (Continued)

41401 MAZD Navajo
41402 MAZD Tribute (Since2001)
41441 MAZD MPV
41471 MAZD Pickup
41498 MAZD Other light truck
41499 MAZD Unknown light truck
41999 MAZD Unknown
42031 MERZ 200-420 Sedan/Coupe
42032 MERZ 230/280 SL 2-pass
42033 MERZ 300-560 SL 2-pass
42034 MERZ 350-560 SLC
42035 MERZ 280/300 SEL
42036 MERZ 380-560 SEL/SEC
42037 MERZ 300-450 SE
42038 MERZ 600,6.9 Sedan
42039 MERZ 190
42040 MERZ 300
42041 MERZ 400/500E
42042 MERZ C Class
42043 MERZ S Class
42044 MERZ SL Class
42045 MERZ SLK Class
42398 MERZ Other Auto
42399 MERZ Unknown Auto
42402 MERZ G Class (Since 2002)
42461 MERZ Sprinter (Since 2002)
42470 MERZ Van Derivative
42881 MERZ CBE
42882 MERZ COE lo ent
42883 MERZ COE hi ent
42884 MERZ Unknown engine location
42890 MERZ COE Unknown ent
42898 MERZ Other medium/heavy
42899 MERZ Unknown medium/heavy
42981 MERZ Conventional Bus
42988 MERZ Other Bus
42998 MERZ Other Vehicle
42999 MERZ Unknown
43031 MG Midget
43032 MG MGB/MK GAN I/II/III/4/5 MK I/II
43033 MG MGB GT/MKIII
43034 MG MGA
43035 MG TA/TC/TD/TF
43036 MG MGC
43037 MG Magnette/Sports Sedans
43398 MG Other Auto
43399 MG Unknown Auto
44031 PEUG 304
44032 PEUG 403
44033 PEUG 404
44034 PEUG 504/505
44035 PEUG 604
44036 PEUG 405
44398 PEUG Other auto
44399 PEUG Unknown auto
44701 PEUG 0-50cc
44702 PEUG 51-124cc
44799 PEUG Unknown cc
44999 PEUG Unknown
45031 PORS 911
45032 PORS 912
45033 PORS 914
45034 PORS 924
45035 PORS 928
45036 PORS 930
45037 PORS 944
45038 PORS 959
45039 PORS 968
45040 PORS Boxter
45398 PORS Other Auto
45399 PORS Unknown Auto
46031 RENA LeCar
46032 RENA Dauphine/10/R-8/Caravelle
46033 RENA 12
46034 RENA 15
46035 RENA 16
46036 RENA 17

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

46037 RENA R18i/Sportwagon
46038 RENA Fuego
46039 RENA Alliance/Encore/ GTA/Converible
46041 RENA Alpine
46044 RENA Medallion
46045 RENA Premier
46398 RENA Other Auto
46399 RENA Unknown Auto
47031 SAAB 99/99E/900
47032 SAAB Sonnet
47033 SAAB 95/96/97
47034 SAAB 9000
47398 SAAB Other Auto
47399 SAAB Unknown Auto
48031 SUBA DL/FE/G/GF/GL /GLF/STD/Loyale
48032 SUBA Star
48033 SUBA 360
48034 SUBA Legacy
48035 SUBA XT/XT6
48036 SUBA Justy
48037 SUBA SVX
48038 SUBA Impreza
48039 SUBA RX
48043 SUBA Brat
48398 SUBA Other Auto
48399 SUBA Unknown Auto
48401 SUBA Steega light truck
48999 SUBA Unknown
49031 TOYT Corona
49032 TOYT Corolla
49033 TOYT Celica
49034 TOYT Supra
49035 TOYT Cressida
49036 TOYT Crown
49037 TOYT Carina
49038 TOYT Tercel
49039 TOYT Starlet
49040 TOYT Camry

49041 TOYT MR-2/(MR Spyder Since 2000)
49042 TOYT Paseo
49043 TOYT Avalon
49044 TOYT Solara
49045 TOYT ECHO
49046 TOYT Pirus (Since 2001)
49398 TOYT Other Auto
49399 TOYT Unknown Auto
49401 TOYT 4-Runner
49402 TOYT RAV4
49403 TOYT Highlander (Since 2001)
49421 TOYT Landcruiser
49422 TOYT Sequoia (Since 2001)
49441 TOYT Minivan/Previa
49471 TOYT Pickup
49472 TOYT Tacoma
49481 TOYT T-100
49482 TOYT Tundra (Since 1999)
49498 TOYT Other light truck
49499 TOYT Unknown light truck
49999 TOYT Unknown
50031 TRUI Spitfire
50032 TRUI GT-6
50033 TRUI Tr4
50034 TRUI Tr6
50035 TRUI Tr7/Tr8
50036 TRUI Herald
50037 TRUI Stag
50398 TRUI Other Auto
50399 TRUI Unknown Auto
50701 TRUI 0-50cc
50702 TRUI 51-124 cc
50703 TRUI 125-349 cc
50704 TRUI 350-449 cc
50705 TRUI 450-749 cc
50706 TRUI 750cc & over
50799 TRUI Unknown cc
50999 TRUI Unknown
51031 VOLV 122

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

51032 VOLV 140/142/144/145
51033 VOLV 164
51034 VOLV 240/242/244/245
51035 VOLV 262/264/265
51036 VOLV 1800
51037 VOLV P-544
51038 VOLV 760/780
51039 VOLV 740
51040 VOLO 940
51041 VOLO 960
51042 VOLO 850
51043 VOLO 70 Series
51044 VOLO 90 Series
51045 VOLO 80 Series
51042 VOLO 40 Series
51042 VOLO 60 Series (Since 2001)
51398 VOLV Other Auto
51399 VOLV Unknown Auto
51881 VOLV Medium/Heavy CBE
51882 VOLV Medium/Heavy COE lo ent
51883 VOLV Medium/Heavy COE hi ent
51884 VOLV Unknown engine location
51890 VOLV Med/Heavy Unknown. entry
51898 VOLV Other medium/heavy
51899 VOLV Unknown medium/heavy
51981 VOLV Conventional Bus
51997 VOLV Other Bus
51999 VOLV Unknown
52031 MITS Starion
52032 MITS Tredia
52033 MITS Cordia
52034 MITS Galant
52035 MITS Mirage
52036 MITS Precis
52037 MITS Eclipse
52038 MITS Sigma
52039 MITS 3000 GT
52040 MITS Diamonte
52046 MITS Lancer (Since 2002)
52398 MITS Other Auto
52399 MITS Unknown Auto
52401 MITS Montero
52441 MITS Mini-van
52442 MITS Expo Wagon
52471 MITS Pickup
52498 MITS Other light truck
52499 MITS Unknown light truck
52882 MITS COE Medium/Heavy lo ent
52898 MITS Other medium/heavy truck
52899 MITS Unknown medium/heavy truck
52981 MITS Conventional Bus
52982 MITS Bus front engine
52983 MITS Bus rear engine
52997 MITS Other Bus
52998 MITS Other Vehicle
52999 MITS Unknown
53031 SUZU Swift/SA310
53032 SUZU Esteem
53398 SUZU Other Auto
53399 SUZU Unknown Auto
53401 SUZU Samarai
53402 SUZU Sidekick/Vitara/ GrandVitara/ XL7
53403 SUZU X-90
53498 SUZU Other light truck
53499 SUZU Unknown light truck
53701 SUZU 0-50cc
53702 SUZU 51-124cc
53703 SUZU 125-349cc
53704 SUZU 350-499cc
53705 SUZU 450-749cc
53706 SUZU 750cc or greater
53731 SUZU ATV 0-50cc
53732 SUZU ATV 51-124cc
53733 SUZU ATV 125-349cc
53734 SUZU ATV 350cc or greater
53739 SUZU ATV Unknown cc
53999 SUZU Unknown

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

54034 INFI J30
54035 INFI I30
58398 INFI Other Auto
58399 INFI Unknown Auto
58401 INFI QX4 Light Truck
58999 INFI Unknown
59031 LEXS ES-250/ES-300
59032 LEXS LS-400(/430 Since 2001)
59033 LEXS SC-400/SC-300
59034 LEXS GS-300/400(/430 Since 2001)
59398 LEXS Other Auto
59399 LEXS Unknown Auto
59421 LEXS LX450
59499 LEXS Unknown Light Truck (Since 2001)
59999 LEXS Unknown
60031 DAIH Charade
60398 DAIH Other Auto
60399 DAIH Unknown Auto
60401 DAIH Rocky
60498 DAIH Other light truck
60499 DAIH Unknown light truck
60998 DAIH Other Vehicle
60999 DAIH Unknown
61031 STER 827S
61398 STER Other Auto
61399 STER Unknown Auto
62401 LAND ROVER Discovery
62402 LAND ROVER Defender
62421 LAND ROVER Range Rover
62422 LAND ROVER Freelander (Since 2002)
62498 LAND ROVER Other light truck
62499 LAND ROVER Unknown light truck
63031 KIA Sephia
63032 KIA Rio (Since 2001)
63033 KIA Spectra (Since 2001)
63034 KIA Optima (Since 2001)
63401 KIA Sportage
63441 KIA Sedona (Since 2002)

63499 KIA Unknown Light Truck (Since 2002)
64031 DAEWOO Lanos S SE (Since 1999)
64032 DAEWOO Nubira SX CDX (1999)
64033 DAEWOO Leganza (Since 1999)
69031 ASTON MARTIN
69032 BRICKLIN
69033 CITROEN
69034 DELOREAN
69035 FERRARI
69036 HILLMAN
69037 JENSEN
69038 LAMBORGHINI
69039 LOTUS
69040 MASERATI
69041 MORRIS
69054 MINI-COOPER
69042 ROLLS ROYCE/BENTLEY
69044 SIMCA
69045 SUNBEAM
69046 TVR
69048 DESTA
69049 RELIANT
69052 BERTONE
69053 LADA
69398 OTHER IMPORT
69999 IMPORT/MAKE UNKNOWN
70701 BSA 0-50cc
70702 BSA 51-124cc
70703 BSA 125-349cc
70704 BSA 350-449cc
70705 BSA 450-749cc
70706 BSA 750cc & over
70709 BSA Unknown cc
71701 DUCA 0-50cc
71702 DUCA 51-124cc
71703 DUCA 125-349cc
71704 DUCA 350-449cc
71705 DUCA 450-749cc
71706 DUCA 750cc & over

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

71799 DUCA Unknown cc
72701 HD 0-50cc
72702 HD 51-124cc
72703 HD 125-349cc
72704 HD 350-449cc
72705 HD 450-749cc
72706 HD 750cc & over
72799 HD Unknown cc
73701 KAWA 0-50cc
73702 KAWA 51-124cc
73703 KAWA 125-349cc
73704 KAWA 350-449cc
73705 KAWA 450-749cc
73706 KAWA 750cc & over
73731 KAWA ATV 0-50cc
73732 KAWA ATV 51-124cc
73733 KAWA ATV 125-349cc
73734 KAWA ATV 350cc & over
73799 KAWA Unknown cc
73998 KAWA Other Vehicle
73999 KAWA Unknown
74701 MOTO 0-50cc 74702 MOTO 51-124cc
74703 MOTO 125-349cc
74704 MOTO 350-449cc
74705 MOTO 450-749cc
74706 MOTO 750cc & over
74799 MOTO Unknown cc
75701 NORT 0-50cc
75702 NORT 51-124cc
75703 NORT 125-349cc
75704 NORT 350-449cc
75705 NORT 450-749cc
75706 NORT 750cc & over
75799 NORT Unknown cc
76701 YAMA 0-50cc
76702 YAMA 51-124cc
76703 YAMA 125-349cc
76704 YAMA 350-449cc
76705 YAMA 450-749cc
76706 YAMA 750cc & over
76731 YAMA ATV 0-50cc
76732 YAMA ATV 51-124cc
76733 YAMA ATV 125-349cc
76734 YAMA ATV 350cc & over
76799 YAMA Unknown cc
76998 YAMA Other Vehicle
76999 YAMA Unknown
80850 BROC Motorhome
80881 BROC CBE
80882 BROC COE lo ent
80883 BROC COE hi ent
80884 BROC Unknown engine location
80890 BROC COE Unknown ent
80898 BROC Other medium/heavy
80899 BROC Unknown medium/heavy
80981 BROC Conventional Bus
80982 BROC Bus front engine
80983 BROC Bus rear engine
80988 BROC Other Bus
80998 BROC Other Vehicle
80999 BROC Unknown
81950 DIAM Truck Motorhome
81881 DIAM CBE
81882 DIAM COE lo ent
81883 DIAM COE hi ent
81884 DIAM Unknown engine location
81890 DIAM COE Unknown ent
81898 DIAM Other medium/heavy
81899 DIAM Unknown medium/heavy
81981 DIAM Conventional Bus
81982 DIAM Bus front engine
81983 DIAM Bus rear engine
81988 DIAM Other Bus
81998 DIAM Other Vehicle
81999 DIAM Unknown
82850 FRHT Truck Motorhome
82881 FRHT CBE
82882 FRHT COE lo ent

(Continued on Next Page)

Vehicle Model - 1991 and later (Continued)

82883 FRHT COE hi ent
82884 FRHT Unknown engine location
82890 FRHT COE Unknown ent
82898 FRHT Other medium/heavy
82899 FRHT Unknown medium/heavy
82981 FRHT Conventional Bus
82982 FRHT Bus front engine
82983 FRHT Bus rear engine
82988 FRHT Other Bus
82998 FRHT Other Vehicle
82999 FRHT Unknown
83850 FWD Truck Motorhome
83881 FWD CBE
83882 FWD COE lo ent
83883 FWD COE hi ent
83884 FWD Unknown engine location
83890 FWD COE Unknown ent
83898 FWD Other medium/heavy
83899 FWD Unknown medium/heavy
83981 FWD Conventional Bus
83982 FWD Bus front engine
83983 FWD Bus rear engine
83988 FWD Other Bus
83998 FWD Other Vehicle
83999 FWD Unknown
84421 INTL Scout
84431 INTL Travelall
84466 INTL Mulitistop Van
84481 INTL Pickup
84498 INTL Other light truck
84499 INTL Unknown light truck
84850 INTL Truck Motorhome
84881 INTL CBE
84882 INTL COE lo ent
84883 INTL COE hi ent
84884 INTL Unknown engine location
84890 INTL COE Unknown ent
84898 INTL Other medium/heavy
84899 INTL Unknown medium/heavy

84981 INTL Conventional Bus
84982 INTL Bus front engine
84983 INTL Bus rear engine
84988 INTL Other Bus
84998 INTL Other Vehicle
84999 INTL Unknown
85850 KW Truck Motorhome
85881 KW CBE
85882 KW COE lo ent
85883 KW COE hi ent
85884 KW Unknown engine location
85890 KW COE Unknown ent
85898 KW Other medium/heavy
85899 KW Unknown medium/heavy
85981 KW Conventional Bus
85982 KW Bus front engine
85983 KW Bus rear engine
85988 KW Other Bus
85998 KW Other Vehicle
85999 KW Unknown
86850 MACK Truck Motorhome
86881 MACK CBE
86882 MACK COE lo ent
86883 MACK COE hi ent
86884 MACK Unknown engine location
86890 MACK COE Unknown ent
86898 MACK Other medium/heavy
86899 MACK Unknown medium/heavy
86981 MACK Conventional Bus
86982 MACK Bus front engine
86983 MACK Bus rear engine
86988 MACK Other Bus
86998 MACK Other Vehicle
86999 MACK Unknown
87850 PETERBILT Truck Motorhome
87881 PETERBILT CBE
87882 PETERBILT COE lo ent
87883 PETERBILT COE hi ent
87884 PETERBILT Unknown engine loc

(Continue on Next Page

88899 IVEC Unknown medium/heavy
88981 IVEC Conventional Bus
88982 IVEC Bus front engine
88983 IVEC Bus rear engine
88988 IVEC Other Bus
88998 IVEC Other Vehicle
88999 IVEC Unknown
89881 WHITE Medium/Heavy - CBE
89882 WHITE Medium/Heavy - COB
89883 WHITE Medium/Heavy - COB
89884 WHITE Medium/Heavy - Unknown
89890 WHITE Medium/Heavy - COE
89898 WHITE Other Medium/Heavy
89899 WHITE Unkown Medium/Heavy
89981 WHITE Bus Conventional
89982 WHITE Bus Front Engine Flat Front
89983 WHITE Bus Rear Engine Flat Front
89988 WHITE Bus Other
98398 Other Automobile
98498 Other Light Truck
98701 Other MC 0-50cc
98702 Other MC 51-124cc
98703 Other MC 125-349cc
98704 Other MC 350-449cc
98705 Other MC 450-749cc
98706 Other MC 750cc & over
98731 Other ATV 0-50cc
98732 Other ATV 51-124cc
98733 Other ATV 125-349cc
98734 Other ATV 350-449cc
98799 Other Motorcycle
98801 AUTOCAR
98802 AUTO-UNION-DKW
98803 DIVCO
98804 WESTERN STAR
98805 OSHKOSH
98806 Oshkosh
98807 Scania
98808 UD
98850 Other Truck Motorhome
98881 Other Medium/Heavy CBE
98882 Other Medium/Heavy COE lo ent
98883 Other Medium/Heavy COE hi ent
98884 Other Unknown engine location
98890 Other COE Unknown ent
98898 Other Other medium/heavy
98901 GRUMMAN Bus
98902 NEOPLAN Bus
98981 Other Conventional Bus
98982 Other Bus front engine
98983 Other Bus rear engine
98997 Other Bus
98998 Other Vehicle
98999 Other Unknown
99399 Unknown Automobile
99499 Unknown Light Truck
99701 Unknown MC 0-50cc
99702 Unknown MC 51-124cc
99703 Unknown MC 125-349cc
99704 Unknown MC 350-449cc
99705 Unknown MC 450-749cc
99706 Unknown MC 750cc & over
99731 Unknown ATV 0-50cc
99732 Unknown ATV 51-124cc
99733 Unknown ATV 125-349cc
99734 Unknown ATV 350-449cc
99799 Unknown Motorcycle
99881 Unknown CBE
99882 Unknown COE lo ent
99883 Unknown COE hi ent
99884 Unknown engine location
99890 Unknown COE Unknown ent
99898 Unknown Other medium/heavy
99899 Unknown medium/heavy

(Continue on Next Page)

Vehicle Model - 1991 and later (Continued)

99850 Unknown Truck Motorhome
99881 Unknown Medium/Heavy CBE
99882 Unknown Medium/Heavy COE
99884 Unknown Medium/Heavy unknown Engine location
99890 Unknown Med/Hvy Entry Unknown
99898 Other Unknown Med/Hvy Truck
99899 Unknown Medium/Heavy Truck
99981 Unknown Conventional Bus
99982 Unknown Bus front engine
99983 Unknown Bus rear engine
99997 Unknown Other Bus
99998 Unknown Other Vehicle
99999 Unknown Vehicle

(Vehicle Model Continued on Next Page)

Vehicle Model

1987 to 1990

The make data are concatenated with the model data to form the make model variable. The first two digits identifies the make, the next two digits identifies the model. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

Variable = MAK_MOD

Values =

0101 Rambler/American
0102 Rebel/Matador
0103 Ambassador
0104 Pacer
0105 AMX
0106 Javelin
0107 Hornet/Concord
0108 Spirit/Gremlin
0109 Eagle
0110 SX4/Kammback
0172 Espace (Minivan)
0198 Other AMC
0199 Unknown AMC
0201 CJ-2/CJ-3/CJ-4
0202 CJ-5/CJ-6/CJ-7/CJ-8
0203 Wrangler
0271 Cherokee
0273 Pick-up
0276 Wagoneer
0277 Comanche
0278 Other Jeep Truck
0279 Unknown Jeep Truck
0298 Other Jeep
0299 Unknown Jeep Auto
0200 Unknown Jeep
0301 Dispatcher
0375 Dispatcher DJ
0387 AM General Bus: Rear Engine
0388 Other AM Truck
0389 Unknown AM Truck
0398 Other AM General Auto
0399 Unknown AM General Auto
0300 Unknown AM General
0607 Lebaron
0609 Cordoba
0610 Newport/New Yorker
0614 E-Class
0615 Laser
0616 Lebaron GTS
0631 Maserati
0635 Conquest
0698 Other Chrysler Auto
0699 Unknown Chrysler Auto
0701 Dart
0702 Coronet/Charger/Magnum
0703 Polara/Monaco
0704 Royal Monaco
0705 Challenger
0706 Aspen
0707 Diplomat
0708 Omni
0709 Mirada
0710 St Regis
0711 Aries
0712 400
0713 Rampage
0714 600
0715 Daytona

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Vehicle Model - 1987 to 1990 (Continued)

0716 Lancer
0717 Shadow
0718 Dynasty
0719 ES Shelby
0733 Challenger-import
0734 Colt0735 Conquest
0743 Colt-pickup/Vista
0770 Raider
0771 Ranchager
0772 Caravan:T-van/Voyager
0773 D,W-series Pickup
0774 Van
0775 Van Derivative
0777 Dakota/D50
0778 Other Dodge lt Truck
0779 Unknown Dodge lt Truck
0781 Dodge CBE: med/hvy
0782 Dodge COE: lo ent: med/hvy
0783 Dodge COE: hi ent: med/hvy
0784 Dodge Unknown eng loc: med/hvy
0785 Dodge Med bus (not van based)
0788 Other Dodge truck
0789 Unknown Dodge truck
0790 Dodge COE: entry unknown
0798 Other Dodge Auto
0700 Unknown Dodge
0799 Unknown Dodge Auto
0810 Imperial
0898 Other Imperial
0899 Unknown Imperial
0901 Valiant/Duster/Scamp
0902 Satellite/Belvedere
0903 Fury
0904 Gran Fury
0905 Barracuda
0906 Volare
0907 Caravelle
0908 Horizon
0911 Reliant

0913 Scamp
0917 Sundance
0931 Cricket
0932 Arrow
0933 Sapporo
0934 Champ/Colt import
0935 Conquest
0971 Trailduster
0972 Voyager T-van
0974 Van (Voyager)
0977 Arrow Pickup
0978 Other Plymouth lt truck
0979 Unknown Plymouth lt truck
0998 Other plymouth
0999 Unknown Plymouth Auto
0900 Unknown Plymouth
1034 Summit
1037 Talon
1040 Premier
1044 Medallion
1098 Other Eagle Auto
1099 Unknown Eagle
1201 Falcon
1202 Fairlane
1203 Mustang/Mustang ii
1204 Thunderbird
1205 Ltd II
1206 Ltd/Galaxy/Custom
1207 Ranchero
1208 Maverick
1209 Pinto
1210 Torino/Gran Torino
1211 Granada
1212 Fairmont
1213 Escort
1214 EXP
1215 Tempo
1216 Crown Victoria
1217 Taurus

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Vehicle Model - 1987 to 1990 (Continued)

1218 Probe
1231 English Ford
1232 Fiesta
1233 Laser
1234 Fiesta Kia/Mazda
1270 Bronco II
1271 Bronco
1272 Aerostar
1273 F-series Pickup
1274 Van
1275 Van derivative
1277 Ranger
1278 Other Ford lt truck
1279 Unknown Ford lt truck
1281 Ford CBE: med/hvy
1282 Ford COE: lo ent: med/hvy
1283 Ford COE: hi ent: med/hvy
1284 Ford Unknown eng loc: med/hvy
1285 Ford Med bus
1288 Other Ford truck
1289 Unknown Ford truck
1290 Ford COE: entry unknown
1297 Other Ford
1298 Other Ford Auto
1299 Unknown Ford Auto
1200 Unknown Ford
1301 Continental/Town Car
1302 Mark
1305 Continental
1311 Versailles
1397 Other Lincoln
1398 Other Lincoln Auto
1399 Unknown Lincoln Auto
1402 Cyclone
1403 Capri-domestic
1404 Cougar
1405 Cougar XR7
1406 Marquis/Monterey
1408 Comet
1409 Bobcat
1410 Montego
1411 Monarch
1412 Zephyr
1413 Lynx
1414 LN7
1415 Topaz
1416 Grand Marquis
1417 Sable
1431 Capri-import
1433 Pantera
1434 Merkur
1435 Scorpio
1436 Tracer/Mazda
1497 Other Mercury Vehicle
1498 Other Mercury Auto
1499 Unknown Mercury Auto
1801 Regal/Century/Special
1802 Lesabre/Wildcat/Centurion
1803 Electra/Electra 225
1805 Riviera
1808 Apollo
1810 Regal/Century
1812 Skyhawk (S)
1815 Skylark
1816 Skyhawk (J)
1817 Century (A)
1818 Somerset
1821 Reatta
1831 Opel Kadette
1832 Opel Manta/1900
1833 Opel GT
1834 Opel Isuzu
1897 Other Buick Vehicle
1898 Other Buick Auto
1899 Unknown Buick Auto
1903 Deville/Brougham
1904 Limousine
1905 Eldorado

(Continued on Next Page)

Vehicle Model - 1987 to 1990 (Continued)

1906 Commercial Series
1909 Allante
1914 Seville
1916 Cimarron
1997 Other Cadillac Vehicle
1998 Other Cadillac Auto
1999 Unknown Cadillac Auto
2001 Malibu/Chevelle
2002 Caprice/Impala
2004 Corvette
2006 Corvair
2007 El Camino
2008 Nova
2009 Camaro
2010 Monte Carlo
2011 Vega
2012 Monza
2013 Chevette
2015 Citation
2016 Cavalier
2017 Celebrity
2019 Baretta/Corsica
2020 Lumina
2031 Spectrum (Isuzu)
2032 Nova (Toyota)
2033 Sprint
2034 Geo Metro
2035 Geo Storm
2050 Geo Tracker
2070 S-10 Blazer
2071 Blazer
2072 Astrovan
2073 C/K-series Pickup
2074 G-series Van
2075 Van derivatives
2076 Suburban
2077 S-10 Luv Pickup
2078 Other Chevr lt truck
2079 Unknown Chevr lt truck

2080 Lumina
2081 Chevr CBE: med/hvy
2082 Chevr COE: lo ent: med/hvy
2083 Chevr COE: hi ent: med/hvy
2084 Chevr Unknown eng loc: med/hvy
2085 Chevr Bus
2088 Other Chevr truck
2089 Unknown Chevr truck
2090 Chevr COE: entry unknown
2097 Other Chevr Vehicle
2098 Other Chevr Auto
2099 Unknown Chevr Auto
2000 Unknown Chevrolet
2101 Cutlass
2102 Delta 88
2103 Ninety-Eight
2105 Toronado
2106 Commercial Series
2112 Starfire
2115 Omega
2116 Firenza
2117 Ciera
2118 Calais
2180 Silhouette
2197 Other Olds Vehicle
2198 Other Olds Auto
2199 Unknown Olds Auto
2201 Lemans/Tempest
2202 Bonneville/Catalina
2205 Fiero
2208 Ventura
2209 Firebird/Trans AM
2210 Grand Prix
2211 Astre
2212 Sunbird
2213 T1000/1000
2215 Phoenix
2216 J-2000/2000
2217 6000

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Vehicle Model - 1987 to 1990 (Continued)

2218 Gran AM
2280 Trans Sport
2297 Other Pontiac
2298 Other Pontiac Auto
2299 Unknown Pontiac Auto
2307 Caballero/Sprint
2370 Jimmy/S-15 based
2371 Jimmy full based
2372 Safari
2373 C/K-series Pickup
2374 G Van/Vandura,Rally Van
2375 Van derivatives
2376 Suburban
2377 S15
2378 Other GMC lt truck
2379 Unknown GMC lt truck
2381 GMC CBE: med/hvy
2382 GMC COE: lo ent: med/hvy
2383 GMC COE: hi ent: med/hvy
2384 GMC Unknown eng loc: med/hvy
2385 GMC Bus
2388 Other GMC truck
2389 Unknown GMC truck
2390 GMC COE: entry unknown
2398 Other GMC Auto
2399 Unknown GMC Auto
2300 Unknown GMC
2901 Studebaker/Avanti
2902 Checker
2998 Other domestic
3031 Karmann Ghia
3032 Beetle
3033 Super Beetle
3034 411/412
3035 Squareback/Fastback
3036 Rabbit
3037 Dasher
3038 Scirocco
3039 The Thing
3040 Jetta
3041 Quantum
3042 Golf
3043 Rabbit Pickup
3044 Fox
3045 Corrado
3074 Van/Vanagon/Camper
3078 Other VW lt truck
3079 Unknown VW lt truck
3097 Other VW Vehicle
3098 Other VW Auto
3099 Unknown VW Auto
3000 Unknown VW
3131 Spider
3132 Sports Sedan
3133 Sprint Veloce
3134 GTV-6
3135 164
3197 Other Alfa Romeo
3198 Other Alfa Auto
3199 Unknown Alfa Auto
3231 Super 90
3232 100
3233 Fox
3234 4000
3235 5000
3236 80/90
3237 200
3238 Quattro
3297 Other Audi
3298 Other Audi Auto
3299 Unknown Audi Auto
3331 Marina
3332 America
3333 Healey Sprite
3334 Healey 3000
3335 Mini
3397 Other Austin Vehicle
3398 Other Austin Auto

(Continued on Next Page)

Vehicle Model - 1987 to 1990 (Continued)

3399 Unknown Austin Auto
3431 1600/2002
3432 Coupe
3433 Bavaria Sedan
3434 630/633
3435 318i/320i/325E
3436 524i/528i/530i/533i/535
3437 733i
3461 BMW 0-50cc
3462 BMW 51-124cc
3463 BMW 125-349cc
3464 BMW 350-449cc
3465 BMW 450-749cc
3466 BMW 750cc & over
3469 BMW Unknown cc
3497 Other BMW Vehicle
3498 Other BMW Auto
3499 Unknown BMW Auto
3400 Unknown BMW
3531 F-10
3532 200 SX/240 SX
3533 B210/210/1200
3534 240/260/280/300 Z,ZX
3535 310
3536 510
3537 610
3538 710
3539 810/Maxima
3540 Roadster-SPL/SRL 311
3541 PL/RL 411
3542 Stanza
3543 Sentra
3544 Pulsar
3570 MPV
3572 Van
3577 Pickup
3578 Other Nissan lt truck
3579 Unknown Nissan lt truck
3580 Axxess

3583 Nissan COE lt truck
3588 Other Nissan truck
3597 Other Nissan Vehicle
3598 Other Nissan Auto
3599 Unknown Nissan Auto
3500 Unknown Nissan
3631 124 Coupe/Sedan
3632 124 Spider
3633 Brava/131
3634 850 Coupe/Spider
3635 128
3636 X-1/9
3637 Strada
3697 Other Fiat Vehicle
3698 Other Fiat Auto
3699 Unknown Fiat Auto
3731 Civic
3732 Accord
3733 Prelude
3734 600
3735 Civic-CRX
3736 Acura
3761 Honda 0-50cc
3762 Honda 51-124cc
3763 Honda 125-349cc
3764 Honda 350-449cc
3765 Honda 450-749cc
3766 Honda 750cc & over
3769 Honda Unknown cc
3797 Other Honda Vehicle
3798 Other Honda Auto
3799 Unknown Honda Auto
3700 Unknown Honda
3831 I-Mark
3832 Impulse
3833 Stylus
3839 Amigo
3870 Trooper II
3877 Pup Pickup/Rodeo

(Continued on Next Page)

3878 Other Isuzu lt truck
3879 Unknown Isuzu lt truck
3897 Other Isuzu Vehicle
3898 Other Isuzu Auto
3899 Unknown Isuzu Auto
3800 Unknown Isuzu
3931 XJ-S Coupe
3932 XJ6/XJ12 Sedan/Coupe
3933 XK-E
3997 Other Jaguar Vehicle
3998 Other Jaguar Auto
3999 Unknown Jaguar Auto
4031 Beta Sedan/HPE
4032 Beta Coupe/Zagato
4033 Scorpion
4098 Other Lancia Auto
4099 Unknown Lancia Auto
4131 RX2
4132 RX3
4133 RX4
4134 RX7
4135 GLC/323
4136 Cosmo
4137 626
4138 808
4139 Mizer
4140 R-100
4141 618/616
4142 1800
4143 929
4144 MX-6
4145 Miata
4172 MPV
4177 Pickup
4178 Other Mazda light truck
4179 Unknown Mazda light truck
4197 Other Mazda vehicle
4198 Other Mazda auto
4199 Unknown Mazda auto
4100 Unknown Mazda
4231 200/220/230/240/250/280/ 300-Sedan/Coupe
4232 230SL/280SL-2 passgr
4233 300/350/380/450/500/560 SL
4234 350/450 SLC
4235 280/300 SEL
4236 380/420/450/500/560 SEL/500/560 SEC
4237 300/380/450 SE
4238 600/6.9 Sedan
4239 190
4275 Van Derivative
4281 Merc-Benz CBE: med/hvy
4282 Merc-Benz COE: lo ent: med/hvy
4283 Merc-Benz COE: hi ent: med/hvy
4284 Merc-Benz Unk eng loc: med/hvy
4285 Merc-Benz Med bus
4288 Other Merc-Benz truck
4289 Unknown Merc-Benz truck
4290 Merc-Benz COE: entry unknown
4297 Other Merc-Benz vehicle
4298 Other Merc-Benz auto
4299 Unknown Merc-Benz auto
4200 Unknown Merc-Benz
4331 MG Midget
4332 MGB
4333 MGB GT
4334 MGA
4335 TA/TC/TD/TF
4336 MGC
4397 Other MG vehicle
4398 Other MG auto
4399 Unknown MG auto
4431 304
4432 403
4433 404
4434 505/504
4435 604

(Continued on Next Page)

Vehicle Model - 1987 to 1990 (Continued)

4461 Peug 0-50cc
4462 Peug 51-124cc
4469 Peug Unknown cc
4497 Other Peugeot vehicle
4498 Other Peugeot auto
4499 Unknown Peugeot auto
4531 911
4532 912/912E
4533 914
4534 924
4535 928
4536 930/Turbo
4537 944
4538 959
4597 Other Porsche vehicle
4598 Other Porsche auto
4599 Unknown Porsche auto
4631 LeCar
4632 10/Dauphine/Caravelle/R-8
4633 12
4634 15
4635 16
4636 17
4637 R18i
4638 Fuego
4639 Alliance
4640 Encore
4641 Alpine
4644 Medallion
4697 Other Renault vehicle
4698 Other Renault auto
4699 Unknown Renault auto
4731 99/99E/900
4732 Sonnet
4733 95/96/97
4734 9000
4797 Other Saab vehicle
4798 Other Saab auto
4799 Unknown Saab auto

4831 FE/GF/DL/STD/GL/G/GLF
4832 Star
4833 360
4834 Legacy
4835 XT
4836 Justy
4843 Brat
4878 Other Subaru lt truck
4879 Unknown Subaru lt truck
4897 Other Subaru vehicle
4898 Other Subaru auto
4899 Unknown Subaru auto
4800 Unknown Subaru
4931 Corona
4932 Corolla
4933 Celica
4934 Celica Supra
4935 Cressida
4936 Crown
4937 Carina
4938 Tercel
4939 Starlet
4940 Camry
4941 MR2
4970 4-Runner
4971 Landcruiser
4972 Mini-van
4977 Pickup (Chinook)
4978 Other Toyota lt truck
4979 Unknown Toyota lt truck
4997 Other Toyota vehicle
4998 Other Toyota auto
4999 Unknown Toyota auto
4900 Unknown Toyota
5031 Spitfire
5032 GT6
5033 TR4
5034 TR6
5035 TR7/TR8

(Continued on Next Page)

5036 Herald
5037 Stag
5061 Triumph 0-50cc
5062 Triumph 51-124 cc
5063 Triumph 125-349 cc
5064 Triumph 350-449 cc
5065 Triumph 450-749 cc
5066 Triumph 750cc & more
5069 Triumph Unknown cc
5097 Other Triumph vehicle
5098 Other Triumph auto
5099 Unknown Triumph auto
5000 Unknown Triumph auto
5131 122
5132 142/144/145
5133 164
5134 240/242/244/245
5135 262/264/265
5136 1800
5137 P-544
5138 760/780 GLE
5139 740 GLE
5181 Volvo CBE: med/hvy
5182 Volvo COE: lo ent: med/hvy
5183 Volvo COE: hi ent: med/hvy
5184 Volvo Unknown eng loc: med/hvy
5185 Volvo Med bus
5188 Other Volvo truck
5189 Unknown Volvo truck
5190 Volvo COE: entry unknown
5197 Other Volvo
5198 Other Volvo auto5199 Unk Volvo auto
5100 Unknown Volvo
5231 Starion
5232 Tredia
5233 Cordia
5234 Galant/Sigma
5235 Mirage
5236 Precis
5237 Eclipse
5270 Montero
5272 Mini-van
5277 Pickup Mighty Max/SPX
5278 Other Mits lt truck
5298 Other Mits auto
5299 Unknown Mits auto
5200 Unknown Mitsubishi
5331 SA 310/GLX
5334 Swift
5339 Sidekick
5361 Suzuki 0-50cc
5362 Suzuki 51-124cc
5363 Suzuki 125-349cc
5364 Suzuki 350-449cc
5365 Suzuki 450-749cc
5366 Suzuki 750cc & over
5369 Suzuki Unknown cc
5370 SJ-410/Samurai
5378 Other Suzuki lt truck
5388 Other Suzuki truck
5397 Other Suzuki
5300 Unknown Suzuki
5731 ES-250
5732 LS-400
5831 M30
5832 Q45
5931 Aston Martin
5932 Bricklin
5933 Citroen
5934 Delorean
5935 Ferrari
5936 Hillman
5937 Jensen
5938 Lamborghini
5939 Lotus
5940 Maserati
5941 Morris
5942 Rolls Royce/Bentley

(Continued on Next Page)

Vehicle Model - 1987 to 1990 (Continued)

5943 Rover
5944 Simca
5945 Sunbeam
5946 TVR
5947 Daihatsu (Charade)
5948 Desta (APV-utility)
5949 Reliant (British)
5950 Yugo
5951 Hyundai
5952 Sterling
5998 Other import
6061 BSA 0-50cc
6062 BSA 51-124cc
6063 BSA 125-349cc
6064 BSA 350-449cc
6065 BSA 450-749cc
6066 BSA 750cc & over
6069 BSA Unknown cc
6161 Ducati 0-50cc
6162 Ducati 51-124cc
6163 Ducati 125-349cc
6164 Ducati 350-449cc
6165 Ducati 450-749cc
6166 Ducati 750cc & over
6169 Ducati Unknown cc
6261 Harley 0-50cc
6262 Harley 51-124cc
6263 Harley 125-349cc
6264 Harley 350-449cc
6265 Harley 450-749cc
6266 Harley 750cc & over
6269 Harley Unknown cc
6361 Kawasaki 0-50cc
6362 Kawasaki 51-124cc
6363 Kawasaki 125-349cc
6364 Kawasaki 350-449cc
6365 Kawasaki 450-749cc
6366 Kawasaki 750cc & over
6369 Kawasaki Unknown cc

6461 Moto-Guzzi 0-50cc
6462 Moto-Guzzi 51-124cc
6463 Moto-Guzzi 125-349cc
6464 Moto-Guzzi 350-449cc
6465 Moto-Guzzi 450-749cc
6466 Moto-Guzzi 750cc & over
6469 Moto-Guzzi Unknown cc
6561 Norton 0-50cc
6562 Norton 51-124cc
6563 Norton 125-349cc
6564 Norton 350-449cc
6565 Norton 450-749cc
6566 Norton 750cc & over
6569 Norton Unknown cc
6761 Yamaha 0-50cc
6762 Yamaha 51-124cc
6763 Yamaha 125-349cc
6764 Yamaha 350-449cc
6765 Yamaha 450-749cc
6766 Yamaha 750cc & over
6769 Yamaha Unknown cc
6961 Other 0-50cc
6962 Other 51-124cc
6963 Other 125-349cc
6964 Other 350-449cc
6965 Other 450-749cc
6966 Other 750cc & over
6969 Other Unknown cc
7061 Mo-ped 0-50cc
7062 Mo-ped 51-124cc
7069 Mo-ped Unknown cc
8080 Brockway Motorhome
8081 Brockway CBE: med/hvy
8082 Brockway COE: lo ent: med/hvy
8083 Brockway COE: hi ent: med/hvy
8084 Brockway Unknown eng loc: med/hvy
8085 Brockway Bus
8086 Brockway Bus: fl fr, fr eng
8087 Brockway Bus: fl fr, rr eng

(Continued on Next Page)

8088 Other Brockway truck
8089 Unknown Brockway truck
8090 Brockway Med/hvy:COE entry Unknown
8097 Other Brockway
8180 Diamond Reo Motorhome
8181 Diamond Reo CBE: med/hvy
8182 Diamond Reo COE: lo ent: med/hvy
8183 Diamond Reo COE: hi ent: med/hvy
8184 Diamond Reo Unk eng loc: med/hvy
8185 Diamond Reo Bus
8186 Diamond Reo Bus: fl fr, fr eng
8187 Diamond Reo Bus: fl fr, rr eng
8188 Other Diamond Reo truck
8189 Unknown Diamond Reo truck
8190 Diamond Reo Med/hvy:COE entry unk
8197 Other Diamond Reo
8280 Freightliner Motorhome
8281 Freightliner CBE: med/hvy
8282 Freightliner COE: lo ent: med/hvy
8283 Freightliner COE: hi ent: med/hvy
8284 Freightliner Unknown eng loc: med/hvy
8285 Freightliner Bus
8286 Freightliner Bus: fl fr, fr eng
8287 Freightliner Bus: fl fr, rr eng
8288 Other Freightliner truck
8289 Unknown Freightliner truck
8290 Freightliner Med/hvy:COE entry unk
8297 Other Freightliner
8380 FWD Motorhome
8381 FWD CBE: med/hvy
8382 FWD COE: lo ent: med/hvy
8383 FWD COE: hi ent: med/hvy
8384 FWD Unknown eng loc: med/hvy
8385 FWD Bus
8386 FWD Bus: fl fr, fr eng
8387 FWD Bus: fl fr, rr eng
8388 Other FWD truck
8389 Unknown FWD truck
8390 FWD Med/hvy:COE entry Unknown
8397 Other FWD
8471 Intl Harv Scout
8473 Intl Harv Pickup/panel
8475 Intl Harv Multistop
8476 Intl Harv Travellall
8478 Other Intl Harv lt truck
8479 Unknown Intl Harv lt truck
8480 Intl Harv Motorhome
8481 Intl Harv CBE: med/hvy
8482 Intl Harv COE: lo ent: med/hvy
8483 Intl Harv COE: hi ent: med/hvy
8484 Intl Harv Unknown eng loc: med/hvy
8485 Intl Harv Bus: conventional
8486 Intl Harv Bus: fl fr, fr eng
8487 Intl Harv Bus: fl fr, rr eng
8488 Other Intl Harv truck
8489 Unknown Intl Harv truck
8490 Intl Harv Med/hvy:COE entry Unknown
8497 Other Intl Harv
8400 Unknown Intl Harv
8580 Kenworth Motorhome
8581 Kenworth CBE: med/hvy
8582 Kenworth COE: lo ent: med/hvy
8583 Kenworth COE: hi ent: med/hvy
8584 Kenworth Unknown eng loc: med/hvy
8585 Kenworth Bus
8586 Kenworth Bus: fl fr, fr eng
8587 Kenworth Bus: fl fr, rr eng
8588 Other Kenworth truck
8589 Unknown Kenworth truck
8590 Kenworth Med/hvy:COE entry Unknown
8597 Other Kenworth
8680 Mack Motorhome
8681 Mack CBE: med/hvy
8682 Mack COE: lo ent: med/hvy
8683 Mack COE: hi ent: med/hvy
8684 Mack Unknown eng loc: med/hvy
8685 Mack Bus
8686 Mack Bus: fl fr, fr eng

(Continued on Next Page)

Vehicle Model - 1987 to 1990 (Continued)

8687 Mack Bus: fl fr, rr eng
8688 Other Mack truck
8689 Unknown Mack truck
8690 Mack Med/hvy:COE entry Unknown
8697 Other Mack
8780 Peterbilt Motorhome
8781 Peterbilt CBE: med/hvy
8782 Peterbilt COE: lo ent: med/hvy
8783 Peterbilt COE: hi ent: med/hvy
8784 Peterbilt Unknown eng loc: med/hvy
8785 Peterbilt Bus
8786 Peterbilt Bus: fl fr, fr eng
8787 Peterbilt Bus: fl fr, rr eng
8788 Other Peterbilt truck
8789 Unknown Peterbilt truck
8790 Peterbilt Med/hvy:COE entry Unknown
8797 Other Peterbilt
8880 White Motorhome
8881 White CBE: med/hvy
8882 White COE: lo ent: med/hvy
8883 White COE: hi ent: med/hvy
8884 White Unknown eng loc: med/hvy
8885 White Bus
8886 White Bus: fl fr, fr eng
8887 White Bus: fl fr, rr eng
8888 Other White truck8889 Unk White truck
8890 White Med/hvy:COE entry Unknown
8897 Other White
9501 Autocar
9502 Auto-Union-DKW
9503 Divco
9504 Western Star
9578 Other lt truck
9588 Other truck
9800 Other Unknown
9897 Other Vehicle
9899 Other Unknown auto
9900 Unknown auto/cycle/truck
9969 Unknown Motored Cycle
9979 Unknown lt truck
9989 Unknown truck
9997 Unknown Other-snomobile/gocart
9999 Unknown auto

(Vehicle Model Continued on Next Page)

Vehicle Model

1982 to 1986

The make data are concatenated with the model data to form the make model variable. The first two digits identifies the make, the next two digits identifies the model. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

Variable = MAK_MOD

Values =

0101 RAMBLER/AMERICAN
0102 REBEL/MATADOR
0103 AMBASSADOR
0104 PACER
0105 AMX
0106 JAVELIN
0107 HORNET/CONCORD
0108 SPIRIT/GREMLIN
0109 EAGLE
0110 SX4/KAMMBACK
0172 ESPACE-MINIVAN
0198 OTHER AMC
0199 UNKNOWN AMC
0201 CJ-2/CJ-3/CJ-4
0202 CJ-5/CJ-6/CJ-7/CJ-8
0271 CHEROKEE
0273 PICK-UP
0276 WAGONEER
0277 COMANCHE
0278 OTHER JEEP TRUCK
0279 UNKNOWN JEEP TRUCK
0298 OTHER JEEP
0299 UNKNOWN JEEP AUTO
0200 UNKNOWN JEEP
0301 DISPATCHER
0375 DISPATCHER-DJ
0387 BUS REAR ENGINE
0388 OTHER AM TRUCK
0389 UNKNOWN AM TRUCK
0398 OTHER AM GENERAL
0399 UNKNOWN AM GEN AUTO
0300 UNKNOWN AM GEN
0607 LEBARON
0609 CORDOBA
0610 NEWPORT/NEW YORKER
0614 E-CLASS
0615 LASER
0616 LEBARON GTS
0631 MASERATI
0698 OTHER CHRYSLER
0699 UNKNOWN CHRYSLER
0701 DART
0702 CORONET/CHARGER/MAGNUM
0703 POLARA/MONACO
0704 ROYAL MONACO
0705 CHALLENGER
0706 ASPEN
0707 DIPLOMAT
0708 OMNI
0709 MIRADA
0710 ST REGIS
0711 ARIES
0712 400
0713 RAMPAGE

(Continued on Next Page)

0714 600
0715 DAYTONA
0716 LANCER
0717 SHADOW
0732 ARROW
0733 CHALLENGER-IMPORT
0734 COLT
0735 CONQUEST
0771 RANCHAGER
0772 D50/COLT PICKUP
0773 D, W-SERIES PICKUP
0774 VAN
0777 DAKOTA/D50
0778 OTHER DODGE LIGHT TRUCK
0779 UNKNOWN DODGE LIGHT TRUCK
0781 CBE: MED/HEAVY DODGE
0782 COE: LO ENT: MED/HVY DODGE
0783 COE: HI ENT: MED/HVY DODGE
0784 UNK DODGE MED/HVY: ENG LOC
0785 MED DODGE BUS NOT VAN BASED
0788 OTHER DODGE TRUCK
0789 UNKNOWN DODGE TRUCK
0798 OTHER DODGE
0799 UNKNOWN DODGE AUTO
0700 UNKNOWN DODGE
0810 IMPERIAL
0898 OTHER IMPERIAL
0899 UNKNOWN IMPERIAL
0901 VALIANT/DUSTER/SCAMP
0902 SATELLITE/BELVEDERE
0903 FURY
0904 GRAN FURY
0905 BARRACUDA
0906 VOLARE
0907 CARAVELLE
0908 HORIZON
0911 RELIANT
0913 SCAMP
0917 SUNDANCE
0931 CRICKET
0932 ARROW
0933 SAPPORO
0934 CHAMP
0935 CONQUEST
0970 VOYAGER
0971 TRAILDUSTER
0972 ARROW PICKUP
0974 VAN (VOYAGER)
0978 OTHER PLYM LT TRUCK
0979 UNKNOWN PLYM LT TRUCK
0998 OTHER PLYMOUTH
0999 UNKNOWN PLYM AUTO
0900 UNKNOWN PLYMOUTH
1201 FALCON
1202 FAIRLANE
1203 MUSTANG/MUSTANG II
1204 THUNDERBIRD
1205 LTD II
1206 LTD/GALAXY/CUSTOM
1207 RANCHERO
1208 MAVERICK
1209 PINTO
1210 TORINO/GRAN TORINO
1211 GRANADA
1212 FAIRMONT
1213 ESCORT
1214 EXP
1215 TEMPO
1216 CROWN VICTORIA
1217 TAURUS
1231 ENGLISH FORD
1232 FIESTA
1233 LASER
1270 BRONCO II
1271 BRONCO
1272 COURIER PICKUP
1273 F-SERIES PICKUP

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Vehicle Model - 1982 to 1986 (Continued)

1435 SCORPIO

1274 VAN
1275 VAN DERIVATIVE
1278 OTHER FORD LT TRUCK
1279 UNKNOWN FORD LT TRUCK
1281 CBE: MED/HVY FORD
1282 COE: LO ENT: MED/HVY FORD
1283 COE: HI ENT: MED/HVY FORD
1284 UNKNOWN ENGINE LOCATION: MED/HEAVY
1285 MEDIUM BUS
1288 OTHER FORD TRUCK
1289 UNKNOWN FORD TRUCK
1298 OTHER FORD
1299 UNKNOWN FORD AUTO
1200 UNKNOWN FORD
1301 CONTINENTAL
1302 MARK
1311 VERSAILLES
1398 OTHER LINCOLN
1399 UNKNOWN LINCOLN
1402 CYCLONE
1403 CAPRI-DOMESTIC
1404 COUGAR
1405 COUGAR XR7
1406 MARQUIS/MONTEREY
1408 COMET
1409 BOBCAT
1410 MONTEGO
1411 MONARCH
1412 ZEPHYR
1413 LYNX
1414 LN7
1415 TOPAZ
1416 GRAND MARQUIS
1417 SABLE
1431 CAPRI-IMPORT
1433 PATERA
1434 MERKUR

1498 OTHER MERCURY
1499 UNKNOWN MERCURY
1801 REGAL/CENTURY/SPECIAL
1802 LESABRE/WILDCAT/
CENTURION
1803 ELECTRA, ELECTRA 225
1805 RIVIERA
1808 APOLLO
1810 REGAL
1812 SKYHAWK S
1815 SKYLARK
1816 SKYHAWK J/T
1817 CENTURY A/T
1818 SOMERSET
1831 OPEL KADETTE
1832 OPEL MANTA/A900
1833 OPEL GT
1834 OPEL ISUZU
1898 OTHER BUICK
1899 UNKNOWN BUICK
1903 DEVILLE/BROUGHAM
1904 LIMOUSINE
1905 ELDORADO
1906 COMMERCIAL SERIES
1909 ALLANTE
1914 SEVILLE
1916 CIMARRON
1998 OTHER CADILLAC
1999 UNKNOWN CADILLAC
2001 MALIBU/CHEVELLE
2002 CAPRICE/IMPALA
2004 CORVETTE
2006 CORVAIR
2007 EL CAMINO
2008 NOVA
2009 CAMARO
2010 MONTE CARLO
2011 VEGA
2012 MONZA

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Vehicle Model - 1982 to 1986 (Continued)

2013 CHEVETTE
2015 CITATION
2016 CAVALIER
2017 CELEBRITY
2018 SPRINT
2019 BARETTA/CORSICA
2031 SPECTRUM
2032 NOVA (TOYOTA)
2070 BLAZER S-10
2071 BLAZER
2072 LUV PICKUP
2073 C, K-SERIES PICKUP
2074 G-SERIES VAN
2075 VAN DERIVATIVES
2078 OTHER LT TRUCK
2079 UNKNOWN CHEV LT TRUCK
2081 CBE: MEDIUM/HEAVY
2082 COE: LO ENT: MED/HVY CHEV
2083 COE: HI ENT: MED/HVY CHEV
2084 UNK ENG LOC: MED/HVY CHEV
2085 BUS
2088 OTHER CHEV TRUCK
2089 UNKNOWN CHEV TRUCK
2098 OTHER CHEV
2099 UNKNOWN CHEV AUTO
2000 UNKNOWN CHEVROLET
2101 CUTLASS
2102 DELTA 88
2103 NINETY-EIGHT
2105 TORONADO
2106 COMMERCIAL SERIES
2112 STARFIRE
2115 OMEGA
2116 FIRENZA
2117 CIERA
2118 CALAIS
2198 OTHER OLDS
2199 UNKNOWN OLDS
2201 LEMANS/TEMPEST
2202 BONNEVILLE,CATALINA
2205 FIERO
2208 VENTURA
2209 FIREBIRD/TRANS AM
2210 GRAND PRIX
2211 ASTRE
2212 SUNBIRD
2213 T1000/1000
2215 PHOENIX
2216 J-2000
2217 6000
2218 GRAN AM
2298 OTHER PONTIAC
2299 UNKNOWN PONTIAC
2307 CABALLERO/SPRINT
2370 JIMMY S-15
2371 JIMMY
2372 SAFARI
2373 C, K-SERIES PICKUP
2374 G VAN/VANDURA,RALLY VAN
2375 VAN DERIVATIVES
2376 SUBURBAN
2277 S-15
2378 OTHER GMC LT TRUCK
2379 UNKNOWN GMC LT TRUCK
2381 CBE: MED/HVY GMC
2382 COE: LO ENT: MED/HVY GMC
2383 COE: HI ENT: MED/HVY GMC
2384 UNK ENG LOC: MED/HVY GMC
2385 BUS
2388 OTHER GMC TRUCK
2389 UNKNOWN GMC TRUCK
2398 OTHER GMC
2399 UNKNOWN GMC AUTO
2300 UNKNOWN GMC
2901 STUDEBAKER/AVANTI
2902 CHECKER
2998 OTHER DOMESTIC
3031 KARMANN GHIA

(Continued on Next Page)

Vehicle Model - 1982 to 1986 (Continued)

3032 BEETLE
3033 SUPER BEETLE
3034 411/412
3035 SQUAREBACK/FASTBACK
3036 RABBIT
3037 DASHER
3038 SCIROCCO
3039 THE THING
3040 JETTA
3041 QUANTUM
3042 GOLF
3072 RABBIT PICKUP
3074 VAN/VANAGON/CAMPER
3078 OTHER VW LT TRUCK
3079 UNKNOWN VW LT TRUCK
3098 OTHER VW
3099 UNKNOWN VW AUTO
3000 UNKNOWN VW
3131 SPIDER
3132 SPORTS SEDAN
3133 SPRINT VELOCE
3134 GTV-6
3198 OTHER ALFA ROMEO
3199 UNKNOWN ALFA ROMEO
3231 SUPER 90
3232 100
3233 FOX
3234 4000
3235 5000
3236 QUATTRO
3298 OTHER AUDI
3299 UNKNOWN AUDI
3331 MARINA
3332 AMERICA
3333 HEALEY SPRITE
3334 HEALEY 3000
3335 MINI
3398 OTHER AUSTIN
3399 UNKNOWN AUSTIN

3431 1600, 2002
3432 COUPE
3433 BAVARIA SEDAN
3434 630, 633
3435 320I
3436 528I, 530I
3437 733I
3461 BMW 0-50cc
3462 BMW 51-124cc
3463 BMW 125-349cc
3464 BMW 350-449cc
3465 BMW 450-749cc
3466 BMW 750cc OR OVER
3469 BMW UNKNOWN cc
3498 OTHER BMW
3499 UNKNOWN BMW AUTO
3400 UNKNOWN BMW
3531 F-10
3532 200 SX
3533 B210/210/1200
3534 240/260/280
3535 310
3536 510
3537 610
3538 710
3539 810
3540 ROADSTER (SPL 311/SRL 311)
3541 PL 411/RL 411
3542 STANZA
3543 SENTRA
3544 PULSAR
3570 MPV
3572 PICKUP
3578 OTHER DATSUN LT TRUCK
3579 UNKNOWN DATSUN LT TRUCK
3598 OTHER DATSUN
3599 UNKNOWN DATSUN AUTO
3500 UNKNOWN DATSUN
3631 124 (COUPE/SEDAN)

(Continued on Next Page)

3632 124 SPIDER
3633 BRAVA/131
3634 850 COUPE & SPIDER
3635 128
3636 X-1/9
3637 STRADA
3698 OTHER FIAT
3699 UNKNOWN FIAT
3731 CIVIC
3732 ACCORD
3733 PRELUDE
3734 600
3735 CIVIC-CRX
3736 ACURA
3761 HONDA 0-50cc
3762 HONDA 51-124cc
3763 HONDA 125-349cc
3764 HONDA 350-449cc
3765 HONDA 450-749cc
3766 HONDA 750cc OR OVER
3769 HONDA UNKNOWN cc
3798 OTHER HONDA
3799 UNKNOWN HONDA AUTO
3700 UNKNOWN HONDA
3831 I-MARK
3832 IMPULSE
3833 ASKA
3870 TROOPER II
3872 RODEO PICKUP
3878 OTHER ISUZU LT TRUCK
3879 UNKNOWN ISUZU LT TRUCK
3898 OTHER ISUZU
3899 UNKNOWN ISUZU AUTO
3800 UNKNOWN ISUZU
3931 XJ-S COUPE
3932 XJ6/XJ12 SEDAN/COUPE
3933 XK-E
3998 OTHER JAGUAR
3999 UNKNOWN JAGUAR
4031 BETA SEDAN/HPE
4032 BETA COUPE/ZAGATO
4033 SCORPION
4098 OTHER LANCIA
4099 UNKNOWN LANCIA
4131 RX2
4132 RX3
4133 RX4
4134 RX7
4135 GLC
4136 COSMO
4137 626
4138 808
4139 MIZER
4140 R-100
4141 618/616
4142 1800
4143 929
4172 PICK-UP
4178 OTHER MAZDA LT TRUCK
4179 UNKNOWN MAZDA LT TRUCK
4198 OTHER MAZDA
4199 UNKNOWN MAZDA AUTO
4100 UNKNOWN MAZDA
4231 200/220/230/240/250/280
4231 cont. 300(SEDAN/COUPE)
4232 230 SL/280 SL (2 PASS)
4233 350 SL/450 SL/380 SL
4234 350 SLC/450 SLC/380 SLC
4235 300 SEL/280 SEL
4236 450 SEL/380 SEL
4237 450 SE
4238 600/6.9 SEDAN
4239 190
4281 CBE: MERCEDES MED/HVY
4282 COE: LO ENT: MERCEDES MED/HVY
4283 COE: HI ENT: MERCEDES MED/HVY

(Continued on Next Page)

Vehicle Model - 1982 to 1986 (Continued)

4284 UNKNOWN ENG LOC: MERCEDES MED/HVY 4636 17
4285 MERCEDES MED BUS
4286 OTHER MERCEDES TRUCK
4289 UNKNOWN MERCEDES TRUCK
4298 OTHER MERCEDES
4299 UNKNOWN MERCEDES AUTO
4200 UNKNOWN MERCEDES-BENZ
4331 MG MIDGET
4332 MGB
4333 MGB GT
4334 MGA
4335 TA/TC/TD/TF
4336 MGC
4398 OTHER MG
4399 UNKNOWN MG
4431 304
4432 403
4433 404
4434 505/504
4435 604
4498 OTHER PEUGEOT
4499 UNKNOWN PEUGEOT
4531 911
4532 912/912E
4533 914
4534 924
4535 928
4536 930/TURBO
4537 944
4538 959
4598 OTHER PORSCHE
4599 UNKNOWN PORSCHE
4631 LECAR
4632 10/DAUPHINE/CARAVELLE/R-8
4633 12
4634 15
4635 16

4637 RL8I
4638 FUEGO
4639 ALLIANCE
4640 ENCORE
4641 ALPINE
4698 OTHER RENAULT
4699 UNKNOWN RENAULT
4731 99/99E/900/9000
4732 SONNET
4733 95/96/97
4798 OTHER SAAB
4799 UNKNOWN SAAB
4831 FE/GF/DL/STD/GL/G/GLF
4832 STAR
4833 360
4843 BRAT
4872 BRAT
4878 OTHER LIGHT TRUCK
4879 UNKNOWN LIGHT TRUCK
4898 OTHER SUBARU
4899 UNKNOWN SUBARU
4931 CORONA
4932 COROLLA
4933 CELICA
4934 CELICA SUPRA
4935 CRESSIDA
4936 CROWN
4937 CARINA
4938 TERCEL
4939 STARLET
4940 CAMRY
4941 MR2
4970 4-RUNNER
4971 LANDCRUISER
4972 PICK-UP
4974 CHINOOK
4778 OTHER TOYOTA TRUCK
4779 UNKNOWN TOYOTA TRUCK
4998 OTHER TOYOTA

(Continued on Next Page)

4999 UNKNOWN TOYOTA AUTO
4900 UNKNOWN TOYOTA
5001 SPITFIRE
5002 GT6
5003 TR4
5004 TR6
5005 TR7/TR8
5036 HERALD
5037 STAG
5061 TRIUMPH 0-50cc
5062 TRIUMPH 51-124cc
5063 TRIUMPH 125-349cc
5064 TRIUMPH 350-449cc
5065 TRIUMPH 450-749cc
5066 TRIUMPH 750cc OR MORE
5069 TRIUMPH UNKNOWN cc
5098 OTHER TRIUMPH
5099 UNKNOWN TRIUMPH AUTO
5000 UNKNOWN TRIUMPH
5131 122
5132 142/144/145
5133 164
5134 242/244/245
5135 262/264/265
5136 1800
5137 P-544
5138 760/780 GLE
5139 740 GLE
5181 CBE: MED/HVY VOLVO
5182 COE: LO ENT: MED/HVY VOLVO
5183 COE: HI ENT: MED/HVY
5184 UNKNOWN ENG LOC: MED/HVY VOLVO
5185 MED VOLVO BUS
5188 OTHER VOLVO TRUCK
5189 UNKNOWN VOLVO TRUCK
5198 OTHER VOLVO
5199 UNKNOWN VOLVO AUTO
5100 UNKNOWN VOLVO
5231 STARION
5232 TREDIA
5233 CORDIA
5234 GALANT
5235 MIRAGE
5270 MONTERO
5272 PICKUP/MINI-VAN
5298 OTHER AUTO
5299 UNKNOWN MITSUBISHI AUTO
5200 UNKNOWN MITSUBISHI
5931 ASTON MARTIN
5932 BRICKLIN
5933 CITROEN
5934 DELOREAN
5935 FERRARI
5936 HILLMAN
5937 JENSEN
5938 LAMBORGHINI
5939 LOTUS
5940 MASERATI
5941 MORRIS
5942 ROLLS ROYCE/BENTLEY
5943 ROVER
5944 SIMCA
5945 SUNBEAM
5946 TVR
5947 DAIHATSU (CHARADE)
5948 DESTA (APV-UTILITY)
5949 RELIANT (BRITISH)
5950 YUGO
5951 HYUNDAI
5998 OTHER IMPORT
6061 BSA 0-50cc
6062 BSA 51-124cc
6063 BSA 125-349cc
6064 BSA 350-449cc
6065 BSA 450-749cc
6066 BSA 750cc AND OVER

(Continued on Next Page)

Vehicle Model - 1982 to 1986 (Continued)

6069 BSA UNKNOWN cc
6161 DUCATI 0-50cc
6162 DUCATI 51-124cc
6163 DUCATI 125-349cc
6164 DUCATI 350-449cc
6165 DUCATI 450-749cc
6166 DUCATI 750cc AND OVER
6169 DUCATI UNKNOWN cc
6261 HARLEY 0-50cc
6262 HARLEY 51-124cc
6263 HARLEY 125-349cc
6264 HARLEY 350-449cc
6265 HARLEY 450-749cc
6266 HARLEY 750cc AND OVER
6269 HARLEY UNKNOWN cc
6361 KAWASAKI 0-50cc
6362 KAWASAKI 51-124cc
6363 KAWASAKI 125-349cc
6364 KAWASAKI 350-449cc
6365 KAWASAKI 450-749cc
6366 KAWASAKI 750cc AND OVER
6369 KAWASAKI UNKNOWN cc
6461 MOTOGUZZI 0-50cc
6462 MOTOGUZZI 51-124cc
6463 MOTOGUZZI 125-349cc
6464 MOTOGUZZI 350-449cc
6465 MOTOGUZZI 450-749cc
6466 MOTOGUZZI 750cc AND OVER
6469 MOTOGUZZI UNKNOWN cc
6561 NORTON 0-50cc
6562 NORTON 51-124cc
6563 NORTON 125-349cc
6564 NORTON 350-449cc
6565 NORTON 450-749cc
6566 NORTON 750cc AND OVER
6569 NORTON UNKNOWN cc
6631 SA 310
6661 SUZUKI 0-50cc
6662 SUZUKI 51-124cc

6663 SUZUKI 125-349cc
6664 SUZUKI 350-449cc
6665 SUZUKI 450-749cc
6666 SUZUKI 750cc AND OVER
6669 SUZUKI UNKNOWNcc
6761 YAMAHA 0-50cc
6762 YAMAHA 51-124cc
6763 YAMAHA 125-349cc
6764 YAMAHA 350-449cc
6765 YAMAHA 450-749cc
6766 YAMAHA 750cc AND OVER
6769 YAMAHA UNKNOWN cc
6961 OTHER MC 0-50cc
6962 OTHER MC 51-124cc
6963 OTHER MC 125-349cc
6964 OTHER MC 350-449cc
6965 OTHER MC 450-749cc
6966 OTHER MC 750cc AND OVER
6969 OTHER MC UNKNOWN cc
7061 MOPED 0-50cc
7062 MOPED 51-124cc
7069 MOPED UNKNOWN cc
8080 BROCKWAY MOTOR HOME
8081 CBE: MED/HVY BROCKWAY
8082 COE: LO ENT: MED/HVY BROCKWAY
8083 COE: HI ENT: MED/HVY BROCKWAY
8084 UNKNOWN ENG LOC: MED/HVY BROCKWAY
8085 BROCKWAY BUS
8086 BROCKWAY BUS: FL FR, FR ENG
8087 BROCKWAY BUS: FL FR, RR ENG
8088 OTHER BROCKWAY TRUCK
8089 UNKNOWN BROCKWAY TRUCK
8180 REO MOTOR HOME
8181 CBE: MED/HVY REO

(Continued on Next Page)

8182 COE: LO ENT: MED/HVY REO
8183 COE: HI ENT: MED/HVY REO
8184 UNKNOWN ENG LOC: MED/HVY REO
8185 REO BUS
8186 REO BUS: FL FR, FR ENG
8187 REO BUS: FL FR, RR ENG
8188 OTHER REO TRUCK
8189 UNKNOWN REO TRUCK
8280 FREIGHTLINER MOTOR HOME
8281 CBE: MED/HVY FREIGHTLINER
8282 COE: LO ENT: MED/HVY FREIGHTLINER
8283 COE: HI ENT: MED/HVY FREIGHTLINER
8284 UNKNOWN ENG LOC: MED/HVY FREIGHTLINER
8285 FREIGHTLINER BUS
8286 FREIGHTLINER BUS: FL FR, FR ENG
8287 FREIGHTLINER BUS: FL FR, RR ENG
8288 OTHER FREIGHTLINER TRUCK
8289 UNKNOWN FREIGHTLINER TRUCK
8380 FWD MOTOR HOME
8381 CBE: MED/HVY FWD
8382 COE: LO ENT: MED/HVY FWD
8383 COE: HI ENT: MED/HVY FWD
8384 UNK ENG LOC: MED/HVY FWD
8385 FWD BUS
8386 FWD BUS: FL FR, FR ENG
8387 FWD BUS: FL FR, RR ENG
8388 OTHER FWD TRUCK
8389 UNKNOWN FWD TRUCK
8471 SCOUT
8473 PICKUP/PANEL
8475 MULTISTOP
8476 TRAVELLALL
8478 OTHER INT HARV LT TRUCK
8479 UNKNOWN INT HARV LT TRUCK
8480 INT HARV MOTOR HOME
8481 CBE: MED/HVY INT HARV
8482 COE: LO ENT: MED/HVY INT HARV
8483 COE: HI ENT: MED/HVY INT HARV
8484 UNKNOWN ENG LOC: MED/HVY INT HARV
8485 INT HARV BUS: CONVENTIONAL
8486 INT HARV BUS: FL FR, FR ENG
8487 INT HARV BUS: FL FR, RR ENG
8488 OTHER INT HARV TRUCK
8489 UNKNOWN INT HARV TRUCK
8400 UNKNOWN INTERNATIONAL HARVESTER
8580 KENWORTH MOTOR HOME
8581 CBE: MED/HVY KENWORTH
8582 COE: LO ENT: MED/HVY KENWORTH
8583 COE: HI ENT: MED/HVY KENWORTH
8584 UNKNOWN ENG LOC: MED/HVY KENWORTH
8585 KENWORTH BUS
8586 KENWORTH BUS: FL FR, FR ENG
8587 KENWORTH BUS: FL FR, RR ENG
8588 OTHER KENWORTH TRUCK
8589 UNKNOWN KENWORTH TRUCK
8680 MACK MOTOR HOME
8681 CBE: MED/HVY MACK
8682 COE: LO ENT: MED/HVY MACK
8683 COE: HI ENT: MED/HVY MACK
8684 UNKNOWN ENG LOC: MED/HVY MACK
8685 MACK BUS
8686 MACK BUS: FL FR, FR ENG
8687 MACK BUS: FL FR, RR ENG
8688 OTHER MACK TRUCK
8689 UNKNOWN MACK TRUCK

(Continued on Next Page)

Vehicle Model - 1982 to 1986 (Continued)

8780 PETERBILT MOTOR HOME
8781 CBE: MED/HVY PETERBILT
8782 COE: LO ENT: MED/HVY PETERBILT
8783 COE: HI ENT: MED/HVY PETERBILT
8784 UNKNOWN ENG LOC: MED/HVY PETERBILT
8785 PETERBILT BUS
8786 PETERBILT BUS: FL FR, FR NG
8787 PETERBILT BUS: FL FR, RR ENG
8788 OTHER PETERBILT TRUCK
8789 UNKNOWN PETERBILT TRUCK
8880 WHITE MOTOR HOME
8881 CBE: MED/HVY WHITE
8882 COE: LO ENT: MED/HVY WHITE
8883 COE: HI ENT: MED/HVY WHITE
8884 UNK ENG LOC: MED/HVY WHITE
8885 WHITE BUS
8886 WHITE BUS: FL FR, FR ENG
8887 WHITE BUS: FL FR, RR ENG
8888 OTHER WHITE TRUCK
8889 UNKNOWN WHITE TRUCK
9501 AUTOCAR
9502 AUTO-UNION-DKW
9503 DIVCO
9504 WESTERN STAR
9578 OTHER LIGHT TRUCK
9588 OTHER TRUCK
9800 UNKNOWNNOWN
9899 UNKNOWN AUTOMOBILE
9900 UNKNOWN AUTO,CYCLE,LT TRUCK,TRUCK
9979 UNKNOWN LT TRUCK
9989 UNKNOWN TRUCK
9999 UNKNOWN AUTOMOBILE

(Vehicle Model Continued on Next Page)

Vehicle Model

1975 to 1981

The make data are concatenated with the model data to form the make model variable. The first digit or two identifies the make, the last two digits identifies the model. The early years of data had different values but have been changed to the values listed here. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

Variable = MAK_MOD

Values =

101 RAMBLER/AMERICAN
102 REBEL/MATADOR
103 AMBASSADOR
104 PACER
105 AMX
106 JAVELIN
107 HORNET/CONCORD
108 SPIRIT/GREMLIN
109 EAGLE
110 SX4/KAMMBACK
198 OTHER AMC
199 UNKNOWN AMC
200 UNKNOWN (JEEP)
201 CJ-2/CJ-3/CJ-4
202 CJ-5/CJ-6/CJ-7/CJ-8
271 CHEROKEE
273 PICK-UP
276 WAGONEER
278 OTHER (JEEP TRUCK)
279 UNKNOWN (JEEP TRUCK)
298 OTHER JEEP
299 UNKNOWN JEEP
300 UNKNOWN AM GENERAL
301 DISPATCHER
375 DISPATCHER
387 BUS (REAR ENGINE)
388 OTHER AM TRUCK
389 UNKNOWN AM TRUCK
398 OTHER AM GENERAL
399 UNKNOWN AM GENERAL
607 LEBARON
609 CORDOBA
610 NEWPORT/NEW YORKER
698 OTHER CHRYSLER
699 UNKNOWN CHRYSLER
700 UNKNOWN (DODGE)
701 DART
702 CORONET/CHARGER/MAGNUM
703 POLARA/MONACO
704 ROYAL MONACO
705 CHALLENGER
706 ASPEN
707 DIPLOMAT
708 OMNI
709 MIRADA
710 ST. REGIS
711 ARIES
732 ARROW
733 CHALLENGER-IMPORT
734 COLT
771 RANCHARGER
772 D50/COLT PICKUP
773 D, W-SERIES PICKUP
774 VAN
778 OTHER (LIGHT TRUCK)
779 UNKNOWN (LIGHT TRUCK)

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

781 CBE: MEDIUM/HEAVY
782 COE: LOW ENTRY: MEDIUM/HEAVY
783 COE: HIGH ENTRY: MEDIUM/HEAVY
784 UNK. MEDIUM/HEAVY: ENGINE LOCATION
785 MEDIUM: BUS (NOT VAN BASED)
788 OTHER (TRUCK)
789 UNKNOWN (TRUCK)
798 OTHER DODGE
799 UNKNOWN DODGE
810 IMPERIAL
898 OTHER IMPERIAL
899 UNKNOWN IMPERIAL
900 UNKNOWN (PLYMOUTH)
901 VALIANT/DUSTER/SCAMP
902 SATELLITE/BELVEDERE
903 FURY
904 GRAN FURY
905 BARRACUDA
906 VOLARE
907 CARAVELLE
908 HORIZON
911 RELIANT
931 CRICKET
932 ARROW
933 SAPPORO
934 CHAMP
971 TRAILDUSTER
972 ARROW PICKUP
974 VAN (VOYAGER)
978 OTHER (LIGHT TRUCK)
979 UNKNOWN (LIGHT TRUCK)
998 OTHER PLYMOUTH
999 UNKNOWN PLYMOUTH
1200 UNKNOWN FORD
1201 FALCON

1202 FAIRLANE
1203 MUSTANG/MUSTANG II
1204 THUNDERBIRD
1205 LTD II
1206 LTD/GALAXY/CUSTOM
1207 RANCHERO
1208 MAVERICK
1209 PINTO
1210 TORINO/GRAN TORINO
1211 GRANADA
1212 FAIRMONT
1213 ESCORT
1231 ENGLISH FORD
1232 FIESTA
1233 PANTERA
1271 BRONCO
1272 COURIER PICKUP
1273 F-SERIES PICKUP
1274 VAN
1275 VAN DERIVATIVE1
1278 OTHER (LIGHT TRUCK)
1279 UNKNOWN (LIGHT TRUCK)
1281 CBE: MEDIUM/HEAVY
1282 COE: LOW ENTRY:
MEDIUM/HEAVY
1283 COE: HIGH ENTRY:
MEDIUM/HEAVY
1284 UNKNOWN. ENGINE LOCATION:
MEDIUM/HEAVY
1285 MEDIUM BUS
1288 OTHER TRUCK
1289 UNKNOWNNOWN TRUCK
1298 OTHER FORD
1299 UNKNOWN FORD
1301 CONTINENTAL
1302 MARK
1311 VERSAILLES
1398 OTHER LINCOLN
1399 UNKNOWN LINCOLN

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

1402 CYCLONE
1403 CAPRI-DOMESTIC
1404 COUGAR
1405 COUGAR XR7
1406 MARQUIS/MONTEREY
1408 COMET
1409 BOBCAT
1410 MONTEGO
1411 MONARCH
1412 ZEPHYR
1413 LYNX
1431 CAPRI-IMPORT
1498 OTHER MERCURY
1499 UNKNOWN MERCURY
1801 REGAL/CENTURY/SPECIAL
1802 LESABRE/WILDCAT/CENTURION
1803 ELECTRA, ELECTRA 225
1805 RIVIERA
1808 APOLLO
1812 SKYHAWK
1813 SKYLARK
1815 SKYLAWK
1831 OPEL KADETTE
1832 OPEL MANTA/1900
1833 OPEL GT
1834 OPEL ISUZU
1898 OTHER BUICK
1899 UNKNOWN BUICK
1903 DEVILLE/BROUGHAM
1904 LIMOUSINE
1905 ELDORADO
1906 COMMERCIAL SERIES
1914 SEVILLE
1916 CIMARRON
1998 OTHER CADILLAC
1999 UNKNOWN CADILLAC
2000 UNNOWN (CHEVROLET)
2001 MALIBU/CHEVELLE
2002 CAPRICE/IMPALA
2004 CORVETTE
2006 CORVAIR
2007 EL CAMINO
2008 NOVA
2009 CAMARO
2010 MONTE CARLO
2011 VEGA
2012 MONZA
2013 CHEVETTE
2015 CITATION
2016 CAVALIER
2071 BLAZER
2072 LUV PICKUP
2073 C, K-SERIES PICKUP
2074 G-SERIES VAN
2075 VAN DERIVATIVES
2076 SUBURBAN
2078 OTHER (LIGHT TRUCK)
2079 UNKNOWN (LIGHT TRUCK)
2081 CBE: MEDIUM/HEAVY
2082 COE: LOW ENTRY: MEDIUM/HEAVY
2083 COE: HIGH ENTRY: MEDIUM/HEAVY
2084 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
2085 BUS
2088 OTHER (TRUCK)
2089 UNKNOWNNOWN (TRUCK)
2098 OTHER CHVEY
2099 UNKNOWN CHEVY
2101 CUTLASS
2102 DELTA 88
2103 NINETY-EIGHT
2105 TORONADO
2106 COMMERCIAL SERIES
2112 STARFIRE
2115 OMEGA
2198 OTHER OLDS

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

2199 UNKNOWN OLDS
2201 LEMANS/TEMPEST
2202 BONNEVILLE,CATALINA
2208 VENTURA
2209 FIREBIRD/TRANS AM
2210 GRAND PRIX
2211 ASTRE
2212 SUNBIRD
2215 PHOENIX
2216 J-2000
2298 OTHER PONTIAC
2299 UNKNOWN PONTIAC
2300 UNKNOWN GMC
2307 CABALLERO/SPRINT
2371 JIMMY
2373 C, K-SERIES PICKUP
2374 G VAN/VANDURA,RALLY VAN
2375 VAN DERIVATIVES
2376 SUBURBAN
2378 OTHER (LIGHT TRUCK)
2379 UNKNOWN (LIGHT TRUCK)
2381 CBE: MEDIUM/HEAVY
2382 COE: LOW ENTRY:
MEDIUM/HEAVY
2383 COE: HIGH ENTRY:
MEDIUM/HEAVY
2384 UNKNOWN. ENGINE LOCATION:
MEDIUM/HEAVY
2385 BUS
2388 OTHER (TRUCK)
2389 UNKNOWN (TRUCK)
2398 OTHER GMC
2399 UNKNOWN GMC
2901 STUDEBAKER/AVANTI
2902 CHECKER
2998 OTHER DOMESTIC
3000 UNKNOWN VW
3001 KARMANN GHIA
3002 BEETLE

3003 SUPER BEETLE
3004 411/412
3005 SQUAREBACK/FASTBACK
3006 RABBIT
3007 DASHER
3008 SCIROCCO
3009 THE THING
3010 JETTA
3072 RABBIT PICKUP
3074 VAN/VANAGON/CAMPER
3078 OTHER (LIGHT TRUCK)
3079 UNKNOWN (LIGHT TRUCK)
3098 OTHER VW
3099 UNKNOWN VW
3101 SPIDER
3102 SPORTS SEDAN
3103 SPRINT VELOCE
3198 OTHER ALFA ROMEO
3199 UNKNOWN ALFA ROMEO
3201 SUPER 90
3202 100
3203 FOX
3204 4000
3205 5000
3298 OTHER AUDI
3299 UNKNOWN AUDI
3301 MARINA
3302 AMERICA
3303 HEALEY SPRITE
3304 HEALEY3000
3305 MINI
3398 OTHER AUSTIN
3399 UNKNOWN AUSTIN
3400 UNKNOWN (BMW)
3401 1600, 2002
3402 COUPE
3403 BAVARIA SEDAN
3404 630, 633
3405 320I

(Continued on Next Page)

3406 528I, 530I
3407 733I
3461 0-50 CC
3462 51-124 CC
3463 125-349 CC
3464 350-449 CC
3465 450-749 CC
3466 750 CC OR OVER
3469 UNKNOWN (CC)
3498 OTHER BMW
3499 UNKNOWN BMW
3500 UNKNOWN (DATSUN)
3501 F-10
3502 200 SX
3503 B210/210/1200
3504 240/260/280
3505 310
3506 510
3507 610
3508 710
3509 810
3510 ROADSTER (SPL311/SRL311)
3511 PL 411/RL 411
3572 PICKUP
3578 OTHER (LIGHT TRUCK)
3579 UNKNOWN (LIGHT TRUCK)
3598 OTHER DATSUN
3599 UNKNOWN DATSUN
3601 124 (COUPE/SEDAN)
3602 124 (SPIDER)
3603 BRAVA/131
3604 850 (COUPE & SPYDER)
3605 128
3606 X-1/9
3607 STRADA
3698 OTHER FIAT
3699 UNKNOWN FIAT
3700 UNKNOWN (HONDA)
3701 CIVIC
3702 ACCORD
3703 PRELUDE
3704 600
3761 0-50 CC
3762 51-124 CC
3763 125-349 CC
3764 350-449 CC
3765 450-749 CC
3766 750 CC OR OVER
3769 UNKNOWN (CC)
3798 OTHER HONDA
3799 UNKNOWN HONDA
3800 UNKNOWN (ISUZU)
3801 GEMINI
3872 RODEO (PICK-UP)
3878 OTHER (LIGHT TRUCK)
3879 UNKNOWN (LIGHT TRUCK)
3898 OTHER ISUZU
3899 UNKNOWN ISUZU
3901 XJ-S COUPE
3902 XJ6/XJ12 SEDAN/COUPE
3903 XK-E
3998 OTHER JAGUAR
3999 UNKNOWN JAGUAR
4001 BETA SEDAN/HPE
4002 BETA COUPE/ZAGATO
4003 SCORPION
4098 OTHER LANCIA
4099 UNKNOWN LANCIA
4100 UNKNOWN (MAZDA)
4101 RX2
4102 RX3
4103 RX4
4104 RX7
4105 GLC
4106 COSMO
4107 626
4108 808
4109 MIZER

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

4110 R-100
4111 618/616
4112 1800
4172 PICK-UP
4178 OTHER (LIGHT TRUCK)
4179 UNKNOWN (LIGHT TRUCK)
4198 OTHER MAZDA
4199 UNKNOWN MAZDA
4200 UNKNOWN (MERCEDES-BENZ)
4201 200/220/230/240/250/280/300 (SEDAN/COUPE)
4202 230 SL/280 SL (2 PASS.)
4203 350 SL/450 SL/380 SL
4204 350 SLC/450 SLC/380 SLC
4205 300 SEL/280 SEL
4206 450 SEL/380 SEL
4207 450 SE
4208 600/6.9 SEDAN
4281 CBE: MEDIUM/HEAVY
4282 COE: LOW ENTRY: MEDIUM/HEAVY
4283 COE: HIGH ENTRY: MEDIUM/HEAVY
4284 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
4285 MEDIUM: BUS
4288 OTHER (TRUCK)
4289 UNKNOWN (TRUCK)
4298 OTHER MERCEDES
4299 UNKNOWN MERCEDES
4301 MG MIDGET
4302 MGB
4303 MGB GT
4304 MGA
4305 TA/TC/TD/TF
4306 MGC
4398 OTHER MG
4399 UNKNOWN MG
4401 304

4402 403
4403 404
4404 505/504
4405 604
4498 OTHER PEUGEOT
4499 UNKNOWN PEUGEOT
4501 911
4502 912/912E
4503 914
4504 924
4505 928
4506 930/TURBO
4598 OTHER PORSCHE
4599 UNKNOWN PORSCHE
4601 LECAR
4602 10/DAUPHINE/CARAVELLE/R-8
4603 12
4604 15
4605 16
4606 17
4607 RL8I
4698 OTHER RENAULT
4699 UNKNOWN RENAULT
4701 99/99E/900
4702 SONNET
4703 95/96/97
4772 PICK-UP
4774 CHINOOK
4778 OTHER (LIGHT TRUCK)
4779 UNKNOWN (LIGHT TRUCK)
4798 OTHER SAAB
4799 UNKNOWN SAAB
4801 FE/GF/DL/STD/GL/G/GLF
4802 STAR
4803 360
4872 BRAT
4878 OTHER (LIGHT TRUCK)
4879 UNKNOWN (LIGHT TRUCK)
4898 OTHER SUBARU

(Continued on Next Page)

4899 UNKNOWN SUBARU
4900 UNKNOWN (TOYOTA)
4901 CORONA
4902 COROLLA
4903 CELICA
4904 CELICA SUPRA
4905 CRESSIDA
4906 CROWN
4907 CARINA
4908 TERCEL
4909 STARLET
4971 LANDCRUISER
4998 OTHER TOYOTA
4999 UNKNOWN TOYOTA
5000 UNKNOWN (TRIUMPH)
5001 SPITFIRE
5002 GT6
5003 TR4
5004 TR6
5005 TR7/TR8
5006 HERALD
5007 STAG
5061 0-50 CC
5062 51-124 CC
5063 125-349 CC
5064 350-449 CC
5065 450-749 CC
5066 750 CC OR MORE
5069 UNKNOWN (CC)
5098 OTHER TRIUMPH
5099 UNKNOWN TRIUMPH
5100 UNKNOWN (VOLVO)
5101 122
5102 142/144/145
5103 164
5104 242/244/245
5105 262/264/265
5106 1800
5107 P-544
5181 CBE: MEDIUM/HEAVY
5182 COE: LOW ENTRY: MEDIUM/HEAVY
5183 COE: HIGH ENTRY: MEDIUM/HEAVY
5184 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
5185 MEDIUM: BUS
5188 OTHER (TRUCK)
5189 UNKNOWN (TRUCK)
5198 OTHER VOLVO
5199 UNKNOWN VOLVO
5931 ASTON MARTIN
5932 BRICKLIN
5933 CITROEN
5934 DELOREAN
5935 FERRARI
5936 HILLMAN
5937 JENSEN
5938 LAMBORGHINI
5939 LOTUS
5940 MASERATI
5941 MORRIS
5942 ROLLS ROYCE/BENTLEY
5943 ROVER
5944 SIMCA
5945 SUNBEAM
5946 TVR
5998 OTHER IMPORT
6061 0-50 CC
6062 51-124 CC
6063 125-349 CC
6064 350-449 CC
6065 450-749 CC
6066 750 CC AND OVER
6069 UNKNOWN (CC)
6161 0-50 CC
6162 51-124 CC
6163 125-349 CC
6164 350-449 CC

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

6165 450-749 CC
6166 750 CC AND OVER
6169 UNKNOWN (CC)
6261 0-50 CC
6262 51-124 CC
6263 125-349 CC
6264 350-449 CC 6265 450-749 CC
6266 750 CC AND OVER
6269 UNKNOWN (CC)
6361 0-50 CC
6362 51-124 CC
6363 125-349 CC
6364 350-449 CC
6365 450-749 CC
6366 750 CC AND OVER
6369 UNKNOWN (CC)
6461 0-50 CC
6462 51-124 CC
6463 125-349 CC
6464 350-449 CC
6465 450-749 CC
6466 750 CC AND OVER
6469 UNKNOWN (CC)
6561 0-50 CC
6562 51-124 CC
6563 125-349 CC
6564 350-449 CC
6565 450-749 CC
6566 750 CC AND OVER
6569 UNKNOWN (CC)
6661 0-50 CC
6662 51-124 CC
6663 125-349 CC
6664 350-449 CC
6665 450-749 CC
6666 750 CC AND OVER
6669 UNKNOWN (CC)
6761 0-50 CC
6762 51-124 CC

6763 125-349 CC
6764 350-449 CC
6765 450-749 CC
6766 750 CC AND OVER
6769 UNKNOWN (CC)
6961 0-50 CC
6962 51-124 CC
6963 125-349 CC
6964 350-449 CC
6965 450-749 CC
6966 750 CC AND OVER
6969 UNKNOWN (CC)
7061 0-50 CC
7062 51-124 CC
7069 UNKNOWN (CC)
8080 MOTOR HOME
8081 CBE: MEDIUM/HEAVY
8082 COE: LOW ENTRY:
MEDIUM/HEAVY
8083 COE: HIGH ENTRY:
MEDIUM/HEAVY
8084 UNKNOWN. ENGINE LOCATION:
MEDIUM/HEAVY
8085 BUS
8086 BUS: FLAT FRONT, FRONT
ENGINE
8087 BUS: FLAT FRONT, REAR
ENGINE
8088 OTHER (TRUCK)
8089 UNKNOWN (TRUCK)
8180 MOTOR HOME
8181 CBE: MEDIUM/HEAVY 8182
COE: LOW ENTRY: MEDIUM/HEAVY
8183 COE: HIGH ENTRY:
MEDIUM/HEAVY
8184 UNKNOWN. ENGINE LOCATION:
MEDIUM/HEAVY
8185 BUS
8186 BUS: FLAT FRONT, FRONT ENG

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8187 BUS: FLAT FRONT, REAR ENGINE
8188 OTHER (TRUCK)
8189 UNKNOWN (TRUCK)
8280 MOTOR HOME
8281 CBE: MEDIUM/HEAVY
8282 COE: LOW ENTRY: MEDIUM/HEAVY
8283 COE: HIGH ENTRY: MEDIUM/HEAVY
8284 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8285 BUS
8286 BUS: FLAT FRONT, FRONT ENGINE
8287 BUS: FLAT FRONT, REAR ENGINE
8288 OTHER (TRUCK)
8289 UNKNOWN (TRUCK)
8380 MOTOR HOME
8381 CBE: MEDIUM/HEAVY
8382 COE: LOW ENTRY: MEDIUM/HEAVY
8383 COE: HIGH ENTRY: MEDIUM/HEAVY
8384 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8385 BUS
8386 BUS: FLAT FRONT, FRONT ENGINE
8387 BUS: FLAT FRONT, REAR ENGINE
8388 OTHER (TRUCK)
8389 UNKNOWN (TRUCK)
8400 UNKNOWN (INTERNATIONAL HARVESTER)
8471 SCOUT
8473 PICKUP/PANEL
8475 MULTISTOP
8476 TRAVELLALL
8478 OTHER (LIGHT TRUCK)
8479 UNKNOWN (LIGHT TRUCK)
8480 MOTOR HOME
8481 CBE: MEDIUM/HEAVY
8482 COE: LOW ENTRY: MEDIUM/HEAVY
8483 COE: HIGH ENTRY: MEDIUM/HEAVY
8484 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8485 BUS: CONVENTIONAL
8486 BUS: FLST FRONT, FRONT ENGINE
8487 BUS: FLAT FRONT, REAR ENGINE
8488 OTHER (TRUCK)
8489 UNKNOWN (TRUCK)
8580 MOTOR HOME
8581 CBE: MEDIUM/HEAVY
8582 COE: LOW ENTRY: MEDIUM/HEAVY
8583 COE: HIGH ENTRY: MEDIUM/HEAVY
8584 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8585 BUS
8586 BUS: FLAT FRONT, FRONT ENGINE
8587 BUS: FLAT FRONT, REAR ENGINE
8588 OTHER (TRUCK)
8589 UNKNOWN (TRUCK)
8680 MOTOR HOME
8681 CBE: MEDIUM/HEAVY
8682 COE: LOW ENTRY: MEDIUM/HEAVY
8683 COE: HIGH ENTRY: MEDIUM/HEAVY
8684 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8685 BUS
8686 BUS: FLAT FRONT, FRONT ENGINE
8687 BUS: FLAT FRONT, REAR ENGINE
8688 OTHER (TRUCK)
8689 UNKNOWN (TRUCK)
8780 MOTOR HOME

(Continued on Next Page)

Vehicle Model - 1975 to 1981 (Continued)

8781 CBE: MEDIUM/HEAVY
8782 COE: LOW ENTRY: MEDIUM/HEAVY
8783 COE: HIGH ENTRY: MEDIUM/HEAVY
8784 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8785 BUS
8786 BUS: FLAT FRONT, FRONT ENGINE
8787 BUS: FLAT FRONT, REAR ENGINE
8788 OTHER (TRUCK)
8789 UNKNOWN (TRUCK)
8880 MOTOR HOME
8881 CBE: MEDIUM/HEAVY
8882 COE: LOW ENTRY: MEDIUM/HEAVY
8883 COE: HIGH ENTRY: MEDIUM/HEAVY
8884 UNKNOWN. ENGINE LOCATION: MEDIUM/HEAVY
8885 BUS
8886 BUS: FLAT FRONT, FRONT ENGINE
8887 BUS: FLAT FRONT, REAR ENGINE
8888 OTHER (TRUCK)
8889 UNKNOWN (TRUCK)
9501 AUTOCAR
9502 AUTO-UNION-DKW
9503 DIVCO
9504 WESTERN STAR
9578 OTHER (LIGHT TRUCK)
9588 OTHER (TRUCK)
9800 UNKNOWN
9899 UNKNOWN (AUTOMOBILE)
9900 UNKNOWN (AUTO,CYCLE,LGT TRUCK,TRUCK)
9979 UNKNOWN (LIGHT TRUCK)
9989 UNKNOWN (TRUCK)
9999 UNKNOWN (AUTOMOBILE)

Vehicle Number - Repeated in the person file.

1975 and later

Variable = VEH_NO

This variable is in each Vehicle and Person record. Together with the State Case, ST_CASE, it forms a unique identifier for the vehicle within the year. VEH_NO and ST_CASE **ARE OFTEN** used together as a key, when a Vehicle file and Person file, are merged, from the same year. This is done to insure that the correct occupants are placed in the proper vehicle. When non-occupants must be counted one should merge by VEH_NO, but do not merge with the VEHICLE file. For example, to obtain information on the day of the week, injury severity, and race merge the Accident file with the Person file using ST_CASE and merge that result with the Multiple Cause of Death (MCD) data [these data are generally not available to the public] using ST_CASE, VEH_NO and PER_NO. Note: If these data are merged with the vehicle file, then one looses all non occupants. So there is a difference between merging with the VEH_NO and with the vehicle file.

Also see: ST_CASE, State Case, in any file.

Non-occupants have VEH_NO = 0, in this case see N_MOT_NO under Non-Motorist Striking Vehicle Number in the Person File.

Vehicle Role - Repeated in the person file.

1975 and later

Variable = IMPACTS

Values =
0 Non-Collision
1 Striking
2 Struck
3 Both
9 Unknown

Note when a vehicle is both striking and struck, i.e. Value = 3, the event cannot simultaneously be at the same point of the vehicle. A vehicle must have at least one striking impact point and a struck impact point. A classic example is a chain reaction rear-end crash where a vehicle which is both striking and struck is located within the chain.

Vin Body Type - Repeated in the person file.

1982 and later except as noted

Variable = VIN_BT

This is a **CHARACTER** variable in **UPPER CASE**.

The VINA program decodes these data and partitions vehicles into three classes, passenger vehicles, trucks and motorcycles.

Values =

2D	Passenger Vehicle Sedan 2 Door
2F	Passenger Vehicle Formal Hardtop 2 Door
2H (81-03)	Passenger Vehicle 2 Door
2L	Passenger Vehicle Liftback 3 Door
2P	Passenger Vehicle Pillard Hardtop 2 Door
2T	Passenger Vehicle Hardtop 2 Door
2W	Truck 2 Door Wagon/Sport Utility
2W	Passenger Vehicle Wagon 2 Door
3D	Passenger Vehicle Runabout 3 Door
4D	Passenger Vehicle Sedan 4 Door
4H (81-03)	Passenger Vehicle Hatchback 4 Door
4L	Passenger Vehicle Liftback 5 Door
4P	Passenger Vehicle Pillard Hardtop 4 Door
4T	Passenger Vehicle Hardtop 4 Door
4W	Truck 4 Door Wagon/Sport Utility
4W	Passenger Vehicle Wagon 4 Door
5D	Passenger Vehicle Sedan 5 Door
8V	Truck 8 Passenger Sport Van
AC	Truck Auto Carrier
AM	Passenger Vehicle Ambulance
AR	Truck Armored Truck
AT	Motorcycle All Terrain
BU	Bus
CB	Truck Chassis and Cab
CB	Passenger Vehicle Cab & Chassis (Luv)
CC	Truck Conventional Cab
CG	Truck Cargo Van
CH	Truck Crew Chassis
CL	Truck Club Chassis

(Continued on Next Page)

Vin Body Type 1982 and later (Continued)

CM	Truck Concrete or Transit Mixer
CP	Truck Crew Pickup
CP	Passenger Vehicle Coupe
CR	Truck Crane
CS	Truck Super Cab/Chassis Pickup
CU	Truck Custom Pickup
CV	Truck Convertible (Jeep Commando, Suzuki Samurai, Dge Dakota)
CV	Passenger Vehicle Convertible
CY	Truck Cargo Cutaway
DP	Truck Dump
DS	Truck Tractor Truck (diesel)
EC	Truck Extended Cargo Van
EN	Motorcycle Enduro
ES	Truck Extended Sport Van
EV	Truck Ext Van
EW	Truck Extended Window Van
FB	Truck Flat-bed or Platform
FC	Truck Forward Control
FT	Truck Fire Truck
GG	Truck Garbage or Refuse
GL	Truck Gliders
GN	Truck Grain
HB	Passenger Vehicle Hatchback number doors unknown
HO	Truck Hopper
HR	Passenger Vehicle Hearse
HT	Passenger Vehicle Hardtop number doors unknown
IC	Truck Incomplete Chassis
IE	Truck Incomplete Ext Van
LB	Passenger Vehicle Liftback
LG	Truck Logger
LL	Truck Suburban & Carry All
LM	Passenger Vehicle Limousine
MH	Truck Motorized Home
MK	Motorcycle Mini Bike
MN	Motorcycle Mini Moto Class
MP	Motorcycle Moped
MP	Truck Multi-purpose
MR	Motorcycle Mini Road/Trail

(Continued on Next Page)

Vin Body Type 1982 and later (Continued)

MS	Motorcycle Motor Scooter
MV	Truck Maxi Van
MX	Motorcycle Moto Cross
MY	Truck Motorized Cutaway
MY	Motorcycle Mini Cycle
NB	Passenger Vehicle Notchback
PC	Truck Club Cab Pickup
PD	Truck Parcel Delivery
PK	Truck Pickup
PK	Passenger Vehicle Pickup, Truck commonly registered passengers
PM	Truck Pickup with Camper mounted on bed
PN	Truck Panel
PN	Passenger Vehicle Panel, Truck commonly registered as passengers
PS	Truck Super Cab Pickup
RC	Motorcycle Racer
RD	Truck Roadster (Jeep, Jeep Commando)
RD	Passenger Vehicle Roaster
RS	Motorcycle Road/Street
RT	Motorcycle Road/Trail
S1	Truck One Seat
S2	Truck Two Seat
SB	Passenger Vehicle Sport Hatchback
SC	Passenger Vehicle Sport Coupe
SD	Passenger Vehicle Sedan, number doors unknown
SN	Truck Step Van
SP	Truck Sport Pickup
ST	Truck Stake or Rack
SV	Truck Sports Van
SV	Passenger Vehicle Sport Van
SW	Passenger Vehicle Station Wagon
SW	Truck Station Wagon (Jeep Waggonneer etc.)
T	Motorcycle Dirt
TB	Truck Tilt Cab
TL	Truck Tilt Tandem
TL	Motorcycle Trail/Dirt
TM	Truck Tandem
TN	Truck Tank
TR	Motorcycle Trails
TR	Truck Tractor (Gasoline)

(Continued on Next Page)

Vin Body Type 1982 and later (Continued)

UT	Passenger Vehicle Utility, truck commonly registered as passenger
UT	Truck Utility (Blazer, Jimmy, Scout, etc.)
VC	Truck Van Camper
VD	Truck Display Van
VN	Truck Van
VT	Truck Vanette (includes Metro and Handy Van)
VW	Truck Window Van
WK	Truck Tow Truck Wrecker
WW	Truck Wide Wheel Wagon
WW	Passenger Vehicle Wide Wheel Wagon
XT	Truck Travelall
YY	Truck Cutaway
99	Unknown

Vin Chassis-Truck

1975 - 1981

Variable = CHAS_TR

Values = 99

This seems to be a useless variable in FARS. When it has a value, the value is 99. This variable may have had a use in the early versions of FARS, but I have not been able to find any documentation on its use.

Vin Model - Repeated in the person file.

1975 and later

Variable = VINA_MOD — The Vin Model, for automobiles, is obtained from the VINA program for automobiles of model year 1966 and later that have verifiable VIN numbers. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

This is a **CHARACTER** variable in **UPPER CASE** three characters long.

The VINA_MOD is only unique within the vehicle make. That is, different makes of vehicles can have the same VINA_MOD. To ensure that the correct vehicle is selected the variable MAKE must be used in conjunction with VINA_MOD. Both variables, VINA_MOD and MAKE, are in both the Vehicle file and the Person file.

The values for VINA_MOD are contained in Appendix F of PC VINA$_{TM}$ User's Manual, and is 183 pages long in the 1994 edition.

There are two columns headed VINA CODE. For passenger cars, or what Polk calls passenger vehicles, the FARS variable VINA_MOD can be set to either the vina code for the series name, i.e. the first column, or it can be set to the value of the sub-series name, the last column. Therefore one must search for values in both columns.

For trucks the, the first column labeled VINA CODE, series name, is the FARS variable SER_TR. When using the variable SER_TR all model names, last column are included. If one wishes to select a specific truck model one uses the FARS variable VINA_MOD set to the value in the last VINA CODE column.

Vin Series Truck - Repeated in the Person file.

1975 and later

Variable = SER_TR

> This is a code that identifies the type of truck, i.e. body style. This material comes from analysis of the Vehicle Identification Number (VIN).

This is a **CHARACTER** variable in **UPPER CASE** three characters long.

The values for SER_TR are contained in Appendix F of PC VINA$_{TM}$ User's Manual, and is 183 pages long in the 1994 edition. The values for SER_TR are in the truck section of Appendix F. They are the first column headed VINA CODE for the series name. When using the variable SER_TR all model names, in the last column are included. If one wishes to select a specific truck model one uses the FARS variable VINA_MOD set to the value in the last column headed VINA CODE.

Violations Charged

1997 and later

Variables = VIOLCHG1 or VIOLCHG2 or VIOLCHG3

Values = RECKLESS/CARELESS/HIT-AND-RUN TYPE OFFENSES

01 Manslaughter or Homicide
02 Willful Reckless Driving; Driving to Endanger; Negligent Driving
03 Unsafe Reckless (Not Willful, Wanton Reckless) Driving
04 Inattentive, Careless, Improper Driving
05 Fleeing or Eluding Police
06 Fail to Obey Police, Fireman, Authorized Person Directing Traffic
07 Hit-and-Run, Fail to Stop After Accident
08 Fail to Give Aid, Info., Wait for Police After Accident
09 Serious Violation Resulting in Death

IMPAIRMENT OFFENSES

11 Driving While Intoxicated (Alcohol or Drugs) or BAC Above Limit (Any Detectable BAC for CDLs)
12 Driving While Impaired
13 Driving Under Influence of Substance Not Intended to Intoxicate
14 Drinking While Operating
15 Illegal Possession of Alcohol or Drugs
16 Driving With Detectable Alcohol
18 Refusal to Submit to Chemical Test
19 Alcohol, Drug, or Impairment Violations Generally

SPEED-RELATED OFFENSES

21 Racing
22 Speeding (Above the Speed Limit)
23 Speed Greater than Reasonable & Prudent (Not Necessarily Over the Limit)
24 Exceeding Special Speed Limit (e.g.: for Trucks, Buses, Cycles, or or on Bridge, in School Zone, etc.)
25 Energy Speed (Exceeding 55 MPH, Non-Pointable)
26 Driving too Slowly
29 Speed Related Violations Generally

(Continued on Next Page)

Violations Charged (Continued)

1997 and later

Variables = VIOLCHG1 or VIOLCHG2 or VIOLCHG3

Values = RULES OF THE ROAD - TRAFFIC SIGN & SIGNALS

31 Fail to Stop for Red Signal
32 Fail to Stop for Flashing Red
33 Violation of Turn on Red (Fail to Stop & Yield, Yield to Pedestrians Before Turning)
34 Fail to Obey Flashing Signal (Yellow or Red)
35 Fail to Obey Signal Generally
36 Violate RR Grade Crossing Device/Regulations
37 Fail to Obey Stop Sign
38 Fail to Obey Yield Sign
39 Fail to Obey Traffic Control Device Generally

RULES OF THE ROAD - TURNING, YIELDING, SIGNALING

41 Turn in Violation of Traffic Control (Disobey Signs, Turn Arrow or Pavement Markings; this is not a Right-on-Red Violation)
42 Improper Method & Position of Turn (Too Wide, Wrong Lane)
43 Fail to Signal for Turn or Stop
45 Fail to Yield to Emergency Vehicle
46 Fail to Yield Generally
48 Enter Intersection When Space Insufficient
49 Turn, Yield, Signaling Violations Generally

RULES OF THE ROAD -WRONG SIDE, PASSING & FOLLOWING

51 Driving Wrong Way on One-Way Road
52 Driving on Left, Wrong Side of Road Generally
53 Improper, Unsafe Passing
54 Pass on Right (Drive off Pavement to Pass)
55 Pass Stopped School Bus
56 Fail to Give Way When Overtaken
58 Following too Closely
59 Wrong Side, Passing, Following Violations Generally

(Continued on Next Page)

Violations Charged (Continued)

1997 and later Variables = VIOLCHG1 or VIOLCHG2 or VIOLCHG3

Values = RULES OF THE ROAD - LANE USAGE

61 Unsafe or Prohibited Lane Change
62 Improper use of Lane (Enter of 3-Lane Road, HOV Designated Lane)
63 Certain Traffic to use Right Lane (Trucks, Slow Moving, etc.)
66 Motorcycle Lane Violations (More than two per Lane, Riding Between Lanes, etc.)
67 Motorcyclist Attached to Another Vehicle
69 Lane Violations Generally

NON-MOVING - LICENSE & REGISTRATION VIOLATIONS

71 Driving While License Withdrawn
72 Other Driver License Violations
73 Commercial Driver Violations
74 Vehicle Registration Violations
75 Fail to Carry Insurance Card
76 Driving Uninsured Vehicle
79 Non-Moving Violations Generally

EQUIPMENT

81 Lamp Violations
82 Brake Violations
83 Failure to Require Restraint use (by Self or Passenger)
84 Motorcycle Equipment Violations (Helmet, Special Equipment)
85 Violation of Hazardous Cargo Regulations
86 Size, Weight, Load Violations
89 Equipment Violations Generally

OTHER VIOLATIONS

91 Parking
92 Theft, Unauthorized use of Motor Vehicle
93 Driving where Prohibited (Sidewalk, Limited Access, Off Truck Route)
98 Other Moving Violation

99 Unknown Violation

(Continued on Next Page)

Violations Charged (Continued)

1982 to 1996

Variable = VIOL_CHG

Values =
0 None
1 Alcohol or Drugs
2 Speeding
3 Alcohol or Drugs and Speeding
4 Reckless Driving
5 Driving With Suspended or Revoked License
6 Other Moving Violation
7 Non-Moving Violation
8 Violation, Type Unknown or Other Violation
9 Unknown

1975 to 1981

Variable = VIOL_CHG

Values =
0 None
1 Yes
2 Pending
9 Unknown

Weight (Auto) - Repeated in the person file.

1975 and later

Variable = VIN_WGT

Values = 0 Not available
up to 9998 Actual weight of automobile in pounds
9999 Value not coded

The Fatality Aanalysis Reporting System (FARS) collects information on the weight of cars involved in fatal crashes. Vehicle weight is not generally available for light trucks, however, the weight code, WGTCD_TR is. The National Highway Traffic Safety Administration often partitions car weight into six classes. This has been done in *"An Analysis of Fires in Passenger Cars, Light Trucks, and Vans"*, Tessmer, DOT HS 808 208, 1994, "*Passenger Car Weight and Injury Severity in Single-vehicle Nonrollover Crashes*", Partyka and Boehly, 1989, ESV Report 89-2b-O-005 and "*Development of Databases in Support of an Analysis of Fire Incidence Using the Fatal Accident Reporting System*", Walz and Klein, Sep. 14, 1993. The partition is defined as:

CAR WEIGHT CLASSES

Class	Weight Range in Pounds
Class 1	Car Weight < 1950
Class 2	1950 ≤ Car Weight < 2450
Class 3	2450 ≤ Car Weight < 2950
Class 4	2950 ≤ Car Weight < 3450
Class 5	3450 ≤ Car Weight < 3950
Class 6	3950 ≤ Car Weight

Note: If you are going to use this variable as a continuous variable, consider defining a new variable, say AUTO_WT as AUTO_WT = VIN_WT/1000. That is AUTO_WT is the weight of the car in 1000's of lbs. Its coefficient is less likely to be zero.

Weight Code (Trucks) - Repeated in the person file.

1975 and later

Variable = WGTCD_TR (for model year 1966 and newer trucks)

Values =
1 6,000 lbs or less
2 6,001 - 10,000 lbs
3 10,001 - 14,000 lbs
4 14,001 - 16,000 lbs
5 16,001 - 19,500 lbs
6 19,501 - 26,000 lbs
7 26,001 - 33,000 lbs
8 33,001 and up
9 Unknown

WGTCD_TR is often coded as 9 for buses.

2000 and later

Variable = GVWR

Values =
0 Not Applicable
1 10,000 lbs or less
2 10,000 lbs - 26,000 lbs
3 26,000 lbs or more
9 Unknown

The Gross Vehicle Weight Rating (GVWR) is a value specified by the manufacturer for a single-unit truck, truck tractor, or trailer. In the absence of a gross vehicle weight rating, an estimate of the gross weight of a fully loaded unit can be substituted.

In 2000 was the sum of the GVWR of the power unit and its trailers

Since 2001 this element is the GVWR of the Power Unit only. The GVWR of trailers is not added.

Wheelbase (Auto) - Repeated in the person file.

1975 and later

Variables = WHLBS_LG The longest and shortest wheelbase respectively for the
WHLBS_SH manufactured model as determined by the VINA program for automobiles made since 1966.

Values = 0000 Value not available from the VINA program
up to 9998 Actual value in inches
9999 Value not coded

THE PERSON FILE

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WORK_INJ	Fatal Injury at Work	P-25

FARS PERSON FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
AGE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AIR_BAG																	A	A	A	A	A	A	A	B	B	B	B	B
ALC_DET													A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ACL_RES																	A	A	A	A	A	A	A	A	A	A	A	A
AUT_REST	A	A	B	B	B	C	C	C	C	C	C	C	C	C	C	D												
ATST_TYP																								A	A	A	B	B
BODY_TYP	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	C	C	D	D	D	D	D	D	D	D	D	D
CERT_NO																	A	A	A	A	A	A	A	A	A	A	A	A
COUNTY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DAY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_DA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_HR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_MN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_MO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_TM	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DEATH_YR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
DRINKING	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DRUGRES1																			A	A	A	A	A	A	A	A	A	A
DRUGRES2																			A	A	A	A	A	A	A	A	A	A

DRUGRES3																		A	A	A	A	A	A	A	A	A	A
FARS PERSON FILE VARIABLES																											
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
DRUGS																	A	A	A	A	A	A	A	A	A	A	A
DRUGTEST																	A	A									
DRUGTST1																			A	A	A	A	A	A	A	A	A
DRUGTST2																			A	A	A	A	A	A	A	A	A
DRUGTST3																			A	A	A	A	A	A	A	A	A
DRUG_DET																	A	A	A	A	A	A	A	A	A	A	A
DRUG_RES																	A	A									
EJECTION	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
EJ_PATH																	A	A	A	A	A	A	A	A	A	A	A
EMER_USE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
EXTRICAT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FIRE_EXP	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
HARM_EV	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	C	D	D	D	E	F	F	F	F
HISPANIC																									A	B	C	C
HOSPITAL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	C	C
HOUR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
IMPACT1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B
IMPACT2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B

IMPACTS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
INJ_SEV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FARS PERSON FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
LAG_HRS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LAG_MINS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LOCATION	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
MAKE	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C	D	E	E	E	E	E	E	E	E	E	E	E	E
MAK_MOD	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D	D
MAN_COLL	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
MAN_REST	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
MCYCL_DS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MINUTE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MOD_YEAR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
MONTH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
N_MOT_NO								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
PER_NO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
PER_TYP	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C
P_CF1	A	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	E	F	G
P_CF2	A	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	E	F	G
P_CF3	A	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	E	F	G

RACE																									A	B	C	C
REST_USE																	A	A	A	B	B	B	B	B	B	B	B	B
ROAD_FNC							A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
FARS PERSON FILE VARIABLES																												
VARIABLE	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
ROLLOVER				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SCH_BUS			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SEAT_POS	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SER_TR	S	E	E	-	V	I	N	-	M	A	N	U	A	L	-	F	O	R	-	L	E	V	E	L				
SEX	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SPEC_USE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
STATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ST_CASE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TEST_RES	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
TOW_VEH			A	A	A	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
TOXCLGY													A	A	A	A												
VEH_NO	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VE_FORMS		A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
VINA_MOD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_BT								A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
VIN_WGT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

WGTCD_TR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
WHLBS_LG	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
WHLBS_SH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
WORK_INJ													A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Age

1975 and later

Variable = AGE

Values =
00 Up to one year
01 - 96 Age of the Individual in Years
97 Ninety-Seven Years Old or Older
99 Unknown

Alcohol

1987 and later

Variable = ALC_DET (Type of test)

Values =
1 Evidential Test (Breath, Blood, Urine)
2 Preliminary Breath Test (PBT)
3 Behavioral
4 Passive Alcohol Sensor (PAS)
5 Observed
8 Other (e.g. Saliva test)
9 Not Reported

Note: 1975 to 1979 data on the type of alcohol test were collected, but these data have since been removed from the analysis files.

1991 and later

Variable = ALC_RES (Results of alcohol test)

Values =
00 - 94 Actual Value of BAC test. A value of 10 is a BAC of 0.10. The Decimal is implied before first digit. The BAC is expressed as grams/100ml% or a clinical evaluation of the same. (Since 1995 the value 94 should be interpreted as .94 or greater)

95 Test Refused
96 None Given
97 AC Test Performed, Results Unknown
99 Unknown

(Continued on Next Page)

Alcohol (Continued)

1998 and later

Variable = ATST_TYP

Values =
0 Not Tested for Alcohol
1 Whole Blood
2 Breath "BAC"
3 Urine
4 Vitreous
5 Blood Plasma/Serum
6 Blood Clot
7 Liver
8 Other Test Type
9 Unknown(/Not Reported Since 2001)

1975 TO 1990

Variable = TEST_RES (Results of alcohol test)

Values =
00 - 94 Actual Value of BAC test. A value of 10 is a BAC of 0.10. The Decimal is implied before first digit. The BAC is expressed as grams/100ml% or a clinical evaluation of the same.

95 Test Refused
96 None Given
97 AC Test Performed, Results Unknown
99 Unknown

1975 and later

Variable = DRINKING

Values =
0 No (Alcohol Not Involved)
1 Yes (Alcohol Involved)
8 Not reported
9 Unknown (Police Reported)

Body Type (Also see V_CONFIG and CARGO_BT for trucks and busses as well as VIN_BT, VIN body type.)

1991 and later (except as noted)

Variable = BODY_TYP BY NHTSA vehicle category

NHTSA has precise definitions for several vehicle categories, such as passenger cars, pickups, buses etc. This information provided here. For some categories one will also need the variable TOW_VEH. The complete set of, BODY_TYP data, by numerical order follows this listing.

LE is less than or equal EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 11

Light Trucks* => 14 LE BODY_TYP LE 19 OR 30 LE BODY_TYP LE 41 OR
45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Utility Vehicles => 14 LE BODY_TYP LE 19
Note that utility vehicles are also part of the light truck category.

Pickups => 30 LE BODY_TYP LE 39

Vans => 20 LE BODY_TYP LE 22 OR 28 LE BODY_TYP LE 29
{OR 24 LE BODY_TYP LE 25 Since 1993}

Light Trucks
& Vans* => 14 LE BODY_TYP LE 22 OR 28 LE BODY_TYP LE 41 OR
45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])
{OR 24 LE BODY_TYP LE 25 Since 1993}

Passenger
Vehicles => 01 LE BODY_TYP LE 11 OR 14 LE BODY_TYP LE 22 OR
28 LE BODY_TYP LE 41 OR 45 LE BODY_TYP LE 49 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])
{OR 24 LE BODY_TYP LE 25 Since 1993}

Medium Trucks => 60 LE BODY_TYP LE 62 OR BODY_TYP EQ 64 OR
BODY_TYP EQ 71

(Continued on Next Page)

Body Type 1991 and later (Continued)

Heavy Trucks =>	BODY_TYP EQ 63 OR BODY_TYP EQ 66 OR BODY_TYP EQ 72 OR BODY_TYP EQ 78 OR (BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])
Large Trucks =>	60 LE BODY_TYP LE 64 OR BODY_TYP EQ 66 OR 71 LE BODY_TYP LE 72 OR BODY_TYP EQ 78 OR (BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])
Combination Trucks =>	(60 LE BODY_TYP LE 64 AND [1 LE TOW_VEH LE 4]) OR (71 LE BODY_TYP LE 72 AND [1 LE TOW_VEH LE 4]) OR (78 LE BODY_TYP LE 79 AND [1 LE TOW_VEH LE 4]) OR
See V_CONFIG	BODY_TYP EQ 66
Single Unit Trucks =>	[60 LE BODY_TYP LE 64 OR 71 LE BODY_TYP LE 72 OR BODY_TYP EQ 78]
See V_CONFIG	AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9]
Motorcycles =>	80 LE BODY_TYP LE 89
Buses =>	50 LE BODY_TYP LE 59

* Within the yearly NHTSA publication Traffic Safety Facts, the term "Light Trucks" includes "Vans".

Note BODY_TYP 12, large limousines and BODY_TYP 13, three-wheel automobiles or automobile derivatives are not included as part of Passenger Cars or Passenger Vehicles.

When defining **School Buses** 1993 and later be sure to include the **new** body type **24 (van-based school bus)**. However, body type 24 is not part of Buses.

When defining **Transit Buses** 1993 and later be sure to include the **new** body type **25 (van-based transit bus)**. However, body type 25 is not part of Buses.

Note, a single unit truck that tows another vehicle, or a bobtail, by itself are considered combination trucks.

(Continued on Next Page)

Body Type (Also see V_CONFIG and CARGO_BT for trucks and busses as well as VIN_BT, VIN body type.)

1991 and later (except as noted) BY numerical order

Variable = BODY_TYP

Value =
- 01 Convertible
- 02 2 door Sedan/HT/Coupe
- 03 3 door/2 door Hatchback
- 04 4 door Sedan/HT
- 05 5 door/4 door Hatchback
- 06 Station Wagon
- 07 Hatchback/unknown doors
- 08 Other auto
- 09 Unknown auto type
- 10 Auto Pickup
- 11 Auto Panel
- 12 Large Limousine
- 13 3-Wheel Auto
- 14 Compact Utility
- 15 Large Utility
- 16 Utility Station Wagon
- 19 Utility Unknown Body
- 20 Minivan
- 21 Large Van
- 22 Step Van
- 23 Van Motorhome
- 24 Van-Based School Bus (Since 1993)
- 25 Van-Based Transit Bus (Since 1993)
- 28 Other Van type
- 29 Unknown Van type
- 30 Compact Pickup
- 31 Standard Pickup
- 32 Pickup w/Camper
- 33 Convertible Pickup
- 39 Unknownnown Pickup
- 40 Cab Chassis Based
- 41 Truck Based Panel
- 42 Light Truck Motorhome
- 45 Other Light Conventional

(Continued on Next Page)

Body Type 1991 and later BY numerical order - (Continued)

48 Unknown Light Conventional
49 Unknown Light Vehicle
50 School Bus
51 X-country/Intercity
52 Transit Bus
58 Other Bus
59 Unknown Bus
60 Step Van
61 Single Unit Straight Truck low GVWR
62 Single Unit Straight Truck med GVWR
63 Single Unit Straight Truck high GVWR
64 Single Unit Straight Truck unknown GVWR
65 Med/Hvy Motorhome
66 Truck/Tractor (Cab only, or with any number of trailing units:any weight)
71 Med Single Unit Straight Truck or Combination 10,000 lbs < GVWR < 26,000 lbs
72 Hvy Single Unit Straight Truck or Combination 26,000 lbs < GVWR
73 Camper or Motorhome, Unknown Truck Type
78 Unknown Medium/Heavy Truck
79 Unknown Truck
80 Motorcycle
81 Moped
82 3-wheel MC/Moped - not All-Terrain Vehicle
88 Other Motorcycle
89 Unknown Motorcycle
90 ATV (All-Terrain Vehicle; includes 3 or 4 wheels)
91 Snowmobile
92 Farm Equipment
93 Construction Equipment
94 Motorized Wheel Chair (Since 1997)
97 Other Vehicle (includes go-cart, fork-lift, city street sweeper, dune/swamp buggy)
99 Unknown Body Type

(Continued on Next Page)

Body Type (Continued)

1982 to 1990

Variable = BODY_TYP BY NHTSA vehicle category

LE is less than or equal
EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 11 OR BODY_TYP EQ 67

Light Trucks* => BODY_TYP EQ 12 OR 50 LE BODY_TYP LE 51 OR
53 LE BODY_TYP LE 56 OR 58 LE BODY_TYP LE 59 OR
68 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Utility Vehicles => BODY_TYP EQ 12 OR BODY_TYP EQ 56 OR
BODY_TYP EQ 68

Note that utility vehicles are also part of the light truck category.

Pickups => 50 LE BODY_TYP LE 51

Vans => 40 LE BODY_TYP LE 41 OR 48 LE BODY_TYP LE 49

Light Trucks
& Vans* => BODY_TYP EQ 12 OR 40 LE BODY_TYP LE 41 OR
48 LE BODY_TYP LE 51 OR 53 LE BODY_TYP LE 56 OR
58 LE BODY_TYP LE 59 OR 68 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Passenger
Vehicles => 01 LE BODY_TYP LE 12 OR 40 LE BODY_TYP LE 41 OR
48 LE BODY_TYP LE 51 OR 53 LE BODY_TYP LE 56 OR
58 LE BODY_TYP LE 59 OR 67 LE BODY_TYP LE 69 OR
(BODY_TYP EQ 79 AND [TOW_VEH EQ 0 OR TOW_VEH EQ 9])

Medium Trucks => 70 LE BODY_TYP LE 71 OR BODY_TYP EQ 75 OR
BODY_TYP EQ 78

(Continued on Next Page)

Body Type 1982 to 1990 (Continued)

Heavy Trucks => BODY_TYP EQ 72 OR BODY_TYP EQ 74 OR
BODY_TYP 76 OR
(BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])

Large Trucks => 70 LE BODY_TYP LE 72 OR 74 LE BODY_TYP LE 76 OR
BODY_TYP 78 OR
(BODY_TYP EQ 79 AND [1 LE TOW_VEH LE 4])

Combination
Trucks => (70 LE BODY_TYP LE 72) AND [1 LE TOW_VEH LE 4]) OR
BODY_TYP EQ 74 OR
(75 LE BODY_TYP LE 76) AND [1 LE TOW_VEH LE 4]) OR
(78 LE BODY_TYP LE 79) AND [1 LE TOW_VEH LE 4])

Single Unit
Trucks => [70 LE BODY_TYP LE 72 OR 75 LE BODY_TYP LE 76 OR
BODY_TYP EQ 78] AND
[TOW_VEH EQ 0 OR TOW_VEH EQ 9]

Motorcycles => 20 LE BODY_TYP LE 29

Buses => 30 LE BODY_TYP LE 39

* Within the yearly NHTSA publication Fatal Accident Reporting System, the term "Light Trucks" includes "Vans".

Note BODY_TYP 13, large limousines and BODY_TYP 14, three-wheel automobiles or automobile derivatives are not included as part of Passenger Cars or Passenger Vehicles.

Note, a single unit truck that tows another vehicle, or a bobtail by itself, are considered combination trucks.

(Continued on Next Page)

Body Type (Continued)

1982 to 1990

Variable = BODY_TYP BY numerical order

Value =
01 Convertible
02 2door Sedan/HT/Coupe
03 3door/2door Hatchback
04 4door Sedan/HT
05 5door/4door Hatchback
06 Station Wagon
07 Hatchback/# doors unknown
08 Other auto
09 Unknown auto type
10 Auto Pickup
11 Auto Panel
12 Short Util/not Truck Based
13 Large Limousine
14 3-wheel vehicle unknown bt
20 Motorcycle
21 Moped
27 3-wheel MC or Moped
28 Other Cycle
29 Unknown Cycle
30 School Bus
31 X-country/Intercity
32 Transit Bus
38 Other Bus
39 Unknown Bus
40 Van
41 Van Commercial Cutaway
42 Van Motorhome
48 Other Van type
49 Unknown Van type
50 Pickup
51 Pickup w/Slide-in Camper
52 Pickup Based Motorhome
53 Cab chassis Based
54 Truck Based Panel
55 Truck Based SW

(Continued on Next Page)

Body Type 1992 to 1990 BY numerical order - (Continued)

56 Truck Based utility
58 Other Light Conventional Truck
59 Unknown Light Convent Truck
67 Station Wagon, base body unknown
68 Utility, Base Body Unknown
69 Unknown Light Truck
70 Straight Truck, low GVW
71 Straight Truck, med GVW
72 Straight Truck, hi GVW
73 Med/Hvy Truck Motorhome
74 Truck/Tractor
75 Unknown Med Truck
76 Unknown Heavy Truck
77 Camper/Motorhome
78 St GVW Unknown
79 Unknown Truck Type
80 Snowmobile
81 Farm Equipment/no Trucks
82 ATV,Dune/Swamp Buggy
83 Construction Equipment/not Trucks
88 Other
89 Unknown Other Vehicle
90 3-wheel Vehicle Unknown Body Type
99 Unknown Body Type

(Continued on Next Page)

Body Type (Continued)

1975 to 1981

Variable = BODY_TYP BY NHTSA vehicle category

LE is less than or equal
EQ is equal

Passenger Cars => 01 LE BODY_TYP LE 09

Light Trucks* => BODY_TYP EQ 43 OR BODY_TYP EQ 50 OR
BODY_TYP EQ 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Utility Vehicles => BODY_TYP EQ 43
Note that utility vehicles are also part of the light truck category.

Pickups => BODY_TYP EQ 50

Vans => BODY_TYP EQ 51

Light Trucks
& Vans* => BODY_TYP EQ 43 OR 50 LE BODY_TYP LE 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Passenger
Vehicles => 01 LE BODY_TYP LE 09 OR BODY_TYP EQ 43 OR
50 LE BODY_TYP LE 52 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 0)

Medium Trucks => 53 LE BODY_TYP LE 54 OR BODY_TYP EQ 56

Heavy Trucks => BODY_TYP EQ 55 OR 57 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

Large Trucks => 53 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

(Continued on Next Page)

Body Type 1975 to 1981 (Continued)

Combination
Trucks => ([53 LE BODY_TYP LE 56] AND TOW_VEH EQ 1) OR
57 LE BODY_TYP LE 59 OR
(BODY_TYP EQ 60 AND TOW_VEH EQ 1)

Motorcycles => 15 LE BODY_TYP LE 18

Buses => 25 LE BODY_TYP LE 29

* Within the yearly NHTSA publication Fatal Accident Reporting System, the term "Light Trucks" includes "Vans".

Note that the body type data do not track with the original documentation. For example the documentation states that the BODY_TYP EQ 7 is for utility vehicles. However, when the files are examined one sees that BODY_TYP EQ 43 is the value that will work. The files have been modified to make the early years compatible with 1981.

Note, BODY_TYP 40 large limousines are not included as part of Passenger Cars or Passenger Vehicles.

(Continued on Next Page)

Body Type (Continued)

1975 to 1981

Variable = BODY_TYP BY numerical order

Value =
1 CONVERTIBLE
2 2 DOOR SEDAN HT COUPE
3 4 DOOR SEDAN HT
4 HATCHBACK
5 CAR-PICKUP BODY
6 STATION WAGON
7 ON/OFF ROAD VEHICLE
8 OTHER AUTO
9 UNKNOWN AUTO TYPE
15 MOTORCYCLE
16 MOPED
17 OTHER CYCLE
18 UNKNOWN CYCLE
25 SCHOOL BUS
26 CROSS COUNTY
27 TRANSIT BUS
28 OTHER BUS
29 UNKNOWN BUS
35 SNOWMOBILE
36 FARM EQUIPMENT
37 DUNE/SWAMP BUGGY
38 CONSTRUCT EQUIPMENT
39 AMBULANCE/HEARSE TYPE
40 LARGE LIMOUSINE
41 CAMPER/MOTORHOME
42 FIRE TRUCK
43 ON/OFF ROAD VEHICLE
44 OTHER SPECIAL VEHICLE
45 AMBULANCE EMS
50 PICKUP
51 VAN
52 TRUCK BASED SW
53 STRAIGHT TRUCK, LOW GVW
54 STRAIGHT TRUCK, MED GVW
55 STRAIGHT TRUCK, HI GVW

(Continued on Next Page)

Body Type 1975 to 1981 BY numerical order - (Continued)

56 STRAIGHT TRUCK, UNKNOWN GVW
57 TWO UNIT TRUCK
58 MULTI UNIT TRUCK
59 TRUCK-TRACTOR
60 UNKNOWN TYPE TRUCK
99 UNKNOWN

City County (The city data are found in the ACCIDENT file)

1975 and later

Variable = COUNTY

Values = Blanks
000 Not Applicable
001-996 Use GSA Geographical Codes
997 Other
999 Unknown

Note GSA geographical codes are some what stable. Occasionally one code will be divided into two codes.

Date

1975 and later

Variables = DAY (of the crash/accident, also in the ACCIDENT file)
DEATH_DA (Day of the month of the death)

Values = 01-31 The Day of the Month

1975 and later

Variables = MONTH (of the crash/accident also in the ACCIDENT file)
DEATH_MO (Month of the death)
Values = 01-12 The Month 1 = January ... 12 = December

1998 and later

Variable = DEATH_YR

Values = ALL four digits of the year, e.g. 1998 for 1998. Note that a person can die the year <u>after</u> the crash year.

1975 to 1997

Variable = DEATH_YR

Values = Last two digits of the year, e.g. 92 for 1992. Note that a person can die the year <u>after</u> the crash year.

Death Certificate Number

1991 and later

Variable = CERT_NO

Values = 000000000000 Not Applicable (not a fatality) 12 0's
Any Numeric Characters
999999999999 Unknown 12 9's

First four digits is the GSA City code where the death occurred
9997 No code for this city
9999 City where death occurred cannot be found on death certificate

Digits 5 & 6 GSA State Code

Last 6 digits Sequence Number (as assigned by State Vital Statistics Department)

Drugs

1993 and later

Note the FARS coder may have used any of the three variables to code a result of a drug test. One must test all three variables to insure that the selected result is included.

Variables = DRUGRES1, or DRUGRES2, or DRUGRES3

Values =
- 000 Not Tested for Drugs
- 001 No Drugs Reported
- 100 - 295 Narcotic
- 300 - 395 Depressant
- 400 - 495 Stimulant
- 500 - 595 Hallucinogen
- 600 - 695 Cannabinol
- 700 - 795 Phencyclidine (PCP)
- 800 - 895 Anabolic Steroid
- 900 - 995 Inhalant
- 996 Other Drugs
- 997 Tested for Drugs, Results Unknown
- 998 Tested for Drugs, Drugs Found, Type Unknown
- 999 Unknown if Tested for Drugs

1991 to 1992

Variable = DRUG_RES

Values =
- 00 Not Tested for Drugs
- 01 No Drugs Reported
- 02 Narcotic
- 03 Depressant
- 04 Stimulant
- 05 Hallucinogen
- 06 Cannabinol
- 07 Phencyclidine (PCP)
- 08 Inhalant
- 09 Multiple Drugs (From codes 02 to 08)
- 10 Other Drugs (all other drugs excluding nicotine, asprin, alcohol...)
- 97 Tested for Drugs, Results Unknown
- 98 Tested for Drugs, Drugs Found, Type Unknown

99 Unknown if Tested for Drugs

(Continued on Next Page)

Drugs (Continued)

1993 and later

Variables = DRUGTST1 or DRUGTST2 or DRUGTST3

Values =
0 Not Tested for Drugs
1 Blood Test
2 Urine Test
3 Both: Blood and Urine (Since 1993)
7 Unknown Test Type
8 Other Type Test
9 Unknown if Tested for Drugs

1991 to 1992

Variable = DRUGTEST

Values =
0 Not Tested For Drugs
1 Blood Test
2 Urine Test
7 Unknown Test Type
8 Other Type Test
9 Unknown if Tested for Drugs

1991 and later

Variable = DRUGS (Police Reported Drug Involvement)

Values =
0 No Drugs
1 Drugs Involved
8 Not Reported
9 Reported Unknown

(Continued on Next Page)

Drugs (Continued)

1991 and later

Variable = DRUG_DET (Method of Other Drug Determination by Police)

Values =
1 Evidential Test (Blood, Urine)
2 Drug Recognition Technician (DRT)
3 Behavioral
7 Other
8 Not Reported

1987 to 1990

Variable = TOXCLGY

Values =
0 No blood test given

Blood Test Given, Results Known
1 No Drugs Reported
2 Drugs Reported (excluding Nicotine, Aspirin)
3 Not tested for Drugs

Blood Test Given, Results Unknown
7 Test for Drugs, Results, Unknown
8 Unknown if Tested for Drugs

9 Unknown if Drug Test Given

Ejection Extrication

1975 and later

Variable = EJECTION

Values =
0 Not Ejected
1 Totally Ejected
2 Partially Ejected
9 Unknown

In the mid 70's there are a large number of persons coded as ejection unknown and a corresponding small number of persons coded as not ejected. However, the totally ejected and partially ejected counts are the same magnitude as later years.

1991 and later

Variable = EJ_PATH

Values =
0 Not Ejected/Not Applicable
1 Through Side Door Opening
2 Through Side Window
3 Through Windshield
4 Through Back Window
5 Through Back Door/Tailgate
6 Through Roof Opening
7 Through Roof (convertible top up)
8 Other Path (e.g. back of pickup)
9 Unknown

(Continued on Next Page)

Ejection Extrication (Continued)

1975 and later

Variable = EXTRICAT

Values = 0 Not Extricated
1 Extricated
9 Unknown

From 1975 to 1976 the EXTRICAT and EJECTION variables were combined in a single field. The files were changed in 1977 to the current format. In 1975 and 1976 there are fewer persons identified as not extricated than in later years. Both the count of extricated persons and unknowns seem high for these years. From 1977 to 1981 there was not an edit check to prevent one coding an occupant as being both ejected and extricated. There are 69, 48, 83, 98, and 88 persons coded as both totally ejected and extricated in the 1977, 1978, 1979, 1980, and 1981 respectively.

In Massachusetts, if an occupant is not injured, data for restraint use and ejection are not coded on the police accident report (PAR).

Emergency use (from the Vehicle file)

1977 and later

Variable = EMER_USE

Values = 0 No
1 Yes Only if the vehicle was being used as an emergency vehicle at the time of the crash.

Fatal Injury at Work

1987 and later

Variable = WORK_INJ

Values =
0 No
1 Yes
8 Not Applicable (not a fatality)
9 Unknown

Fire Occurrence (from the Vehicle File)

1975 and later

Variable = FIRE_EXP

Values = 0 No Fire
1 Fire Occurred in Vehicle During Crash

From 1975 to 1979 if an explosion occurred in the vehicle, with or without a fire, this variable would also be set to 1.

Harmful Event - This is from and is repeated in the Accident Files. It also appears in the Vehicle Files

1982 and later

Variables = HARM_EV — First harmful event applies to the crash. The most harmful event variable M_HARM applies to the vehicle. Harmful events are judgement calls of the FARS analysts based on data within the police accident report.

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Thrown or Falling Object
17 Boulder
18 Other Object(not fixed)
19 Building
20 Impact Attenuator/Crash Cushion
21 Bridge Pier or Abutment
22 Bridge Parapet End
23 Bridge Rail
24 Guardrail
25 Concrete Traffic Barrier
26 Other Longitudinal Barrier Type
27 Highway/Traffic Sign Post
28 Overhead Sign Support
29 Luminary/Light Support
30 Utility Pole
31 Other Post, Other Pole, or Other Support

(Continued on Next Page)

32 Culvert
33 Curb
34 Ditch
35 Embankment - Earth
36 Embankment - Rock, Stone, or Concrete
37 Embankment - Material Type Unknown
38 Fence
39 Wall
40 Fire Hydrant
41 Shrubbery
42 Tree
43 Other Fixed Object (1993 only)
45 Transport Device Used as Equipment (Since 1993)
46 Traffic Signal Support (Since 1994)
47 Vehicle Occupant Struck or Run Over by Own Vehicle (Since 1997)
48 Collision With Snow Bank (Since 1997)
49 Ridden Animal or Animal Drawn Conveyance (Since 1998)

99 Unknown

If the variable First harmful event is used, it is often a good idea to construct a two way table of harmful event by state and check for consistency.

(Continued on Next Page)

1975 to 1981

Variables = HARM_EV

Values =
01 Overturn
02 Fire/Explosion
03 Immersion
04 Gas Inhalation
05 Fell from Vehicle
06 Injured in Vehicle
07 Other Non-Collision
08 Pedestrian
09 Pedalcycle
10 Railway Train
11 Animal
12 Motor Vehicle in Transport
13 Motor Vehicle in Transport in Other Roadway
14 Parked Motor Vehicle
15 Other Type Non-Motorist
16 Other Object
17 Bridge or Overpass (1975 to 1978)
18 Building
19 Culvert
20 Curb or Wall
21 Divider
22 Embankment
23 Fence
24 Guard Rail
25 Light Support
26 Sign Post
27 Tree/Shrubbery
28 Utility Pole
29 Other Pole/Support
30 Impact Attenuator
31 Other Fixed Object
32 Bridge or Overpass [Passing Under] (1979 to 1981 only)
33 Bridge or Overpass [Passing Over] (1979 to 1981 only)

99 Unknown

Hospital (Taken to)

2001 and later

Variable = HOSPITAL

Values = 0 No
1 Yes
9 Unknown

Was the individual taken to a hospital or treatment facility?
See the section "Injury Severity" for Died at the Scene or Died En Route.

1977 to 2000

Variable = HOSPITAL

Values = 0 No
1 Yes
7 Died at the Scene (1999-2000)
8 Died En Route (1999-2000)
9 Unknown

Was the individual taken to a hospital or treatment facility?

This field exists in the 1975 and 1976 file, but is not initialized, i.e. it has no value.

Impact (Data from the Vehicle File Repeated in the Person File)

1994 and later

Variables = IMPACT1 Initial (or first) impact point
IMPACT2 Principal impact point

Values = 00 Non-Collision
01-12 - Clock Points (See coding manual)
13 Top
14 Undercarriage
99 Unknown

1994 and later

Variable = UNDERIDE

Values = 0 No Underride or Override

WITH MOTOR VEHICLE IN TRANSPORT
1 Underride (Compartment Intrusion)
2 Underride (No Compartment Intrusion)
3 Underride (Compartment Intrusion Unknown)

WITH OTHER VEHICLE
4 Underride (Compartment Intrusion)
5 Underride (No Compartment Intrusion)
6 Underride (Compartment Intrusion Unknown)

7 Override, Motor Vehicle in Transport
8 Override, Other Vehicle
9 Unknown if Underride or Override

Note the striking vehicle, not the vehicle struck, determines the underride/override condition. After the crash, in the case of an override or underride one vehicle is over the other. If the striking vehicle is over the other then the crash is an override, if the striking vehicle is under the other the crash is an underride. See Vehicle Role variable = IMPACTS.

See the note on the following page on using and interpreting the variable UNDERIDE.

(Continued on Next Page)

Impact (Continued)

1975 to 1993

Variables = IMPACT1 Initial (or first) impact point
IMPACT2 Principal impact point

Values = 00 Non-Collision
01-12 - Clock Points (See coding manual)
13 Top
14 Undercarriage
15 Underride (Since 1980)
16 Override (Since 1982)
99 Unknown

Note the striking vehicle, not the vehicle struck, determines the underride/override condition. From 1975 to 1993 both the initial and principal impacts were counted. In the event and only in the event, that the initial or principal impact point was an underride/override were the variable IMPACT1 or IMPACT2 flagged/counted as such. However, all other underrides/overrides were not counted, nor should they have been counted. IMPACTS WERE COUNTED, NOT UNDERRIDES! Therefore, the variable UNDERIDE was added to the FARS system in 1994.

The variable UNDERIDE, like all FARS variables, is dependent on the data contained in police accident reports. The NASS/CDS system is based on the efforts of professional accident investigators performing detailed analysis of approximately 5000 crashes a year. An analysis of the 1994-1996 FARS and NASS/CDS data systems and the 1997 Trucks in Fatal Accident file revealed that underrides and overrides are generally **not** identified on the police accident reports.

Injury Severity

1975 and later

Variable = INJ_SEV

Values =
0 No Injury (O)
1 Possible Injury (C)
2 Nonincapaciting Evident Injury (B)
3 Incapaciting Injury (A)
4 Fatal Injury (K)
5 Injured, Severity Unknown (Since 1978)
6 Died Prior to Accident
9 Unknown

Data from 1979 and earlier have been modified to conform to the structure above. It is important to realize that some states do not collect data on persons who were in a crash but were not injured. In particular data for non-injured occupants for Indiana, Iowa, Maryland, and Virginia are often missing. If the analysis being performed depends on non-injured occupants, for example some paired comparisons, check the data at the state level.

2001 and later

Variable = {Unknown at time of publication}

Values=
0 Not Applicable
7 Died at Scene
8 Died En Route
9 Unknown

From 1999 to 2000 this information was contained in the variable HOSPITAL, see the section "Hospital (Taken to)"

Location (Non-Motorist)

1982 and later

Variable = LOCATION

Values =
- 00 Not Applicable - Vehicle Occupant
- 01 Intersection - In Crosswalk
- 02 Intersection - On Roadway, Not in Crosswalk
- 03 Intersection - On Roadway, Crosswalk not Available
- 04 Intersection - On Roadway, Crosswalk Availability Unknown
- 05 Intersection - Not on Roadway
- 09 Intersection - Unknown
- 10 Non-Intersection - In Crosswalk
- 11 Non-Intersection - On Roadway, Not in Crosswalk
- 12 Non-Intersection - On Roadway, Crosswalk not Available
- 13 Non-Intersection - On Roadway, Crosswalk Availability Unknown
- 14 Non-Intersection - In Parking Lane
- 15 Non-Intersection - On Road Shoulder
- 16 Non-Intersection - Bike Path
- 17 Non-Intersection - Outside Trafficway
- 18 Non-Intersection - Other, Not a Roadway
- 19 Non-Intersection - Unknown
- 99 Unknown

1975 to 1981

Variable = LOCATION

Values =
- 00 Not Applicable - Vehicle Occupant
- 01 Intersection - In Crosswalk
- 02 Intersection - Sidewalk, Median, Island, Shoulder, Other
- 03 Intersection - On Roadway
- 04 Intersection - Unknown
- 05 Non-Intersection - In Crosswalk
- 06 Non-Intersection - Sidewalk, Median, Island, Shoulder, Other
- 07 Non-Intersection - Bike Path
- 08 Non-Intersection - On Road Shoulder
- 09 Non-Intersection - Outside Trafficway
- 10 Non-Intersection - On Roadway
- 11 Non-Intersection - In Parking Lane (Since 1980)

12 Non-Intersection - Unknown
99 Unknown

Manner of Collision - This comes from the Accident file and is repeated in the Vehicle file.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

2002 and later

Variable = MAN_COLL

Values =
- 00 Not Collision with Motor Vehicle in Transport
- 01 Front-to-Rear (Includes Rear-End)
- 02 Front-to-Front (Includes Head-On)
- 03 Angle - Front-to-Side, Same Direction
- 04 Angle - Front-to-Side, Opposite Direction
- 05 Angle - Front-to-Side, Right Angle (Includes Broadside)
- 06 Angle - Front-to-Side/Angle-Direction Not Specified
- 07 Sideswipe - Same Direction
- 08 Sideswipe - Opposite Direction
- 09 Rear-to-Side
- 10 Rear-to-Rear
- 11 Other (End-Swipes and Others)
- 99 Unknown

1978 to 2001

Variable = MAN_COLL

Values =
- 0 Not Collision with Motor Vehicle in Transport
- 1 Rear-End
- 2 Head-On
- 3 Rear-to-Rear
- 4 Angle
- 5 Sideswipe, Same Direction
- 6 Sideswipe, Opposite Direction
- 9 Unknown

(Continued on Next Page)

Manner of Collision (Continued) - This comes from the Accident file and is repeated in the Vehicle file.

See the note at the end of this section, (next page) on the change in the interpretation of Manner of Collision from 2001 to 2002

1975 to 1977

Variable = MAN_COLL

Values =
0 Not Collision with Motor Vehicle in Transport
1 Rear-End
2 Head-On
3 Rear-to-Rear
4 Angle
7 Sideswipe (May either be same or opposite direction)
9 Unknown

Note in the original files, from 1975 to 1977 sideswipe was coded as 5 but has since been changed to 7. These years are not consistent with the documentation of the time.

Note: From 1975 to 2001, the manner of collision is totally dependent on the directions of travel of the vehicles involved. The directions of travel of the vehicles is often misunderstood. The direction of a vehicle is determined by the **pre-crash condition** direction of travel. That is just before the vehicle goes out of control. Example 1) Assume two vehicles are heading toward each other on the same roadway, one going north and the other going south. If the south bound vehicle skids on a patch of ice and turns 180° and immediately is struck in the rear by the vehicle going north then the manner of collision is head-on not rear-end. Example 2) Had the vehicle going north sideswiped the south bound vehicle, which after the ice skid was pointed north, the manner of collision would be sideswipe **opposite** direction, even though both vehicles are pointed north at the time of the sideswipe. **The pre-crash condition directions of travel, for both vehicles, determine the outcome.** These examples involve a rotation of a vehicle just before the crash and can account for 20 percent to 30 percent of the coded cases. See "Impact" in the vehicle section of this guide.

Starting in 2002 and later the manner of collision is dependent on the geometry of the points of impact. That is Example 1 above is now coded 01, Front-to-Rear (Includes **Rear-End**) and Example 2, is now coded 07, Sideswipe - **Same** Direction. This is a major change in the MAN_COLL variable. Care must be taken when using this variable over a time period that spans 2001 to 2002.

Model Year (From the Vehicle File)

1998 and later

Variable = MOD_YEAR

Values = (A 4 Digit Field)

9999 Unknown

A vehicle manufactured as a 1985 model is coded as 1985.

1975 to 1997

Variable = MOD_YEAR

Values = 00-98
99 Unknown

A vehicle manufactured as a 1985 model is coded as 85.

Motorcycle Data (From the Vehicle File)

1975 and later

Variable = MCYCL_DS

Values = Motorcycle Displacement - This is the Cubic Centimeter piston bore. This is a numeric value (example, Honda 160 cc engine). This field is 4 positions long.

Non-Motorist Striking Vehicle Number

This element applies only to non_motorists and reflects the vehicle that made contact with the non_motorist being coded.

The number must match the vehicle number of the striking vehicle. This number is similar to VEH_NO, except that the non-motorist was struck by the vehicle, rather than being within the vehicle.

1982 and later

Variable = N_MOT_NO

Values = 00 Not Applicable - Vehicle Occupant
01-98 Assigned Vehicle Number
99 Unknown

Person Number

Each occupant of the vehicle is numbered and each nonoccupant is numbered, in the case of a nonoccupant the vehcile number is zero. The numbers for occupants are consecutive, for each vehicle, beginning with 01. Numbers are never skipped. Drivers do not have to be coded 01. Nonoccupants are identified by vehicle number 0 and are numbered consecutively starting with 01 for each non-motorist. To get drivers see variable PER_TYP, under Person Type.

1975 and later

Variable = PER_NO

Values = 01...

PER_NO can be used in merges, e.g. when merging the FARS person file with the multiple cause of death file.

Person type

1994 and later

Variable = PER_TYP

Values =
01 Driver
02 Passenger of a Motor Vehicle in Transport
03 Occupant of a Motor Vehicle Not in Transport
04 Occupant of a Non-Motor Vehicle Transport Device
05 Pedestrian
06 Bicyclist
07 Other Cyclist
08 Other Pedestrian
09 Unknown Occupant Type in a Motor Vehicle in Transport
19 Unknown Type of Non-Motorist
99 Unknown

1982 to 1993

Variable = PER_TYP

Values =
1 Driver of a Motor Vehicle in Transport
2 Passenger of a Motor Vehicle in Transport
3 Occupant of a Motor Vehicle Not in Transport
4 Occupant of a Non-Motor Vehicle Transport Device e.g. horse & buggy
5 Non-Occupant Pedestrian
6 Non-Occupant Bicyclist
7 Non-Occupant Other Cyclist
8 Non-Occupant Other or Unknown
9 Unknown Occupant Type in a Motor Vehicle in Transport

(Continued on Next Page)

Person Type 1975 to 1981 (Continued)

1975 to 1981

Variable = PER_TYP

Values =
1 Driver
2 Passenger
3 Non-Motorist: Pedestrian
4 Non-Motorist: Pedalcylist
5 Non-Motorist: Occupant of Non Traffic Unit Vehicle
8 Non-Motorist: Other or Unknown
9 Occupant: Unknown Type

Note the early data have been modified to fit this format. For example, from 1975 to 1977 there was a value for fatal crashes involving a non-motorist in an animal drawn vehicle. These data have been reclassified into one of the values above.

Race/Hispanic Origin

2001 and later

Variable = HISPANIC

Values =
00 Not a Fatality (Not Applicable)
01 Mexican
02 Puerto Rican
03 Cuban
04 Central or South American
05 European Spanish
06 Hispanic - Origin Not Specified or Other Origin
07 Non-Hispanic

99 Unknown

2001 and later

Variable = RACE

Values =
00 Not a Fatality (Not Applicable)
01 White
02 Black
03 American Indian (Includes Aleuts and Eskimos)
04 Chinese
05 Japanese
06 Hawaiian (Includes part-Hawaiian)
07 Filipino
18 Asian Indian
19 Other Indian (Includes South and Central America)
28 Korean
38 Samoan
48 Vietnamese
58 Guamanian
68 Other Asian or Pacific Islander
78 Asian or Pacific Islander, No Specific (Individual) Race

97 Multiple Races (Individual races not specified; ex. “mixed”)
98 All Other Races

99 Unknown

(Continued on Next Page)

Race/Hispanic Origin (Continued)

1999 to 2000

Variable = HISPANIC

Values =
00 Not Applicable
01 Mexican
02 Puerto Rican
03 Cuban
04 Central or South American
05 Other or Unknown Hispanic (1999)
05 European Spanish (2000)
06 Hispanic - Not Specified (1999)
06 Other Hispanic Origin (2000)
07 Non-Hispanic

99 Unknown

1999 to 2000

Variable = RACE

Values =
00 Not Applicable
01 White
02 Black
03 American Indian (Includes Aleuts and Eskimos)
04 Chinese
05 Japanese
06 Hawaiian (Includes part-Hawaiian)
07 Filipino
18 Asian Indian
19 Other Indian (Includes South and Central America) (2000)
28 Korean
38 Samoan
48 Vietnamese
58 Guamanian
68 Other Asian or Pacific Islander in Areas Reporting 18-58
78 Combined Other Asian or Pacific Islander, Includes codes 18-68 for areas

that do not Report them Separately
97 Multiple Races (Individual races not specified; ex. “mixed”) (2000)
98 All Other Races
99 Unknown

Related Factors Person Level

Note: There are also vehicle level related factors in the vehicle file, VEH_CF1 and VEH_CF2 and driver related factors, also in the vehicle file, namely DR_CF1, DR_CF2, DR_CF3 and (DR_CF4 Since 1997). In addition there are accident related factors CF1, CF2, and CF3 in the accident file.

Note the FARS coder may have used any of the three variables to code a related factor. One must test all three variables to insure that the selected related factor is included.

1982 and later except as noted

Variables = P_CF1 or P_CF2 or P_CF3

Values =
00 Not Applicable - Driver/None - All Other Persons
01 Not Visible
02 Darting, [Stumbling, since 1995] or Running into Road
03 Improper Crossing or Roadway or Intersection
04 Walking/Riding with or Against Traffic, Playing, Working, Sitting, Lying, Standing etc. in Roadway
05 Interfering with Driver
06 Ill, [Passed Out, Since 1995]/Blackout
07 Emotional (e.g. Depression, Angry, Disputed)
08 Mentally Challenged (Since 1995)
09 Construction/Maintenance/Utility Worker (Since 1995)

10 Inattentive (talking, Eating, etc)
11 Walking With Cane or Crutches
12 Restricted to Wheelchair
13 Paraplegic (1982-1994)
13 Motorized Wheelchair Rider (since 1998)
14 Impaired Due to Previous Injury
15 Deaf (1982-1994)
16 Blind
17 Other Physical Impairment
18 Mother of Dead Fetus
19 Pedestrian

NON-MOTOR VEHICLE OPERATOR RELATED FACTORS:

20 Leaving Vehicle Unattended in Roadway (1982-1994)

(Continued on Next Page)

Related Factors Person Level 1982 and later (Continued)

20 Failure to Keep in Proper Lane (2000 and later)
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to [Dim Lights or, Since 1995] Have Lights on When Required
24 Operating without Required Equipment
25 Creating Unlawful Noise or Using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to Keep in Proper Lane or Running off Road (1982-1999)
28 Failure to Keep in Proper Lane (2000 and later)
29 Illegal Driving on Road Shoulder, in Ditch, on Sidewalk, on Median
30 Making Improper Entry to or Exit from Trafficway
32 Opening Vehicle Closure into Moving Traffic or While Vehicle is in Motion (Since 2001)
33 Passing where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning not to Pass
34 Passing on Wrong Side
35 Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in Other Erratic, Reckless, Careless or Negligent Manner [or Operating at Erratic or Suddenly Changing Speeds, (Since 1995)]
37 Traveling on Prohibited Trafficway (Since 1995)
38 Failure to Yield Right of Way
39 Failure to Obey Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone Traffic Laws
40 Passing Through or Around Barrier Positioned to Prohibit or Channel Traffic
41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds
47 Making Right Turn from Left Turn Lane or Making Left Turn from Right Turn Lane
48 Making Improper Turn
49 Driving Wrong Way on One-Way Trafficway

(Continued on Next Page)

Related Factors Person Level 1982 and later (Continued)

50 Driving on Wrong Side of Road [(Intentionally or Unintentionally) Since 1995]
51 Operator Inexperience
52 Unfamiliar with Roadway
53 Stopping in Roadway (Vehicle not Abandoned)
54 Underriding a Parked Truck
55 Getting Off/Out of or On/In to Moving Transport Vehicle
56 Getting Off/Out of or On/In to Non-Moving Transport Vehicle
57 Improper Tire Pressure (Since 1995)
58 Locked Wheel (Since 1995)
59 Overcorrecting (Since 1995)

VISION OBSCURED BY

60 Rain, Snow, Fog, Smoke, Sand, Dust
61 Reflected Glare, Bright Sunlight, Headlights
62 Curve, Hill, Or Other Design Features (including Traffic signs, Embankment)
63 Building, Billboard, [Other Structure, Since 1995]
64 Trees, Crops, Vegetation
65 Motor Vehicle (including load)
66 Parked Vehicle
67 Splash or Spray or Passing Vehicle
68 Inadequate Lighting System
69 Obstructing Angles on Vehicle
70 Mirrors - Rear View
71 Mirrors - Other
72 Head Restraints

AVOIDING, SWERVING, OR SLIDING DUE TO

73 Severe Crosswind
74 Wind from Passing Truck
75 Slippery or Loose Surface
76 Tire Blow-Out or Flat
77 Debris or Objects in Road
78 Ruts, Holes, Bumps in Road
79 Animals in Road
80 Vehicle in Road

(Continued on Next Page)

Related Factors Person Level 1982 and later (Continued)

81 Phantom Vehicle
82 Pedestrian, Pedalcyclist, or Other Non-Motorist
83 Ice, Snow, Slush, Water, [Sand, Dirt, Oil, Wet Leaves, Since 1995] on Road

OTHER NON-MOTORIST FACTORS

84 Jay walk (1982 to 1994 only)
85 Jog (1982 to 1994 only)
86 Carrying Hazardous Cargo Improperly
87 Police or Law Enforcement Officer (Since 2002)
88 Seat Back Not in Normal Upright Position, Seat Back Reclined (Since 2002)
90 Non-Motorist Pushing a Vehicle
99 Unknown

(Continued on Next Page)

Related Factors Person level (Continued)

1975 to 1981

Note Values 02 to 06 correspond to 01 to 05 for the 1982 and later data. Values of 20 and higher correspond directly the same values for 1982 and later.

Related Factors (Person level)

Variables = P_CF1 or P_CF2 or P_CF3

Values =
00 Not Applicable - Driver/None - All Other Persons
01 Physical Impairments
02 Not Visible
03 Darting or Running into Road
04 Improper Crossing or Roadway or Intersection
05 Walking/Riding with or Against Traffic, Playing, Working, Sitting, Lying, Standing etc. in Roadway
06 Interfering with Driver (Since 1976)

NON-MOTOR VEHICLE OPERATOR RELATED FACTORS:

20 Leaving Vehicle Unattended in Roadway
21 Overloading or Improper Loading of Vehicle with Passengers or Cargo
22 Towing or Pushing Vehicle Improperly
23 Failing to Have Lights on When Required
24 Operating without Required Equipment
25 Creating Unlawful Noise or Using Equipment Prohibited by Law
26 Following Improperly
27 Improper or Erratic Lane Changing
28 Failure to Keep in Proper Lane or Running off Road
29 Illegal Driving on Road Shoulder, in Ditch, on Sidewalk, on Median
30 Making Improper Entry to or Exit from Trafficway
33 Passing where Prohibited by Posted Signs, Pavement Markings, Hill or Curve, or School Bus Displaying Warning not to Pass
34 Passing on Wrong Side
35 Passing with Insufficient Distance or Inadequate Visibility or Failing to Yield to Overtaking Vehicle
36 Operating the Vehicle in Other Erratic, Reckless, Careless or Negligent Manner

(Continued on Next Page)

38 Failure to Yield Right of Way
39 Failure to Obey Traffic Signs, Traffic Control Devices or Traffic Officers, Failure to Observe Safety Zone
40 Passing Through or Around Barrier Positioned to Prohibit or Channel Traffic
41 Failure to Observe Warnings or Instructions on Vehicles Displaying Them
42 Failure to Signal Intentions
43 Giving Wrong Signal
44 Driving too Fast for Conditions or in Excess of Posted Speed Limit
45 Driving Less than Posted Maximum
46 Operating at Erratic or Suddenly Changing Speeds
47 Making Right Turn from Left Turn Lane or Making Left Turn from Right Turn Lane
48 Making Improper Turn
49 Driving Wrong Way on One-Way Roadway
50 Driving on Wrong Side of Road
51 Operator Inexperience
52 Unfamiliar with Roadway

99 Unknown

Restraint

1994 and later

Variable = REST_USE

Values =
00 None Used/Not Applicable
01 Shoulder Belt
02 Lap Belt
03 Lap and Shoulder Belt
04 Child Safety Seat
05 Motorcycle Helmet
06 Bicycle Helmet

08 Restraint Used - Type Unknown

13 Safety Belt Used Improperly
14 Child Safety Seat Used Improperly
15 Helmets Used Improperly

99 Unknown

1991 to 1993

Variable = REST_USE

Values =
0 None Used - Vehicle Occupant/Not Applicable-Non-Motorist
1 Shoulder Belt
2 Lap Belt
3 Lap and Shoulder Belt
4 Child Safety Seat
5 Motorcycle Helmet
8 Restraint Used - Type Unknown or Other Including Other Helmet
9 Unknown

(Continued on Next Page)

Restraint (Continued)

1998 and later

Variable = AIR_BAG

Values =
- 00 Non-Motorist
- 01 Deployed Air Bag from Front
- 02 Deployed Air Bag from Side
- 07 Deployed Air Bag Other Direction
- 08 Deployed Air Bag Multiple Directions
- 09 Deployed Air Bag Direction Unknown
- 20 Air Bag Available but Not Deployed for this Seat
- 28 Air Bag Available and Switched Off
- 29 Air Bad Available, Deployment Not Known for this Seat
- 30 Air Bag Not Available for this Seat
- 31 Air Bag Previously Deployed and not Replaced
- 32 Air Bag Disabled or Removed
- 99 Unknown (If Airbag Available)

1991 to 1997

Variable = AIR_BAG

Values =
- 0 Non-Motorist
- 3 Deployed Air Bag
- 4 Non-Deployed Air Bag
- 9 Unknown or Not Applicable

1990 only

Variable = AUT_REST (Also see MAN_REST, manual restraint)

Values =
- 0 Non-Motorist
- 3 Deployed Air Bag
- 4 Non-Deployed Air Bag
- 9 Unknown

(Continued on Next Page)

Restraint (Continued)

1975 to 1989

Variable = AUT_REST (Also see MAN_REST, manual restraint)

Values =
0 Non-Motorist or Not Applicable
1 Automatic Belt in Use
2 Automatic Belt not in Use
3 Deployed Air Bag (No data 1983 - 1985)
4 Non-Deployed Air Bag (No data 1983 - 1987)
5 Passive Belt [i.e. Passive Belt in Use] (1977-1979 only)
9 Unknown

From 1975 to 1979 the variable AUT_REST had a different coding structure. It has since been changed to the structure above.

1975 to 1990

Variable = MAN_REST (Also see AUT_REST, automatic restraint above)

Values =
0 None Used - Vehicle Occupant; Not Applicable - Non-Motorist
1 Shoulder Belt
2 Lap Belt
3 Lap and Shoulder Belt
4 Child Safety Seat
5 Motorcycle Helmet
8 Restraint Used - Type Unknown or Other Including Other Helmet
9 Unknown

Note: From 1975 to 1985 in Mississippi MAN_REST was always coded as 0.

In Massachusetts, if an occupant is not injured, data for restraint use and ejection are not coded on the police accident report (PAR).

Roadway Function Class

1987 and later

Variable = ROAD_FNC (From the accident file)

Values =
01 Rural Principal Arterial - Interstate
02 Rural Principal Arterial - Other
03 Rural Minor Arterial
04 Rural Major Collector
05 Rural Minor Collector
06 Rural Local Road or Street
09 Rural Unknown

11 Urban Principal Arterial - Interstate
12 Urban Principal Arterial - Other Freeways or Expressways
13 Urban Principal Arterial
14 Urban Minor Arterial
15 Urban Collector
16 Urban Local Road or Street
19 Urban Unknown

99 Unknown

1981 to 1986

Variable = ROAD_FNC (From the accident file)

Values =
1 Principal Arterial - Interstate
2 Principal Arterial - Other Urban Freeways and Expressways
3 Principal Arterial - Other
4 Minor Arterial
5 Urban Collector
6 Major Rural Collector
7 Minor Rural Collector
8 Local Road or Street
9 Unknown

Rollover (From the vehicle file)

1978 and later

Variable = ROLLOVER

Values = 0 No Rollover
1 First Event
2 Subsequent Event

1975 to 1977 DATA NOT AVAILABLE

School Bus Related (From the accident file)

1977 and later

Variable = SCH_BUS

Values = 0 No
1 Yes Crashes in which a Vehicle Functioning as a School Bus was Directly or Indirectly Involved.

Note: Also check the variable SPEC_USE in the vehicle file. When the variable SPEC_USE is set to the value 2 then the vehicle is used as a school bus.

This code applies to crashes in which a vehicle functioning as a school bus was directly or indirectly involved. The "school bus" does not have to be a traffic unit in the crash, but it must have been involved in some school-related activity (e.g. children boarding or alighting from the bus: bus stopping at or pulling from a location of such activity, etc.)

If school bus related is yes, then the crash and all fatalities in that crash are school bus related.

A school bus crash is (1) a motor vehicle crash in which a school bus, with or without a pupil on board, is involved directly as a contact vehicle or (2) a motor vehicle crash or an other-road-vehicle crash in which a school bus, with or without a pupil or board, is involved indirectly as a noncontact vehicle.

Additional explanation inclusions:

A collision involving motor vehicle in transport in which one or more school buses strike(s) or are (is) struck by another road vehicle (directly involved).

A collision involving pedestrian in which a child approaching or leaving a school bus, stopped and with its red lights flashing, is struck and injured by a motor vehicle (indirectly involved).

A collision crash or non-collision crash involving a motor vehicle in transpport passing a school bus stopped and with its red lights flashing (the school bus is a non-contact vehicle indirectly involved).

A collision crash in which a child approaching or leaving a school bus, stopped and with its red light flashing, is struck and injured by a ptdalcyle (school bus indirectly involved).

School Bus Related (Repeated in the person file)[Continued]

Additional explanation exclusions:

A collision crash on non-collision crash involving a motor vehicle which is normally used as a school bus, but is carrying only senior citizens when the collision occurs.

Seating Position

1982 and later

Variable = SEAT_POS

Values =
- 00 Non-Motorist
- 11 Front Seat - Left Side (Driver's Side)
- 12 Front Seat - Middle
- 13 Front Seat - Right Side
- 18 Front Seat - Other
- 19 Front Seat - Unknown
- 21 Second Seat - Left Side
- 22 Second Seat - Middle
- 23 Second Seat - Right Side
- 28 Second Seat - Other
- 29 Second Seat - Unknown
- 31 Third Seat - Left Side (Driver's Side)
- 32 Third Seat - Middle
- 33 Third Seat - Right Side
- 38 Third Seat - Other
- 39 Third Seat - Unknown
- 41 Fourth Seat - Left Side
- 42 Fourth Seat - Middle
- 43 Fourth Seat - Right Side
- 48 Fourth Seat - Other
- 49 Fourth Seat - Unknown
- 50 Sleeper Section of Cab (Truck)
- 51 Other Passenger in enclosed passenger or cargo area
  [Includes passengers in 5th row of 15-seat, 5-row vans - Since 2002]
- 52 Other Passenger in unenclosed passenger or cargo area
- 53 Other Passenger in passenger or cargo area, unknown whether or not enclosed
- 54 Trailing Unit
- 55 Riding on Vehicle Exterior
- 99 Unknown

(Continued on Next Page)

Seating Position (Continued)

1975 to 1981

Variable = SEAT_POS

Values =
00 Non-Motorist
01 Front Seat - Left Side (Driver's Side)
02 Front Seat - Middle
03 Front Seat - Right Side
04 Second Seat - Left Side
05 Second Seat - Middle
06 Second Seat - Right Side
07 Third Seat - Left Side (Driver's Side)
08 Third Seat - Middle
09 Third Seat - Right Side
10 Front Seat - Other
11 Second Seat - Other
12 Third Seat - Other
13 Other Passenger
14 Cab Sleeper
15 Vehicle Exterior
99 Unknown

Sex

1975 and later

Variable = SEX

Values = 1 Male
2 Female
9 Unknown

NOTE: From 1975 to 1981 if no information was known about the Hit-and-Run vehicle and/or driver then neither the vehicle form nor the driver form were not filled out and were not **counted** in the FARS census. Starting in 1982 both a vehicle and a driver form were filled out and the data were identified as unknown. This is why there were approximately only 20-40 drivers with unknown sex listed in the FARS data set from 1975 to 1981 and 700-1000 drivers with unknown sex from 1982 on.

As of March 22, 1995, a quick review of the 1994 Annual Report File revealed that of the 768 persons in the 94 file with unknown sex; over 90% of them were involved in hit and run crashes.

Special Use (From the vehicle file)

1975 and later (except as noted)

Variable = SPEC_USE

Values =
0 No Special Use
1 Taxi
2 Vehicle Used as School Bus
3 Vehicle Used as Other Bus
4 Military
5 Police
6 Ambulance (Since 1980)
7 Firetruck (Since 1982)
9 Unknown

State

1975 and later

Variables = STATE State in which the accident (crash) occurred from Accident File

Values = GSA state codes except for 43, Puerto Rico

If the object of the analysis is to examine the effects of the environment then use REG_STAT rather than STATE.

01 Alabama	30 Montana
02 Alaska	31 Nebraska
04 Arizona	32 Nevada
05 Arkansas	33 New Hampshire
06 California	34 New Jersey
08 Colorado	35 New Mexico
09 Connecticut	36 New York
10 Delaware	37 North Carolina
11 District of Columbia	38 North Dakota
12 Florida	39 Ohio
13 Georgia	40 Oklahoma
15 Hawaii	41 Oregon
16 Idaho	42 Pennsylvania
17 Illinois	43 Puerto Rico
18 Indiana	44 Rhode Island
19 Iowa	45 South Carolina
20 Kansas	46 South Dakota
21 Kentucky	47 Tennessee
22 Louisiana	48 Texas
23 Maine	49 Utah
24 Maryland	50 Vermont
25 Massachusetts	51 Virginia
26 Michigan	53 Washington
27 Minnesota	54 West Virginia
28 Mississippi	55 Wisconsin
29 Missouri	56 Wyoming

State Case

1975 and later

Variable = ST_CASE

This variable is in each Accident, Vehicle and Person record. It is a combination of the GSA state code and an assigned consecutive number. It is a unique identifier for the Crash within the year. It is used as the key, when any two of these files, from the same year, are merged.

This variable is stored as a numeric variable of six characters, the first two characters are the state code, the next four characters are the case number, with leading zeros if necessary.

Also see: VEH_NO, Vehicle Number, in the Vehicle File or Person File and PER_NO, Person Number, in the Person File.

Time

1975 and later

Variables = HOUR (from the Accident file but repeated in the Person File)
or DEATH_HR
or LAG_HRS

Values = 00 - 24 Valid Military Times
99 Unknown

Variables = MINUTE (from the Accident File but repeated in the Person File)
or DEATH_MN
or LAG_MINS

Values = 00-59 The minute
99 Unknown

Variable = DEATH_TM

Values = four digits DEATH_HR followed by DEATH_MN, e.g. 0643 for 6:43 a.m.

HOUR and MINUTE are the time of the crash, hours and minutes.

DEATH_HR and DEATH_MN are the times, hours and minutes, of the death.

LAG_HRS and LAG_MINS are computed as the time, hours and minutes, between the time of the crash and the time of death.

Towed Trailing Unit (from the Vehicle file)

1982 and later

Variable = TOW_VEH

Values =
0 No
1 Yes, One Trailing Unit
2 Yes, Two Trailing Units
3 Yes, Three or More Trailing Units
4 Yes, Number of Trailing Units Unknown
9 Unknown

1980 to 1981

Variable = TOW_VEH

Values =
0 No
1 Yes

1979

Variable = TOW_VEH

Values =
0 No
1 Travel-Trailer/Camper
2 Other Car Trailer
8 Other
9 Unknown

(Continued on Next Page)

Towed Trailing Unit (Continued)

1977 to 1978

Variable = TOW_VEH

Values =
0 No
1 Travel-Trailer/Camper
2 Other Car Trailer
3 Fifth Wheel Trailer
4 Truck Trailer
8 Other
9 Unknown

1975 to 1976

Variable = TOW_VEH

Values =
0 No
1 Travel-Trailer/Camper
2 Other Car Trailer
3 Fifth Wheel Trailer
4 Truck Trailer
5 Other
8 Not Reportable
9 Unknown

Unknowns

1982 and later

Starting in 1982, in the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case with hit-and-runs, the values are coded as unknown.

Example: Between 1982 - 1994, the number of drivers coded with unknown sex fluctuated between 700-1000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons, in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit and run crashes.

1975 to 1981

In the event of a hit-and-run crash, if the vehicle information was not known, then no vehicle form was filled out. Likewise, if no information was known on the person level, usually the driver of the unknown vehicle, then a person level form was not filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Example: From 1975 to 1980, there were 30-40 drivers coded with unknown sex. Approximately 0.05 percent of all drivers involved in fatal crashes. In 1981 the number of drivers with unknown sex rose to over 300, approximately 0.5 percent of all drivers involved in fatal crashes.

Vehicle Forms Submitted (Number of) From the accident file also repeated in the vehicle file.

1982 and later

Variable = VE_FORMS

Values = 01-99

This counts the number of vehicles in transport involved in the crash. Legally parked vehicles are not included.

Note: Starting in 1982, in the case of a hit-and-run crash, a vehicle-driver form and a person level form for the driver are filled out. When the information about the vehicle-driver or person is not known, which is often the case with hit-and-runs, the values are coded as unknown.

1976 to 1981

Variable = VE_FORMS

Values = 00-99

This counts the vehicle forms submitted, see note on vehicles in the Accident file. It is unlikely that the number of vehicles involved in the crash is greater than the Number of Vehicle Forms plus two.

Note: In the event of a hit-and-run crash, if the vehicle information was not known, then **no** vehicle form was filled out. Likewise, if no information was know on the person level, usually the driver of the unknown vehicle, then a person level form was **not** filled out. The result is that the number of unknowns is much smaller for this time period than 1982 and later.

Vehicle Make

1991 and later

Variable = MAKE

Values = [In numerical order]

01 American Motors
02 Jeep
03 AM General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
10 Eagle
12 Ford
13 Lincoln
14 Mercury
18 Buick
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
24 Saturn
29 Other Domestic
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Healey
34 BMW35 Nissan/Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi
53 Suzuki
54 Acura
55 Hyundai
56 Merkur
57 Yugo
58 Infiniti
59 Lexus
60 Daihatsu
69 Other Imports
70 BSA
71 Ducati
72 Harley-Davidson
73 Kawasaki
74 Moto-Guzzi
75 Norton
76 Yamaha
80 Brockway
81 Diamond Reo
82 Freightliner
83 FWD
84 International Harvester
85 Kenworth
86 Mack
87 Peterbilt
88 Iveco/Magirus
98 Other Make
99 Unknown Make

(Continued of next page)

Vehicle Make (Continued)

1991 and later

Variable = MAKE

Values = [In Alphabetical order]

54 Acura
31 Alfa Romeo
03 AM General
01 American Motors
32 Audi
33 Austin/Healey
34 BMW
80 Brockway
70 BSA
18 Buick
19 Cadillac
20 Chevrolet
06 Chrysler
60 Daihatsu
81 Diamond Reo
07 Dodge
71 Ducati
10 Eagle
36 Fiat
12 Ford
82 Freightliner
83 FWD
23 GMC
72 Harley-Davidson
37 Honda
55 Hyundai
08 Imperial
58 Infiniti
84 International Harvester
38 Isuzu
88 Iveco/Magirus
39 Jaguar
02 Jeep
73 Kawasaki
85 Kenworth
40 Lancia
59 Lexus
13 Lincoln
86 Mack
41 Mazda
42 Mercedes-Benz
14 Mercury
56 Merkur
43 MG
52 Mitsubishi
74 Moto-Guzzi
35 Nissan/Datsun
75 Norton
21 Oldsmobile
98 Other Make
69 Other Imports
29 Other Domestic
87 Peterbilt
44 Peugeot
09 Plymouth
22 Pontiac
45 Porsche
46 Renault
47 Saab
24 Saturn
48 Subaru
53 Suzuki
49 Toyota
50 Triumph
99 Unknown Make
30 Volkswagen
51 Volvo
76 Yamaha
57 Yugo

(Continued on Next Page)

Vehicle Make (Continued)

1975 to 1990

Variable = MAKE

Values = [In numerical order]

01 American Motors
02 Jeep
03 Am General
06 Chrysler
07 Dodge
08 Imperial
09 Plymouth
12 Ford
13 Lincoln
14 Mercury
18 Buick
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC
29 Other Domestic
30 Volkswagen
31 Alfa Romeo
32 Audi
33 Austin/Healey
34 BMW
35 Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes-Benz
43 MG
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo
52 Mitsubishi (Not before 1982)
53 Suzuki (Not before 1987)
59 Other Imports
60 BSA
61 Ducati
62 Harley-Davidson
63 Kawasaki
64 Moto-Guzzi
65 Norton
67 Yamaha
69 Other Motor Cycle
70 Moped
80 Brockway
81 Diamond Reo
82 Freightliner
83 FWD
84 International Harvester
85 Kenworth
86 Mack
87 Peterbilt
88 White
95 Other Truck/Bus
98 Other Make
99 Unknown Make

Note: Depending on the software being used, for 1986 and earlier data, one may have to refer to the first several values, 01-09, with a single digit rather than a double digit with a leading "0", zero. E.g. 6 for Chrysler rather than 06 for Chrysler.

(Continued on Next Page)

Vehicle Make (Continued)

1975 to 1990

Variable = MAKE

Values = [In Alphabetical order]

31 Alfa Romeo
03 Am General
01 American Motors
32 Audi
33 Austin/Healey
34 BMW
80 Brockway
60 BSA
18 Buick
19 Cadillac
20 Chevrolet
06 Chrysler
35 Datsun
81 Diamond Reo
07 Dodge
61 Ducati
36 Fiat
12 Ford
82 Freightliner
83 FWD
23 GMC
62 Harley-Davidson
37 Honda
08 Imperial
84 International Harvester
38 Isuzu
39 Jaguar
02 Jeep
63 Kawasaki
85 Kenworth
40 Lancia
13 Lincoln
86 Mack
41 Mazda
42 Mercedes-Benz
14 Mercury
43 MG
52 Mitsubishi (Not before 1982)
70 Moped
64 Moto-Guzzi
65 Norton
21 Oldsmobile
98 Other Make
69 Other Motor Cycle
95 Other Truck/Bus
59 Other Imports
29 Other Domestic
87 Peterbilt
44 Peugeot
09 Plymouth
22 Pontiac
45 Porsche
46 Renault
47 Saab
48 Subaru
53 Suzuki (Not before 1987)
49 Toyota
50 Triumph
99 Unknown Make
30 Volkswagen
51 Volvo
88 White
67 Yamaha

Note: Depending on the software being used, for 1986 and earlier data, one may have to refer to the first several values, 01-09, with a single digit rather than a double digit with a leading "0", zero. E.g. 6 for Chrysler rather than 06 for Chrysler.

Vehicle Number - From the vehicle file.

1975 and later

Variable = VEH_NO

This variable is in each Vehicle and Person record. Together with the State Case, ST_CASE, it forms a unique identifier for the vehicle within the year. VEH_NO and ST_CASE **ARE OFTEN** used together as a key, when a Vehicle file and Person file, are merged, from the same year. This is done to insure that the correct occupants are placed in the proper vehicle. When non-occupants must be counted one should merge by VEH_NO, but do not merge with the VEHICLE file. For example, to obtain information on the day of the week, injury severity, and race merge the Accident file with the Person file using ST_CASE and merge that result with the Multiple Cause of Death (MCD) data [these data are generally not available to the public] using ST_CASE, VEH_NO and PER_NO. Note: If these data are merged with the vehicle file, then one looses all non occupants. So there is a difference between merging with the VEH_NO and with the vehicle file.

Also see: ST_CASE, State Case, in any file.

Non-occupants have VEH_NO = 0, in this case see N_MOT_NO under Non-Motorist Striking Vehicle Number in the Person File.

Vehicle Role (from the Vehicle File)

1975 and later

Variable = IMPACTS

Values =
0 Non-Collision
1 Striking
2 Struck
3 Both
9 Unknown

Note when a vehicle is both striking and struck, i.e. Value = 3, the event cannot simultaneously be at the same point of the vehicle. A vehicle must have at least one striking impact point and a struck impact point. A classic example is a chain reaction rear-end crash where a vehicle which is both striking and struck is located within the chain.

Vin Body Type (from the Vehicle File)

1982 and later except as noted

Variable = VIN_BT

This is a **CHARACTER** variable in **UPPER CASE**.

The VINA program that decodes these data and partitions vehicles into three classes, passenger vehicles, trucks and motorcycles.

Values =

2D	Passenger Vehicle Sedan 2 Door
2F	Passenger Vehicle Formal Hardtop 2 Door
2H (81-03)	Passenger Vehicle 2 Door
2L	Passenger Vehicle Liftback 3 Door
2P	Passenger Vehicle Pillard Hardtop 2 Door
2T	Passenger Vehicle Hardtop 2 Door
2W	Truck 2 Door Wagon/Sport Utility
2W	Passenger Vehicle Wagon 2 Door
3D	Passenger Vehicle Runabout 3 Door
4D	Passenger Vehicle Sedan 4 Door
4H (81-03)	Passenger Vehicle Hatchback 4 Door
4L	Passenger Vehicle Liftback 5 Door
4P	Passenger Vehicle Pillard Hardtop 4 Door
4T	Passenger Vehicle Hardtop 4 Door
4W	Truck 4 Door Wagon/Sport Utility
4W	Passenger Vehicle Wagon 4 Door
5D	Passenger Vehicle Sedan 5 Door
8V	Truck 8 Passenger Sport Van
AC	Truck Auto Carrier
AM	Passenger Vehicle Ambulance
AR	Truck Armored Truck
AT	Motorcycle All Terrain
BU	Bus
CB	Truck Chassis and Cab
CB	Passenger Vehicle Cab & Chassis (Luv)
CC	Truck Conventional Cab
CG	Truck Cargo Van
CH	Truck Crew Chassis
CL	Truck Club Chassis

(Continued on Next Page)

Vin Body Type 1982 and later (Continued)

CM	Truck Concrete or Transit Mixer
CP	Truck Crew Pickup
CP	Passenger Vehicle Coupe
CR	Truck Crane
CS	Truck Super Cab/Chassis Pickup
CU	Truck Custom Pickup
CV	Truck Convertible (Jeep Commando, Suzuki Samurai, Dge Dakota)
CV	Passenger Vehicle Convertible
CY	Truck Cargo Cutaway
DP	Truck Dump
DS	Truck Tractor Truck (diesel)
EC	Truck Extended Cargo Van
EN	Motorcycle Enduro
ES	Truck Extended Sport Van
EV	Truck Ext Van
EW	Truck Extended Window Van
FB	Truck Flat-bed or Platform
FC	Truck Forward Control
FT	Truck Fire Truck
GG	Truck Garbage or Refuse
GL	Truck Gliders
GN	Truck Grain
HB	Passenger Vehicle Hatchback number doors unknown
HR	Passenger Vehicle Hearse
HO	Truck Hopper
HT	Passenger Vehicle Hardtop number doors unknown
IC	Truck Incomplete Chassis
IE	Truck Incomplete Ext Van
LB	Passenger Vehicle Liftback
LG	Truck Logger
LL	Truck Suburban & Carry All
LM	Passenger Vehicle Limousine
MH	Truck Motorized Home
MK	Motorcycle Mini Bike
MN	Motorcycle Mini Moto Class
MP	Motorcycle Moped
MP	Truck Multi-purpose
MR	Motorcycle Mini Road/Trail

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Vin Body Type 1982 and later (Continued)

MS	Motorcycle Motor Scooter
MV	Truck Maxi Van
MX	Motorcycle Moto Cross
MY	Truck Motorized Cutaway
MY	Motorcycle Mini Cycle
NB	Passenger Vehicle Notchback
PC	Truck Club Cab Pickup
PD	Truck Parcel Delivery
PK	Truck Pickup
PK	Passenger Vehicle Pickup, Truck commonly registered passengers
PM	Truck Pickup with Camper mounted on bed
PN	Truck Panel
PN	Passenger Vehicle Panel, Truck commonly registered as passengers
PS	Truck Super Cab Pickup
RC	Motorcycle Racer
RD	Truck Roadster (Jeep, Jeep Commando)
RD	Passenger Vehicle Roaster
RS	Motorcycle Road/Street
RT	Motorcycle Road/Trail
S1	Truck One Seat
S2	Truck Two Seat
SB	Passenger Vehicle Sport Hatchback
SC	Passenger Vehicle Sport Coupe
SD	Passenger Vehicle Sedan, number doors unknown
SN	Truck Step Van
SP	Truck Sport Pickup
ST	Truck Stake or Rack
SV	Truck Sports Van
SV	Passenger Vehicle Sport Van
SW	Passenger Vehicle Station Wagon
SW	Truck Station Wagon (Jeep Waggonneer etc.)
T	Motorcycle Dirt
TB	Truck Tilt Cab
TL	Truck Tilt Tandem
TL	Motorcycle Trail/Dirt
TM	Truck Tandem
TN	Truck Tank
TR	Motorcycle Trails
TR	Truck Tractor (Gasoline)

(Continued on Next Page)

Vin Body Type 1982 and later (Continued)

UT	Passenger Vehicle Utility, truck commonly registered as passenger
UT	Truck Utility (Blazer, Jimmy, Scout, etc.)
VC	Truck Van Camper
VD	Truck Display Van
VN	Truck Van
VT	Truck Vanette (includes Metro and Handy Van)
VW	Truck Window Van
WK	Truck Tow Truck Wrecker
WW	Truck Wide Wheel Wagon
WW	Passenger Vehicle Wide Wheel Wagon
XT	Truck Travelall
YY	Truck Cutaway
99	Unknown

Vin Model - From the vehicle file.

1975 and later

Variable = VINA_MOD — The Vin Model, for automobiles, is obtained from the VINA program for automobiles of model year 1966 and later that have verifiable VIN numbers. If one needs to select cars based on make and model the variable of choice is VINA_MOD rather than MAK_MOD.

This is a **CHARACTER** variable in **UPPER CASE** three characters long.

The VINA_MOD is only unique within the vehicle make. That is, different makes of vehicles can have the same VINA_MOD. To ensure that the correct vehicle is selected the variable MAKE must be used in conjunction with VINA_MOD. Both variables, VINA_MOD and MAKE, are in both the Vehicle file and the Person file.

The values for VINA_MOD are contained in Appendix F of PC VINA$_{TM}$ User's Manual, and is 183 pages long in the 1994 edition.

There are two columns headed VINA CODE. For passenger cars, or what Polk calls passenger vehicles, the FARS variable VINA_MOD can be set to either the vina code for the series name, i.e. the first column, or it can be set to the value of the sub-series name, the last column. Therefore one must search for values in both columns.

For trucks the, the first column labeled VINA CODE, series name, is the FARS variable SER_TR. When using the variable SER_TR all model names, last column are included. If one wishes to select a specific truck model one uses the FARS variable VINA_MOD set to the value in the last VINA CODE column.

Vin Series Truck - From the vehicle file.

1975 and later

Variable = SER_TR

> This is a code that identifies the type of truck. This material comes from analysis of the Vehicle Identification Number (VIN).

This is a **CHARACTER** variable in **UPPER CASE** three characters long.

The values for SER_TR are contained in Appendix F of PC VINA$_{TM}$ User's Manual, and is 183 pages long in the 1994 edition. The values for SER_TR are in the truck section of Appendix F. They are the first column headed VINA CODE for the series name. When using the variable SER_TR all model names, in the last column are included. If one wishes to select a specific truck model one uses the FARS variable VINA_MOD set to the value in the last column headed VINA CODE.

Weight (Auto) - From the vehicle file.

1975 and later

Variable = VIN_WGT

Values = 0 Not available
up to 9998 Actual weight of automobile in pounds
9999 Value not coded

The Fatality Analysis Reporting System (FARS) collects information on the weight of cars involved in fatal crashes. Vehicle weight is not generally available for light trucks, however, the weight code, WGTCD_TR is. The National Highway Traffic Safety Administration often partitions car weight into six classes. This has been done in *"An Analysis of Fires in Passenger Cars, Light Trucks, and Vans"*, Tessmer, DOT HS 808 208, 1994, "*Passenger Car Weight and Injury Severity in Single-vehicle Nonrollover Crashes*", Partyka and Boehly, 1989, ESV Report 89-2b-O-005 and "*Development of Databases in Support of an Analysis of Fire Incidence Using the Fatal Accident Reporting System*", Walz and Klein, Sep. 14, 1993). The partition is defined as:

CAR WEIGHT CLASSES

Class	Weight Range in Pounds
Class 1	Car Weight < 1950
Class 2	1950 ≤ Car Weight < 2450
Class 3	2450 ≤ Car Weight < 2950
Class 4	2950 ≤ Car Weight < 3450
Class 5	3450 ≤ Car Weight < 3950
Class 6	3950 ≤ Car Weight

If you are going to use this variable as a continuous variable consider defining a new variable, say AUTO_WT as AUTO_WT = VIN_WT/1000. That is AUTO_WT is the weight of the car in 1000's of lbs. Its coefficient is less likely to be zero.

Weight Code (Trucks) - From the vehicle file.

1975 and later

Variable = WGTCD_TR (for model year 1966 and newer trucks)

Values =
1 6,000 lbs or less
2 6,001 - 10,000 lbs
3 10,001 - 14,000 lbs
4 14,001 - 16,000 lbs
5 16,001 - 19,500 lbs
6 19,501 - 26,000 lbs
7 26,001 - 33,000 lbs
8 33,001 and up
9 Unknown

WGTCD_TR is often coded as 9 for buses.

Wheelbase (Auto) - From the vehicle file.

1975 and later

Variables = WHLBS_LG The longest and shortest wheelbase respectively for the
WHLBS_SH manufactured model as determined by the VINA program for automobiles made since 1966.

Values = 0000 Value not available from the VINA program
up to 9998 Actual value in inches
9999 Value not coded

THE COMPACT DISK

Traffic Safety CD-ROM

Fatal Accident Reporting System(FARS):1975-1994

BTS-CD-10

NCSA National Center for Statistics and Analysis 400 Seventh St. S.W., Washington, DC 20590 FARS ARG 2002

The FARS Compact Disk (CD)

The Fatality Analysis Reporting System (FARS) is a collection of files documenting all qualifying fatal crashes since 1975. In 1996 the National Center for Statistics and Analysis in conjunction with the Bureau of Transportation Statistics (Tel. 202-554-3564) issued the TRAFFIC SAFETY CD-ROM BTS-CD-10. This compact disk contains the working data sets for the first twenty years of FARS, 1975 - 1994. In addition, the NHTSA Traffic Safety Report 1994, Traffic Safety Fact Sheets, and data from the General Estimates System (GES): 1988-1994 are included. The disk is in ASCII format and is available at no charge from the Bureau of Transportation Statistics.

The FARS data are contained in the FARS directory and its sub-directories. Each year of FARS data is contained in its own sub-directory. Each sub-directory has four files, the actual data, a program to create the SAS® formats, a conversion program, used at the National Center for Statistics and Analysis, to create the SAS® data sets, and a layout file that provides the flat file layout for applications that are not based on SAS®. Although SAS® is the software used within the National Center, any statistical software, that can process large data sets, can be used to analyze the data. The sub-directories and associated file names are as follows:

Sub-Directory	Data	SAS® Format Program	SAS® Conversion Program	Layout
FARS94	FARS94.DAT	FORMAT91.SAS	FARSLD94.SAS	FARS94.DD
FARS93	FARS93.DAT	FORMAT91.SAS	FARSLD93.SAS	FARS93.DD
FARS92	FARS92.DAT	FORMAT91.SAS	FARSLD92.SAS	FARS91_92.DD
FARS91	FARS91.DAT	FORMAT91.SAS	FARSLD91.SAS	FARS91_92.DD
FARS90	FARS90.DAT	FORMAT87.SAS	FARSLD90.SAS	FARS87_90.DD
FARS89	FARS89.DAT	FORMAT87.SAS	FARSLD89.SAS	FARS87_90.DD
FARS88	FARS88.DAT	FORMAT87.SAS	FARSLD88.SAS	FARS97_90.DD
FARS87	FARS87.DAT	FORMAT87.SAS	FARSLD87.SAS	FARS87_90.DD
FARS86	FARS86.DAT	FORMAT87.SAS	FARSLD86.SAS	FARS82_86.DD
FARS85	FARS85.DAT	FORMAT87.SAS	FARSLD85.SAS	FARS82_86.DD
FARS84	FARS84.DAT	FORMAT87.SAS	FARSLD84.SAS	FARS82_86.DD
FARS83	FARS83.DAT	FORMAT87.SAS	FARSLD83.SAS	FARS82_86.DD
FARS82	FARS82.DAT	FORMAT87.SAS	FARSLD82.SAS	FARS82_86.DD
FARS81	FARS81.DAT	FORMAT87.SAS	FARSLD81.SAS	FARS75_81.DD
FARS80	FARS80.DAT	FORMAT87.SAS	FARSLD80.SAS	FARS75_81.DD
FARS79	FARS79.DAT	FORMAT87.SAS	FARSLD79.SAS	FARS75_81.DD
FARS78	FARS78.DAT	FORMAT87.SAS	FARSLD78.SAS	FARS75_81.DD
FARS77	FARS77.DAT	FORMAT87.SAS	FARSLD77.SAS	FARS75_81.DD
FARS76	FARS76.DAT	FORMAT87.SAS	FARSLD76.SAS	FARS75_81.DD
FARS75	FARS75.DAT	FORMAT87.SAS	FARSLD75.SAS	FARS75_81.DD

Note that there are two format programs, one for 1991 and later, FORMAT91.SAS and the other for 1990 and earlier, FORMAT87. There are also six file layouts.

If one is using SAS® on a PC, the first task is to create the format libraries. At most this needs to be one twice. Once for the years 1991-1994 and once for 1975-1990. Start by creating two sub-directories, in which the formats will be placed. Once the directories for the 91 and 87 formats have been created, the file/program FORMATxx.SAS must be modified. The first lines of FORMAT91.SAS and FORMAT87.SAS are:

FORMAT91.SAS	FORMAT87.SAS
libname library 'l:\farssas\formats\format91';	LIBNAME LIBRARY 'L:\FARSSAS\FORMAT87';

The parts that need to be changed are:

l:\farssas\formats\format91	L:\FARSSAS\FORMAT87

These first lines of code, identify the complete paths, that is, the drive, in this case the l drive and gives the names of these sub-directories, namely: farssas\formats\format91 or FARSSAS\FORMAT87 respectively. Change the line of code so the program will point to the drive and the sub-directory created above. Depending on the year, one of these two directories, will be used as PATH3, in the build programs, FARSLDxx.SAS, where xx are the last two digits of the year of interest. Submit the program for execution.

Once the format programs have been run and the format libraries created, the SAS® conversion programs may be executed.

The programs to convert the flat files to SAS® files are on the CD in the FARS\FARSxx sub-directory, where xx is the year. For example, **if your CD drive is the "K" drive** then the full file name of the 1985 conversion program is:

K:\FARS\FARS85\FARSLD85.SAS

The full file name of the data to be converted is:

K:\FARS\FARS85\FARS85.DAT

The conversion programs point to sub-directories identified as PATH1, PATH2, and PATH3. The sub-directories identified by PATH1 and PATH3 already exist and contain the ASCII data and formats, respectively. If the sub-directory for PATH2, does not exist, it must be created before the conversion program is run. This can be done by using the DOS command MKDIR.

Use the SAS® program editor to read in the conversion program, in this example K:\FARS\FARS85\FARSLD85.SAS. Lines 20, 21, and 22, which point to PATH1, PATH2 AND PATH3 respectively, need to be edited. Enter the path of the data to be converted. In this example, the term PATH1 is replaced with K:\FARS\FARS85. Change PATH2 to the directory, on your hard disk, which will hold the converted SAS® data. Finally change PATH3 to the directory, in which the formats, for the year of interest, were placed. The program is now ready to be submitted for processing.

When the files are built, the number of observations for each file appears in the upper right corner of the SAS® output. The number of observations are as follows:

Number of Observations/Records

Year	Accident File	Person File	Vehicle File
1994	36,254	98,945	54,911
1993	35,780	97,589	53,777
1992	34,942	95,691	52,227
1991	36,937	99,369	54,795
1990	39,836	107,777	59,292
1989	40,741	109,866	60,870
1988	42,130	112,958	62,703
1987	41,438	111,457	61,836
1986	41,090	109,073	60,792
1985[1]	39,196	104,045	58,271
1984[2]	39,631	103,348	57,972
1983[2]	37,976	99,316	55,106
1982[2]	39,092	102,120	56,455
1981	44,000	112,460	62,699
1980	45,284	113,289	63,485
1979	45,223	114,885	64,762
1978	44,433	115,161	64,144
1977	42,211	111,108	60,516

[1] The program that creates the SAS® files reports an error for state case 450445 in vehicle maneuver and state case 261297 for non-motorist number. These were not corrected with the edit checks at the time, but are flagged here. Your data and software are correct.

[2] There are several cases of non-consistent data in mile point field. These "errors" are caused by improved edit checks that were not available when the original data were collected. Your data and software are correct.

1976	39,747	105,609	56,084
1975	39,161	104,889	55,534

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