NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)

CRASHWORTHINESS DATA SYSTEM

Analytical User's Manual

1991 File



U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590

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SECTION 1

INTRODUCTION

The National Accident Sampling System (NASS) is a continuous nationwide accident data collection program sponsored by the U.S. Department of Transportation. It is operated by the National Center for Statistics and Analysis (NCSA) of the National Highway Traffic Safety Administration (NHTSA).

NASS provides an automated, comprehensive national traffic accident data base. Data collection began in 1979 in 10 geographic sites, called Primary Sampling Units (PSU's). The 1991 NASS file contains data from 24 PSU's. These data are weighted to represent all police reported motor vehicle accidents occurring in the USA during the year involving passenger cars, light trucks and vans that were towed due to damage.

The structure of the NASS was changed in 1988 to the Crashworthiness Data System (CDS), therefore comparing the 1988-1991 files with files from years prior to 1988 is not recommended. The principal attributes of the NASS CDS 1988-1991 files include: focusing on accidents involving automobiles and automobile derivatives, light trucks and vans with gross vehicle weight less than 10,000 pounds; giving special consideration to late model vehicles (the five most recent model years); emphasizing the more serious injury accidents; eliminating the pedestrian and non-motorist record, the driver record and vehicle registration information. A revised set of data collection forms was designed in 1988 for the crashworthiness data system. Some features are: the introduction of an Accident Event Record to capture all events in the accident; the creation of three new vehicle records (General Vehicle, External Vehicle, Internal Vehicle); and the separation of occupant records into an Occupant Assessment Record and an Occupant Injury Record, wherein all injuries are coded.

The 1991 NASS file is available in two automated formats: a sequential data set or a Statistical Analysis System (SAS) data set. Hard copy data collection records, sanitized to protect privacy, are available for review. These records contain photographic slides, scene diagrams, and vehicle damage diagrams.

This manual and the NASS Data Collection, Coding and Editing Manual - 1991 Crashworthiness Data System are the primary documentation supporting the automated file. When using this file one should be careful to understand the coding conventions of all variables used thoroughly. In addition, the user may find the following documents helpful:

CRASH3 Technical Manual, July 1986

Collision Deformation Classification (SAE J224 MAR 84)

Injury Coding Manual 1988

NASS Design for Crashworthiness Research, April 1986 (Internal Working Paper)

General Description of the NASS Crashworthiness Data System Sample Design, April 1987 (Internal Working Paper)

The first document is available from the DOT/Volpe National Transportation Systems Center (VNTSC), DTS-44, Kendall Square, Cambridge, Massachusetts 02142. The second document is available from the Society of Automotive Engineers (SAE), Warrendale, Pennsylvania 15096. The last three documents are available from National Highway Traffic Safety Administration at the address below.

Comments on the content and utility of the files and primary documentation are appreciated. Please address them to the National Center for Statistics and Analysis - NRD-30, National Highway Traffic Safety Administration, U.S. Department of Transportation, 400 Seventh St., S.W., Washington, D.C. 20590.

SECTION 2

CHANGES IN 1991

New data elements were added to the NASS CDS covering the examination for and detection of "other drugs" i. e., drugs other than alcohol, multistage manufactured or altered vehicles, fire occurrence and origin, fuel tank types, air bags and automatic belt types, proper usage and failures. A detailed list of changes by record type and data element follows.

ACCIDENT RECORD

AOPS SPECIAL STUDY (AC07): Not Active in 1991.

AOPS FATALITY SPECIAL STUDY (AC08): Fatality in AOPS equipped late model vehicle. Not activated until September 1991.

GENERAL VEHICLE RECORD

POLICE REPORTED ALCOHOL OR DRUG PRESENCE (GV11): Split into two data elements, (1) POLICE REPORTED ALCOHOL PRESENCE (GV11) and (2) POLICE REPORTED OTHER DRUG PRESENCE (GV37).

Other new General Vehicle data elements:

POLICE REPORTED OBSERVATION/PERCEPTION TEST TYPE FOR DRIVER (GV38) and OTHER DRUG SPECIMEN TEST TYPE FOR DRIVER (GV39).

Two new data elements were added for each of seven categories of drugs:

OBSERVATION/PERCEPTION TEST RESULTS and SPECIMEN TEST RESULTS.

NARCOTIC DRUG (GV40 AND GV41)

DEPRESSANT DRUG (GV42 AND GV43)

STIMULANT DRUG (GV44 AND GV45)

HALLUCINOGEN DRUG (GV46 AND GV47)

CANNABINOID DRUG (GV48 AND GV49)

PHENCYCLIDINE DRUG (GV50 AND GV51)

INHALANT DRUG (GV52 AND GV53)

OTHER DRUG (GV54 AND GV55)

EXTERIOR VEHICLE RECORD

Four new data elements were added:

IS THIS A MULTI-STAGE MANUFACTURED VEHICLE AND/OR A CERTIFIED ALTERED VEHICLE? (EV29)

FIRE OCCURRENCE (EV30)

THE OCCURRENCE (E130)

ORIGIN OF FIRE (EV31)

TYPE OF FUEL TANK(EV32)

INTERIOR VEHICLE RECORD

Four data elements were deleted:
STEERING COLUMN COLLAPSE DUE TO OCCUPANT LOADING (IV88)
DIRECTION AND MAGNITUDE OF STEERING COLUMN MOVEMENT
VERTICAL MOVEMENT (IV89)
LATERAL MOVEMENT (IV90)
LONGITUDINAL MOVEMENT (IV91)

OCCUPANT ASSESSMENT RECORD

A new attribute was added to the first through fourth rows of the data element OCCUPANT'S SEAT POSITION (OA10):
ON OR IN THE LAP OF ANOTHER OCCUPANT
FRONT SEAT (15)
SECOND SEAT (25)
THIRD SEAT (35)
FOURTH SEAT (45)

Three automatic restraint data elements were split into air bag and automatic belt. AUTOMATIC (PASSIVE) RESTRAINT SYSTEM AVAILABILITY (OA21): Split into (1) AIR BAG SYSTEM AVAILABILITY/FUNCTION (OA21) and (2) AUTOMATIC (PASSIVE) BELT SYSTEM AVAILABILITY (OA44). AUTOMATIC (PASSIVE) RESTRAINT FUNCTION (OA22): Split into (1) AIR BAG SYSTEM DEPLOYMENT (OA22) and (2) AUTOMATIC (PASSIVE) BELT SYSTEM USE (OA45).

DID AUTOMATIC (PASSIVE) RESTRAINT FAIL? (OA23): Split into (1) DID AIR BAG SYSTEM FAIL? (OA23) and (2) AUTOMATIC (PASSIVE) BELT FAILURE MODES DURING ACCIDENT (OA48).

Two additional automatic belt data elements were added: AUTOMATIC (PASSIVE) BELT SYSTEM TYPE (OA46) and PROPER USE OF AUTOMATIC (PASSIVE) BELT SYSTEM (OA47).

SECTION 3

THE SAMPLING SYSTEM AND SAMPLE DESIGN

The accidents investigated in NASS CDS are a probability sample of all police reported accidents in the U.S. A NASS CDS accident must fulfill the following requirements: must be police reported, must involve a harmful event (property damage and/or personal injury) resulting from an accident and must involve at least one towed passenger car or light truck or van in transport on a trafficway. Every accident which meets these conditions has a chance of being selected. This type of sample design makes it possible to compute estimates which are representative of the entire country.

The selection of sample accidents in NASS is accomplished in three stages: (1) selection of PSU's, (2) selection of police jurisdictions and (3) selection of accidents.

Stage 1 - Select PSU's

For the first stage of selection, the country was divided into 1195 geographic areas called Primary Sampling Units (PSU's). Each PSU consisted either of a large city, a county, a group of contiguous counties, a central city or the balance of a county which was not part of a central city. The PSU's were defined so that their minimum population was approximately 50,000.

The 1195 PSU's were grouped into 12 strata based on geographic region and type, e.g., large central city, other central cities and suburban counties, and other PSU's. The 24 PSU's to be sampled were allocated to each stratum roughly proportional to the number of accidents in each stratum. At least two PSU's were selected from each stratum.

Stage 2 - Select Police Jurisdictions

If every accident in each PSU were investigated, a national estimate could be obtained by weighting each accident by the inverse of the probability of selecting the PSU. Because it is uneconomical and impractical to investigate every accident in each sample PSU, a second and third stage of sampling are performed. Each PSU contains a number of police jurisdictions which process reports of accidents that occur within the PSU's boundaries. These police jurisdictions form the frame of the second stage of sampling. Each jurisdiction is assigned a measure of size based on the number, severity and type of its accidents. A sample of jurisdictions is selected which over-samples those having a larger measure of size.

Stage 3 - Select Accidents

The final stage of sampling is the selection of accidents within the sampled jurisdictions. Each

week, the police jurisdictions are contacted and all accidents that qualify for the NASS CDS for which a police accident report has been filed since the last date that jurisdiction was contacted are listed. While being listed, each accident is classified into a stratum based on type of vehicle, most severe police reported injury, disposition of the injured, tow status of the vehicles and model year of the vehicles. All qualifying accidents are listed, except in a few of the largest police jurisdictions in these jurisdictions only accidents with either an even or an odd police accident report number are listed.

To select accidents, each team is assigned a fixed number of accidents to investigate each week. The number of accidents a team selects for investigation is governed by the number of researchers on a team. Sampling weights for the strata are assigned so that a larger percentage of the higher severity accidents is selected than of the lower severity accidents. Also, accidents in the same stratum have the same probability of being selected, regardless of the PSU.

To select the sample, each accident is assigned a weight equal to the inverse of the probability of selecting the police jurisdiction in which it was listed.

SAMPLING VARIABLES

The stratification category (1) by type of vehicle is "CDS applicable"---passenger cars, light trucks and vans and "other vehicles"---all other vehicle types; (2) by injury is "fatal injury"---K, "serious injury"---A or "minor injury, not injured or unknown"---B,C,O,U; (3) by disposition of the injured is "transported to a medical facility" or "not transported"; (4) by tow status is "towed due to damage" or "not towed", (5) by model year of the vehicle is "late model year"---1987 through 1992 or "non-late model year"---1985 or before

SAMPLING STRATA

The eight PAR sampling Strata used by the CDS are listed below and shown in Table 2-1

Stratum A-NASS accidents in which at least one occupant of a towed CDS applicable late model year vehicle had a police reported injury of "K" (fatal injury).

<u>Stratum B-NASS</u> accidents not qualifying for Stratum A in which at least one occupant of a towed CDS applicable non-late model year vehicle had a police reported injury of "K" (fatal injury)

Stratum C-NASS accidents not qualifying for Strata A or B in which at least one occupant of a towed CDS applicable late model year vehicle had a police reported injury of "A" (incapacitating injury) AND was transported to a treatment facility for treatment. If the accident involved more than one CDS applicable vehicle, then at least two CDS applicable vehicles must be towed

<u>Stratum D-NASS</u> accidents not qualifying for Strata A, B or C in which at least one occupant of a towed CDS applicable non-late model year vehicle had a police reported injury of "A" (incapacitating injury) AND was transported to a treatment facility for treatment. If the accident involved more than one CDS applicable vehicle, then at least two CDS applicable vehicles must be towed.

<u>Stratum E-NASS</u> accidents not qualifying for Strata A, B, C or D in which at least one occupant of towed CDS applicable late model vehicle was transported from the scene to a treatment facility for treatment.

<u>Stratum F-NASS</u> accidents not qualifying for Strata A, B, C, D or E in which at least one occupant of a towed CDS applicable non-late model vehicle was transported from the scene to a treatment facility for treatment.

<u>Stratum G-NASS</u> accidents not qualifying for Strata A, B, C, D, E or F which involve at least one CDS applicable late model vehicle that was towed, according to the police report, from the scene due to damage.

<u>Stratum H-NASS</u> accidents not qualifying for Strata A, B, C, D, E, F or G which involve at least one CDS applicable non-late model vehicle that was towed, according to the police report, from the scene due to damage.

Example of Accident Stratification: A CDS applicable non-late model year vehicle and a bicycle crash. The CDS applicable vehicle is towed with minor injuries to the occupants, who are not transported. The bicyclist receives a serious injury---"A". The accident is classified as Stratum H because of the minor injuries to the occupants of the towed CDS applicable non-late model year vehicle.

Table 2-1 1991 NASS CDS Strata

Late Model Year	Most Severe Police Reported Injury						
Houe; real	Transported					Nontransported	
(LMV) Vehicle	Fatal Injury	Serious Injury "A"		Minor Injury or Unk. "B",	Minor Injury, Not Injured or Unknown		
Involve- ment	"K"	Single CDS Veh.	Multipl Applic Vehic	able	"C", or "U"	At Least One Towed	No Towed CDS. Appli.
		Towed	Two or More Towed	Only One Towed		CDS Applic. Veh.	Veh.
Injury in Towed,LMY, CDS Veh.	4	(3		E	6	NOT
Injury not in Towed, LMY, CDS Vehicle	В	1	D	(F	Н	SCOPE

Note Late Model Year refers to 1987 through 1992 model years

Sampling

Because the accidents selected in NASS CDS are a probability sample of all accidents occurring in the survey year, the data from these accidents can be "weighted" to produce either PSU or National Estimates. The weights or "Inflation Factors" result from the stages of selection, reflecting that accident's probability of selection. There are three weights on this analysis file.

PSU Inflation Factor

The PSU Inflation Factor is the within PSU sampling weight for each accident in that PSU's sample and is equal to the inverse of that accident's probability of selection within the PSU. It is equal to the product of the inverse of the probability of selecting that accident from the other accidents and the inverse of the probability of selecting the police jurisdiction in which the accident occurred from among all police jurisdictions listed in the PSU (Stage 2).

The sum of the PSU Inflation Factors for all accidents sampled within a PSU is an unbiased estimate of the number of accidents which occurred during the year in that PSU. Unbiased estimates of accident characteristics for a PSU can be obtained by multiplying the value of the characteristic for each accident sampled in the PSU by that accident's PSU Inflation Factor and summing.

National Inflation Factor

The National Inflation Factor is the overall sampling weight for each accident selected in the NASS sample and the inverse of the probability of selection of that accident. It is equal to product of the PSU Inflation Factor and the inverse of the probability of selection of the PSU (Stage 1).

The sum of the National Inflation Factors for all sampled NASS accidents in a year is an unbiased estimate of the total number of accidents which occurred during the year in the U.S. If restricted to an accident stratum, the sum is an estimate of the total number of that type of accident which occurred in that year. Unbiased estimates of National totals of accident characteristics can be obtained by multiplying the value of the characteristic for each accident in the NASS sample by the National Inflation Factor for that accident.

Ratio Inflation Factor

The Ratio Inflation Factor is the product of the National Inflation Factor and a rate which adjusts for differences between actual and estimated totals. This ratio is calculated using accident totals from both the sampled and non-sampled police jurisdictions. The totals for the sampled jurisdictions are collected periodically. The PSU's are grouped into predetermined sets. Ratios are formed by dividing the total accidents in each stratum and in each set of PSU's by the estimated total. Those estimated totals are sums of the PSU Inflation Factors for each accident in the accident strata and set of PSU's.

Estimates of National totals for accident characteristics can be obtained using the Ratio Inflation Factor. However, because the Ratio Inflation Factors have been adjusted to actual accident counts, some of the sampling variation has been removed. Therefore they will produce more precise estimates than the National Inflation Factor.

SECTION 4

DERIVED VARIABLES

Most of the data presented in the NASS record layout can be identified easily as coming from accident investigation and other activities of NASS field teams. The following data elements, however, are by-products of sampling procedures used by NASS or are derived from data processing applications, such as totaling the number of injured persons in a given accident. The following list identifies the specific data elements, gives their location in the Sequential File Record Layout and explains their derivation.

SPECIFICATION FOR DERIVED VARIABLES VARIABLE NAME - LOCATION - DESCRIPTION

MAXIMUM TREATMENT (AC29) (SAS Label: ATREAT)

This single place numeric value indicates the most intensive treatment given to any occupant of a towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle in the accident, using the following order of codes:

- 1 FATAL
- 3 HOSPITALIZED
- 4 TRANSPORTED AND RELEASED
- 5 TREATMENT AT SCENE
- 6 TREATMENT LATER
- 8 TREATMENT OTHER
- 2 FATAL RULED DISEASE
- 9 UNKNOWN
- 0 NO TREATMENT
- . NOT COLLECTED

This variable is derived by scanning the TREATMENT-MORTALITY (OA35) variable in each occupant assessment record in the accident.

Source: TREATMENT-MORTALITY (OA35).

Missing Values: Occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF OCCUPANT FORMS SUBMITTED (GV18) equals 0. If there are no occupants in any towed CDS applicable vehicle in the accident, then use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected) and .U for 9 (Unknown).

MAXIMUM KNOWN A.I.S. (AC30) (SAS Label: AAIS)

This single place numeric value indicates the single most severe injury level reported for any occupant of a towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle in the accident, using the following order of codes:

- 6 MAXIMUM (UNTREATABLE) INJURY
- 5 CRITICAL INJURY
- 4 SEVERE INJURY
- 3 SERIOUS INJURY
- 2 MODERATE INJURY

- 1 MINOR INJURY
- 7 INJURY, UNKNOWN SEVERITY
- 9 UNKNOWN IF INJURED
- 0 NOT INJURED
- . NOT COLLECTED

This variable is derived by scanning the A.I.S. SEVERITY (OI010...OI100) variable on each occupant injury record in the accident. If none of the occupants in the accident has an occupant injury record, then scan the NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) variable on the occupant assessment record. Use the following order of codes: if "97", then code "7"; if "99", then code "9"; if "00", then code "0".

Source: A.I.S. SEVERITY (OI010...OI100) and NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43).

Missing Values: Occupant injury and occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Nontowed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0: (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF OCCUPANT FORMS SUBMITTED (GV18) equals 0. Occupant injury records will be missing for: (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2) Non-towed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00. If there are no occupants in any towed CDS applicable vehicle in the accident, then use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected) and .U for 9 (Unknown).

NUMBER OF SERIOUSLY INJURED OCCUPANTS (AC31-32) (SAS Label: AINJSER)

This two place numeric value indicates the total number of fatally and other seriously injured occupants of towed CDS applicable vehicles or non-towed CDS applicable AOPS vehicles involved in the accident. It is derived by totaling for the accident either the number of occupant assessment records in which the TREATMENT-MORTALITY (OA35) value is coded "1" (Fatal) or the number of occupant injury records in which the A.I.S. SEVERITY (OI010...OI100) value is coded "3-6". (Add together "1"s in OA35 and if the code in OA35 is not equal to "1", add one injury per occupant where OI010...OI100 is "3-6").

Source: TREATMENT-MORTALITY (OA35) and A.I.S. SEVERITY (OI010...OI100).

Missing Values: Occupant injury and occupant assessment records will be missing

for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Nontowed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF OCCUPANT FORMS SUBMITTED (GV18) equals 0. Occupant injury records will be missing for: (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2) Non-towed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00. If none of the occupants in the accident has an occupant injury record or if, on all the occupant assessment records the only codes in OA43 are equal to "97, 99 or 00", then use code "0" (None) for this derived variable. If there are no occupants in any towed CDS applicable vehicle in the accident, then use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected). Unknown is not a valid code.

NUMBER OF INJURED OCCUPANTS (AC33-34) (SAS Label: AINJURED)

This two place numeric value indicates the total number of injured occupants of towed CDS applicable vehicles or non-towed CDS applicable AOPS vehicles involved in the accident. It is derived by totaling the number of occupant assessment records in which the variable NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) has a value of 01-97.

Source: NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43). Missing Values: Occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF OCCUPANT FORMS SUBMITTED (GV18) equals 0. Towed CDS applicable vehicles with no known occupant injuries will have codes-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 99 or 00. Non-towed CDS applicable AOPS vehicles with no known occupant injuries will have codes-BODY TYPE (GV07) equals 01-49. POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 99 or 00. If, on all the occupant assessment records in the accident, the only codes in OA43 are equal to "99 or 00", then use code "0" (None) for this derived variable. If there are no occupants in any towed CDS applicable vehicle in the accident, then use code "BLANK" (Not Collected) on the

Flat file and ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected). Unknown is not a valid code.

ALCOHOL INVOLVED (AC35) (SAS Label: ALCINV)

This single place numeric value indicates if any involved driver were reported to have had some alcohol involvement at the time of the accident, using the following order of codes:

- 1 YES
- 2 NO
- 9 UNKNOWN

This variable is derived by scanning the POLICE REPORTED ALCOHOL PRESENCE (GV11) and ALCOHOL TEST RESULT FOR DRIVER (GV12) variables on each general vehicle record in the accident. The ALCOHOL INVOLVED codes are derived as follows:

(YES) 1 - If POLICE REPORTED ALCOHOL PRESENCE equals 1 (YES-ALCOHOL PRESENT) or ALCOHOL TEST RESULT FOR DRIVER equals 01-49 (positive result).

(NO) 2 - If POLICE REPORTED ALCOHOL PRESENCE equals 0 (NO ALCOHOL PRESENT) and ALCOHOL TEST RESULT FOR DRIVER equals 00 (NONE) or 96 (NONE GIVEN).

(UNKNOWN) 9 - If the variables shown above have any other combination of values.

Source: POLICE REPORTED ALCOHOL PRESENCE (GV11) and ALCOHOL TEST RESULT FOR DRIVER (GV12).

Missing Values: None (must have at least one general vehicle record coded through the variable ACCIDENT TYPE (GV15) in the accident).

SAS Codes: .U for 9 (Unknown).

DAY OF WEEK (AC36-37) (SAS Label: DAYWEEK)

This two place numeric value indicates on which day of the week the accident occurred. To protect the confidentiality of records concerning specific accidents used by NASS, the accident date is not provided. Instead, the accident record indicates year, month and DAY OF WEEK of accident occurrence. DAY OF WEEK values are coded as follows:

01	Sunday	05	Thursday
02	Monday	06	Friday
03	Tuesday	07	Saturday
Ο4	Wadnasday		•

04 Wednesday

Source: DATE OF ACCIDENT (AC04).

Missing Values: None.

SAS codes: None. Unknown is not a valid code.

PSU INFLATION FACTOR (AC38-45) (SAS Label: PSUWGT)

This eight place numeric value has three implied decimal places. It indicates the within PSU sampling weight for each accident in that PSU's sample.

Source: Computed by NHTSA Headquarters.

Missing Values: None. SAS Codes: None.

NATIONAL INFLATION FACTOR (AC46-53) (SAS Label: NATWGT)

This eight place numeric value has three implied decimal places. It indicates the overall sampling weight for each accident selected in the NASS sample.

Source: Computed by NHTSA Headquarters.

Missing Values: None. SAS Codes: None.

RATIO INFLATION FACTOR (AC54-61) (SAS Label: RATWGT)

This eight place numeric value has three implied decimal places. It is the product of the National Inflation Factor and a ratio which adjusts for differences between actual and estimated totals.

Source: Computed by NHTSA Headquarters.

Missing Values: None. SAS Codes: None.

DRUG INVOLVED (AC62) (SAS Label: DRGINV)

This single place numeric value indicates if any involved driver were reported to have had some drug involvement at the time of the accident, using the following order of codes:

- 1 YES
- 2 NO
- 3 UNKNOWN

This variable is derived by scanning the POLICE REPORTED OTHER DRUG PRESENCE (GV37) and the variables reporting SPECIMEN TEST RESULTS for NARCOTIC, DEPRESSANT, STIMULANT, HALLUCINOGEN, CANNABINOID, PHENCYCLIDINE, INHALANT and OTHER DRUGS (GV41, GV43, GV45, GV47, GV49, GV51, GV53 and GV55) on each general vehicle record in the accident. The DRUG INVOLVED codes are derived as follows:

(YES) 1 - If POLICE REPORTED OTHER DRUG PRESENCE equals 1 (YES - OTHER DRUG PRESENT) or NARCOTIC DRUG - SPECIMEN TEST RESULTS equals 2 (DRUG FOUND IN SPECIMEN) or DEPRESSANT DRUG equals 2 or STIMULANT DRUG equals 2 or HALLUCINOGEN DRUG equals 2 or CANNABINOID DRUG equals 2 or PHENCYCLIDINE DRUG equals 2 or

INHALANT DRUG equals 2 or OTHER DRUG equals 2.

(NO) 2 -If POLICE REPORTED OTHER DRUG PRESENCE equals 0 (NO OTHER DRUGS PRESENT) and [NARCOTIC DRUG - SPECIMEN TEST RESULTS equals 0 (NO SPECIMEN TEST GIVEN) or 1 (DRUG NOT FOUND IN SPECIMEN)] and [DEPRESSANT DRUG equals 0 or 1] and [STIMULANT DRUG equals 0 or 1] and [HALLUCINOGEN DRUG equals 0 or 1] and [CANNABINOID DRUG equals 0 or 1] and [PHENCYCLIDINE DRUG equals 0 or 1] and [INHALANT DRUG equals 0 or 1] and [OTHER DRUG equals 0 or 1].

(UNKNOWN) 9 - If the variables shown above have any other combination of values.

Source: POLICE REPORTED OTHER DRUG PRESENCE (GV37) and NARCOTIC DRUG - SPECIMEN TEST RESULTS (GV41) and DEPRESSANT DRUG (GV43) and STIMULANT DRUG (GV45) and HALLUCINOGEN DRUG (GV47) and CANNABINOID DRUG (GV49) and PHENCYCLIDINE DRUG (GV51) and INHALANT DRUG (GV53) and OTHER DRUG (GV55).

Missing Values: None (must have at least one general vehicle record coded from variable GV37 through GV55 in the accident).

SAS Codes: .U for 9 (Unknown).

MANNER OF COLLISION (AC63) SAS Label: MANCOLL)

This single place numeric value indicates the configuration of the accident based on the first harmful event, using the following codes:

- 0 NOT COLLISION WITH VEHICLE IN TRANSPORT
- 1 REAR-END
- 2 HEAD-ON
- 4 ANGLE
- 5 SIDESWIPE, SAME DIRECTION
- 6 SIDESWIPE, OPPOSITE DIRECTION
- 9 UNKNOWN

This variable is derived by scanning the OBJECT CONTACTED (AC16) variable the accident event record and the ACCIDENT TYPE (GV15) variable on the general vehicle record, where VEHICLE NUMBER (AC13) equals VEHICLE NUMBER (GV03). The MANNER OF COLLISION codes are derived as follows:

- 0 (NOT COLLISION WITH VEHICLE IN TRANSPORT) If OBJECT CONTACTED equals 31-99.
- 1 (REAR-END) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 20-43.
- 2 (HEAD-ON) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 50-63.
- 4 (ANGLE) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 68-91.
- 5 (SIDESWIPE, SAME DIRECTION) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 44-49.

- 6 (SIDESWIPE, OPPOSITE DIRECTION) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 64-67.
- 9 (UNKNOWN) If OBJECT CONTACTED equals 01-30 and ACCIDENT TYPE equals 92-99.

Source: OBJECT CONTACTED (AC16) and ACCIDENT TYPE (GV15).

Missing Values: None (must have at least one general vehicle record coded through

the variable ACCIDENT TYPE [GV15] in the accident.

SAS Codes: .U for 9 (Unknown).

MAXIMUM TREATMENT IN THIS VEHICLE (GV107) (SAS Label: VTREAT)

This single place numeric value indicates the most intensive treatment given to any occupant of this towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle using the following order of codes:

- 1 FATAL
- 3 HOSPITALIZED
- 4 TRANSPORTED AND RELEASED
- 5 TREATMENT AT SCENE
- 6 TREATMENT LATER
- 8 TREATMENT OTHER
- 2 FATAL RULED DISEASE
- 9 UNKNOWN
- 0 NO TREATMENT
- . NOT COLLECTED

This variable is derived by scanning the TREATMENT-MORTALITY (OA35) variable in each occupant assessment record in this vehicle.

Source: TREATMENT-MORTALITY (OA35).

Missing Values: Occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF VEHICLE FORMS SUBMITTED (GV18) equals 0. If none of the occupants in the vehicle has an occupant assessment record, then use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected) and .U for 9 (Unknown).

MAXIMUM KNOWN A.I.S. IN THIS VEHICLE (GV108) (SAS Label: VAIS)

This single place numeric value indicates the single most severe injury level reported for any occupant in this towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle using the following order of codes:

- 6 MAXIMUM (UNTREATABLE) INJURY
- 5 CRITICAL INJURY
- 4 SEVERE INJURY
- 3 SERIOUS INJURY
- 2 MODERATE INJURY
- 1 MINOR INJURY
- 7 INJURY, UNKNOWN SEVERITY
- 9 UNKNOWN IF INJURED
- 0 NOT INJURED
- . NOT COLLECTED

This variable is derived by scanning the A.I.S. SEVERITY (OI010...OI100) variable on each occupant injury record in this towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle. If none of the occupants in this vehicle has an occupant injury record, then scan the NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) variable on the occupant assessment record. Use the following order of codes: if "97", then code "7"; if "99", then code "9"; if "00", then code "0".

Source: A.I.S. SEVERITY (OI010...OI100) and NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43).

Missing Values: Occupant injury and occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF VEHICLE FORMS SUBMITTED (GV18) equals 0. Occupant injury records will be missing for: (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2) Non-towed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00. If none of the occupants in the vehicle has an occupant assessment record, then use code "BLANK" (Not Collected) on the Flat file and use ".N" (Not Collected) on the SAS file.

SAS Codes: .N for Blank (Not Collected) and .U for 9 (Unknown).

NUMBER SERIOUSLY INJURED IN THIS VEHICLE (GV109-110) (SAS Label: VINJSER)

This two place numeric value indicates the total number of fatally and other seriously injured occupants of this towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle. It is derived by totaling for the vehicle either the number of occupant assessment records in which the TREATMENT-MORTALITY (OA35) value is coded "1" (Fatal) or the number of occupant injury records in which the A.I.S. SEVERITY

(OI010...OI100) value is coded "3-6". (Add together "1"s in OA35 and if the code in OA35 is not equal to "1", add one injury per occupant where OI010...OI100 is "3-6").

Source: TREATMENT-MORTALITY (OA35) and A.I.S. SEVERITY (OI010...OI100).

Missing Values: Occupant injury and occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49. POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF VEHICLE FORMS SUBMITTED (GV18) equals 0. Occupant injury records will be missing for: (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2) Non towed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00.

If none of the occupants in the vehicle has an occupant assessment record, then use code "BLANK" (Not Collected) on the Flat file and use ".N" (Not Collected) on the SAS file. If, on all the occupant assessment records in the vehicle, the only codes in OA43 are equal to "97, 99 or 00", then use code "0" (None) for this derived variable.

SAS Codes: .N for Blank (Not Collected). Unknown is not a valid code.

NUMBER INJURED IN THIS VEHICLE (GV111-112) (SAS Label: VINJURED)

This two place numeric value indicates the total number of injured occupants of this towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle. It is derived by totaling the number of occupant assessment records in which the variable NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) has a value of 01-97.

Source: NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43). Missing Values: Occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0; (3) Towed CDS applicable vehicles with no occupants-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF VEHICLE FORMS SUBMITTED (GV18) equals 0. Towed CDS applicable vehicles with no known occupant injuries will have codes-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT

(OA43) equals 99 or 00. Non-towed CDS applicable AOPS vehicles with no known occupant injuries will have codes-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 99 or 00. If none of the occupants in the vehicle has an occupant assessment record, then use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file. If, on all the occupant assessment records in the vehicle, the only codes in OA43 are equal to "99 or 00", then use code "0" (None) for this derived variable.

SAS Codes: .N for Blank (Not Collected). Unknown is not a valid code.

FRONT/REAR WHEEL DRIVE (GV113) (SAS Label: DRIVE)

This single place numeric value indicates which wheels of a passenger car are powered. Values are coded as follows:

- 1 REAR WHEEL DRIVE
- 2 FRONT WHEEL DRIVE
- 8 NOT APPLICABLE, NOT A PASSENGER CAR
- 9 UNKNOWN (FOUR WHEEL DRIVE POTENTIAL)

This variable is derived by scanning a coded table consisting of vehicle make, vehicle model and vehicle model year, to which a "drive" code has been appended.

Source: VEHICLE MODEL YEAR (GV04), VEHICLE MAKE (GV05), VEHICLE

MODEL (GV06), BODY TYPE (GV07) and coded table.

Missing Values: None.

SAS Codes: .U for 9 (Unknown).

VIN LENGTH (GV114-115) (SAS Label: VINLNGTH)

This two place numeric value indicates the number of characters in the Vehicle Identification Number (VIN) as originally recorded. 99 denotes unknown (on the FLAT file).

Source: VEHICLE IDENTIFICATION NUMBER (GV08).

Missing Values: None.

SAS Codes: .U for 99 (Unknown).

WEIGHT OF THE OTHER VEHICLE (GV116-118) (SAS Label: OTVEHWGT)

This three place numeric value indicates the weight (in pounds) of the other vehicle, if the most severe impact is with another CDS applicable vehicle. (This vehicle must be an inspected CDS applicable vehicle, the other vehicle need only be a CDS applicable vehicle). Values are coded as follows:

010	LESS THAN 1,050 POUNDS
011 - 134	1,050-13,449 POUNDS
135	13,450 OR MORE
998	NOT APPLICABLE (MOST SEVERE IMPACT NOT WITH

ITSELF)

999 UNKNOWN

NOT COLLECTED

This variable is derived by scanning the OBJECT CONTACTED (EV05) variable from the HIGHEST DELTA "V" as coded on the exterior vehicle record. If the object contacted is another CDS applicable vehicle, then the weight is derived by scanning the VEHICLE CURB WEIGHT (GV19) variable as coded on the general vehicle record for the other CDS applicable vehicle.

Source: OBJECT CONTACTED (EV05), BODY TYPE (GV07) & VEHICLE CURB WEIGHT (GV19).

Missing Values: Exterior vehicle records will be missing and variables GV16-36 on general vehicle records will not be coded for Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99. If the most severe impact is between an inspected CDS applicable vehicle and a non CDS applicable vehicle, then use code "BLANK" (Not Collected) on the Flat file and use ".N" (Not Collected) on the SAS file. Exterior vehicle records will be missing for CDS applicable vehicles which are not inspected-BODY TYPE (GV07) equals 01-49 and TYPE OF VEHICLE INSPECTION (GV35) equals 0. Use code "BLANK" (Not Collected) on the Flat file and use ".N" (Not Collected) on the SAS file. If the OBJECT CONTACTED (EV05) variable is blank (non collision event) for an inspected CDS applicable vehicle, then use code 998 (Not Applicable).

SAS Codes: .N for Blank (Not Collected) and .U for 999 (Unknown)

BODY TYPE OF THE OTHER VEHICLE (GV119-120) (SAS Label: OTBDYTYP)

This two place numeric value indicates the body type of the other vehicle if the most severe impact is with another vehicle. (This vehicle must be an inspected CDS applicable vehicle, the other vehicle may be any vehicle type). If the impact is not with another vehicle, the value is coded as follows:

98 NOT APPLICABLE (MOST SEVERE IMPACT NOT WITH ANOTHER VEHICLE OR WITH VEHICLE HITTING ITSELF)
. NOT COLLECTED

This variable is derived by scanning the OBJECT CONTACTED (EV05) variable from the HIGHEST DELTA "V" as coded on the exterior vehicle record. If the object contacted is another vehicle, then the body type is derived by scanning the BODY TYPE (GV07) variable as coded on the general vehicle record for the other vehicle.

Source: OBJECT CONTACTED (EV05) and BODY TYPE (GV07).

Missing Values: Exterior vehicle records will be missing for:

- (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99;
- (2) Not Inspected CDS applicable vehicles-BODY TYPE (GV07) equals 01-49 and TYPE OF VEHICLE INSPECTION (GV35) equals 0. For these vehicle types, use code "BLANK" (Not Collected) on the Flat file and ".N" (Not Collected) on the SAS file. If the OBJECT CONTACTED (EV05) variable is blank (non collision event) for

an inspected CDS applicable vehicle, then use code 98 (Not Applicable) **SAS Codes:** .N for Blank (Not Collected) and .U for 99 (Unknown).

MAXIMUM KNOWN OCCUPANT A.I.S. (OA78) (SAS Label: MAIS)

This single place numeric value indicates the single most severe injury level reported for this occupant of a towed CDS applicable vehicle or non-towed CDS applicable AOPS vehicle using the following order of codes:

- 6 MAXIMUM (UNTREATABLE) INJURY
- 5 CRITICAL INJURY
- 4 SEVERE INJURY
- 3 SERIOUS INJURY
- 2 MODERATE INJURY
- 1 MINOR INJURY
- 7 INJURY, UNKNOWN SEVERITY
- 9 UNKNOWN IF INJURED
- 0 NOT INJURED

This variable is derived by scanning the A.I.S. SEVERITY (OI010...OI100) variable on the occupant injury record. If this occupant does not have an occupant injury record, then scan the NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) variable on the occupant assessment record. Use the following order of codes: if "97", then code "7"; if "99", then code "9"; if "00", then code "0".

Source: A.I.S. SEVERITY (OI010...OI100) and NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43).

Missing Values: None (if you do not have an occupant injury record, you will have an occupant assessment record for each occupant of a towed CDS applicable vehicle or a non-towed CDS applicable AOPS vehicle). Occupant injury and occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE? (GV36) equals 0. Occupant injury records will be missing for: (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2)Nontowed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF REPORTED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00. SAS Codes: .U for 9 (Unknown).

OCCUPANT I.S.S. (OA79-80) (SAS Label: ISS)

This two place numeric value provides an index score indicating the relative severity of overall injury to the individual vehicle occupant of a towed CDS applicable vehicle

or a non-towed CDS applicable AOPS vehicle using the following order of codes

- 6 MAXIMUM (UNTREATABLE) INJURY
- 5 CRITICAL INJURY
- 4 SEVERE INJURY
- 3 SERIOUS INJURY
- 2 MODERATE INJURY
- 1 MINOR INJURY
- 0 NOT INJURED

It is derived by scanning the BODY REGION (OI006...OI096) and the A.I.S. SEVERITY (OI010...OI100) variables on the occupant injury record. The I.S.S. score is calculated by adding the squares of the highest A.I.S. SEVERITY entries for each of the three most severely injured body regions. For A.I.S. Code "7" (Injury, Unknown Severity), use code "0" If the occupant injury record is missing, scan the NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT (OA43) variable on the occupant assessment record. If the codes in OA43 are "97, 99 or 00", then use code "0". An example of calculating an I.S.S. score is the following:

An Occupant suffered serious injury (A.I.S.=3) to the legs (Body Region 5), moderate injury (A.I.S.=2) to the pelvic area (Body Region 4) and moderate to minor injuries elsewhere (A.I.S.=2). The resulting I S S. is the sum of the squares of these three A.I.S. Severity scores: (3**2) + (2**2) + (2**2) or 17

Source: BODY REGION (01006...01096) and A.I.S. SEVERITY (01010...01100). Missing Values: None (if you do not have an occupant injury record, you will have an occupant assessment record for each occupant of a towed CDS applicable vehicle or a non-towed CDS applicable AOPS vehicle). Occupant injury and occupant assessment records will be missing for: (1) Non CDS applicable vehicles-BODY TYPE (GV07) equals 50-99; (2) Non-towed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and IS THIS AN AOPS VEHICLE' (GV36) equals 0. Occupant injury records will be missing for. (1) Towed CDS applicable vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00; (2) Non-towed CDS applicable AOPS vehicles with no known occupant injuries-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9, IS THIS AN AOPS VEHICLE? (GV36) equals 1 and NUMBER OF RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00

SAS Codes: None

SECTION 5 SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

ACCIDENT RECORD

1	PSU NUMBER	5 13	
_'		3.9	
-		4 ()	
3		4.1	PRU INFLATION FACTOR
1	ARE NUMBER	12	
5		4 3	
í		44	
		45	
1	RECORD NUMBER (11)	• 5	
8	KIN OKD MORBER (III)	46	
Ç.		47	
1.5	VERSION NUMBER	48	
L)	VERSION NUMBER		NATIONAL INICIATION PACICO
	WINDOW OF GENERAL	49	NATIONAL INFLATION FACIOR
10	NUMBER OF GENERAL	50	
1 1	VFHICLE FORMS SUBMITIED	51	
		52	
1.7	MONTH OF ACCIDENT	53	
		54	
14		55	
15		56	
1 /		5 7	RATIO INFLATION FACTOR
16	YEAR OF ACCIDENT	58	MILLO LIVE BITT TOUT
	TEAR OF ACCIDENT	59	
1 /		59 60	
18		61	
19	TIME OF ACCIDENT		
., ()		62	DRUG INVOLVED
21			
		6.3	MANNER OF COLLISION
22	NOT ACTIVE		-
23	NOT ACTIVE		
21	AOPS FATALITY		
25			
26			
2.7	NUMBER OF RECOPDED		
	EVENTS IN THIS ACCIDENT		
-			
29	MAXIMUM TREATMENT		
•			
3 ()	MAXIMUM KNOWN AIS		
3.1	NUMBER OF SERIOUSIA		
3.2	INJURED OCCUPANTS		
,,,	1 NO OKID OF COLIDATO		
3-3	NUMBER OF INJURED OCCUPANTS		
	MUMBER OF HAVORED OCCUPANTS		
3.4			
	AL WALLOT ADDING THE ON HOMESTIM		
3 5	AL OHOL/DRUG INVOLVEMENT		
3.6	DAY OF WEEK OF ACTIONS		
3.7			

ACCIDENT EVENT RECORD

1 2	PSU NUMBER
3 4 5 6	CASE NUMBER
7	RECORD NUMBER (12)
9	VERSION NUMBER
	ACCIDENT EVENT SEQUENCE NUMBER
12 13	VEHICLE NUMBER (1)
14 15	CLASS OF VEHICLE (1)
16	GENERAL AREA OF DAMAGE (1)
	VEHICLE NUMBER (2) OR OBJECT CONTACTED
19 20	CLASS OF VEHICLE (2)
21	GENERAL AREA OF DAMAGE (2)

GENERAL VEHICLE FORM

1 2	PSU NUMBER	53 NUMBER OF OCCUPANT FORMS 54 SUBMITTED
3 4 5	CASE NUMBER	55 VEHICLE CURB WEIGHT 56 57
7	RECORD NUMBER (21)	58 VEHICLE CARGO WEIGHT 59
 q	VERSION NUMBER	60 TOWED TRAILING UNIT
	VEHICLE NUMBER	61 DOC OF TRAJECTORY DATA
11	TENTELE NOMBER	62 CONDITION OF TREE OR POLE
12 13	VEHICLE MODEL YEAR	63 ROLLOVER
	VEHICLE MAKE	64 FRONT OVERRIDE/UNDERRIDE
15	VENICLE MAKE	65 REAR OVERRIDE/UNDERRIDE
16 17 18	VEHICLE MODEL	66 HEADING ANGLE FOR 67 THIS VEHICLE 68
19 20	BODY TYPE	69 HEADING ANGLE FOR 70 OTHER VEHICLE 71
21 22		72 BASIS FOR TOTAL DELTA V
23 2 4 25	VEHICLE IDENTIFICATION	73 TOTAL DELTA V 74
26 27 28 29	NUMBER	75 LONGITUDINAL COMPONENT OF 76 DELTA V 77
30 31 32		78 LATERAL COMPONENT OF 79 DELTA V 80
33 34 35 36 37		81 ENERGY ABSORPTION 82 83 84
38	VEHICLE DISPOSITION	85 CONFIDENCE IN RECONS PGM
	TRAVEL SPEED	86 TYPE OF VEHICLE INSPECTION
40	ALCOHOL ODECENCE	87 AOPS VEHICLE
	ALCOHOL TEST DESILIT	
43	ALCOHOL TEST RESULT	
	SPEED LIMIT	
	ATTEMPTED AVOIDANCE MANEUVER	
48 49	ACCIDENT TYPE	
	DRIVER PRESENCE	
	NUMBER OF OCCUPANTS THIS VEHICLE	

GENERAL VEHICLE FORM (CONTINUED)

1 PSU NUMBER 2
3 4 CASE NUMBER 5 6
7 RECORD NUMBER (22) 8
9 VERSION NUMBER
10 VEHICLE NUMBER
12 DRUG PRESENCE
13 OBSERVATION TEST TYPE
14 SPECIMEN TEST TYPE
15 OBSERVED NARCOTIC DRUG
16 SPECIMEN NARCOTIC DRUG
17 OBSERVED DEPRESSANT DRUG
18 SPECIMEN DEPRESSANT DRUG
19 OBSERVED STIMULANT DRUG
20 SPECIMEN STIMULANT DRUG
21 OBSERVED HALLUCINOGEN DRUG
22 SPECIMEN HALLUCINOGEN DRUG
23 OBSERVED CANNABINOID DRUG
24 SPECIMEN CANNABINOID DRUG
25 OBSERVED PHENCYCLIDINE DRUG
26 SPECIMEN PHENCYCLIDINE DRUG
27 OBSERVED INHALANT DRUG
28 SPECIMEN INHALANT DRUG
29 OBSERVED OTHER DRUG
30 SPECIMEN OTHER DRUG

31	MAXIMUM TREATMENT
32	MAXIMUM KNOWN AIS
	NUMBER OF SERIOUSLY INJURED IN THIS VEHICLE
	NUMBER INJURED IN THIS VEHICLE
37	FRONT/REAR WHEEL DRIVE
38 39	VIN LENGTH
-	WEIGHT OF THE OTHER VEHICLE
_	BODY TYPE OF THE OTHER VEHICLE

EXTERIOR VEHICLE FORM

1 PSU NUMBER 2	47 CRASH DAMAGE DATA 48 FOR HIGHEST DELTA "V" - C5
3 4 CASE NUMBER 5	49 CRASH DAMAGE DATA 50 FOR HIGHEST DELTA "V" - C6
7 RECORD NUMBER (31)	51 CRASH DAMAGE DATA 52 FOR HIGHEST DELTA "V" - D 53 54
9 VERSION NUMBER 10 VEHICLE NUMBER	55 CRASH DAMAGE DATA 56 FOR 2ND HIGHEST 57 DELTA "V" - L
12 ACCIDENT SEQUENCE - 1	58 CRASH DAMAGE DATA FOR 59 2ND HIGHEST DELTA "V" - C1
13 14 OBJECT 15 CONTACTED - 1	60 CRASH DAMAGE DATA FOR 61 2ND HIGHEST DELTA "V" - C2
16 DIRECTION 17 OF FORCE - 1	62 CRASH DAMAGE DATA FOR 63 2ND HIGHEST DELTA "V" - C3
18 DEFORMATION LOCATION - 1	64 CRASH DAMAGE DATA FOR 65 2ND HIGHEST DELTA "V" - C4
19 LONG /LATERAL LOCATION - 1	66 CRASH DAMAGE DATA FOR 67 2ND HIGHEST DELTA "V" - C5
20 VERT /LATERAL LOCATION - 1	68 CRASH DAMAGE DATA FOR
21 TYPE OF DAMAGE DIST - 1 22 DEFORMATION	69 2ND HIGHEST DELTA "V" - C6
23 EXTENT - 1	71 FOR 2ND HIGHEST 72 DELTA "V" - D
24 ACCIDENT SEQUENCE - 2 25	73 74 CDCS DOCUMENTED-NOT CODED
26 OBJECT 27 CONTACTED - 2	75 VEHICLE DISPOSITION (RES.)
28 DIRECTION 29 OF FORCE - 2	76 ORIGINAL WHEELBASE 77
30 DEFORMATION LOCATION - 2	78 79
31 LONG /LATERAL LOCATION - 2	80 ALTERED VEHICLE
32 VERT /LATERAL LOCATION - 2	81 FIRE OCCURRENCE
33 TYPE OF DAMAGE DIST 2	82 ORIGIN OF FIRE
34 DEFORMATION 35 EXTENT - 2	83 TYPE OF TANK
36 CRASH DAMAGE DATA FOR 37 HIGHEST DELTA "V" - L 38	
39 CRASH DAMAGE DATA FOR 40 HIGHEST DELTA "V" - C1	
41 CRASH DAMAGE DATA FOR 42 HIGHEST DELTA "V" - C2	
43 CRASH DAMAGE DATA FOR 44 HIGHEST DELTA "V" - C3	
45 CRASH DAMAGE DATA FOR 46 HIGHEST DELTA "V" - C4	

INTERIOR VEHICLE FORM

1	PSU NUMBER
2	
3 4	CASE NUMBER
5 6	
7	RECORD NUMBER (41)
9	VERSION NUMBER
10 11	VEHICLE NUMBER
12	PASSENGER COMPARTMENT
13	INTEGRITY
14	DOOR/GATE/HATCH OPENING-LF
15 	DOOR/GATE/HATCH OPENING-RF
16	DOOR/GATE/HATCH OPENING-LR
17	DOOR/GATE/HATCH OPENING-RR
18	DOOR/GATE/HATCH OPENING-TG
19	DOOR/GATE/HATCH DAMAGE-LF
20	DOOR/GATE/HATCH DAMAGE-RF
21	DOOR/GATE/HATCH DAMAGE-LR
22	DOOR/GATE/HATCH DAMAGE-RR
23	DOOR/GATE/HATCH DAMAGE-TG
24	GLAZING DAMAGE-IMPACT-WS
2 5	GLAZING DAMAGE-IMPACT-LF
26	GLAZING DAMAGE-IMPACT-RF
27	GLAZING DAMAGE-IMPACT-LR
28	GLAZING DAMAGE-IMPACT-RR
29	GLAZING DAMAGE-IMPACT-BL
30	GLAZING DAMAGE-IMPACT-RO
31	GLAZING DAMAGE-IMPACT-DT
32	GLAZING DAMAGE-CONTACT-WS
33	GLAZING DAMAGE-CONTACT-LF
34	GLAZING DAMAGE-CONTACT-RF
35	GLAZING DAMAGE-CONTACT-LR
36	GLAZING DAMAGE-CONTACT-RR
37	GLAZING DAMAGE-CONTACT-BL
38	GLAZING DAMAGE-CONTACT-RO
39	GLAZING DAMAGE-CONTACT-OT

40	TYPE OF GLAZING-WS
41	TYPE OF GLAZING-LF
4 2	TYPE OF GLAZING-RF
43	TYPE OF GLAZING-LR
44	TYPE OF GLAZING-RR
45	TYPE OF GLAZING-BL
46	TYPE OF GLAZING-RO
47	TYPE OF GLAZING-OT
48	PRECRASH GLAZING STATUS-WS
4 9	PRECRASH GLAZING STATUS-LF
50	PRECRASH GLAZING STATUS-RF
51	PRECRASH GLAZING STATUS-LR
52	PRECRASH GLAZING STATUS-RR
53	PRECRASH GLAZING STATUS-BL
54	PRECRASH GLAZING STATUS-RO
55	PRECRASH GLAZING STATUS-OT
	*

INTERIOR VEHICLE FORM (CONTINUED)

1	PSU NUMBER
2 	
3 4 5 6	CASE NUMBER
7	RECORD NUMBER (42)
9	VERSION NUMBER
10 11	VEHICLE NUMBER
12 13	LOCATION OF INTRUSION-1ST
14 15	INTRUDING COMPONENT-1ST
16	MAGNITUDE OF INTRUSION-1ST
17	CRUSH DIRECTION-1ST
18 19	LOCATION OF INTRUSION-2ND
20 21	INTRUDING COMPONENT-2ND
22	MAGNITUDE OF INTRUSION-2ND
23	CRUSH DIRECTION-2ND
24 25	LOCATION OF INTRUSION-3RD
26 27	INTRUDING COMPONENT-3RD
28	MAGNITUDE OF INTRUSION-3RD
29	CRUSH DIRECTION-3RD
30 31	LOCATION OF INTRUSION-4TH
32 33	INTRUDING COMPONENT-4TH
34	MAGNITUDE OF INTRUSION-4TH
35	CRUSH DIRECTION-4TH
36 37	LOCATION OF INTRUSION-5TH
38 39	INTRUDING COMPONENT-5TH
40	MAGNITUDE OF INTRUSION-5TH
41	CRUSH DIRECTION-5TH
42 43	LOCATION OF INTRUSION-6TH
44 45	INTRUDING COMPONENT-6TH

46	MAGNITUDE OF INTRUSION-6TH
47	CRUSH DIRECTION-6TH
48 49	LOCATION OF INTRUSION-7TH
50 51	INTRUDING COMPONENT-7TH
52	MAGNITUDE OF INTRUSION-7TH
53	CRUSH DIRECTION-7TH
54 55	LOCATION OF INTRUSION-8TH
56 57	INTRUDING COMPONENT-8TH
58	MAGNITUDE OF INTRUSION-8TH
59	CRUSH DIRECTION-8TH
60 61	LOCATION OF INTRUSION-9TH
62 63	INTRUDING COMPONENT-9TH
64	MAGNITUDE OF INTRUSION-9TH
65	CRUSH DIRECTION-9TH
66 67	LOCATION OF INTRUSION-10TH
68 69	INTRUDING COMPONENT-10TH
70	MAGNITUDE OF INTRUSION-10TH
71	CRUSH DIRECTION-10TH
72	STEERING COLUMN TYPE
73 74	STEERING COLUMN COLLAPSE
75 76	DIRECTION AND MAGNITUDE OF STEERING COLUMN
77	MOVEMENT-VERTICAL
78 79 80	MOVEMENT-LATERAL
81	
83	OF STEERING COLUMN MOVEMENT-LONGITUDINAL
84	
85 86	LOCATION OF STEERING RIM/SPOKE DEFORMATION
87 88 89	
90	INSTRUMENT PANEL DAMAGE
	KNEE BOLSTERS DEFORMED
92	GLOVE COMPARTMENT DOOR OPEN

OCCUPANT ASSESSMENT FORM

1 2	PSU NUMBER
3 4 5 6	CASE NUMBER
7	RECORD NUMBER (51)
9	VERSION NUMBER
10 11	VEHICLE NUMBER
12 13	OCCUPANT NUMBER
14 15	OCCUPANT'S AGE
16	OCCUPANT'S SEX
17 18	OCCUPANT'S HEIGHT
19 20 21	OCCUPANT'S WEIGHT
22	OCCUPANT'S ROLE
23 24	OCCUPANT'S SEAT POSITION
25	OCCUPANT'S POSTURE
26	EJECTION
27	EJECTION AREA
28	EJECTION MEDIUM
29	MEDIUM STATUS
30	ENTRAPMENT
31	MANUAL BELT AVAILABILITY
32 33	MANUAL BELT USE
34	PROPER USE OF MANUAL BELT
35	MANUAL BELT FAILURE
36	AIR BAG AVAILABILITY
37	AIR BAG DEPLOYMENT
	DID AIR BAG FAIL?
	POLICE REP. RESTRAINT USE
	HEAD REST. TYPE/DAMAGE
41 42	SEAT TYPE
43	SEAT PERFORMANCE
44 45 46	CHILD SAFETY SEAT MAKE/MODEL

47	TYPE OF CHILD SAFETY SEAT
48 49	CHILD SAFETY SEAT ORIENTATION
50 51	CHILD SAFETY SEAT HARNESS USAGE
52 53	CHILD SAFETY SEAT SHIELD USAGE
54 55	CHILD SAFETY SEAT TETHER USAGE
56	INJURY SEVERITY
57	TREATMENT-MORTALITY
58	TYPE OF MEDICAL FACILITY
59 60	HOSPITAL STAY
61 62	WORKING DAYS LOST
63 64	TIME TO DEATH
65 66	1ST MEDICALLY REPORTED CAUSE OF DEATH
67 68	2ND MEDICALLY REPORTED CAUSE OF DEATH
69 70	3RD MEDICALLY REPORTED CAUSE OF DEATH
71 72	NUMBER OF RECORDED INJURIES FOR THIS OCCUPANT
73	AUTOMATIC BELT AVAILABILITY
74	AUTOMATIC BELT USE
75	AUTOMATIC BELT TYPE
76	PROPER USE - AUTOMATIC BELT
77	AUTOMATIC BELT FAILURE MODE
78	MAXIMUM KNOWN A1S
79 80	INJURY SEVERITY SCORE

OCCUPANT INJURY FORM

1	PSU NUMBER
3 4 5 6	CASE NUMBER
7 8	RECORD NUMBER (61)
9	VERSION NUMBER
	VEHICLE NUMBER
12 13	OCCUPANT NUMBER
	INJURY NUMBER
16	SOURCE OF INJURY DATA
	BODY REGION
18	ASPECT
19	LESION
20	SYSTEM ORGAN
	AIS SEVERITY
22 23	INJURY SOURCE
24	CONFIDENCE LEVEL
25	DIRECT/INDIRECT INJURY
-	OCCUPANT AREA INTRUSION NUMBER
	

SECTION 6 SAS FILE

NASS data are available in the form of a Statistical Analysis System (SAS) file. SAS is a highly flexible statistical package that provides a high level programming language for effective matrix manipulation and data management facilities.

SAS is a non-hierarchial data base. The SAS data base for NASS consists of seven individual data sets, corresponding to the six NASS CDS data collection records. The exception is the Accident record which is broken into Accident and Accident Event data sets. The other data sets are General Vehicle, External Vehicle, Internal Vehicle, Occupant Assessment and Occupant Injury. Using modified relational database concepts, SAS allows the natural hierarchial structure of NASS data to be fully explored by the analyst. An analyst can create a new SAS data set by merging data from several levels of the NASS hierarchy--e. g., vehicle and occupant levels--through use of an appropriate set of SAS commands within the DATA step.

SAS Date Base Contents

The variable names in the NASS/SAS data base are from the data collection forms or derived variables and are limited to eight characters. The SAS data base is generally an exact representation of the data contained on the NASS master file. The only exceptions are the following:

- Numeric variables for which 9, 99, etc. represent "unknown" are recoded to the SAS special missing value .U ("dot-u") and are not included in percentage tabulations;
- The value of 95 ("test refused") for Alcohol Test Result For Driver (ALCTEST) has been recoded to .B; the value of 96 ("none given") has been recoded to .C; the value of 97 ("performed, results unknown") has been recoded to .D; the value of 98 ("no driver present") has been recoded to .E; and the value of 99 ("unknown") has been recoded to .U, these values are not included in percentage tabulations;
- Missing data for numeric values are recoded as " " in SAS and are not included in percentage tabulations;
- Values for derived variables which cannot be computed due to conditions where a form is not completed e.g., non CDS applicable vehicle, non towed CDS applicable non AOPS vehicle, have been recoded to .N ("not coded"),
- Hour of Day (Time) is stored as a SAS time value and has an output format of HHMM5.

PSU NUMBER (PSU), CASE NUMBER-STRATUM (CASEID) and CASE SEQUENCE NUMBER (CASENO) are identical variables across all NASS records. CASENO is the first three digits of CASEID. Therefore, PSU and either CASENO or CASEID can be used to merge NASS record levels. Similarly, VEHICLE NUMBER (VEHNO) is identical in the General Vehicle, External Vehicle, Internal Vehicle, Occupant Assessment and Occupant Injury record levels and can be used to merge these records in the DATA step

The remainder of this Section presents the SAS layout for the current year NASS Analysis file. In general, the order of variables in the SAS data sets follows the order of data fields on the master file (and thus the order of items on the data collection forms used by NASS investigation teams). The user can invoke PROC CONTENTS to produce the following list of SAS variables:

ONTENTO FROM ELUPE As AG of MINDARY DIPERTORY

11MAII	MEMI7PF	#C3,
ACCILENT	DATA	4718
EMENT	PATA	3 → 1
G.	DATA	31.79
υA	UATA	19823
01	DATA	26573
', F	DAIA	3975
1 1	DAIA	5411

CONTENTS OF SAG MEMBER SAS91 ACCIDENT ALPHABETIC LIST OF VAPIABLES AND AITRIBUTES

#	VARIABLE	TiFb	LENGIH	POSITION	FORMAT	INFORMAT	LABEL
13	AAIS	NUM	2	3.2			MAXIMUM KNOWN AIS IN ACCIDEN!
15	AINJSEP	NUM	2	36			NUMBER OF SEPIOUSLY INJUFED OCCUPANTS
16	AINJURED	NUM	2	3.8			TOTAL NUMBER OF INJUPED OCCUPANTS
14	ALCIND	MUM	2	3.4			ALCOHOL INVOLVED IN ACCIDENT
c	AOPSEAT	NUM	2	14			SS14 SPECIAL STUDIES CASE (AOPSFAI)
1	AIPEAΓ	NUM	2	3.0			MAXIMUM TREATMENT IN ACCIDENT
2	CASEID	'HAP	4	6			CASE NUMBER STRATUM
3	CASENO	NUM	3	10			CAJE SEQUENCE NUMBER
1 /	DAYWEEK	NUM	2	40			DAY OF WEEK OF ACCIDENT
2.1	DRGINV	MUM	2	50			DRUG INVOLVED
1.1	EVENIS	MUM	2	.`8			NUMBER OF RECORDED EVENIS IN ACCIDENT
27	MANCOLL	NUM	2	6.2			MANNER OF COLLISION
В	MONIH	NUM	2	20			MONTH OF ACCIDENT
19	NATWGI	NUM	6	48			NATIONAL INFLATION FACTOR
1	PSU	NUM	2	4			PPIMARY SAMPLING UNIT NUMBER
18	PSUWGT	II IM	6	4.2	8 3		PSU INFLATION FACTOR
, 0	RATWCT	NUM	6	54			PATIO INFLATION FACTOR
4	STRATIF	CHAR	1	13			CASE STRATUM
10	TIME	NUM	4	24			TIME OF ACCIDENT
7	VEHFORMS	NUM	2	1.8			NUMBER GENERAL VEHICLE FORMS SUBMITTED
€2	VERSION	NUM	2	16			VERSION NUMBER
9	YEAR	NUM	2	ے 2			YFAR OF ACCIDENT

CONTENTS OF SAS MEMBER SAS91 ACCIDENT LIST OF VARIABLES AND ATTRIBUTES BY POSITION

Ħ	VARIABLE	T: PE	LENGIH	POSITION	FORMAT	INFORMAT	LABEL
i	PSU	NUM	2	4			PRIMARY GAMPLING UNIT NUMBER
	CASEID	CHAR	4	6			CASE NUMBER STRATUM
,	CASENO	1/11/11	3	10			CASE SEQUENCE NUMBER
4	STRAFIF	/ HAP	1	1.3			CASE STPATUM
г,	AOPSEAT	MHI		14			3514 SPECIAL STUDIES CASE (AOPSEAT)
fs.	VERSION	NUM	2	16			JEPSION NUMBER
	VEHEORMS	N IM	2	18			NUMBER SENERAL VEHICLE FORMS SUBMITTED
ਰੇ	MONIH	Meth	_2	20			MONTH OF ACCIDENT
4	r EAP	NUM	2	22			YEAR OF ACCIDENT
10	TIME	NUM	4	24			TIME OF ACCIDENT
11	EVENTS	MUM	2	28			NUMBER OF PECORDED EVENTS IN ACCIDENT
1.7	ATPFAT	111114	2	30			MAXIMUM IPEATMENT IN ACCIDENT
13	AA1 J	HUM	2	3.			MAXIMUM ENOWN ALS IN ACCIDENT
14	ALCINV	NUM	2	34			ALCOHOL INVOLVED IN ACCIDENT
11,	AINJSEP	III.IM	2	36			NUMBER OF SERIOUSLY INJURED OCCUPANIS
14	AINJUPEN	[1 [M	2	38			TOTAL NUMBER OF INJUPEL OCCUPANTS
17	DATWEFF	21171	2	4.0			DAY OF WEEK OF ACCIDENT
1.8	PSNWGT	•11 IM	'n	4 7	8 3		FOU INFLATION FACTOR
19	NAIW/ [NUM	6	14			NATIONAL INFLATION FACTOR
20	PAIWGI	111111	6	54			PATIO INFLATION FACIOR
2.1	DRGINV	Mr.W	2	50			Dend INAULTED
* -	MANCOLL	NUL	2	6.2			MANNER OF COLLISION

CONTENTS OF SAS MEMBER SASHI EVEN

----ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES-----LENGTH POSITION FORMAT INFORMAT # VARIABLE TYPE LABEL ACCIDENT EVENT SEQUENCE NUMBER 6 ACCSEQ NUM 2 16 2 CASEID CHAR 6 CASE NUMBER - STRATUM CASE SEQUENCE NUMBER 3 CASENO NUM 3 10 NUM 20 CLASS OF FIRST VEHICLE 8 CLASSI 2 CLASS OF OTHER VEHICLE 11 CLASS2 NUM 25 GENERAL AREA OF DAMAGE FIRST VEHICLE 9 GADEV1 CHAR 1 22 GENERAL AREA OF DAMAGE OTHER VEHICLE 12 GADEV2 CHAR 1 27 NATIONAL INFLATION FACTOR 28 13 NATWGT NUM 6 10 OBJCONT NUM 2 23 OTHER VEHICLE NUMBER OR OBJECT CONTACTED PRIMARY SAMPLING UNIT NUMBER 1 PSU NUM 2 4 14 PSUWGT NUM 34 8.3 PSU INFLATION FACTOR 6 RATIO INFLATION FACTOR 15 RATWGT NUM 6 40 CASE STRATUM 4 STRATIF CHAR 1 13 VEHICLE NUMBER 7 VEHNUM NUM 2 18 VERSION NUMBER

5 VERSION NUM

2

14

CONTENTS OF SAS MEMBER SAS91.EVENT

----LIST OF VARIABLES AND ATTRIBUTES BY POSITION----

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
1	PSU	NUM	2	4			PRIMARY SAMPLING UNIT NUMBER
2	CASEID	CHAR	4	6			CASE NUMBER - STRATUM
3	CASENO	NUM	3	10			CASE SEQUENCE NUMBER
4	STRATIF	CHAR	1	13			CASE STRATUM
5	VERSION	NUM	2	14			VERSION NUMBER
6	ACCSEQ	NUM	2	16			ACCIDENT EVENT SEQUENCE NUMBER
7	VEHNUM	NUM	2	18			VEHICLE NUMBER
8	CLASS1	NUM	2	20			CLASS OF FIRST VEHICLE
9	GADEV1	CHAR	1	22			GENERAL AREA OF DAMAGE FIRST VEHICLE
10	OBJCONT	NUM	2	23			OTHER VEHICLE NUMBER OR OBJECT CONTACTED
11	CLASS2	NUM	2	25			CLASS OF OTHER VEHICLE
12	GADEV2	CHAR	I	27			GENERAL AREA OF DAMAGE OTHER VEHICLE
13	NATWGT	NUM	6	28			NATIONAL INFLATION FACTOR
14	PSUWGT	NUM	6	34	8.3		PSU INFLATION FACTOR
15	RATWGT	NUM	6	40			RATIO INFLATION FACTOR

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CONTENTS OF SAS MEMBER SAS91 GV
----ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES-----

				VARIABLES AND ATTRIBUTES
# VARIABLE TYPE		POSITION	FORMAT INFORMAT	LABEL
22 ACCTYPE NUM	2	69		ACCIDENT TYPE
19 ALCTEST NUM	2	63		ALCOHOL TEST RESULT FOR DRIVER
35 ANGOTHER NUM	3	98		HEADING ANGLE FOR OTHER VEHICLE
34 ANGTHIS NUM	3	95		HEADING ANGLE FOR THIS VEHICLE
5 ADPSVEH NUM	2	24		AOPS VEHICLE
14 BODYTYPE NUM	2	45		VEHICLE BODY TYPE
27 CARGOWGT NUM	3	80		VEHICLE CARGO WEIGHT
6 CASEID CHAR	4	26		CASE NUMBER - STRATUM
7 CASENO NUM	3	30		CASE SEQUENCE NUMBER
30 CONDTREE NUM	2	87		POST COLLISION CONDITION OF TREE OR POLE
26 CURBWGT NUM	3	77		VEHICLE CURB WEIGHT
29 DOCTRAJ NUM	2	85		DOCUMENTATION OF TRAJECTORY DATA
18 DRINKING NUM	2	61		POLICE REPORTED ALCOHOL PRESENCE
46 DRIVE NUM	2	122		FRONT/REAR WHEEL DRIVE
23 DRPRES NUM	2	71		DRIVER PRESENCE IN VEHICLE
51 DRUGS NUM	2	133		POLICE REPORTD OTHER DRUG PRESENCE
36 DVBASIS NUM	2	101		BASIS FOR TOTAL DELTA V (HIGHEST)
41 DVCONFID NUM	2	112		CONFIDENCE IN RECONSTRUCTION
				LATERAL COMPONENT OF DELTA V
39 DVLAT NUM	2	107		LONGITUDINAL COMPONENT OF DELTA V
38 DVLONG NUM	2	105		
37 DVTOTAL NUM	2	103		TOTAL DELTA V
40 ENERGY NUM	3	109		ENERGY ABSORPTION
32 FOVERIDE NUM	2	91		FRONT OVERRIDE/UNDERRIDE THIS VEHICLE
42 INSPTYPE NUM	2	114		TYPE OF VEHICLE INSPECTION
12 MAKE NUM	2	40		VEHICLE MAKE
21 MANEUVER NUM	2	67		ATTEMPTED AVOIDANCE MANEUVER
13 MODEL NUM	3	42		VEHICLE MODEL
11 MODELYR NUM	2	38		VEHICLE MODEL YEAR
2 NATWGT NUM	6	10		NATIONAL INFLATION FACTOR
62 OBSCNAB NUM	2	155		CANNABINOID DRUG OBS/PERC TEST RES
56 OBSDEPR NUM	2	143		DEPRESSANT DRUG OBS/PERC TEST RES
60 OBSHLUC NUM	2	151		HALLUCINOGEN DRUG OBS/PERC TEST RES
66 OBSINHL NUM	2	163		INHALANT DRUG OBS/PERC TEST RES
54 OBSNARC NUM	2	139		NARCOTIC DRUG OBS/PERC TEST RES
68 OBSOTH NUM	2	167		OTHER DRUG. OVS/PERC TEST RES
64 DBSPCP NUM	2	159		PHENCYCLIDINE DRUG OBS/PERC TEST RES
58 OBSSTIM NUM	2	147		STIMULANT DRUG OBS/PERC TEST RES
52 OBSTEST NUM	2	135		OBS/PERC TEST TYPE FOR DRIVER
25 OCCFORMS NUM	2	75		NUMBER OF OCCUPANT FORMS SUBMITTED
24 OCUPANTS NUM	2	73		NUMBER OF OCCUPANTS THIS VEHICLE
49 OTBDYTYP NUM	2	129		BODY TYPE OF THE OTHER VEHICLE
48 OTVEHWGT NUM	3	126		WEIGHT OF THE OTHER VEHICLE
4 PSU NUM	2	22		PRIMARY SAMPLING UNIT NUMBER
1 PSUWGT NUM	6		8.3	PSU INFLATION FACTOR
3 RATWGT NUM	6	16	0.0	RATIO INFLATION FACTOR
31 ROLLOVER NUM	2	89		ROLLOVER
33 ROVERIDE NUM	2	93		REAR OVERRIDE/UNDERRIDE THIS VEHICLE
63 SPECCNAB NUM	2	157		CANNABINOID DRUG: SPECIMEN TEST RESULTS
57 SPECDEPR NUM	2	145		DEPRESSANT DRUG: SPECIMEN TEST RESULTS
61 SPECHLUC NUM	2	153		HALLUCINDGEN DRUG: SPECIMEN TEST RESULTS
67 SPECINHL NUM	2	165		INHALANT DRUG: SPECIMEN TEST RESULTS
55 SPECNARC NUM	2	141		NARCOTIC DRUG: SPECIMEN TEST RESULTS
69 SPECOTH NUM	2	169		OTHER DRUG: SPECIMEN TEST RESULTS
				PHENCYCLIDINE DRUG SPECIMEN TEST RESULT
65 SPECPCP NUM 59 SPECSTIM NUM	2	161		STIMULANT DRUG SPECIMEN TEST RESULTS
-	2	149		
53 SPECTEST NUM	2	137		OTHER DRUG SPECIMEN TEST TYPE FOR DRIVER
20 SPLIMIT NUM	2	65		SPEED LIMIT
8 STRATIF CHAR	1	33		CASE STRATUM
28 TOWHITCH NUM	2	83		TOWED TRAILING UNIT
16 TOWPAR NUM	2	57		POLICE REPORTED VEHICLE DISPOSITION
17 TRAVELSP NUM	2	59		POLICE REPORTED TRAVEL SPEED
50 VAIS NUM	2	131		MAXIMUM KNOWN AIS IN THIS VEHICLE
10 VEHNO NUM	2	36		VEHICLE NUMBER
9 VERSION NUM	2	34		VERSION NUMBER
15 VIN CHAR	10	47		VEHICLE IDENTIFICATION NUMBER
44 VINJSER NUM	2	118		NUMBER SERIOUSLY INJURED IN THIS VEHICLE
45 VINJURED NUM	2	120		NUMBER INJURED IN THIS VEHICLE
43 VINLNGTH NUM	2	116		VIN LENGTH
47 VTREAT NUM	2	124		MAXIMUM TREATMENT IN THIS VEHICLE

SAS CONTENTS OF SAS MEMBER SAS91 GV

		. 107	CONTENTS OF SAS MEMBER SASSI GV
♦ VARIABLE TYPE	LENCTH DO		OF VARIABLES AND ATTRIBUTES BY POSITION INFORMAT LABEL
1 PSUWGT NUM	6	SITION FORMAT 4 8 3	PSU INFLATION FACTOR
2 NATWGT NUM	6	10	NATIONAL INFLATION FACTOR
3 RATWGT NUM	6	16	RATIO INFLATION FACTOR
4 PSU NUM	2	22	PRIMARY SAMPLING UNIT NUMBER
5 AOPSVEH NUM	2	24	AOPS VEHICLE
6 CASEID CHAR	4	26	CASE NUMBER - STRATUM
7 CASENO NUM	3	30	CASE SEQUENCE NUMBER
8 STRATIF CHAR	1	33	CASE STRATUM
9 VERSION NUM	2	34	VERSION NUMBER
10 VEHNO NUM	2	36	VEHICLE NUMBER
11 MODELYR NUM	2	38	VEHICLE MODEL YEAR
12 MAKE NUM	2	40	VEHICLE MAKE
13 MODEL NUM	3	42	VEHICLE MODEL
14 BODYTYPE NUM	2	45	VEHICLE BODY TYPE
15 VIN CHAR	10	47	VEHICLE IDENTIFICATION NUMBER
16 TOWPAR NUM	2	57	POLICE REPORTED VEHICLE DISPOSITION
17 TRAVELSP NUM	2 2	59 61	POLICE REPORTED TRAVEL SPEED POLICE REPORTED ALCOHOL PRESENCE
18 DRINKING NUM 19 ALCTEST NUM	2	61 63	ALCOHOL TEST RESULT FOR DRIVER
20 SPLIMIT NUM	2	65	SPEED LIMIT
21 MANEUVER NUM	2	67	ATTEMPTED AVOIDANCE MANEUVER
22 ACCTYPE NUM	2	69	ACCIDENT TYPE
23 DRPRES NUM	2	71	DRIVER PRESENCE IN VEHICLE
24 OCUPANTS NUM	2	73	NUMBER OF OCCUPANTS THIS VEHICLE
25 OCCFORMS NUM	2	, 5 75	NUMBER OF OCCUPANT FORMS SUBMITTED
26 CURBWGT NUM	3	77	VEHICLE CURB WEIGHT
27 CARGOWGT NUM	3	80	VEHICLE CARGO WEIGHT
28 TOWHITCH NUM	2	83	TOWED TRAILING UNIT
29 DOCTRAJ NUM	2	85	DOCUMENTATION OF TRAJECTORY DATA
30 CONDTREE NUM	2	87	POST COLLISION CONDITION OF TREE OR POLE
31 ROLLOVER NUM	2	89	ROLLOVER
32 FOVERIDE NUM	2	91	FRONT OVERRIDE/UNDERRIDE THIS VEHICLE
33 ROVERIDE NUM	2	93	REAR OVERRIDE/UNDERRIDE THIS VEHICLE
34 ANGTHIS NUM	3	95	HEADING ANGLE FOR THIS VEHICLE
35 ANGOTHER NUM	3	98	HEADING ANGLE FOR OTHER VEHICLE
36 DVBASIS NUM	2	101	BASIS FOR TOTAL DELTA V (HIGHEST)
37 DVTOTAL NUM	2	103	TOTAL DELTA V
38 DVLONG NUM	2	105	LONGITUDINAL COMPONENT OF DELTA V
39 DVLAT NUM	2	107	LATERAL COMPONENT OF DELTA V
40 ENERGY NUM	3	109	ENERGY ABSORPTION
41 OVCONFID NUM	2	112	CONFIDENCE IN RECONSTRUCTION
42 INSPTYPE NUM 43 VINLNGTH NUM	2 2	11 4 116	TYPE OF VEHICLE INSPECTION VIN LENGTH
44 VINJSER NUM	2	118	NUMBER SERIOUSLY INJURED IN THIS VEHICLE
45 VINJURED NUM	2	120	NUMBER INJURED IN THIS VEHICLE
46 DRIVE NUM	2	122	FRONT/REAR WHEEL DRIVE
47 VTREAT NUM	2	124	MAXIMUM TREATMENT IN THIS VEHICLE
48 OTVEHWGT NUM	3	126	WEIGHT OF THE OTHER VEHICLE
49 OTBDYTYP NUM	2	129	BODY TYPE OF THE OTHER VEHICLE
50 VAIS NUM	2	131	MAXIMUM KNOWN AIS IN THIS VEHICLE
51 DRUGS NUM	2	133	POLICE REPORTD OTHER DRUG PRESENCE
52 OBSTEST NUM	2	135	OBS/PERC TEST TYPE FOR DRIVER
53 SPECTEST NUM	2	137	OTHER DRUG SPECIMEN TEST TYPE FOR DRIVER
54 OBSNARC NUM	2	139	NARCOTIC DRUG: OBS/PERC TEST RES
55 SPECNARC NUM	2	141	NARCOTIC DRUG: SPECIMEN TEST RESULTS
56 OBSDEPR NUM	2	143	DEPRESSANT DRUG: OBS/PERC TEST RES
57 SPECDEPR NUM	2	145	DEPRESSANT DRUG: SPECIMEN TEST RESULTS
58 OBSSTIM NUM	2	147	STIMULANT DRUG: OBS/PERC TEST RES
59 SPECSTIM NUM	2	149	STIMULANT DRUG: SPECIMEN TEST RESULTS
60 OBSHLUC NUM	2	151	HALLUCINOGEN DRUG: OBS/PERC TEST RES
61 SPECHLUC NUM	2	153	HALLUCINOGEN DRUG: SPECIMEN TEST RESULTS
62 OBSCNAB NUM 63 SPECCNAB NUM	2	155 157	CANNABINOID DRUG: OBS/PERC TEST RES
64 OBSPCP NUM	2 2	159	CANNABINOID DRUG: SPECIMEN TEST RESULTS
65 SPECPCP NUM	2	161	PHENCYCLIDINE DRUG: OBS/PERC TEST RES
66 OBSINHL NUM	2	163	PHENCYCLIDINE DRUG: SPECIMEN TEST RESULT
67 SPECINHL NUM	2	165	INHALANT DRUG: OBS/PERC TEST RES INHALANT DRUG: SPECIMEN TEST RESULTS
68 OBSOTH NUM	2	167	OTHER DRUG: DVS/PERC TEST RES
69 SPECOTH NUM	2	169	OTHER DRUG: DV3/PERC TEST RESULTS
35 5. 200 mm	•		WITHER DROG. STEELMEN TEST RESULTS

CONTENTS OF SAC MEMBER SAS91 VE

					A.PHABETIC .IST OF VAL	RIABLES AND ATTRIBUTES
#	VARIABLE	TYPE	LENGTH		FORMAT, INFORMAT	LABEL
	ACCSEQ1	NUM	2	18		ACCIDENT EVENT SEQUENCE (HIGHEST)
	ACCSEQ2	NUM	2			ACCIDENT EVENT SEQUENCE (2ND HIGHEST)
	ALTVEH	NUM	2			MULTI-STAGE MANUFACTURED/CERT ALT VEH
	CASEID	CHAR	4			CASE NUMBER - STRATUM
	CASENO	NUM	3	10		CASE SEQUENCE NUMBER
39	DOCCDC	NUM	2	90		CDCs DOCUMENTED BUT NOT CODED ON FILE?
	DOF1	NUM	2	22		DIRECTION OF FORCE (HIGHEST)
17	DOF2	NUM	2	34		DIRECTION OF FORCE (2ND HIGHEST)
	DVC1	NUM	3	45		CRUSH PROFILE C1 (HIGHEST)
25	DVC2	NUM	3	48		CRUSH PROFILE C2 (HIGHEST)
26	DVC3	NUM	3	51		CRUSH PROFILE C3 (HIGHEST)
27	DVC4	NUM	3	54		CRUSH PROFILE C4 (HIGHEST)
28	DVC5	NUM	3	57		CRUSH PROFILE C5 (HIGHEST)
29	DVC6	NUM	3	60		CRUSH PROFILE C6 (HIGHEST)
30	DVD	NUM	3	63		CRUSH PROFILE D (HIGHEST)
23	DVL	NUM	3	42		CRUSH PROFILE L (HIGHEST)
14	EXTENT1	NUM	2	28		DEFORMATION EXTENT (HIGHEST)
22	EXTENT2	NUM	2	40		DEFORMATION EXTENT (2ND HIGHEST)
46	FIRE	NUM	2	122		FIRE OCCURRENCE
47	FIREORIG	NUM	2	124		ORIGIN OF FIRE
48	FUELTANK	NUM	2	126		TYPE OF FUEL TANK
10	GAD1	CHAR	1	24		DEFORMATION LOCATION (HIGHEST)
18	GAD2	CHAR	1	36		DEFORMATION LOCATION (2ND HIGHEST)
42	NATWGT	NUM	6	102		NATIONAL INFLATION FACTOR
8	OBJCONT1	NUM	2	20		OBJECT CONTACTED (HIGHEST)
16	OBJCONT2	NUM	2	32		OBJECT CONTACTED (2ND HIGHEST)
1	PSU	NUM	2	4		PRIMARY SAMPLING UNIT NUMBER
43	PSU W GT	NUM	6	108	8 3	PSU INFLATION FACTOR
44	RATWGT	NUM	6			RATIO INFLATION FACTOR
	SDVC1	NUM	3			CRUSH PROFILE C1 (2ND HIGHEST)
	SDVC2	NUM	3			CRUSH PROFILE C2 (2ND HIGHEST)
34	SDVC3	NUM	3	75		CRUSH PROFILE C3 (2ND HIGHEST)
	SDVC4	NUM	3			CRUSH PROFILE C4 (2ND HIGHEST)
	SDVC5	NUM	3			CRUSH PROFILE C5 (2ND HIGHEST)
	SDVC6	NUM	3			CRUSH PROFILE C6 (2ND HIGHEST)
	SDVD	NUM	3			CRUSH PROFILE D (2ND HIGHEST)
	SDVL	NUM	3			CRUSH PROFILE L (2ND HIGHEST)
	SHL1	CHAR	1			SPECIFIC LONGITUDINAL LOCATION (HIGHEST)
	SHL2	CHAR	1			SPECIFIC LONGITUDINAL LOC. (2ND HIGHEST)
		CHAR	1			CASE STRATUM
	SVL1	CHAR	1	26		SPECIFIC VERTICAL LOCATION (HIGHEST)
	SVL2	CHAR	1			SPECIFIC VERTICAL LOCATION (2ND HIGHEST)
	TDD1	CHAR	1			TYPE OF DAMAGE DISTRIBUTION (HIGHEST)
	TDD2	CHAR	1			TYPE OF DAMAGE DISTRIBUTION(2ND HIGHEST)
	TOWRES	NUM	2			RESEARCHER ASSESSMNT VEHICLE DISPOSITION
	VEHNO	NUM	2			VEHICLE NUMBER
	VERSION	NUM	2			VERSION NUMBER
41	WHEELBAS	NUM	8	94		ORIGINAL WHEELBASE

CONTENTS OF SAS MEMBER SAS91 VE

----LIST OF VARIABLES AND ATTRIBUTES BY POSITION----# VARIABLE TYPE LENGTH POSITION FORMAT INFORMAT LABEL 2 1 PSU NUM 4 PRIMARY SAMPLING UNIT NUMBER 2 CASEID CHAR CASE NUMBER - STRATUM 6 3 CASENO NUM 10 CASE SEQUENCE NUMBER 4 STRATIF CHAR CASE STRATUM 1 13 5 VERSION NUM 2 14 **VERSION NUMBER** NUM VEHICLE NUMBER 6 VEHNO 2 16 7 ACCSEQ1 NUM 18 ACCIDENT EVENT SEQUENCE (HIGHEST) 8 OBJCONT1 NUM 20 OBJECT CONTACTED (HIGHEST) NUM DIRECTION OF FORCE (HIGHEST) 9 DOF1 2 22 10 GAD1 CHAR DEFORMATION LOCATION (HIGHEST) 1 24 CHAR SPECIFIC LONGITUDINAL LOCATION (HIGHEST) 11 SHL1 1 25 SPECIFIC VERTICAL LOCATION (HIGHEST) 12 SVL1 CHAR 26 1 TYPE OF DAMAGE DISTRIBUTION (HIGHEST) 13 TDD1 CHAR 27 NUM **DEFORMATION EXTENT (HIGHEST)** 14 EXTENT1 28 NUM 30 ACCIDENT EVENT SEQUENCE (2ND HIGHEST) 15 ACCSEQ2 OBJECT CONTACTED (2ND HIGHEST) 16 OBJCONT2 NUM 2 32 17 DOF2 DIRECTION OF FORCE (2ND HIGHEST) NUM 34 2 DEFORMATION LOCATION (2ND HIGHEST) CHAR 18 GAD2 36 19 SHL2 CHAR 37 SPECIFIC LONGITUDINAL LOC (2ND HIGHEST) 1 20 SVL2 CHAR 1 38 SPECIFIC VERTICAL LOCATION (2ND HIGHEST) TYPE OF DAMAGE DISTRIBUTION(2ND HIGHEST) 21 TDD2 CHAR 39 1 DEFORMATION EXTENT (2ND HIGHEST) 22 EXTENT2 NUM 2 40 23 DVL NUM 42 CRUSH PROFILE L (HIGHEST) 24 DVC1 NUM 45 CRUSH PROFILE C1 (HIGHEST) .3 25 DVC2 NUM 48 CRUSH PROFILE C2 (HIGHEST) CRUSH PROFILE C3 (HIGHEST) 26 DVC3 NUM 51 3 CRUSH PROFILE C4 (HIGHEST) 27 DVC4 NUM 3 54 NUM 57 CRUSH PROFILE C5 (HIGHEST) 28 DVC5 3 29 DVC6 NUM CRUSH PROFILE C6 (HIGHEST) .3 60 30 DVD NUM 3 63 CRUSH PROFILE D (HIGHEST) 31 SDVL CRUSH PROFILE L (2ND HIGHEST) NUM 3 66 NUM CRUSH PROFILE C1 (2ND HIGHEST) 32 SDVC1 3 69 CRUSH PROFILE C2 (2ND HIGHEST) 33 SDVC2 NUM 72 34 SDVC3 NUM CRUSH PROFILE C3 (2ND HIGHEST) 3 75 35 SDVC4 NUM 78 CRUSH PROFILE C4 (2ND HIGHEST) CRUSH PROFILE C5 (2ND HIGHEST) 36 SDVC5 NUM 3 81 37 SDVC6 NUM CRUSH PROFILE C6 (2ND HIGHEST) 3 84 CRUSH PROFILE D (2ND HIGHEST) 38 SDVD NUM 87 3 CDCs DOCUMENTED BUT NOT CODED ON FILE? 39 DOCCDC NUM 2 90 40 TOWRES NUM 2 92 RESEARCHER ASSESSMNT VEHICLE DISPOSITION ORIGINAL WHEELBASE 41 WHEELBAS NUM 8 94 42 NATWGT NUM 6 102 NATIONAL INFLATION FACTOR 43 PSUWGT NUM 6 108 8.3 PSU INFLATION FACTOR 44 RATWGT RATIO INFLATION FACTOR NUM 6 114 45 ALTVEH NUM 2 120 MULTI-STAGE MANUFACTURED/CERT. ALT. VEH. 46 FIRE NUM FIRE OCCURRENCE 122

47 FIREORIG NUM

48 FUELTANK NUM

124

126

ORIGIN OF FIRE

TYPE OF FUEL TANK

CONTENTS OF SAS MEMBER SAS91 VI ----ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES-----

					ALPHABETIC LIST OF	VARIABLES AND ATTRIBUTES
#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT INFORMAT	LABEL
95	BOLSTDEF	NUM	2	195		KNEE BOLSTER DEFORMED - OCCUPANT CONTACT
2	CASEID	CHAR	4	6		CASE NUMBER - STRATUM
3	CASENO	NUM	3	10		CASE SEQUENCE NUMBER
	CDRIR1	NUM	2	110		1ST DOMINANT CRUSH DIRECTION
	CDRIR2	NUM	2	118		2ND DOMINANT CRUSH DIRECTION
	CDRIR3	NUM	2	126		3RD DOMINANT CRUSH DIRECTION
65	CDRIR4	NUM	2	134		4TH DOMINANT CRUSH DIRECTION
69	CDRIR5	NUM	2	142		5TH DOMINANT CRUSH DIRECTION
73	CDRIR6	NUM	2	150		6TH DOMINANT CRUSH DIRECTION
77	CDRIR7	NUM	2	158		7TH DOMINANT CRUSH DIRECTION
81	CDRIR8	NUM	2	166		8TH DOMINANT CRUSH DIRECTION
	CDRIR9	NUM	2	174		9TH DOMINANT CRUSH DIRECTION
	CDRIR10	NUM	2	182		10TH DOMINANT CRUSH DIRECTION
	COLUMTYP		2	184		STEERING COLUMN TYPE
	FAILLF	NUM	2	30		LF DAMAGE/FAILURE ASSOCIATED W
	FAILLR	NUM	2	34		LR DAMAGE/FAILURE - OPENING IN COLLISION
14	FAILRF	NUM	2	32		RF DAMAGE/FAILURE - OPENING IN COLLISION
16	FAILRR	NUM	2	36		RR DAMAGE/FAILURE - OPENING IN COLLISION
17	FAILTG	NUM	2	38		TG DAMAGE/FAILURE - OPENING IN COLLISION
23	GLIMPBL	NUM	2	50		BL GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPLF	NUM	2	42		LF GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPLR	NUM	2	46		LR GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPOTH		2	54		OTHER GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPRF	NUM	2	44		RF GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPRR	NUM	2	48		RR GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPRUF		2	52		ROOF GLAZING DAMAGE FROM IMPACT FORCES
18	GLIMPWS	NUM	2	40		WS GLAZING DAMAGE FROM IMPACT FORCES
31	GLOCCBL	NUM	2	66		BL GLAZING DAMAGE FROM OCCUPANT CONTACT
27	GLOCCLF	NUM	2	58		LF GLAZING DAMAGE FROM OCCUPANT CONTACT
29	GLOCCLR	NUM	2	62		LR GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCOTH		2	70		OTHER GLAZING DAMAGE FROM OCC CONTACT
	GLOCCRF		2	60		RF GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCRR		2	64		RR GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCRUF		2	68		ROOF GLAZING DAMAGE FROM OCC CONTACT
	GLOCCWS					
			2	56		WS GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOVOPEN		2	197		DID GLOVE COMPARTMENT DOOR OPEN
		NUM	2	98		BL WINDOW PRECRASH GLAZING STATUS
43	GLPRELF	NUM	2	90		LF WINDOW PRECRASH GLAZING STATUS
45	GLPRELR	NUM	2	94		LR WINDOW PRECRASH GLAZING STATUS
49	GLPREOTH	NUM	2	102		OTHER WINDOW PRECRASH GLAZING STATUS
44	GLPRERF	NUM	2	92		RF WINDOW PRECRASH GLAZING STATUS
	GLPRERR	NUM	2	96		RR WINDOW PRECRASH GLAZING STATUS
	GLPRERUF		2	100		RODE WINDOW PRECRASH GLAZING STATUS
	GLPREWS	NUM	2	88		WS WINDOW PRECRASH GLAZING STATUS
		NUM	2	82		
	GLTYPLF					BL TYPE OF WINDOW/WINDSHIELD GLAZING
		NUM	2	74		LF TYPE OF WINDOW/WINDSHIELD GLAZING
3/	GLTYPLR	NUM	2	78		LR TYPE OF WINDOW/WINDSHIELD GLAZING

SAS CONTENTS OF SAS MEMBER SAS91 VI -ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES----

				-	ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES
#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT INFORMAT LABEL
41	GLTYPOTH	NUM	2	86	OTHER TYPE OF WINDOW/WINDSHIELD GLAZING
36	GLTYPRF	NUM	2	76	RF TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPRR	NUM	2	80	RR TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPRUF		2	84	ROOF TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPWS	NUM	2	72	WS TYPE OF WINDOW/WINDSHIELD GLAZING
	INCOMP1	NUM	2	106	1ST INTRUDING COMPONENT
	INCOMP2	NUM	2	114	2ND INTRUDING COMPONENT
	INCOMP3	NUM	2	122	3RD INTRUDING COMPONENT
	INCOMP3	NUM	2		4TH INTRUDING COMPONENT
		NUM	2	130	5TH INTRUDING COMPONENT
	INCOMPS			138	6TH INTRODING COMPONENT
	INCOMP6	NUM	2 2	146	7TH INTRUDING COMPONENT
	INCOMP7	NUM		154	
	INCOMP8	NUM	2	162	8TH INTRUDING COMPONENT
	INCOMP9	NUM	2	170	9TH INTRUDING COMPONENT
	INCOMP10		2	178	10TH INTRUDING COMPONENT
	INLOCI	NUM	2	104	1ST LOCATION OF INTRUSION
	INLOC2	NUM	2	112	2ND LOCATION OF INTRUSION
58	INLOC3	NUM	2	120	3RD LOCATION OF INTRUSION
62	INLOC4	NUM	2	128	4TH LOCATION OF INTRUSION
66	INLOC5	NUM	2	136	5TH LOCATION OF INTRUSION
70	INLOC6	NUM	2	144	6TH LOCATION OF INTRUSION
74	INLOC7	NUM	2	152	7TH LOCATION OF INTRUSION
78	INLOC8	NUM	2	160	8TH LOCATION OF INTRUSION
82	INLOC9	NUM	2	168	9TH LOCATION OF INTRUSION
86	INLOC10	NUM	2	176	10TH LOCATION OF INTRUSION
	INMAG1	NUM	2	108	1ST MAGNITUDE OF INTRUSION
	INMAG2	NUM	2	116	2ND MAGNITUDE OF INTRUSION
	I NMAG3	NUM	2	124	3RD MAGNITUDE OF INTRUSION
	INMAG4	NUM	2	132	4TH MAGNITUDE OF INTRUSION
	INMAG5	NUM	2	140	5TH MAGNITUDE OF INTRUSION
	INMAG6	NUM	2	148	6TH MAGNITUDE OF INTRUSION
	INMAG7	NUM	2	156	7TH MAGNITUDE OF INTRUSION
	INMAG8	NUM			8TH MAGNITUDE OF INTRUSION
			2	164	9TH MAGNITUDE OF INTRUSION
	INMAG9	NUM	2	172	10TH MAGNITUDE OF INTRUSION
	INMAG10	NUM	2	180	NATIONAL INFLATION FACTOR
	NATWGT	NUM	6	199	
	ODOMETER		3	190	ODOMETER READING
	OPENLF	NUM	2	20	LF DOOR, TAILGATE OR HATCH OPENING
	OPENLR	NUM	2	24	LR DOOR, TAILGATE OR HATCH OPENING
	OPENRF	NUM	2	22	RF DOOR, TAILGATE OR HATCH OPENING
	OPENRR	NUM	2	26	RR DOOR, TAILGATE OR HATCH OPENING
	OPENTG	NUM	2	28	TG DOOR, TAILGATE OR HATCH OPENING
	PANELDAM		2	193	INSTRUMENT PANEL DAMAGE - OCC. CONTACT
7	PASINTEG	NUM	2	18	PASSENGER COMPARTMENT INTEGRITY
1	PSU	NUM	2	4	PRIMARY SAMPLING UNIT NUMBER
98	PSUWGT	NUM	6	205	8 3 PSU INFLATION FACTOR
99	RATWGT	NUM	6	211	RATIO INFLATION FACTOR
92	RDEFLOC	NUM	2	188	LOCATION STEERING RIM/SPOKE DEFORMATION
91	RIMDEF	NUM	2	186	STEERING RIM/SPOKE DEFORMATION
4	STRATIF	CHAR	1	13	CASE STRATUM
6	VEHNO	NUM	2	16	VEHICLE NUMBER
5	VERSION	NUM	2	14	VERSION NUMBER

UA CONTENTS OF SAS MEMBER SASGI VI TICT OF MARIAGE FOAND ATTRIBUTES BY POSITION-

					LIST 0	F VAFIABLEL AND	ATTRIBUTES BY POSITION
#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
1	PSU	NUM	2	4			PRIMARY SAMPLING UNIT NUMBER
2	CASEID	CHAR	4	6			CASE NUMBER - STRATUM
3	CASENO	NUM	3	10			CASE SEQUENCE NUMBER
4	STRATIF	CHAR	1	13			CASE STRATUM
5	VERSION	NUM	2	14			VERSION NUMBER
	VEHNO	NUM	2	16			VEHICLE NUMBER
	PASINTEG		2	18			PASSENGER COMPARTMENT INTEGRITY
	OPENLF	NUM	2	20			LF DOOR, TAILGATE OR HATCH OPENING
	OPENRE	NUM	2	22			RF DOOR, TAILGATE OR HATCH OPENING
	OPENLR	NUM	2	24			LR DOOR, TAILGATE OR HATCH OPENING
	OPENRR	NUM	2	26			RR DOOR, TAILGATE OR HATCH OPENING
	OPENTG	NUM	2	28			TG DOOR, TAILGATE OR HATCH OPENING
	FAILLF	NUM	2	30			LF DAMAGE/FAILURE ASSOCIATED W
	FAILRF	NUM	2	32			RF DAMAGE/FAILURE - OPENING IN COLLISION
	FAILLR	NUM	2				LR DAMAGE/FAILURE - OPENING IN COLLISION
				34			RR DAMAGE/FAILURE - OPENING IN COLLISION
	FAILRR	NUM	2	36			
	FAILTG	NUM	2	38			TG DAMAGE/FAILURE - OPENING IN COLLISION
	GLIMPWS	NUM	2	40			WS GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPLF	NUM	2	42			LF GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPRF	NUM	2	44			RF GLAZING DAMAGE FROM IMPACT FORCES
		NUM	2	46			LR GLAZING DAMAGE FROM IMPACT FORCES
		NUM	2	48			RR GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPBL	NUM	2	50			BL GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPRUF		2	52			ROOF GLAZING DAMAGE FROM IMPACT FORCES
	GLIMPOTH		2	54			OTHER GLAZING DAMAGE FROM IMPACT FORCES
	GLOCCWS	NUM	2	56			WS GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCLF	NUM	2	58			LF GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCRF	NUM	2	60			RE GLAZING DAMAGE FROM OCCUPANT CONTACT
		NUM	2				LR GLAZING DAMAGE FROM OCCUPANT CONTACT
		NUM	2	64			RR GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCBL		2	66			BL GLAZING DAMAGE FROM OCCUPANT CONTACT
	GLOCCRUF		2	68			ROOF GLAZING DAMAGE FROM OCC CONTACT
	GLOCCOTH		2	70			OTHER GLAZING DAMAGE FROM DCC CONTACT
		NUM	2	72			WS TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPLF		2	74			LE TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPRF	NUM	2	76			RE TYPE OF WINDOW/WINDSHIELD GLAZING
		NUM	2	78			LR TYPE OF WINDOW/WINDSHIELD GLAZING
		NUM	2	80			RR TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPBL		2	82			BL TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPRUF		2	84			ROOF TYPE OF WINDOW/WINDSHIELD GLAZING
	GLTYPOTH		2	86			OTHER TYPE OF WINDOW/WINDSHIELD GLAZING
	GLPREWS	NUM	2	88			WS WINDOW PRECRASH GLAZING STATUS LF WINDOW PRECRASH GLAZING STATUS
	GLPRELF	NUM	2				RE WINDOW PRECRASH GLAZING STATUS
	GLPRERF		2	92			LR WINDOW PRECRASH GLAZING STATUS
	GLPRELR	NUM	2	94			
	GLPRERR		2				RR WINDOW PRECRASH GLAZING STATUS BL WINDOW PRECRASH GLAZING STATUS
	GLPREBL GLPRERUF	NUM	2	98 100			ROOF WINDOW PRECRASH GLAZING STATUS
	GLPREOTH						OTHER WINDOW PRECRASH GLAZING STATUS
_			2	102 104			1ST LOCATION OF INTRUSION
	INLOC1	NUM NUM	2	104			1ST INTRUDING COMPONENT
	INCOMP1 INMAG1	NUM	2	108			1ST MAGNITUDE OF INTRUSION
	CDRIR1	NUM	2	110			1ST DOMINANT CRUSH DIRECTION
	INLOC2	NUM	2	110			2ND LOCATION OF INTRUSION
	INCOMP2	NUM	2	114			2ND INTRUDING COMPONENT
	INCOMPZ INMAG2	NUM	2				2ND MAGNITUDE OF INTRUSION
JU	MINOL	11071		110			END THANKITODE OF THIRDSION

SAS CONTENTS OF SAS MEMBER SAS91 VI

					L:ST	0F	VARIABLES AND	ATTRIBUTES BY POSITION
#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT		INFORMAT	LABEL
57	CDRIR2	NUM	2	118				2ND DOMINANT CRUSH DIRECTION
58	INLOC3	NUM	2	120				3RD LOCATION OF INTRUSION
59	INCOMP3	NUM	2	122				3RD INTRUDING COMPONENT
60	INMAG3	NUM	2	124				3RD MAGNITUDE OF INTRUSION
61	CDR1R3	NUM	2	126				3RD DOMINANT CRUSH DIRECTION
62	INLOC4	NUM	2	128				4TH LOCATION OF INTRUSION
63	INCOMP4	NUM	2	130				4TH INTRUDING COMPONENT
64	INMAG4	NUM	2	132				4TH MAGNITUDE OF INTRUSION
65	CDRIR4	NUM	2	134				4TH DOMINANT CRUSH DIRECTION
66	INLOC5	NUM	2	136				5TH LOCATION OF INTRUSION
67	INCOMP5	NUM	2	138				5TH INTRUDING COMPONENT
68	INMAG5	NUM	2	140				5TH MAGNITUDE OF INTRUSION
69	CDRIR5	NUM	2	142				5TH DOMINANT CRUSH DIRECTION
70	INLOC6	NUM	2	144				6TH LOCATION OF INTRUSION
71	INCOMP6	NUM	2	146				6TH INTRUDING COMPONENT
72	INMAGE	NUM	2	148				6TH MAGNITUDE OF INTRUSION
73	CDRIR6	NUM	2	150				6TH DOMINANT CRUSH DIRECTION
74	INLOC7	NUM	2	152				7TH LOCATION OF INTRUSION
75	INCOMP7	NUM	2	154				7TH INTRUDING COMPONENT
76	INMAG7	NUM	2	156				7TH MAGNITUDE OF INTRUSION
77	CDRIR7	NUM	2	158				7TH DOMINANT CRUSH DIRECTION
78	INLOCB	NUM	2	160				8TH LOCATION OF INTRUSION
79	INCOMP8	NUM	2	162				8TH INTRUDING COMPONENT
80	INMAG8	NUM	2	164				8TH MAGNITUDE OF INTRUSION
81	CDRIR8	NUM	2	166				8TH DOMINANT CRUSH DIRECTION
82	INLOC9	NUM	2	168				9TH LOCATION OF INTRUSION
83	1NCOMP9	NUM	2	170				9TH INTRUDING COMPONENT
84	INMAG9	NUM	2	172				9TH MAGNITUDE OF INTRUSION
85	CDRIR9	NUM	2	174				9TH DOMINANT CRUSH DIRECTION
86	INLOC10	NUM	2	176				10TH LOCATION OF INTRUSION
87	INCOMP10	NUM	2	178				10TH INTRUDING COMPONENT
88	INMAG10	NUM	2	180				10TH MAGNITUDE OF INTRUSION
89	CDRIR10	NUM	2	182				10TH DOMINANT CRUSH DIRECTION
90	COLUMTYP	NUM	2	184				STEERING COLUMN TYPE
91	RIMDEF	NUM	2	186				STEERING RIM/SPOKE DEFORMATION
92	RDEFLOC	NUM	2	188				LOCATION STEERING RIM/SPOKE DEFORMATION
93	ODOMETER	NUM	3	190				ODOMETER READING
94	PANELDAM	NUM	2	193				INSTRUMENT PANEL DAMAGE - OCC. CONTACT
95	BOLSTDEF	NUM	2	195				KNEE BOLSTER DEFORMED - OCCUPANT CONTACT
96	GLOVOPEN	NUM	2	197				DID GLOVE COMPARTMENT DOOR OPEN
97	NATWGT	NUM	6	199				NATIONAL INFLATION FACTOR
98	PSUWGT	NUM	6	205	8.3			PSU INFLATION FACTOR
99	RATWGT	NUM	6	211				RATIO INFLATION FACTOR

A CONTENT OF AT MEMBER SASS. OA

					ALPHABETIC . IIT OF	VARIABLES AND ATTRIBUTES
#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT INFORMAT	
	ABELTAVL		2		•	AUTOMATIC BELT SYSTEM AVAILABILITY/FUNC
53	ABELTUSE	NUM	2			AUTOMATIC BELT (PASSIVE) SYSTEM USE
54	ABELTYPE	NUM		126		AUTOMATIC (PASSIVE) BELT SYSTEM TYPE
56	ABLTFAIL	NUM	2	130		AUTOMATIC (PASSIVE) BELT SYSTEM FAILURE
55	ABLTPROP	NUM	2	130 128		PROPER USE OF AUTO (PASSIVE) BELT SYSTEM
		NUM		20		AGE OF OCCUPANT
24	BAGAVAIL			53		AIR BAG SYSTEM AVAILABILITY
	BAGDEPLY			55		AIR BAG SYSTEM DEPLOYED
	BAGFAIL			57		AIR BAG SYSTEM FAILURE
	CASEID		4	6		CASE NUMBER - STRATUM
3	CASENO	NUM	3	20 53 55 57 6 10 92		CASE SEQUENCE NUMBER
43	CAUSE1	NUM		92		1ST MEDICALLY REPORTED CAUSE OF DEATH
44	CAUSE2	NUM	2	94		2ND MEDICALLY REPORTED CAUSE OF DEATH
45	CAUSE3	NUM	2	96		3RD MEDICALLY REPORTED CAUSE OF DEATH
34	CHHARNES	NUM	2	74		CHILD SAFETY SEAT HARNESS USAGE
31	CHMAKE	NUM	3	67		CHILD SAFETY SEAT MAKE/MODEL
33	CHORIENT	NUM	2	72		CHILD SAFETY SEAT DRIENTATION
35	CHSHIELD	NUM	2	76		CHILD SAFETY SEAT SHIELD USAGE
36	CHTETHER	NUM	2	78		CHILD SAFETY SEAT TETHER USAGE
32	CHTYPE	NUM	2	70		TYPE OF CHILD SAFETY SEAT
42	DEATH	NUM	2	90		TIME TO DEATH
16	EJCTAREA	NUM	2	92 94 96 74 67 72 76 78 70 90 37 39		EJECTION AREA
17	EJCTMED	NUM	2	39		EJECTION MEDIUM
15	EJECTION	NUM	2	35		EJECTION
19	ENTRAP	NUM	2	43		ENTRAPMENT
28	HEADREST	NUM		43 61 24 86 98		HEAD RESTRAINT TYPE/DAMAGE BY OCCUPANT
10	HEIGHT	NUM	2	24		HEIGHT OF OCCUPANT
40	HOSPSTAY	NUM		86		HOSPITAL STAY
46	INJNUM	NUM	2	98		NUMBER RECORDED INJURIES THIS OCCUPANT
37	INJSEV	NUM		90		INJURY SEVERITY (POLICE RATING)
48	ISS	NUM		102		INJURY SEVERITY SCORE
47	RIAM	NUM		100		MAXIMUM KNOWN OCCUPANT AIS
20	MANAVAIL	NUM		45		MANUAL BELT SYSTEM AVAILABILITY
23	MANFAIL	NUM		51		MANUAL BELT FAILURE MODE DURING ACCIDENT
	MANPROPR			49		PROPER USE OF MANUAL BELTS
		NUM	2			MANUAL BELT SYSTEM USE
	MEDFACIL			84 41		TYPE MEDICAL FACILITY INITIAL TREATMENT
		NUM	2			MEDIUM STATUS (PRIOR TO IMPACT)
		NUM	6			NATIONAL INFLATION FACTOR
		NUM	2	18		OCCUPANT NUMBER
		NUM	2			POLICE REPORTED RESTRAINT USE
	POSTURE			33		OCCUPANT'S POSTURE
		NUM	2			PRIMARY SAMPLING UNIT NUMBER
		NUM		110	8 3	PSU INFLATION FACTOR
		NUM	6			RATIO INFLATION FACTOR
	ROLE	NUM	2	29		OCCUPANT'S ROLE
	SEATPERF		2	65		SEAT PERFORMANCE (THIS POSITION)
	SEATPOS		2	31		OCCUPANT'S SEAT POSITION
	SEATTYPE		2	63		SEAT TYPE (THIS OCCUPANT POSITION)
	SEX	NUM	2	22		OCCUPANT'S SEX
			1	13		CASE STRATUM
	TREATMNT		2	82		TREATMENT - MORTALITY
	VEHNO	NUM	2	16		VEHICLE NUMBER
	VERSION		2	14		VERSION NUMBER
	WEIGHT	NUM	3	26		OCCUPANT'S WEIGHT WORKING DAYS LOST
41	WORKDAYS	NUM	2	8 8		MOKETUR DATA FOR

SAS CONTENTS OF SAS MEMBER SAS91 DA GE VARIABLES AND ATTRIBUTES BY POSITION

PYMARIABLE TYPE						-1157 0	F VARIABLES AND	ATTRIBUTES BY POSITION
2 CASE ID CHAR 4 6 CASE NUMBER - STRATUM 3 100 CASE SCOURCE NUMBER STRATUM 4 STRATUF CHAR 1 1 13 CASE STOURCE NUMBER STRATUM 5 VERSION NUM 2 14 WERSION NUMBER STRATUM 6 VERNO NUM 2 15 WERSION NUMBER STRATUM 6 VERNO NUMBER STRATUM 7 WERSION NUMBER STRATUM 7 WERE	#	VARIABLE	TYPE	LENGTH	FCS1TION	FORMAT	INFORMAT	LABEL
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A STRATIF CHAR 1 133 CASE STRATUM 5 VERNION NUM 2 114 VERSION NUMBER 6 VEHNO NUM 2 116 VERSION NUMBER 7 OCCION NUM 2 118 OCCUPANT NUMBER 8 AGE NUM 2 220 AGE OF OCCUPANT 1 9 SEX NUM 2 221 OCCUPANT SIMBER 11 VEIGHT NUM 3 26 OCCUPANT SIMBER 12 ROLE NUM 2 29 OCCUPANT STRATE 13 SEATPOS NUM 2 31 OCCUPANT SRIE 14 POSTURE NUM 2 33 OCCUPANT SEATPOSTITION 15 SIZCTION NUM 2 33 OCCUPANT SEATPOSTITION 16 EJOCTARCA NUM 2 33 OCCUPANT SOFTWARE 16 EJOCTARCA NUM 2 33 OCCUPANT SEATPOSTITION 16 EJOCTARCA NUM 2 33 OCCUPANT SEATPOSTITION 16 EJOCTARCA NUM 2 33 OCCUPANT SEATPOSTITION 17 EJOCTION NUM 2 33 OCCUPANT SEATPOSTITION 18 MEDISTA NUM 2 41 MEDIUM STATUS (PRIOR TO IMPACT) 19 ENTRAP NUM 2 43 EJICCTION MEDIUM 19 ENTRAP NUM 2 43 ENTRAPPENT 10 MANUAL BELLT SYSTEM AVAILABILITY 11 MANUAL BELLT SYSTEM AVAILABILITY 12 MANUSE NUM 2 45 MANUAL BELLT SYSTEM AVAILABILITY 12 MANUAL BELLT SYSTEM NUSE AND SYSTEM AVAILABILITY 13 MANUAL BELLT SYSTEM NUSE OF MANUAL BELTS 14 MANUAL BELT SYSTEM NUSE OF MANUAL BELTS 15 MANUAL BELT SYSTEM AVAILABILITY 16 MANUAL BELT SYSTEM NUSE OF MANUAL BELTS 17 MANUAL BELT SYSTEM NUSE OF MANUAL BELTS 18 MASSER NUM 2 53 AIR BAS SYSTEM AVAILABILITY 18 MANUAL BELT SYSTEM NUSE OF MANUAL BELTS 19 MANUAL BELT SYSTEM NUSE OF MANUAL BELTS 10 MANUAL BELT SYSTEM NUSE OF MANUAL BELT SYSTEM N	2	CASEID	CHAR	4	6			CASE NUMBER - STRATUM
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9 SEX	7	OCCNO	NUM	2	18			OCCUPANT NUMBER
10 HEIGHT NUM	8	AGE	NUM	2	20			AGE OF OCCUPANT
11 VEIGHT	9	SEX	NUM	2	22			OCCUPANT'S SEX
12 ROLE	10	HEIGHT	NUM	2	24			HEIGHT OF OCCUPANT
13 SEATPOS NUM 2 31 OCCUPANT'S SEAT POSITION	11	WEIGHT	NUM	3	26			OCCUPANT'S WEIGHT
14 POSTURE	12	ROLE	NUM	2	29			
15 EJECTION NUM	13	SEATPOS	NUM	2	31			OCCUPANT'S SEAT POSITION
16 ELCTAREA NUM	14	POSTURE	NUM	2	33			OCCUPANT'S POSTURE
17 ELCTMED				2	35			EJECTION
18 HEDSTA	16	EJCTAREA	NUM	2	37			EJECTION AREA
19 ENTRAP NUM	17	EJCTMED	NUM	2	39			EJECTION MEDIUM
19 ENTRAP NUM	18	MEDSTA	NUM	2	41			MEDIUM STATUS (PRIOR TO IMPACT)
21 MANUSE NUM 2 49 PROPER USE OF MANUAL BELT SYSTEM USE 22 MANPROPR NUM 2 49 PROPER USE OF MANUAL BELTS 23 MANFAIL NUM 2 51 MANUAL BELT FAILURE MODE DURING ACCIDENT 24 BAGAVAIL NUM 2 53 AIR BAG SYSTEM AVAILABILITY 25 BAGDEPLY NUM 2 55 AIR BAG SYSTEM PAILURE 26 BAGFAIL NUM 2 57 AIR BAG SYSTEM FAILURE 27 PARUSE NUM 2 59 POLICE REPORTEO RESTRAINT USE 28 HEADREST NUM 2 63 SEAT TYPE (THIS OCCUPANT POSITION) 30 SEATPER NUM 2 63 SEAT PERFORMANCE (THIS POSITION) 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 72 CHILD SAFETY SEAT MAKE/MODEL 33 CHBIENT NUM 2 72 CHILD SAFETY SEAT RENEASS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT HARNESS USAGE 36 CHETHER NUM 2 78 CHILD SAFETY SEAT THERE SUSAGE 36 CHTETHER NUM 2 78 CHILD SAFETY SEAT THERE USAGE 37 INJSEV NUM 2 82 NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMNT NUM 2 82 TREATMNT NUM 2 82 TREATMNT NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 43 CAUSE1 NUM 2 96 SARD WORKING DAYS LOST 44 CAUSE2 NUM 2 98 NUMBER RECORDED INJURY SEVERITY (POLICE RATING) 45 CAUSE3 NUM 2 96 SARD WORKING DAYS LOST 47 MAIS NUM 2 98 NUMBER RECORDED INJURE STAY 47 MAIS NUM 2 98 NUMBER RECORDED INJURE STAY 48 ISS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 51 RATWOT NUM 6 110 8.3 PSU INFLATION FACTOR 52 ABELTAYE NUM 2 124 AUTOMATIC BELT SYSTEM WSE 54 ABELTYPE NUM 2 126 PROPER USE OF AUTO (PASSIVE) BELT SYSTEM SEE	19	ENTRAP	NUM	2	43			
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----ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES----# VARIABLE TYPE LENGTH POSITION FORMAT INFORMAT LABEL 14 AIS NUM 2 28 A I S SEVERITY (O I C - A I S) ASPECT (0.1 C. - A.I S) 11 ASPECT CHAR 25 1 10 BODYREG CHAR BODY REGION (O.I.C - A.I.S.) CHAR 2 CASEID 4 -6 CASE NUMBER - STRATUM 3 CASENO NUM 10 CASE SEQUENCE NUMBER 17 DIRINJ NUM DIRECT/INDIRECT INJURY 34 8 INJNO NUM 20 INJUR Y NUMBER 15 INJSOU NUM 30 INJURY SOURCE OCCUPANT AREA INTRUSION NO. 18 INTRUNO NUM 2 36 CHAR LESION (O I C - A I.S.) 12 LESION 1 26 NATIONAL INFLATION FACTOR 19 NATWGT NUM 6 38 OCCUPANT NUMBER 7 OCCNO NUM 2 18 PRIMARY SAMPLING UNIT NUMBER 1 PSU NUM 4 20 PSUWGT NUM 6 44 8 3 PSU INFLATION FACTOR 21 RATWGT NUM 50 RATIO INFLATION FACTOR 16 SOUCON NUM INJURY SOURCE CONFIDENCE LEVEL 2 32 9 SOUDAT NUM SOURCE OF INJURY DATA 2 22 CASE STRATUM 4 STRATIF CHAR 13 13 SYSORG CHAR 27 SYSTEM/ORGAN (O.I.C - A.I.S) 1 6 VEHNO NUM 16 VEHICLE NUMBER 5 VERSION NUM VERSION NUMBER 14 SAS CONTENTS OF SAS MEMBER SAS91.01 ----LIST OF VARIABLES AND ATTRIBUTES BY POSITION----# VARIABLE TYPE LENGTH POSITION FORMAT INFORMAT LABEL 4 PRIMARY SAMPLING UNIT NUMBER 2 2 CASEID CHAR 6 CASE NUMBER - STRATUM Δ 3 CASENO CASE SEQUENCE NUMBER NUM 3 10 CASE STRATUM 4 STRATIF CHAR 1 13 5 VERSION NUM VERSION NUMBER 2 14 6 VEHNO NUM 16 VEHICLE NUMBER 7 OCCNO OCCUPANT NUMBER NUM 2 18 8 INJNO NUM INJUR Y NUMBER 2 20 9 SOUDAT SOURCE OF INJURY DATA NUM 2 22 10 BODYREG CHAR BODY REGION (O I.C - A.I.S.) 1 24 11 ASPECT CHAR ASPECT (O I C. - A.I.S.) 1 25 12 LESION CHAR 1 26 LESION (O I C. - A I.S) 13 SYSORG CHAR 27 SYSTEM/ORGAN (O.I.C. - A.I.S) 14 AIS NUM 28 A I.S SEVERITY (O.I.C. - A.I.S.) 2 15 INJSOU NUM INJURY SOURCE 16 SOUCON NUM 2 INJURY SOURCE CONFIDENCE LEVEL 32 17 DIRINJ NUM DIRECT/INDIRECT INJURY 2 34 NUM 18 INTRUNO OCCUPANT AREA INTRUSION NO. 2 36

19 NATWGT

20 PSUWGT

21 RATWGT

NUM

NUM

NUM

6

6

38

50

44 8.3

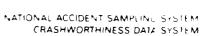
NATIONAL INFLATION FACTOR

PSU INFLATION FACTOR

RATIO INFLATION FACTOR

APPENDIX A

DATA COLLECTION FORMS





US Department of Transportation

National	Highway	Traffic	Safety
140,101101			,

Primary Com	ipling Unit Num	her		SPECIAL ST	UDIES INDIC	ATORS
Case Numbe	-	1061	,	Check () each speci		
				that has been comple special studies and 0		
	IDENTIFICAT	ION		checked		
Number of G	ieneral Vehicle ⁱ	1		6SS12 Not Act	liv e	-
Forms Subm	itted			7SS13 Not Ac	tive	
Date of Accid		, , , , , ,	1	8SS14		
				9SS15		
Time of Accid	dent d military time	of accident		10S\$16		
NOTE Midni		or accident			ED OF EVEN	
	own - 9999			NUMB	ER OF EVEN	ıs
				11 Number of Records in This Accident	ed Events	
			ŀ			
			I	Code the number o this accident	if events which o	ccurrea ir
	that occurred in vehicle or object	the accident, cod	CIDENT E	this accident		
		the accident, cod		this accident VentS Vehicle Number or		
ther involved v coldent Event Sequence Number	vehicle or object	the accident, cod on the right Class of	e the lowes General Area of	this accident VENTS I numbered vehicle in the Vehicle Number or Object Contacted	he left columns a	General Area of
ther involved vecident Event Sequence Number	vehicle or object Vehicle Number	the accident, cod on the right Class of Vehicle	General Area of Damage	this accident VENTS t numbered vehicle in the Vehicle Number or Object Contacted	ne left columns a Class of Vehicle	General Area of Damuge
ther involved vecident Event Sequence Number	Vehicle or object Vehicle Number 13	the accident, cod on the right Class of Vehicle 14	General Area of Damage	this accident EVENTS I numbered vehicle in the Vehicle Number or Object Contacted 16	Class of Vehicle	General Area of Damuge
ccident Event Sequence Number 2. 0 1 9. 0 2	Vehicle or object Vehicle Number 13 20	the accident, cod on the right Class of Vehicle 14	General Area of Damage	this accident Vental Number or Object Contacted 16	Class of Vehicle 17 24 31	General Area of Damuge

HS Form 434 (Rev. 1/91)

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase 100)
- (02) Compact (wheelbase -100 104)
- (03) Intermediate (wheelbase = 105 109)
- (04) Full size (wheelbase = 110 114)
- (05) Largest (wheelbase 115)
- (09) Unknown passenger car size
- (11) Short utility vehicle
- (12) Truck based utility (10:000 lbs GVWR)
- (13) Passenger van (10 000 lbs GVWR)
- (14) Other van (10 000 lbs GVWR)
- (15) Pickup truck (10 000 lbs GVWR)
- (18) Other truck (10 000 lbs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (10,000 lbs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDC APPLICABLE AND OTHER VEHICLES

VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top (U) Undercarriage
- (9) Unknown

(0) Not a motor vehicle

TDC APPLICABLE

- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify)
- (35) Noncollision injury
- (38) Other noncollision (specify)
- (39) Noncollision details unknown

Collision with Fixed Object

- (41) Tree (≤4 inches in diameter)
- (42) Tree (-4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (± 4 inches in diameter)
- (51) Pole or post (4 but ≤ 12 inches in diameter)
- (52) Pole or post (12 inches in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify).

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

Primary Sampling Unit Number Case Number – Stratum	11. Police Reported Alcohol Presence (0) No alcohol present
2 5555 (14/155) 5/15(5/14/15)	(1) Yes (alcohol present) (7) Not reported
3 Vehicle Number	(8) No driver present
VEHICLE IDENTIFICATION	(9) Unknown
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	Note: See Variables 37 through 55 (Page 4) for Information on Other Drugs
5 Vahicle Make (specify)	12 Alcohol Test Result for Driver
,	Code actual value (decimal implied before first digit = 0 xx)
Applicable codes are found in your	(95) Test refused
NASS CDS Data Collection Coding, and	(96) None given
Editing Manual	(97) AC test performed, results unknown
(99) Unknown	(98) No driver present
	(99) Unknown
6 Vehicle Model (specify)	Source
Applicable codes are found in your	
NASS CDS Data Collection, Coding, and	ACCIDENT RELATED
Editing Manual (999) Unknown	13. Speed Limit
(999) OHKHOWH	(00) No statutory limit
7 Body Type	Code posted or statutory speed limit
Note Applicable codes are found on	(99) Unknown
the back of this page	14 American Almidance Managemen
, ,	14 Attempted Avoidance Maneuver
8 Vehicle Identification Number	(01) No avoidance actions
	(02) Braking (no lockup)
	(03) Braking (lockup)
Left justify, Slash zeros and letter Z (0 and ∠)	(04) Braking (lockup unknown)
No VIN - Code all zeros	(05) Releasing brakes
Unknown – Code all nine's	(06) Steering left
	(07) Steering right
OFFICIAL PEOCEDO	(08) Braking and steering left
OFFICIAL RECORDS	(09) Braking and steering right
	(10) Accelerating
9 Police Reported Vehicle Disposition —	(11) Accelerating and steering left
(0) Not towed due to vehicle damage	(12) Accelerating and steering right (97) No driver present
(1) Towed due to vehicle damage (9) Unknown	(98) Other action (specify)
10 Police Reported Travel Speed	(99) Unknown
Code to the pearest mph /NOTE 00 mapps	15. Accident Type
Code to the nearest mph (NOTE 00 means less than 0.5 mph)	Applicable codes may be found on the back
(97) 96 5 mph and above	of page two of this field form
(99) Unknown	(00) No impact
(00) 5	Code the number of the diagram that
	best describes the accident circumstance
	(98) Other accident type (specify)
	(99) Unknown
****SKIP TO VARIABLE GV37 IF G	SVO7 DOES NOT FOLIAL 01-49****

HS Form 435 (Rev. 1/91)

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2 door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (08) Other automobile type (specify)
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, and Brat)
- (11) Auto based panel (cargo station wain, includes auto based ambulance/hea e)
- (12) Large limousine more than four side doors or stretched chassis

Utility Vehicles

- (13) Short utility not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)
- (14) Truck based utility (2-door includes Blazer Bronco 78 on, Bronco II, Jimmy, Ramcharger, Cherokee Trailduster, Scout)

Van Based Light Trucks (10,000 lbs GVWR)

- (20) Minivan (Lumina APV, Astro, Caravan, Plymouth Vista, Aerostar, Safari, Voyager [84 and after], Dodge Vista, Mini Ram Van, Toyota Cargo Van, Toyota Van Vanagon, VW Bus, Kombi)
- (21) Standard van (Sportvan, Chevy Van, Club Wagon, Ford Econoline, Ram Van, Chateau, Ram Wagon, Vandura, Rally, Voyager [83 and before], Beauville, Sportsman)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup Style Cab, 10,000 lbs GVWR)

- (30) Compact pickup (4,500 lbs GVWR, S-10, LUV, Ram 50 Rampage, Courier, Ranger, S-15 Pup, Mazda Pickup, Mitsubishi Truck, Nissan Pickup, Arrow Pickup, Scamp, Toyota Pickup, VW Pickup)
- (31) Standard pickup (4,500 to 10,000 lbs GVWR, C10 C30, K10 K30, T10, D100 D350, W150 W350, F100 F350, Comanche, J10 J30, Dakota)
- (32) Pickup with slide-in camper
- (33) Truck based station wagon (4-door, includes Suburban, Travelall, Wagoneer)
- (34) Light truck based suburban limousine
- (35) Convertible pickup
- (39) Unknown (pickup style) light conventional truck type

Other Light Trucks (* 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicle, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (47) Other light conventional truck type (not a pickup includes step vans ≤ 10,000 lbs GVWR, Grumman LLV vehicle) (specify):
- (48) Unknown other light truck type (not a pickup)
- (49) Unknown light vehicle type (automobile, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) Scho bus (designed to carry students, not crost Lountry or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify)
- (59) Unknown bus type

Medium/Heavy Trucks (10,000 lbs GVWR)

- (60) Step van
- (61) Single unit straight truck (10,000 lbs GVWR 26,000 lbs)
- (62) Single unit straight truck (26,000 lbs GVWR)
- (63) Medium/heavy truck based motorhome
- (64) Truck-tractor with no cargo trailer
- (65) Truck-tractor pulling one trailer
- (66) Truck-tractor pulling two or more trailers
- (67) Truck-tractor (unknown if pulling trailer)
- (68) Unknown medium/heavy truck type
- (69) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (70) Motorcycle
- (71) Moped (motorized bicycle)
- (78) Other motored cycle type(minibike, motorscooter) (specify)
- (79) Unknown motored cycle type

Other Vehicles

- (80) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (88) Other vehicle type (specify)
- (99) Unknown body type

OCCUPANT RELATED	_
16 Driver Presence in Vehicle	24 Rollover (no overturning)
(0) Driver not present	(0) No rollover (no overturning)
(1) Driver not present	Rollover (primarily about the longitudinal axis)
(9) Unknown	(1) Rollover, 1 quarter turn only
(5) 6111115411	(2) Rollover, 2 quarter turns
17 Number of Occupants This Vehicle	(3) Rollover, 3 quarter turns
(00-96) Code actual number of occupants	(4) Rollover, 4 or more quarter turns (specify)
for this vehicle	
(97) 97 or more :	-
(99) Unknown	(5) Rollover—end-over-end (i.e., primarily
	about the lateral axis)
18. Number of Occupant Forms Submitted	(9) Rollover (overturn), details unknown
VEHICLE WEIGHT ITEMS	
VEHICLE WEIGHT TIEWIS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19 Vehicle Curb Weight, 0 0	<u> </u>
Code weight to nearest	25. Front Override/Underride (this vehicle)
100 pounds.	
(010) Less than 1050 pounds	26 Rear Override/Underride (this vehicle)
(135) 13,500 lbs or more	(0) No override/underride, or
(999) Unknown	not an end-to-end impact
	not an end-to-end impact
Source	Override (see specific CDC)
20 Vehicle Cargo Weight 0.0	(1) 1st CDC
20 Vehicle Cargo Weight 0 0	(2) 2nd CDC
100 pounds	(3) Other not automated CDC (specify)
(00) Less than 50 pounds	
(97) 9,650 lbs or more	
(99) Unknown	Underride (see specific CDC)
	(4) 1st CDC
RECONSTRUCTION DATA	(5) 2nd CDC
<u> </u>	(6) Other not automated CDC (specify)
21. Towed Trailing Unit	
(0) No towed unit	
(1) Yes – towed trailing unit	(7) Medium/heavy truck or bus override
(9) Unknown	(9) Unknown
22 Documentation of Trajectory Data	
for This Vehicle	HEADING ANGLE AT IMPACT FOR
(0) No	HIGHEST DELTA V
(1) Yes	Values (000)-(359) Code actual value
	(997) Noncollision
23. Post Collision Condition of Tree or Pole	(998) Impact with object
(for Highest Delta V)	(999) Unknown
(0) Not collision (for highest delta V) with	
tree or pole	27. Heading Angle for This Vehicle
(1) Not damaged (2) Cracked/sheared	
(2) Cracked/sheared (3) Tilted 45 degrees	28. Heading Angle for Other Vehicle
(4) Tilted =45 degrees	
(5) Uprooted tree	
(6) Separated pole from base	
(7) Pole replaced	
(8) Other (specify)	
	
(9) Unknown	

(alc gory	Contigur	ACCIDENT TYPES (includes Intent)	<u> </u>	
1	A Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPE	CIFICS 1ER	06 SPECIFICS UNKNOWN
Single Driver	B Len Roadside Departure		ECIFICS	10 SPECIFICS UNKNOWN
_	C Forward Impact	Thinks to the second se	ECIFICS HER	16 SPECIFICS UNKNOWN
Trafficwas Direction	1) Rear End	27 27 31	ACH • 32) CIFICS	(EACH - 33) SPECIFICS UNKNOWN
# Same Trafficwa Same Direction	F Forward Impact	34 35 36 LID 38 LID 39 40 LID 39 AVOID COLLISION WITH VEH WITH OBJECT 46		SPECIFICS UNKNOWN
	F Sideswipe Angli	44 45 45 (EACH + 48) SPECIFICS OTHER	(EACH SPECIFIC	• 49) CS UNKNOWN
ody Cfroff	ा Head On	50 51 (EACH • 52) (EACH • 53) SPECIFICS SPECIFICS UNKNOWN		·
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 59 60 CTI CONTROL CONTROL AVOID COLLISION WITH OBJECT TRACTION LOSS TRACTION LOSS WITH VEH WITH OBJECT		62)(EACH + 63) SPECIFICS UNKNOWN
=	l Sideswipe Angle	65 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER		
Change Trafficwas Vehicle Turning	J Turn Across Path	68 71 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	(EACH • 74	4) (EACH + 75) SPECIFICS UNKNOWN
1V Change Trafficm Vehicle Turning	K Turn Into Path	TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS	SPECIFICS OTHER	4) (EACH • 85) SPECIFICS UNKNOWN
V Intersect ing Paths (Vehicle	L Straight Paths	87 (EACH • 90) 88 89 SPECIFICS OTHER	(EACH + 9	
VI Miscel lancius	M Backing Etc	92 93 OTHER VEH OR OBJECT SACKING VEH 93 Other Accident 7 99 Unknown Accide 00 No Impact		

29. Basis for Total Delta V (Highest)	Secondary Highest
Delta V Calculated (1) CRASH program – damage only routine (2) CRASH program – damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction techniques, regardless of adequacy of damage data. (6) All vehicles and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available COMPUTER GENERATED DELTA V Secondary Highest 30. Total Delta V Nearest mph (NOTE 00 means less than 0.5 mph) (97) 96.5 mph and above (99) Unknown 31. Longitudinal Component of + Delta V Nearest mph (NOTE00 means greater than	32. Lateral Component of Delta V Nearest mph (NOTE00 means greater than 0.5 and less than 0.5 mph) (± 97) ± 96 5 mph and above (99) Unknown 33. Energy Absorption
IF YES: IS A COMPLETED OLDMISS PROGRA	M SUMMARY INCLUDED? [] YES [] NO

Vati	onal Accident Sampling System-Crashworthiness Data	System General Vehicle For	m	Page
37	Police Reported Other Drug Presence (0) No other drugs present	OTHER DRUGS TEST F	RESULTS FOR D	RIVER
	(1) Yes (other drug present)		Observation/	
	(7) Not reported	ĺ	Perception	Specimen
	(8) No driver present		Test Results	
	(9) Unknown	Narcotic Drug	40	41
		Depressant Drug	42	43.
38.	Police Reported Observation/Perception	Stimulant Drug	44	45
	Test Type For Driver	Hallucinogen Drug	46	47.
	(0) No observation/perception test given	Cannabinoid Drug	48	49.
	(1) Drug recognition technician (DRT) determination	Phencyclidine (PCP)	50.	51.
	(2) Behavioral	Inhalant Drug	52.	53.
	(3) Other physical observation/perception	Other Drug (Excluding	54	55
	determination (specify):	Nicotine, Aspirin, Alcohol,		
		Drugs Administered Post-Crast	h)	
	(7) Other observation/perception test			
	(8) No driver present	Codes For Observation/Per	ception Test Resi	ılts
	(9) Unknown if observation/perception test given	(0) No observation/percep	tion test given	
		(1) Passed observation/pe	rception test	
		(2) Failed observation/per		
39.	Other Drug Specimen Test Type For Driver	(3) Observation/perception	n test given -	
	(0) No specimen test given	results unknown		
	(1) Blood test	(8) No driver present		
	(2) Urine test	(9) Unknown if observation	on perception	
	(3) Other specimen tests (specify):	test given		
	(7) Unspecified specimen test	Codes for Specimen Test R	esults	
	(8) No driver present			
	(9) Unknown if specimen test given	(0) No specimen test give		
			: 0	
		•		
		(9) Unknown if specimen	test given	
	*** IF THE CDS APPLICABLE VEHICLE W	(1) Drug not found in specime (2) Drug found in specime (8) No driver present (9) Unknown if specimen	test given	***
	DO NOT COMPLETE THE EXTERIOR	R AND INTERIOR VEHICL	E FORMS.	
	*** IF GV07 DOES NOT EQUAL THE EXTERIOR VEHICL	01-49, DO NOT COMPLI E. INTERIOR VEHICLE	ETE ***	

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINES'S DATA SYSTE

National Highway Traffic Safety

Administration					_		-	- Chasi	ONTHI	NESS UAI	A 31311
1. Primary	Sampling Unit Num	nber		_ 3 V	ehicle N	Number					·
2 Case Nu	ımber – Stratum		/51001 S		FIGAT	101					
•			/EHICLE	IDENT	IFICAI	ION					
VIN		<u>. </u>					_ Mode	Year _			
Vehicle Mal	ke (specify)				Vehic	le Mode	el (speci	fv)			
				DCATO				, .	-		
	end of the damage an undamaged axis		t to the ve	·		·		r bumpe	er corne	r for en	d
Specific Impact No	Location of Dire	ect Damage		Locatio	n of Fie	eld L	ι	ocation	of Ma	kimum (Crush
			CRUS	SH PRO	OFILE						_
Sil M im Fr th Sic	entify the plane at will, etc.) and label adjingure C1 to C6 from apacts. ee space value is deletingure individual C location to the condition of the conditio	ustments (e m driver to p fined as the ons. This m the value f	.g., free sp passenger e distance b ay include or each C-r	ace) side in f between the follo measure	front or the ba owing ement a	rear im seline a bumper nd max	pacts al nd the c lead, b imum c	nd rear i original umper t	to front	in side	aken a
Specific	Di	Direct D	amage	Evale							
Impact Number	Plane of C-Measurements	Width (CDC)	Max Crush	Field L	C ₁	C ₂	C ₃	C₄	C ₅	C ₆	± D
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HS Form 435A (Rev. 1/91)

CDC WORKSHEET

CODES FOR OBJECT CONTACTED

01-30 - Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify)
- (39) Noncollision details unknown

Collision with Fixed Object

- (41) Tree (≤4 inches in diameter)
- (42) Tree (>4 inches in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤4 inches in diameter)
- (51) Pole or post (>4 but ≤12 inches in diameter)
- (52) Pole or post (>12 inches in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (specify)

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or Culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):

(69) Unknown fixed object

Collision With Nonfixed Object

- (71) Motor vehicle not in transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance (specify):
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify)
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

DEFORMATION CLASSIFICATION BY EVENT NUMBER

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
						 ·		
				_	_			
								
				_			_	
								
	——				_		_	
',					_			
					_			

	COLLIS	ION DEFORM	MATION CLAS	SIFICATIO	N	
HIGHEST DELTA "V"			(4)	(5)		
Accident Event Sequence Object Number Contacted	(1) (2) Direction of Force	(3) Deformation Location	Specific Longitudinal or Lateral Location	Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4 5	6:_	7	8	9	10	11
Second Highest Delta	"V"					
12 13		15	16	17	18	19
		CRUS	H PROFILE			
	the appropriate		bed in the CDC(ALL MEASUREN			nted
20. 21. L	C2	C3	C4	C5	C6	22 +
			- -			
Second Highest Delta 23. 24. LC1		C3	C4	<u>C5</u>	C6	25. + - D + -
26. Are CDCs Documen but Not Coded on 1 Automated File ? (0) No (1) Yes		Researcher's A of Vehicle Disp (0) Not towed vehicle dan (1) Towed due vehicle dan (9) Unknown	oosition <u> </u>	-	nal Wheelbase _Code to the nearest tenth of an in	

29. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified 30. Fire Occurrence (1) Minor (2) Major (3) Major (3) Multimore Major (4) Unknown (5) Cargoftrusk compartment (6) Instrument panel (7) Passenger compartment (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank (10) Mone Lank (electrical vehicle) (11) Meanum (12) Major (13) Fuel Lank (14) Menor (15) Cargoftrusk compartment (16) Instrument panel (17) Passenger compartment (18) Other location (specify): (19) Unknown 32. Type of Fuel Tank (10) No fuel Lank (electrical vehicle) (11) Menor (12) Mealing (13) Fuel Lank (13) Fuel Lank (14) Menor (15) Cargoftrusk compartment (16) Instrument panel (17) Passenger compartment (18) Other location (specify): (19) Unknown (10) Vehicle exterior (front, side, back, top) (2) Ethaust system (3) Fuel Lank (6) No fuel Lank (and other fuel retention system parts (18) Lank (and other fuel retention system parts (18) Ethaust system (18) Fuel Cargoftrusk compartment (19) Unknown (19) Unknown (10) Vehicle exterior (front, side, back, top) (2) Ethaust system (3) Fuel Lank (4) Engine compartment (5) Cargoftrusk compartment (5) Cargoftrusk compartment (6) Norther fuel retention (7) Passenger compartment (8) Other location (specify): (9) Unknown (10) Vehicle exterior (front, side, back, top) (2) Ethaust system (3) Fuel Cargoftrusk compartment (5) Cargoftrusk compartment (6) Norther fuel retention (7) Passenger compartment (8) Other location (specify): (9) Unknown (10) Vehicle exterior (front, side, back, top) (10) Vehicle exterior (fr			
(0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown *** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED ***	And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report)	 (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area 	
(1) Minor (2) Major (3) Unknown (4) Metallic (5) Unknown (5) Unknown (6) No fuel tank (electrical vehicle) (7) Metallic (8) Unknown (9) Unknown (9) Unknown	_	(9) Unknown	
*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED *** (I.E., GV09 = 0 OR 9), DO NOT COMPLETE THE INTERIOR VEHICLE FORM.	(1) Minor (2) Major	(0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic	

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

US Department of Transportation

National Highway Traffic Safety

Administration

Glazing Damage from Impact Forces 15. WS 16. LF 17. RF 18. LR 19. RR 20. BL 21. Roof 22. Other (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces
20. BL 21. Roof 22. Other (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces
(0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces
(2) Glazing in place and cracked from impact forces
(3) Glazing in place and holed from impact forces
(4) Glazing out-of-place (cracked or not) and not holed from impact forces
 (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (8) No glazing (9) Unknown if damaged
Glazing Damage from Occupant Contact
23. WS 24. LF 25. RF 26. LR 27. RR
28. BL 29. Roof 30. Other
(0) No occupant contact to glazing or no glazing (1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact (4) Glazing out-of-place (cracked or not) by occupant
contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact and holed by occupant contact (6) Glazing disintegrated by occupant contact
(9) Unknown if contacted by occupant
If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0
Type of Window/Windshield Glazing
31. WS32. LF33. RF34. LR35. RR
36. BL 37. Roof 38. Other
(0) No glazing contact and no damage, or no glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (4) AS-14 — Glass/Plastic (8) Other (specify):
(9) Unknown
Window Precresh Glazing Status 39.WS 40. LF 41. RF 42. LR 43. RR 44. BL 45. Roof 46. Other (0) No glazing contact and no damage, or no glazing (1) Fixed (2) Closed (3) Partially opened (4) Fully opened (9) Unknown

HS Form 435C (Rev. 1/91)

,	OCCUPANT AREA INTRUSION				
Note If no intrusion	s, leave variables IV 47-	IV 86 blank.	INTRUDING COMPONENT		
			Interior Components		
•		Dominant	(01) Steering assembly		
↓ Location of I	ntruding Magnitude	Crush	(02) Instrument panel left		
	omponent of Intrusion		(03) Instrument panel center		
			(04) Instrument panel right		
1st 47	8 49	50	(05) Toe pan		
150 47 40		· · · · · · · · · · · · · · · · · · ·	(06) A-pillar		
i			(07) B-pillar		
ſ	1		(08) C-pillar		
2nd 51 52	2 53	54	(09) D-pillar		
1			(10) Door panel (side)		
1			(12) Roof (or convertible top)		
3rd 55 56	6 57	58	(13) Roof side rail		
			(14) Windshield		
			(15) Windshield header		
111 50			(16) Window frame		
410 59 60	0 61	62	(17) Floor pan (includes sill)		
			(18) Backlight header		
Į.			(19) Front seat back		
5th 63 64	4 65	66	(20) Second seat back		
]			(21) Third seat back		
Ĭ			(22) Fourth seat back		
C45 C7 C	0 00	70	(23) Fifth seat back		
6tn 67 6	8 69	70	(24) Seat cushion		
			(25) Back door/panel (e.g., tailgate)		
l .			(26) Other interior component (specify):		
7th 71 7:	2 73	74			
			(27) Side panel - forward of the A-pillar		
Į.			(28) Side panel - rear of the A-pillar		
4 9+b 75 - 76	6 77	70	Exterior Components		
6111 /5 /6	0 //	78	(30) Hood		
			(31) Outside surface of vehicle (specify):		
Í			(b), catalas actions of volitors (apostiny).		
9th 79 80	0 81	82	(22) Ohan adains abian is ab a saving		
			(32) Other exterior object in the environment		
j.			(specify):		
10th 83 84	4 85	86	(33) Unknown exterior object		
			(97) Catastrophic		
			(98) Intrusion of unlisted component(s)		
LOCATION OF INTR	USION		(specify):		
Front Seat	Fourth Seat		(99) Unknown		
(11) Left	(41) Left				
(12) Middle	(42) Middle		MAGNITUDE OF INTRUSION		
(13) Right	(43) Right		(1) ≥ 1 inch but < 3 inches		
	• • •		(2) ≥ 3 inches but < 6 inches		
Second Seat	(97) Catastrophic		(3) ≥ 6 inches but < 12 inches		
(21) Left	(98) Other enclose	ed .	(4) ≥ 12 inches but < 18 inches		
(22) Middle	area (specify)		(5) ≥ 18 inches but < 24 inches		
(23) Right	• • • • • • • • • • • • • • • • • • • •		(6) ≥ 24 inches		
	(99) Unknown	-	(7) Catastrophic		
Third Seat	(55) UHKHUWH		(9) Unknown		
(31) Left			DOMINANT CRIEN DIRECTION		
(32) Middle			DOMINANT CRUSH DIRECTION		
(33) Right			(1) Vertical		
			(2) Longitudinal (3) Lateral		
•			(7) Catastrophic		
			(9) Unknown		
<u> </u>			(a) Olivitomii		

	STEERING COLUMN		92. Steering Rim/Spoke Deformation
	Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):		Code actual measured deformation to the nearest inch. (0) No steering rim deformation (1-5) Actual measured value (6) 6 inches or more (8) Observed deformation cannot be measured (9) Unknown
	(9) Unknown		93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation
88.	Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-90 CDS.	XX	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D
89.	Blank	<u>x x x</u>	Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke
	(This variable is left blank so that numbering consistency can be maintained with the 1988-90 CDS.		(09) Complete steering wheel collapse (10) Undetermined location (99) Unknown INSTRUMENT PANEL
90.	Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-90 CDS.	XXX	94. Odometer Reading
91.	Blank (This variable is left blank so that numbering consistency can be maintained with the	XXX	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown 96. Knee Bolsters Deformed from Occupant Contact?
	1988-90 CDS.		(0) No (1) Yes (8) Not present (9) Unknown
			97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown

OCCUPANT ASSESSMENT FORM

FORM APPROVED

OMBNO 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM

CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	11. Occupant's Posture (0) Normal posture
2. Case Number – Stratum	(1) Abnormal posture (specify):
3. Vehicle Number	(9) Unknown
4. Occupant Number	EJECTION/ENTRAPMENT
	12 Figurian
OCCUPANT'S CHARACTERISTICS	12. Ejection (0) No ejection
5. Occupant's Age	(1) Complete ejection
Code actual age at time of accident.	(2) Partial ejection
(00) Less than one year old (specify by month)	(3) Ejection, unknown degree
(ou) Less than one year old (specify by month)	(9) Unknown
(97) 97 years and older	13. Ejection Area
(99) Unknown	
	(0) No ejection
6. Occupant's Sex	(1) Windshield
(1) Male	(2) Left front
(2) Female	(3) Right front
(9) Unknown	(4) Left rear
(5) Officiowit	(5) Right rear
3 Occurs do Haiado	(6) Rear
7. Occupant's Height	(7) Roof
Code actual height to the nearest inch. (99) Unknown	(8) Other area (e.g., back of pickup, etc.)
1957 STATIONTI	(specify)
8. Occupant's Weight	(9) Unknown
Code actual weight to the nearest pound	
(999) Unknown	14. Ejection Medium
	(0) No ejection
9. Occupant's Role	(1) Door/hatch/tailgate
(1) Driver	(2) Nonfixed roof structure
(2) Passenger	(3) Fixed glazing
(9) Unknown	(4) Nonfixed glazing (specify):
40. On the We Could 194	
10. Occupant's Seat Position	(5) Integral structure
Front Seat	(8) Other medium (specify):
(11) Left side	
(12) Middle	(9) Unknown
(13) Right side (14) Other (specify):	
(15) On or in the lap of another occupant	15. Madium Status (Immediately Prior to Impact)
Carlotter occupant	(0) No ejection
Second Seat	(1) Open
(21) Left side	(2) Closed
(22) Middle	(3) Integral structure
(23) Right side (24) Other (specify):	(9) Unknown
(25) On or in the lap of another occupant	(5) 5
· · · · · · · · · · · · · · · · · · ·	16. Entrapment
Third Seat	(NOTE: Entrapped means that part of the
(31) Left side	person was in the vehicle and mechanically
(32) Middle (33) Right side	restrained; jammed doors and immobilizing
(34) Other (specify):	
(35) On or in the lap of another occupant	injuries by themselves are not sufficient to
·	constitute entrapment.)
Fourth Seat	(0) Not entrapped
(41) Left side	(1) Entrapped
(42) Middle	(9) Unknown
(43) Right side	
(44) Other (specify):	
(45) On or in the lap of another occupant	
(97) In or on unenclosed area	
(98) Other seat (specify):	
(99) Unknown	

	RESTRAINT SYSTEM AND SEAT EVALUATION		
		21 Air Bag System Availability/Function	
17.	Manual (Active) Belt System Availability	(0) Not equipped/not available	
	(0) Not available	(1) Air bag	
	(1) Belt removed/destroyed (2) Shoulder belt		
	(3) Lap belt	Non-functional	
	(4) Lap and shoulder belt	(2) Air bag disconnected (specify):	
	(5) Belt available – type unknown		_
	(8) Other belt (specify):	(3) Air bag not reinstalled	
		(9) Unknown	
	(9) Unknown		
		22. Air Bag System Deployment	
18.	Manual (Active) Belt System Use	(0) Not equipped/not available	
	(00) None used, not available, or belt removed/destroyed	(1) Air bag deployed during accident	
	(01) Inoperative (specify).	(2) Air bag deployed inadvertently just	
	(01) moperative (specify).	prior to accident	
	(02) Shoulder belt	(3) Air bag deployed, accident sequence	
	(03) Lap belt	undetermin ed	
	(04) Lap and shoulder belt	(4) Nondeployed	
	(05) Belt used - type unknown	(5) Unknown if deployed	
	(08) Other belt used (specify)	(9) Unknown	
	(12) Shoulder belt used with child safety seat	23. Did Air Bag System Fail?	
	(13) Lap belt used with child safety seat	(0) Not equipped/not available	
	(14) Lap and shoulder belt used with child safety	(1) No	
	seat	(2) Yes (specify):	
	(15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat		_
	·	(9) Unknown	
	(specify)(99) Unknown if belt used		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N . 0 W	
	Proper Use of Manual (Active) Belts	Note: See Variables 44 through 48 (Page 5)	
	(0) None used or not available	for Information on Automatic Belts	
	(1) Belt used properly (2) Belt used properly with child safety seat		
	(2) belt used properly with child safety seat	24. Police Reported Restraint Use	
	Belt Used Improperly	(0) None used	
	(3) Shoulder belt worn under arm	(1) Police did not indicate restraint use	
	(4) Shoulder belt worn behind back or seat	(2) Shoulder belt	
	(5) Belt worn around more than one person	(3) Lap belt (4) Lap and shoulder belt	
	(6) Lap belt worn on abdomen	(5) Belt used, type not specified	
	(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	(6) Child safety seat	
	improperty with child safety seat (specify).	(7) Other or automatic restraint (specify):	
	(8) Other improper use of manual belt system		
	(specify):	(8) Restrained, type unknown	
	(opcon),	(9) Police indicated "unknown"	
	(9) Unknown	25. Head Restraint Type/Damage by Occupant	
		at This Occupant Position	
20.	8.4 (A - 4')	(0) No head restraints	
	Manual (Active) Belt Failure Modes	(-,	
	During Accident	(1) integral – no damage	_
	During Accident (0) No manual belt used or not available	(1) Integral – no damage(2) Integral – damaged during accident	_
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s)	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage 	_
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident 	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage 	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident 	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – damaged during accident 	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	 (1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – damaged during accident 	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	(1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – damaged during accident (8) Other (specify):	_
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	(1) Integral – no damage (2) Integral – damaged during accident (3) Adjustable – no damage (4) Adjustable – damaged during accident (5) Add-on – no damage (6) Add-on – damaged during accident (8) Other (specify):	_

26. Seat Type (This Occupant Position)	30. Child Safety Seat Orientation
(00) Occupant not seated or no seat	(00) No child safety seat
(01) Bucket	'
(02) Bucket with folding back	Designed for Rear Facing for This Age/Weight
(03) Bench	(01) Rear facing
(04) Bench with separate back cushions	(02) Forward facing
(05) Bench with folding back(s)	(08) Other orientation (specify):
(06) Split bench with separate back cushions	1
(07) Split bench with folding back(s)	(09) Unknown orientation
(08) Pedestal (i.e., van type)	(09) Onknown orientation
(09) Other seat type (specify)	Designed for the and the law for the Augusta
(ab) ather best type toposity	Designed for Forward Facing for This Age/Weight
· · · · · · · · · · · · · · · · · · ·	(11) Rear facing
(99) Unknown	(12) Forward facing
	(18) Other orientation (specify):
27. Seat Performance (This Occupant Position)	
(0) Occupant not seated or no seat	(19) Unknown orientation
(1) No seat performance failure(s)	(,
(2) Seat adjusters failed	Unknown Design or Orientation for This
(3) Seat back folding locks failed	Age/Weight, or Unknown Age/Weight
(4) Seat track/anchors failed	(21) Rear facing
(5) Deformed by impact of occupant	(22) Forward facing
(6) Deformed by passenger compartment intrusion	(28) Other orientation (specify):
(specify):	(28) Other orientation (specify):
	
	(29) Unknown orientation
	(99) Unknown if child safety seat used
(7) Combination of above (specify):	
	31. Child Safety Seat Harness Usage
(8) Other (specify):	32. Child Safety Seat Shield Usage
	22 Child Safata Sana Tashar Ulana
(9) Unknown	33. Child Safety Seat Tether Usage
	Note: Options below applicable to
	Variables OA31-OA33.
	(00) No child safety seat
	Alex Designed Cat
CHILD SAFETY SEAT	Not Designed with
	Harness/Shield/Tether
28. Child Safety Seat Make/Model	(01) After market harness/shield/tether added, not
(000) No child safety seat	used
Applicable codes are found in your NASS CDS	(02) After market harness/shield/tether used
Data Collection, Coding, and Editing Manual	(03) Child safety seat used, but no after market
(997) Other make/model (specify):	harness/shield/tether added
	(09) Unknown if harness/shield/tether
(000) Helicono estado	added or used
(998) Unknown make/model	
(999) Unknown if child safety seat used	Designed with Harness/Shield/Tether
	(11) Harness/shield/tether not used
29. Type of Child Safety Seat	(12) Harness/shield/tether used
(0) No child safety seat	(19) Unknown if harness/shield/tether used
(1) Infant seat	(10) Charlette in Halfields/Shibita/Callet adda
(2) Toddler seat	Unknown If Designed with Harness/Shield/Tether
(3) Convertible seat	(21) Harness/shield/tether not used
(4) Booster seat	
(7) Other type child safety seat (specify):	(22) Harness/shield/tether used
, , =,	(20) Hallmann (2)
	(29) Unknown if harness/shield/tether used
(0) 11-1	
(8) Unknown child safety seat type (9) Unknown if child safety seat used	(29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

INJURY CONSEQUENCES	38. Working Days Lost
34. Injury Severity (Police Rating)	Code the number of days
(0) O – No injury	(up through 60) that the occupant
(1) C - Possible injury	lost from work due to the accident (00) No working days lost
(2) B – Nonincapacitating injury	(61) 61 days or more
(3) A – Incapacitating injury	(62) Fatally injured
(4) K – Killed	(97) Not working prior to accident
(5) U-Injury, severity unknown	(99) Unknown
(6) Died prior to accident	(55) 51181154411
(9) Unknown	39. Time to Death
Var a	Code number of hours from time of
35. Treatment – Mortality	accident to time of death up through 24
(0) No treatment	hours. If time of death is greater than 24
(1) Fatal	hours, code number of days. (Note: 1 day =
(2) Fatal – ruled disease	31, 2 days = 32, n days = 30 + n up through
	30 days = 60)
Nonfatal	(00) Not fatal
(3) Hospitalized	(96) Fatal – ruled disease
(4) Transported and released	(99) Unknown
(5) Treatment at scene – nontransported	
(6) Treatment later	40. 1st Medically Reported Cause of Death
(8) Treatment – other (specify)	41. 2nd Medically Reported Cause of Death
(9) Unknown	42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line
36. Type of Medical Facility (for Initial Treatment)	number(s) for the medically reported
(0) Not treated at a medical facility	injury(s) which reportedly contributed to
(1) Trauma center	this occupant's death
(2) Hospital	(00) Not fatal or no additional causes
(3) Medical clinic	(97) Other result (specify)
(4) Physician's office	
(5) Treatment later at medical facility	(99) Unknown
(8) Other (specify)	
	43. Number of Recorded Injuries for
(9) Unknown	This Occupant
	Code the actual number of
37. Hospital stay	injuries recorded for this occupant.
Code number of days (up through 60)	(00) No recorded injuries
that the occupant stayed in the hospital	(97) Injured, details unknown
(00) Not hospitalized	(99) Unknown if injured
(61) 61 days or more	
(99) Unknown	
	<u></u>

44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 46. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):				
UPDATE CANDIDATE? NO [] YES [] OCCUPANT INJURY FORM INCLUDED WITH INITIAL SUBMISSION? NO [] YES []					
*** STOP HERE *** IF THERE ARE NO RECORDED INJURIES (I.E., OA43 = 00,97,99)					

US Department of Transportation

National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved
OMB No 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number							3. Vehicle Number				
2. Case N	2. Case Number – Stratum						upant Numb	per			
					INJURY	/ DATA		•			
Record below the actual injuries sustained by this occupant that were identified from the official and unoffic al data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.											
	Source Of Injury Data	Body Region	Aspect	IC —AIS	System Organ	A I S Severity	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No	
1st	5	6	7	8	9	10	11	12	13	14	
2nd	15	18	17 _	18	19	20	21	22	23	24	
3rd	25 <u> </u>	26 _	27	28	29	30	31	32	33	34	
4th	35	36	37	28	39	40	41	42 _	43 _	44	
5th	45	4 6	A7	48	49	50	51	52	53 _	54	
6th	55	56	57	58	59	60	61	62	63	64	
7th	65	66	67	68	69	70	71	72	73	74	
8th	75 <u> </u>	76	n	78. _	79	80	81	82	83	84	
9th	85	86	87	88	89	90	91	92	93	94	
10th	9 5	96	97	98	99	100	101	102	103	104	

HS Form 433B (1/91)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely

SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital medical
- (2) Hospital medical records other than emergency room (eg_discharge_summary)
- (3) Emergency room records only (including associated X rays or other lab reports?
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify)
- .91 Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- 1031 Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub spoke
- (06) Steering wheel (combination of codes 04 and 05)
- 107: Steering column transmission selector lever other attachment
- (08) Add-on equipment telg. CB tape deck air conditioner
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee boister
- (14) Windshield including one or more of the following front header A-pillar instrument panel mirror or steering assembly (driver side only
- (15) Windshield including one or more of the following front header A-pillar instrument panel or mirror (passenger side only)
- (16) Other front object (specify:

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A pillar
- (23) Left B piller
- (24) Other left pillar (specify)
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following frame window sili. A-pillar B pillar or roof Side zail
- (27) Other left side object (specify)

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or
- (31) Right side hardware or armrest
- (32) Right A piltar
- (33) Right B pillar
- (34) Other right pillar (specify)
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following frame window silf A-pillar B-pillar roof side
- (37) Other right side object (specify)

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing buckle
- (42) Beit restraint B pillar attachment point
- (43) Other restraint system component (specify)
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify)
- (47) Interior loose objects
- 1481 Child safety seat (specify)
- (49) Other interior object (specify

BOOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor including toe pan
 - (57) Floor or console mounted transmission lever, including
 - (58) Parking brake handle
 - (59) Foot controls including parking brake

REAR

- (60) Backlight (rear window)
- (61) Backlight storage rack door etc
- (62) Other rear object (specify)

EXTERIOR OF OCCUPANT S VEHICLE

- (66) Outside hardware (e.g. outside mirror, antenna)
- (67) Other exterior surface or tires (specify)
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other from of vehicle (specify)
- 1731 Hood
- (74) Hood ornament
- (75) Windshield, roof rail A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify)
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT.

- (85) Other vehicle or object (specify)

(86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify)
- (97) Injured unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible (9) Unknown

DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury (3) Noncontact injury
- (7) Injured unknown source

OCCUPANT INJURY CLASSIFICATION

OIC Body Region

- Abdomen
- Ankle foot
- Arm (upper) (A)
- (B) Back - thoracolumbar some Chest
- (C) ιEI Elbow
- Face
- ıRı Forearm
- Head skull Injured unknown region (U)
- Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown Darti
- /NI Neck - cervical soine
- Palvic hip (S) Shoulder

(X)

Thigh

Upper limb(s) (whole or unknown

{O} Whole body (W) Wrist - hand

- Bilateral (no fracture only)
- (B) (C)
- (1) Inferior - lower
- (L) Left
- (P) Postenor - back
- (R) Right
- (S) Supenor – upper

- (M) Amoutation
- (V) (B) **Burn**
- (K) (C)

Aspect of Injury

- Antenor front
- Cantral
- (U) Injured unknown aspect

(W) Whole region

- Abresion
- Aruisson
- Concussion Contusion Crush

- Detachment, separation (G
- Fracture
- (U)
- 10) Other
- (P)
- (S) Sprain
- (T) (E)
- (W)
- IA)
- (B) Brain iDi Digestive
- Ears (0) Eye
- (H) Heart 0.03

- (D) Dislocation
- (Z) Fracture and dislocation Injured unknown lesion
- (L) Laceration
- Perforation puncture
- (R) Rupture

Total severance transaction System/Organ

- All systems in region
- Artenes veins
- (E)
- Injured unknown system

- integumentary
- Joints
- (K) Kidneys
- (L) Liver IM Muscles
- (N) Nervous system Putmonary - lungs
- Respiratory
- (\$) Skeletal (C) Soinal cord
- (Q) Spieen (1)Thyroid other endocrine gland (G) Uropendal

(V)

(4)

- **Abbreviated Injury Scale**
- (1) Minor injury

Vertebrae

- (2) Moderate injury (3) Serious injury
- Severe injury Critical injury (5) 16) Maximum (untrestable)
- 71 injured unknown severity

APPENDIX B

CODING INFORMATION FOR VEHICLE MAKE/MODEL

The primary source of information on vehicle make and model is vehicle inspection; the VIN provides vehicle make data. Secondary sources include the police report and interviews.

If the make of the vehicle is known, but if the model is not known, then Vehicle Model is coded as '999" (Unknown).

If the make of the vehicle is not known but the body type is known (e.g., a hit-and-run vehicle), then Vehicle Make is coded "99" (Unknown) and Vehicle Model is coded "999" (Unknown).

If no information is available for a vehicle, then Vehicle Make and Body Type are coded "99" (Unknown) and Vehicle Model is coded "999" (Unknown).

Vehicle models are organized into general groups. These groups are:

001-397 -	Passenger vehicle (automobile)
398 -	Other passenger vehicle
401-497 - 498 -	Light trucks (including truck based utility vehicles, mini vans, standard vans, van based station wagons, van based buses, van derivatives, compact pickup trucks, standard pickup trucks and truck based station wagons) Other light truck
701-797 - 798 -	Motored Cycles/ATCs/ATVs (including motorcycles, mopeds, minibikes, motorscooters and dirt bikes) (701 - 706 Motorcycles/Mopeds) (731 - 734 ATCs/ATVs) Other motored cycle
801-897 - 898 -	Medium/heavy trucks (includes all trucks over 10,000 lbs. GVWR except some pickup type trucks under Body Type code "31" -Standard pickup) Other medium/heavy truck
901-996 -	Buses
997 -	Other bus
998 -	Other vehicle (includes construction equipment, farm vehicles and go-karts)
999 -	Unknown

Within these groups, the model codes for automobiles and light trucks generally are not ordered to give any indication of vehicle size or type. However, the model codes for motored cycles, medium/heavy trucks, buses and other have specific definition. These definitions are:

Motored Cycles

701 0-50cc

702 51-124cc

703 125-349cc

704 350-449cc

705 450-749cc

706 750cc or greater

All Terrain Cycles/Vehicles

731 0-50cc

732 51-124cc

733 125-349cc

734 350cc or greater

Trucks and Buses

- 881 Medium/Heavy CBE
- 882 Medium/Heavy COE/low entry
- 883 Medium/Heavy COE/high entry
- 901 Bus conventional front engine
- 902 Bus front engine/flat front
- 903 Bus rear engine/flat front
- 950 Truck based motor home

Other

- 398 Other passenger vehicle
- 498 Other light truck
- 798 Other motored cycle
- 898 Other medium/heavy truck
- 997 Other bus
- 998 Other vehicle (farm vehicle, go-kart)

Variable Name: Vehicle Make (specify):

Element Values:

Passenger Vehicles/Light Trucks (01-69)

		GV06 Subpage		ç	GV06 ubpage
01	American Motors	1st	30	Volkswagen <u>s</u>	(20)
02		(2)	31	Alfa Romeo	(21)
UZ	Jeep (includes	(2)	32	Audi	(21)
03	Kaiser-Jeep) AM General	(2)	33	Austin/Austin Healey	
03	An General	(2)	34	BMW	(22)
06	Chavelon	(2)	35	Nissan/Datsun	(23)
07	Chrysler	(3)	36	Fiat	(24)
08	Dodge	(4)	37	Honda	
	Imperial	(6)			(25)
09	Plymouth	(6)	38	Isuzu	(26)
10	Eagle	(7)	39	Jaguar	(27)
12	Ford	(8)	40	Lancia	(27)
13	Lincoln	(10)	41	Mazda	(28)
14	Mercury	(11)	42	Mercedes Benz	(29)
	5	(10)	43	MG	(30)
18	Buick	(12)	44	Peugeot	(30)
19	Cadillac	(13)	45	Porsche	(31)
20	Chevrolet	(14)	46	Renault	(31)
21	Oldsmobile	(16)	47	Saab	(32)
22	Pontiac	(17)	48	Subaru	(32)
23	GMC	(18)	49	Toyota	(33)
24	Saturn	(19)	50	Triumph	(34)
			51	Volvo	(35)
29	Other domestic: GV06 =	(19)	52	Mitsubishi	(36)
	001 - Studebaker/Avanti		53	Suzuki	(37)
	002 - Checker		54	Acura	(37)
	398 - Other domestic		55	Hyundai	(38)
	(i.e., DeSoto		56	Merkur	(38)
	Hudson, Packard)		57	Yugo	(38)
	·		58	Infiniti	(39)
			59	Lexus	(39)
			60	Daihatsu	(39)
			69	Other foreign	(40)

Motored Cycle/ATC/ATV (70-79)

		GV06	GVO)6
		<u>Subpage</u>	Subpa	ge
70	BSA	$\overline{(41)}$	78 All mopeds other (41	1)
71	Ducati	(41)	than those above	•
72	Harley-Davidson	(41)	79 Other Motored Cycle (41	.)
73	Kawasaki	(41)		•
74	Moto-Guzzi	(41)	Also see: [34] - BMW (22	2)
75	Norton	(41)	[37] - Honda (25	
76	Yamaha	(41)	[50] - Triumph (34	•
		, ,	[53] - Suzuki (37	•

Medium/Heavy Trucks and Buses (80-89)

80 81 82 83 84 85 86 87 88 89	Brockway Diamond Reo/Reo Freightliner/White FWD International Harvester/Navistar Kenworth Mack Peterbilt Iveco/Magirus Other: GV06 = 801 - Autocar 802 - Auto-Union-DKW 803 - Divco 804 - Western Star 805 - Oshkosh	GV06 <u>Subpage</u> (43) (43) (43) (43) (42) (43) (43) (43) (43) (43)	[07] [12] [20] [23] [35] [36] [38] [42] [51]	ee: AM General Dodge Ford Chevrolet GMC Nissan/Datsun Fiat Isuzu Mercedes Benz Volvo Mitsubishi	(2) (5) (9) (15) (18) (23) (24) (26) (29) (35) (36)
	898 - Other truck (e.g. Ward LaFrance, Marmon)	,			
	901 - Grumman (bus) 902 - NeoPlan (bus) 950 - Truck based motorhome 997 - Other bus 998 - Other vehicle (i. farm vehicle, go-kart)	e.,			

Unknown (99)

99 Unknown

Source: Vehicle inspection, police report, and interview

Remarks:

Write the Vehicle Make in the available space for ready visual reference.

Code "99" (Unknown) is used for a "hit-and-run" vehicle unless reliable evidence indicates the vehicle's make.

Variable Name: Vehicle Model (specify):

Element Values:

MAKE <u>"01"</u>

AMERICAN MOTORS*

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Rambler/American	Rogue, Scrambler, 220, 440	all	3	3
002	Rebel/Matador	Barcelona, Classic Brougham, 550, 660, 770 Matador (-78), Marlin	all	114" MB = 4 118" MB = 5	4 5
003	Ambassador	Brougham, DPL, SST, DL, Limited, 880, 990	all	5	5
004	Pacer	Limited, DL	75-80	2	2
005	AHOX	(2 seater only)	68-70	2	2
006	Javelin	SST, AMX (71-74)	all	2	2
007	Hornet/Concord	Sportabout, Limited, DL, SC-360, SST, AMX (75-78)	all	2	2
008	Spirit/Gremlin	Limited, DL, Custom, X, GT (83-on) AMX (79-on)	all	2	2
009	Eøgle	Concord based	80-87	3	3
010	Eagle SX-4	Spirit/Gremlin besed	81-84	2	2
398	Other passenger vehicle		-	-	•
999	Unknown		•	-	-

^{*} Alliance, Encore, Premier--See Renault - Make *46*

MAKE <u>"02"</u>

JEEP (Includes KAISER-JEEP)

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
401	CJ-2/CJ-3/CJ-4	Military	-66	81" WB = 1 101" WB = 2	7** 7**
402	CJ-5/CJ-6/CJ-7	Scrambler, Golden Eagle, Renegade, Laredo, Wrangler	67-an	84" WB = 1 104" WB = 3	7**
403	YJ-series	Wrangler	86-an	1	7**
404	Wagoneer	Custom, Brougham Limited Grand Wagoneer	71-on	2	7** 7**
405	Cherokee	Wide Track, Chief, Commando, Jeepster, Grand (92-on)	all	2	7**
410	Pickup	J-10, J-20, Honcho	all	per WB	7**
411	Comanche	Chief	86-on	111" WB = 3 119" WB = 4	7** 7**
498	Other light truck		•	-	-
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE <u>"03"</u>

AM GENERAL

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
401	Dispatcher	Post Office (Jeep)	all	1	1
420	Dispatcher	DJ-series-Post Office Van	all	N/A	N/A
498	Other light truck		-	•	-
884	Medium/Heavy	Military off-road	•	•	•
898	Other medium/heavy truck		-	-	•
903	Bus (rear engine)	Transit	all	N/A	N/A
997	Other bus		all	N/A	N/A
999	Unknown		-	-	_

MAKE "06" CHRYSLER

COODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
009	Condobe	Crown, 300, LS	75-83	4	4
010	New Yorker/Newport/ 5th Avenue/Imperial	Custom, Royal, Brougham, Town and Country, 300 (-71)	-78 79-81	6 5	6 5
	·	(excludes all FWD)	82-89	4	4
014	New Yorker/E Class/ Imperial (90-on) 5th Avenue	FWD vehicles, Turbo	83-on	3	9***
015	Laser	Turbo, XE, XT	84-86	2	9***
016	Lebaron	Medallion, Salon (RWD) FWD except GTS or GTC Sport Coupe	77-81 82-on	4 2	4 9***
017	Lebaron GTS/GTC	GTS-Turbo GTC-Sport Coupe	85-on 87-on	3 2	9***
031	TC (Maserati Sport)	Turbo Convertible	88-on	1	1
035	Conquest	TSI, Turbo	87-on	2	2
398	Other passenger vehicle		-	-	-
472	Town and Country	Minivan	90-an	5	7**
999	Unknown		-	-	•

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE "07" DODGE

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Dart	Custom, Swinger, Sport, GT, Demon, Special, Special Edition, 170, 270, 340, 360	62-70 71-76	111" WB = 4 108" WB = 3	4 3
002	Coronet/Charger (-78)/ Magnum	Brougham, Custom, Superbee, Crestwood, Deluxe, XE, R/T, SE 440, 500, Police	-79	4	4
003	Polara/Monaco Royal Monaco	Custom, Special, Crestwood, Brougham, Police, Taxi	-76 77-78	5 4	5 4
004	∀iper		92-on	2	2
005	Challenger	R/T, T/A, Rallye	70-74	3	3
006	Aspen	Custom, Special Edition, Police, R/T, Sport	76-80	113" WB = 4 109" WB = 3	3 3
007	Diplomat	Medallion, Salon, S	77-an	4	4
800	Omni/Charger (83 on)	024, DeTomaso, Miser, GLH, GLHS Shelby, Charger 2.2, America, Expo	78-on	2	2
009	Mirada		80-83	4	4
010	St. Regis	Police, Taxi	79-81	5	5
011	Aries (K)	Custom, SE, LE	81-on	2	9***
012	400	LS	82-83	2	9***
013	Rampage (car based pickup)	2.2, GT, Sport	82-84	2	2
014	600	ES, Turbo	83-88	2	9***
015	Daytone	Turbo Z, Shelby Z, Pacifica, C/S Competition IROC R/T	84-an	2	9***
016	Lancer	Pacifica, Turbo, ES, Shelby	85-an	3	9***
017	Shadou	ES, Turbo	87-an	2	9***
018	Dynasty		88-on	-	-
019	S pirit	ES, Shelby, R/T	89-on	3	9***
0333	Challenger	all imported	78-83	2	2
034	Colt (excludes Vista)	RS, Turbo, Custom, GTS, DL, E, Pramier, Deluxe, Carousel, GT	74-76 77-80	2 <93" WB = 1	2 1
			80-an	1	1
035	Conquest	Turbo	84-86	2	2
039	Stealth		91-on		
040	Honeco		ÿ90-on	, , 3 ,	3
398	Other passenger vehicle		•	-	•

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"07"</u>

DODGE (Continued)

COODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
443	D50, Colt P/U Ram 50		-82 83-on	per WB per WB	8**
444	Vista	4 x 4	84-on	3	7**
445	Raider	Sport	8	1	8**
471	Ramcharger		ali	3	8**
472	Caravan	Mini-Ram, 112 and 119 WB, SE	84-an	112" WB = 4 119" WB = 5	7** 7**
473	B, W-series pickup	Ram, Custom, Royal, Miser	all	per WB	8**
474	D-series vans	Sportsman, Royal, Maxiwagon, Ram	all	7	7**
475	Van derivative	Kary Van	all	7	7**



Parcel Van

477	Dakota		87-an	112" WB = 3 124" WB = 6	8**
498	Other light truck		-	-	-
881	Medium/Heavy: CBE		all	N/A	N/A
882	Medium/Heavy: COE low entry		all	N/A	N/A
883	Medium/Heavy: COE high entry		all	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
901	Medium bus	(not van based)	all	N/A	N/A
99 7	Other bus		all	N/A	N/A
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

STIFFNESS

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE <u>"08"</u> IMPERIAL

MODEL

CCODE

010	Imperial	Leberon Mark Cross, Frank Sinatra editions	-76 81-83	6 4	6 4
398	Other passenger vehicle		-	-	-
999	Unknown		-	-	-
MAKE	<u>"09"</u>	PLYMOUTH			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Valiant/Duster (-76)/ Scamp	100, 200, Brougham, Signet Custom, Special 340/360, 340, 360, Twister	-76	108" WB = 3 111" WB = 4	3 4
002	Satellite/Belvedere	Belvedere 1/11, GTX, Roadrunner (-74), Sebring, Sebring Plus, Superbird, Brougham	-74	4	4
003	Fury	I, II, III, Roedrunner (75), Salon, VIP, Sport, Salon, Suburban	-74 75-78	5 4	5 4
004	Gran Fury	Seden, Broughem, Custom Sport, Suburben	75-81 82-an	5 4	5 4
005	Barracuda	Formula, S, 340, AAR, 'Cuda Gran Coupe	65-73	3	3
006	Volare'	Custom, Premier, Roadrunner (76-on), Police	76-80	109" WB = 3 113" WB = 4	3 4
007	Caravelle	Turbo, SE	85-an	3	9***
008	Horizon	TC-3, Miser, Turismo 2.2, Custom, SE, Duster (85-on) America, Expo	78-an	2	2
011	Reliant (K)	SE, LE	81-an	2	9***
013	Scamp (car based pickup	GT, 2.2	82-84	2	2
017	Sundance	Turbo	87-an	2	9444
019	Acclaim	LX, LE	89-an	3	9***
031	Cricket		71-72	2	2
032	Arrow	Fire Arrow, GS, GT	76-80	1	1
033	Sappero	all imported	78-83	2	2

INCLUDES

YEAR

SIZE

^{****} Code 9 applies only to frontal impacts. Use size code for stiffness for side or impacts.

MAKE	<u>"09"</u>	PLYMOUTH (Continued)			
CODE	MODEL	1 MCLUDES	YEAR	SIZE	STIFFNESS
034	Champ/Colt (excludes Vista)	Turbo, Custom - Station Wagon (84-on)	79-on 84-on	1 103" WB = 3	1 2
035	Conquest	TSI	84-89	2	2
036	CHANGED TO CODE 037 IN 199	90			
037	Laser	RS, Turbo	89-an	2	2
702	Other massenger vehicle		-	•	-

398	Other passenger vehicle		-	-	-
444	Vista	4 x 4	87-an	3	7**
471	Trailduster		all	3	8**
472	Voyager (minivan)	SE.	84-an	112" WB = 4 119" WB = 5	7** 7**
474	Van-fullsize	Voyager, Sport, Premier	all	7	7**
477	Arrow pickup (foreign)		all	per WB	8**
498	Other light truck		•	•	-
999	Unknown		-	•	•

MAKE	<u>"10"</u>	EAGLE				
COOE	MODEL		INCLUDES	YEAR	SIZE	STIFFNESS
034	Summit	DL, LX		89-an	3	3
037	Talon			90-an	2	2
040	Pr e mi <i>e</i> r	LX, ES		88 -on	3	3
044	Medallion	DL, LX		88-an	3	3
398	Other passenger vehicle			88-on	•	-
472	Summit Wagon			92-on	99.2 18 = 2	7 4*
			·	_	-	-
999	Unknown					

^{**} Applies to front and rear impacts. Use size for side impacts.

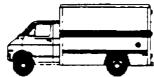
MAKE <u>"12"</u> FORD

CCODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Falcon	Sprint, GT, Futura	thru-70	4	3
002	Fairlane	Torino thru 1970	thru-70	4	4
003	Mustang/Mustang []	Mach, Boss, Grande, Cobra Ghia, SVO, GT, LX, Shelby	65-73 74-on	3 2	3 2
004	Thunderbird (all sizes)	Landau, Heritage, Turbo coupe, Elan, Fila, Sport, LX	72-76 58-71, 77-79	5	6
		SC, Sport, LX	55-57, 80-88 89-on	3 4	3 4
005	rud II	S, Squire, Brougham	77-79	4	4
006	LTD/Custom/Galaxie (all siz e s)	XL, Landau, Ranch Wagon, Country Squire, S, 500, Brougham, XL GT	thru-77 78-82 83-on	5 4 3	5 4 3
007	Ranchero	Falcon/Fairlane based Torino/LTD II based	thru-71 72-79	3 4	3 4
800	Maverick	Grabber	70-77	3	3
009	Pinto	Parry, MPG, ESS	71-80	1	1-Front 2-Rear
010	Torino/Gran Torino/Elite	GT, Cobra, Sport, Squire, Brougham	71-76	4	4
011	Granada	ESS, Ghia	75-82	3	3
012	Fairmont	Futura, Sport Coupe	78-83	3	3
013	Escont/EXP	L, GL, GLX, SS, GT, EX	81-an	1	9***
015	Тетро	L, GL, GLX, Sport, 4 x 4	84-an	2	9***
016	Crown Victoria		81-an	4	4
017	Taurus	MT-5, L, GL, LX, SHO	8 6-on	3	3
018	Probe	GL, LX, GT	88-on	2	2
031	English Ford	Contine		per WB	per WB
0352	Fiesta	Sport, Chia	78-80	1	1
033	Festiva		88-on	1	1
398	Other passenger vehicle	Laser	all	per WB	per WB

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"12"</u>	FORD	(Continued)
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CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
470	Bronco II/Bronco (-77)/ Explorer	Eddie Bauer, XL, XLT, Explorer (90-on)	83-on	1	7**
471	Bronco-fullsize	Eddie Bauer, Custom, XL, XLT	78-on	3	8**
472	Aerostar	XLT, Cargo Van	86-an	7	7**
473	F-series pickup	F-100 - F-350	all	per WB	8**
474	E-series vans	Econoline, Clubwagon, Chateau	all	7	7**
475	Van derivative	1.e.:	all	7	7**



Parcel Van

477	Ranger	Supercab, 4 x 4, STX	82-an	108" WB = 3 114" WB = 4	8** 8**
478	Courter	Imported pickup	all	7	7**
498	Other light truck		-	-	-
881	Medium/Heavy CBE	F-5 through F-8 L-series, FT-series	all	N/A	N/A
882	Medium/Heavy COE low entry	C/CT series	all	N/A	N/A
883	Medium/Heavy COE high entry	C/CLT series	all	N/A	N/A
898	Other medium/heavy truck		-	-	-
901	Medium bus	B-series (not van besed)	att	N/A	N/A
997	Other bus		all	N/A	N/A
998	Other vehicle		-	•	-
999	Unknown		-	-	-

 $^{^{\}mbox{\scriptsize mix}}$ Applies to front and rear impacts. Use size value for side impacts.

LINCOLN

MAKE <u>"13"</u>

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Continental/Town Car	Continental (-81), Town Car (82-on)	thru-79	6	6
			8 0-on	4	5
002	Mark	1, 11, 111, IV, V, VI, VII,	-70	4	4
		LSC, all Signature/Designer Series	71-80	5	5
			80-83	4	4
			84-an	3	3
005	Continental (82-on)	All Signature/Designer Series	82-87	4	5
			88-on	3	3
011	Versailles		77-80	3	3
398	Other passenger vehicle		-	-	-
999	Unknown		-	-	-

MAKE <u>"14"</u>

MERCURY (MERKUR: See "56")

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
002	Cyclone	GT, CJ, Spoiler	thru-71	4	4
003	Capri-domestic	RS, Turbo, GS, Black Magic	79-86	2	2
004	Cougar/XR7	XR-7, RS, LS, GS, Eliminator, Bougham, Villager, (includes all body styles)	67-76 77-79	4 114" WB = 4 118" WB = 5	4 4 5
			80-88 89-on	3 4	3
006	Marquis/Monterey	Marauder, X-100, Parklane, S-55, Custom, Brougham, Montclair, Grand Marquis	thru-78	121" WB = 5 124" WB = 6	5 6
			79-82 82-an	4 106" WB = 3 114" WB = 4	4 3 4
800	Comet	Callente, GT, Voyager, 202, Capri (66-67)	62-67 71-77	4 3	4 3
009	Bobcat	Runabout, Villager	75-80	1	1-Front 2-Rear
010	Montego	Comet (68-70), GT, HX, Villager, Brougham	68 -73 72-76	3 114" WB = 3 118" WB = 4	3 3 4
011	Monarch	Ghia	75-80	3	3
012	Zephyr	GS, Z-7	78-83	3	3
013	Lynx/LN-7 (82-83)	L, LS, GS, RS, XR-3	81-an	1	9***
015	Topaz	L, LS, GS, 4 x 4	84-an	2	9***
017	Sable	LS, GS	8 6-an	3	3
031	Caprı - foreign	Capri II 2 + 2	70-77 90-an	2 1	2
033	Pantera	deTomaso	72-74	2	2
036	Tracer	i, Gi	88-on	1	1
398	Other passenger vehicle		•	•	-
999	Unknown		•	-	-

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"18"</u>

BUICK

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Special/Skylank	GS, GS-350, GS-400, GS-455, GS California, Sport wagon, Custom	thru 72	4	4
002	LeSabre/Centurion/ Wildcat	Estate Wagon, Luxus, Invicta, Custom, Limited T-Type	-76 77-85 86-an	6 4 4	6 4 9 444
003	Electra/Electra 225/ Park Avenue (91-on)	Eimited, Park Avenue, Ultra	-76 77-84 85-on	6 5 4	6 5 9***
004	Roadmaster	Estate Wagon, Limited	91-on	4	4
005	Rivieca	S-Type, T-Type	63-65 66-76 77-85 86	4 5 4 3	4 5 4 9***
007	Century	Luxus, T-Type, FWD (82-on) Custom, Regal (72-77)	thru 77 78-81 82-an	4 3 3	4 3 9***
008	Apollo/Skylank*	Skylark (75)*, S/R	73-76	4	4
010	Regal	Turbo, Luxus, Grand National, GNX, T-Type	78-88	3	3
012	Skyhauk	S-Type, Roadhawk, T-Type, GT	75-81 82-an	2 2	2 9***
015	Skylark (76-85)	(except 75), S/R, S, Limited, Sport, T-Type	76-79 80-85	4 3	4 9***
018	Somerset/Skylark**	Skylark (86-on)**, Somerset, \$\$ Regal, Custom, Limited, T-Type	8 5-on	3	9***
020	Regal (FMD)	Limited	88-on	3	9***
021	Reatta		88-an	TBO	TBD
031	Opel Kadett		-75	2	2
032	Opel Manta	1900, Luxus, Rallye, Sports Coupe	-75	2	2
033	Opel GT		-75	2	2
034	Opel Isuzu	Deluxe, Sport	76-79	1	1
398	Other passenger vehicle		-	-	-
999	Unknown		-		_

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE "19" CADILLAC

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
003	Deville/Fleetwood	Coupe de Ville, Sedan de Ville,	-76	6	6
•••	(except Limousine)	Fleetwood Bougham, Fleetwood 60 Special,	RMD 77-on	5	5
	,	d'Elegance	FMD 85-on	4	9***
004	Limousine	Fleetwood 75, Formal DeVille-based	all	6	6
005	Eldorado	Biarritz, El-doro, Touring Coupe	-78	6	6
003	E (do) doo	planting at an of the ing and	79-85	4	4
			86-an	3	9***
006	Commercial Series	Ambulance/Hearse	all	6	6
009	Allante'		87-on	2	2
014	Seville	Elegante	76- 8 5	4	4
014	service	STS	86-an	3	9***
016	Cimerron	D'oro	82-88	2	9***
398	Other passenger vehicle		-	-	•
999	Unknown		-	-	•

^{****} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"20"</u>

CHEVROLET

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Chevelle/Malibu	Classic, Concours, S-3, Laguna, Nomad, 300, Greenbriar, Estate, Deluxe, SS 396/454	64-77 78-83	4 3	4 3
002	Impela/Caprice	Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman Brookwood, Kingswood	-76 77-an	5 St. Wgn.≃6 4	5 6 4
004	Corvette	Stingray	53-62 63-an	3 2	3 2
006	Corvair	Monza, Corsa, 500, Yenko	60- 69	N/A	N/A
007	El Camino	Royal Knight, SS	59-60 64-77 78-on	5 4 3	8** 8**
008	Nova (-79)	Chevy II, LN, LE, Concours SS-350/396, Rally	62-79	4	4
009	Camero	SS, RS, LT, Berlinetta, IROC-Z, Z28	67-on	3	3
010	Monte Carlo	LS, SS, Aerocoupe, Landau	70-77 78-88	4 3	4 3
011	Vega	GT, Cosworth	71-77	2	2
012	Monza	Spyder, 2 + 2, Towne Coupe	75-80	2	2
013	Chevette	S, Scooter, CS	76-87	2dr-1 4dr-2	1 2
015	Citation	X-11, Citation II	80-85	3	9***
016	Cavalier	CS, RS, 224	82-an	2	9***
017	Celebrity	CS, Eurosport, VR	82-on	3	9***
019	Beretta/Corsica	GT	88-an	3	9***
020	Lumina	(QM-18 based), Z-34, Euro	90-on	.3	gun
031	Spectrum		85-an	1	1
032	Nova/Geo Prizm	CL, MUMMI-built vehicles	85-on	2	9**
033	Sprint/Geo Sprint		85-on	1	1
034	Geo Metro	LSi, #Fi	89-an	1	1
035	Geo Storm	esi	85-an	1	1
398	Other passenger vehicle			•	_

^{**} Applies to front and rear impacts. Use size value for side impacts.

Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE "20" CHEVROLET (Continued)

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
470	S-10 Blazer	S-10 p/u based (100,5# 48)	83-on	2	7**
471	Fullsize Blazer	K-series, fullsized p/u based	69-an	3	8**
472	Astro Van	Minivan	85-on	7	7**
473	C-series pickup	C10-C30, Silverado K-series	all	per WB	8**
474	G-series van	Beauville, Chevy Van, Sport Van	all	7	7**
475	Van derivative	Hi-cube, Parcel Van	all	7	7**
476	Suburban	All models	all	6	8**
477	s-10		82-on	per WB	8**
478	LUV	Imported pickup	all	7	7**
479	Geo Tracker	LS1	89-on	2	8**
480	Lumina APV		90-an	per WB	TBD
498	Other light truck	Includes Grummen LLV Postal Vehicle	•	•	•
881	Medium/Heavy CBE	C50/60/65; M60/65; H70/80/90; J70/80/90; Bison 90; all other CBE	all	N/A	N/A
88 2	Medium/Heavy COE low entry	T60/65 - all other COE low entry	all	N/A	N/A
883	Medium/Heavy COE high entry	Titan 90, all other COE high entry	all	N/A	N/A
898	Other medium/heavy truck	•	all	N/A	N/A
901	Bus	S-60 series	all	N/A	N/A
997	Other bus		alt	N/A	N/A
999	Unknown	-	•	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE <u>"21"</u>

OLDSMOBILE

C000E	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Curtiess (RMD-only)	Supreme, S, LS, Salon	-77	4	4
		Brougham, Vista Cruiser, F85 (thru 72) Rallye 350, Hurst Olds, 442, Calais, Classic (88)	78-88	3	3
002	Delta 88	Royale, Custom, Delta, Jetstar 88,	-76	6	6
		Delmont 88, Starfire (thru 66),	77-85	4	4
		Custom Cruiser	86-an	4	9***
003	Ninety-Eight	Regency, Luxury	-76	6	6
			77-84	5	5
			85-on	4	4
005	Toronado	XSR, Trofeo, Brougham Custom	66-78	5	5
			79-85	4	4
			86-an	3	3
006	Commercial Series	Ambulance/Hearse	all	6	6
012	Starfire	SX, GT	75-80	2	2
015	Omega		RWD 75-79	4	4
		X-body type	FWD 80-85	3	9
016	Firenza	S, LS, SX, Cruiser, GT	82-88	2	9***
017	Ciera	Cutlass Ciera, Brougham, ES	8 2-on	3	9***
018	Calais	GT, ES, 500	85-on	3	9***
020	Cutless (FMD)	Supreme	8 8-an	3	9***
921	Achieva	sc	92-on	3	9***
398	Other passenger vehicle		-	-	-
470	Bravado		91-on	TBO	TBD
480	Silhouette		90-on	per WB	TBD
999	Unknown		-	_	

Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"22"</u>

PONTIAC

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Lemans/Tempest (thru 79)	Safari, T-37, Luxury, Grand Sport,	thru 77	4	4
٠.,	Edia Syrapest (till a 17)	GTO (-73), GT-37, Sprint, Judge Grand AM (73-75) Grand Lemans	78-79	3	3
002	Bonneville/Catalina/	Brougham, Grand Safari, Safari,	-68	5	5
	Parisienne*	Grandville, 2+2 Executive, Stanchief SE, SSE, SSEE	69 -76 77-81	6	6 4
		statumer sc, ssc, sact	82-84	3	3
			87-an	4	4
		* Parisienne	83-84	4	4
005	Fiero	2M4, 2M6, GT, SE	84-88	1	1
800	Ventura	II, SJ, Sprint, GTO (74-on) Custom	71-77	4	4
009	Firebird/Trans AM	Esprit, Formula, GTA, Redbird,	67-81	3	3
007	THE HAND AT	Yellowbird, Skybird, SE	82-on	2	2
010	Grand Prix (RWD)	J, LJ, SJ, Brougham, 2+2	63-72	5	5
		-,,,,,	73-77	4	4
			7 8-87	3	3
011	Astre	Safarı, SJ, Custom	75-77	2	2
012	Sumbird (thru 80)	Safarı, Sport, Formula	76-8 0	2	2
013	T-1000/1000		81-87	2dr-1	1
•	. 1000, 1000		2. 2.	4dr-2	2
015	Phoenix	LJ, SJ	77-79	4	4
			80-84	3	9 max
016	J2000/2000/Sumbird	Sumbind (85-an), LE, SE, GT, Conventible	82-on	2	9***
017	6000	STE, SE, LE	82-an	3	9***
018	Grand AM	SE, LE	80	3	3
		·	85-an	3	9***
020	Grand Prix (FWD)	SE, McLaren Turbo, GTP	88-on	3	Ç ess
031	Lemens (88-on)	SE, Tempest (Canadian)	88-on	2	2
398	Other passenger vehicle		•	-	-
480	Trans Sport		90-an	per WB	T B O
999	Unknown			_	

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"23"</u>

GMC

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
007	Caballero/Sprint	Sierra Madre del Sur, SP	-77 78-an	4 3	8** 8**
398	Other passenger vehicle		-	•	-
470	Jimmy/Tphoon	\$15 based (100.5" WB)	83-on	2	7**
471	Fullsize Jimmy/Yukon	fullsize pickup besed	all	3	8**
472	Safari (Minivan)		86-an	7	7**
473	C and K-series pickup	C15-35: K15-35	all	per WB	8**
474	G-series van	Rally Van, Vandura	all	7	7**
475	Van derivative	Micube, parcel van, Value Van, Magna Van, P-series	all	7	7**
476	Suburban	all models	all	6	8**
477	\$15/ \$15/Sonome	4x4, Syctone	82-an	per WB	8**
498	Other light truck	•	-	-	-
881	Medium/Heavy CBE	W5000/6000/7000 series, Brigadier/General models	all	N/A	N/A
882	Medium/Heavy COE low entry	W6000/W7000, all other COE, low entry	ail	N/A	N/A
883	Medium/Heavy COE high entry	Astro 95, all other COE, high entry	all	N/A	N/A
898	Other medium/heavy truck	-	ail	N/A	N/A
901	Bus	B6000	att	N/A	N/A
997	Other bus		all	N/A	N/A
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE <u>"24"</u>

SATURN

œ		KODEL	INCLUDES	YEAR	\$1ZE	STIFFNESS
001			SL2	91-on	3	3
002	: SC			91-an	2	2
398	Other pass	enger vehicle		-	+	-
999	Unknown			•	•	**

^{**} Applies to front end rear impacts. Use size value for side impacts.

MAKE <u>"29"</u>

OTHER DOMESTIC MANUFACTURER

COODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
001	Studebaker/Avanti	Lark, Gran Turismo, Hawk, Cruiser, all associated subseries	thru-66	per WB	= size
002	Checker	Marathon, Superba, Taxi, Aerobus	thru-82	per WB	= size
398	Other auto	Desoto, Excaliber, Stutz, Hudson, Packard	all	per WB	= size

MAKE <u>"30"</u>

VOLKSWAGEN

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Karmann Ghia		-74	1	1
032	Beetle 1300/1500	flat windshield, 94.5" WB	-77	1	1
033	Super Beetle	distinguished by curved windshield, 95.3" WB	71-80	2	1
034	411/412	Squarebeck/fastback	71-74	2	1
035	Squareback/Fastback	Type 3, 1600	-74	1	1
036	Rabbit	L, GT1, Sport, LS, Custom, DL, Deluxe	<i>7</i> 5-84	1	1
037	Dasher		74-81	2	2
038	Scirocco	16V	75-on	1	1
039	The Thing (181)		73-75	1	1
040	Jetta	GL, GLI	81-on	2	2
041	Quantum (82-88)/	Synco	82-on	2	2
042	Golf	Synco, GTI, Cabriolet, GT, GL	85-on	2	1
043	Rabbit pickup	car/based pickup	80-83	1	1
044	Fox	<u>e.</u>	87-on	1	1
045	Corrado		89-on	TBD	TBD
046	Passat		90-an	2	2
398	Other imported auto		-	-	-
472	Vanagon/Camper	Bus, Komhoi, Van	all	1	7**
473	EUrovan		92-on	•	*
498	Other light truck		-	-	-
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE	<u>"31"</u>	ALFA ROMEO			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Spider	All roadsters, Veloce, 1750/2000 roadsters	all	1	1
032	Sports Sedan	All 4 door sedans; Milano (86), Giulia, Super, Berlina, Alfetta, 1750/2000 sedans	all	per WB	= size
033	Sprint Veloce	All 2-door coupes; Alfetta GT, 1750/2000 GTV, Sprint GT	all	per WB	= size
034	GTV-6		81-on	1	1
035	164		89-on	T90	TBD
398	Other passenger vehicle		-	•	-
999	Unknown		-	-	-
MAKE	<u>"32"</u>	AUDI			
COODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Super 90		70-72	2	2
032	100	S, LS, GL Quettro (89-on)	70-77 89-an	3 3	3 3
033	Fax		74-79	2	2
034	4000	Quattro, Coupe GT, CS, S	80-	2	2
035	5000	Quattro, CS, S, Turbo	78-	3	3
036	80/90	Quattro	88 -on	2	2
037	200	Quattro	89-on	TBID	TBD
038	V-8 Quattro		90-an	TBID	TBD
398	Other passenger vehicle		-	-	-
999	Unknown		-	-	-

750cc-over

Unknown

999

MAKE	"33"	AUSTIN/AUSTIN HEALEY			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Marina	GT	att	2	2
032	America		all	1	1
033	Healey Sprite		all	1	1
034	Healy 3000	Healy 100	all	1	1
035	Mini		ali	1	1
398	Other passenger vehicle		-	-	-
999	Unknown		-	-	-
MAKE	<u>"34"</u>	BMW			
COODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	1600, 200z	Tii, 1800, 2000cs	-76	2	2
032	Coupe	2800Cs, 3.0Cs	69 -76	3	3
033	Bavaria Sedan	2500, 2800	69-74	3	3
034	3-series	318i, 320i, 325e, 325es, 32 5i	77-an	2	2
035	5-series	524i, 528i, 530i, 533i, 535i, TD	75-an	3	3
036	6-series	630, 633, 635, csi	77-an	3	3
037	7-series	733 i, 73 5i, L7	78-an	3	3
038	8-series	850	90-an		
398	Other passenger vehicle		-	-	-
	Motorcycles				
701 702 703 704 705	0-50cc 51-124cc 125-349cc 350-449cc 450-749cc				

MAKE <u>"35"</u>

NISSAN/DATSUN

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	F10		77-78	1	1
032	200/240 sx		78-83 84-on	1 2	1 2
033	1200/210/B210	Honeybee	71-82	1	1
034	Z-car, ZX	240/260/280z, 300 zx, Turbo 2 + 2 2 + 2	70-on 75-78 79-on	1 3 2	1 3 2
035	310		79-82	1	1
036	510	PL	68-73 78-81	2 1	2 1
037	610	PL	73-76	2	2
038	710	PL	74-77	2	2
039	810/Max ima		77-an	3	3
040	Roadster	SPL 311, SRL 311, 1600, 2000, convertible	-70	1	1
041	PL 411, RL 411		-67	1	1
042	Stanza	XE	82-an	2	2
043	Sentra		83-on	1	1
044	Pulsar	NX, EXA (86-on)	83-an	2	2
045	Micra		87-an	1	1
046	NX 1600/2000		92-an	ż	2
398	Other passenger vehicle		•	-	•
470	Pathfinder	MPV, 4 x 4	8 6-an	-	-
472	Van	XE, CXE	88 -on	1	7**
477	Datsun/Nissan Pickup	PL620, King Cab, Handbody	73-an	per WB	8**
480	Axxess		89-an	3	TBO
498	Other light truck	Patrol (1960)	-	-	•
883	Medium/Heavy COE high entry		atl	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size values for side impacts.

MAKE <u>"36"</u>

FIAT

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	124 (Coupe/Sedian)	Sport	67-75	1	1
032	124 Spider/Racer	Spider 2000/1500	68-83	1	1
033	Brava - 131		75-82	2	2
034	850 (Coupe/Spyder)		67-73	1	1
035	128		72-79	2	2
036	X-1/9		75-83	1	1
037	Strada		79-83	2	2
398	Other passenger vehicle	600, 1100	-	-	-
882	Medium/Heavy COE low entry		all	N/A	N/A
883	Medium/Heavy COE high entry		all	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
999	Unknown		-	-	

TIME 37	MAKE	<u>"37"</u>	HONDA	(ACURA:	See	*54*)
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CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Civic/CRX	1300, 1500, CVCC, DX, EX, YX CRX, S, Si, HF, 44D Wagon	all	1	1
032	Accord	EX, CYCC, SE-1, EX-1, EX wagon	-81	1	1
			82-86 87	2 3	Qaaa Qaaa
			O.	J	,
033	Prelude	Si	80-83	1	1
			84-an	2	9***
034	600	Coupe, Seden	all	1	1
398	Other passenger vehicle	all Honda's not listed above	all	per WB	= size
	Motorcycle				
701	0-50cc				
702	51-124cc				
703	125-349cc				
704	350-449cc				
705	450-749cc				
706	750cc or greater				
	All Terrain Cycles/Yehicle	s			
731	0-50cc	includes all ATCs/ATVs			
732	51-124cc	designed solely for			
733	125-249cc	off-road use.			
734	350cc or greater				
999	Unknown		-	-	-

^{****} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

MAKE <u>"38"</u>

ISUZU

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	I-Mark	S, RS, Turbo	85-on	1	1
032	Impulse	Turbo, RS	84-an	2	2
033	Stylus		90-on	2	2
398	Other passenger vehicle		-	-	-
470	Trooper II	Deluxe, LS	84-an	2	7
471	Rodeo		91-on	TBD	TBD
477	P'up (pickup)	4 x 4	all	3	8**
479	Amigo		89-on	2	8**
498	Other light truck		-	-	-
881	Medium/Heavy - CBE		all	N/A	N/A
882	Medium/Heavy COE Low entry		ali	N/A	N/A
883	Medium/Heavy COE high entry		all	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

999 Unknown

MAKE	<u>"39"</u>	JAGUAR			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	XJ-S Coupe		76-an	3	3
032	XJ6/12 Sedan/Coupe	L, XJ, C, 340/420 Sedan	all	3	3
033	XXE	V12, Roadster, 120 2 + 2	all	2 3	3 3
398	Other passenger vehicle		-	-	-
999	Unknoun			-	٠
MAKE	<u>"40"</u>	LANCIA			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Beta Sedan - HPG		-80	2	2
032	Beta Coupe - Zagato		-82	1	1
033	Scorp1 on		-78	1	1
398	Other passenger vehicle		-	•	-

MAKE <u>"41"</u> MAZDA

CODE	MODEL	INC	LUDES YEAR	SIZ	ZE STIFFNESS
031	RX2		72-74	4 2	2 2
032	RX3		72-77	3 1	1 1
033	RX4		74-77	3 2	2 2
034	RX7	S, GS, GSL, SE	79-or	ר 2	2 2
035	323/GLC/Protege	DX, Protege (90-an)	77-or	٠ ،	1 1
036	Cosmo		76-78	3 2	2 2
037	626	GT, GS, GSL, SE	79-or	n 2	2 2
038	808		72-77	7 1	1 1
039	Mizer		76	1	1 1
040	R-100		-72	? 1	1 1
041	616/618		-77	? 2	2 2
042	1800		-72	? 2	2 2
043	929		88 -or	ı -	
044	MX-6	Turbo	88-or	1 2	2 2
045	Miata		90-ar	n 1	1
046	10(+3	&	92·or	1 1	1
398	Other passenger vehicle		-	-	
470	Navajo		91-or	n .3	Burk
472	MPV		89-ar	3	7**
477	Mazda pickup	B-2000, B2200, SE-5, L	X, alt	рег	WB 8**
498	Other light truck		-	-	
999	Unknown		•		

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE <u>"42"</u> MERCEDES BENZ

(Check "INCLUDES" comments carefully to determine proper code.)

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	200/220/230/240/250/260/ 280/300	Sedan and 5 passenger "C" only, SE, CD, D, SD, TD, TE, CE, E. <u>DOES NOT</u> Include <u>280 SE</u> (75 on), <u>300 SD</u> - see code 037	all	3	3
032	230/280 SL	2 seater only	all	1	1
033	300/350/380/450/500 SL/ 560 SL	2 seater only, 300/500 SL (90-on)	all	2	2
034	350/380/420/450/560 SLC		all	4	4
035	280/300 SEL		all	4	4
036	380/420/450/500/560 SEL and 500/560 SEC/350 SOL/ 300 SDL		all	4	4
037	300 SE/380/450 SE	280 s, 280 sE (75 on), 300 sp seden/350 sp	all	4	4
038	600, 6.9 Sedian	Pullman	all	6	6
039	190	D, E, 2.3, 2.5	ali	3	3
398	Other passenger vehicle		-	-	-
475	Van derivative	Kurbstar	82-on	N/A	N/A
498	Other light truck		-	-	-
881	Medium/Heavy - CBE		all	N/A	N/A
882	Medium/Heavy - COE Low entry		all	N/A	N/A
883	Medium/Heavy - COE high entry		all	N/A	N/A
898	Other medium/heavy		all	N/A	N/A
901	Medium bus		all	N/A	N/A
997	Other bus		•	-	-
999	Unknown		-	-	-

MAKE <u>"43"</u> MG

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Midget	MKIII, 1500	-79	1	1
032	MGB	GT	-79	1	1
034	MGA		all	1	1
035	TA/TC/TD/TF		all	1	1
036	MGC	GT	-69	1	1
398	Other pessenger vehicle	Sport Sedan	-	-	-
999	Unknown		-	-	-

MAKE <u>"44"</u> PEUGEOT

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	304		71-73	3	3
032	403		-67	3	3
033	404		-70	3 4-su	3 4-sw
034	504/505	STI, STX, Turbo, S, GL, GLS, Liberte,	70-an	3 4-su	3 4-su
035	604	SL, D	77-84	3	3
036	405	Mi-16	89-on	3	9***
398	Other passenger vehicle		-	-	-
	Motorcycle				
701	0-50cc				
702	51-124cc				
999	Unknown		-	-	-

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impact.

MAKE	<u>"45"</u>	PORSCHE			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	911	L, S, E, T, SC, Carrera, Slopenose	all	1	1
032	912	Ε, Τ	-69	1	1
033	914	s, 1.8, 2.0, 914/6	70-76	2	2
034	924	Turbo, S	77-88	1	1
035	928	S	78-an	2	2
036	930	Turbo	79	1	1
037	944	Turbo, S	83-on	1	1
038	959		89-an	1	1
039	968		92-an	1	1
398	Other passenger vehicle	Spyder, Speedster, 356	-	-	-
999	Unknown		-	-	-
MAKE	<u>"46"</u>	RENAULT			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	MODEL LeCar	INCLUDES 5	YEAR 76-83	SIZE 2	STIFFNESS 2
031	LeCar Dauphine/10/R-8	5	76-83	2	2
031 032	LeCar Dauphine/10/R-8 Caravelle	5 all models	76-83 thru- 171	2	2
031 032 033	LeCar Dauphine/10/R-8 Caravelle	5 all models R12L, R12TL	76-83 thru- 171 72-77	2 1	2 1
031 032 033 034	LeCar Dauphine/10/R-8 Caravelle 12	5 all models R12L, R12TL R15TL	76-83 thru- 171 72-77 73-76	2 1 2 2	2 1 2 2
031 032 033 034 035	LeCar Dauphine/10/R-8 Caravelle 12 15	5 all models R12L, R12TL R15TL R16	76-83 thru- \71 72-77 73-76 69-72	2 1 2 2 3	2 1 2 2 3
031 032 033 034 035 036	LeCar Dauphine/10/R-8 Caravelle 12 15 16	5 all models R12L, R12TL R15TL R16 R17, Gordini Coupe, R17TL	76-83 thru- \forall \tau \tau \tau \tau \tau \tau \tau \tau	2 1 2 2 3 2	2 1 2 2 3 2
031 032 033 034 035 036	LeCar Dauphine/10/R-8 Caravelle 12 15 16 17 R181	5 all models R12L, R12TL R15TL R16 R17, Gordini Coupe, R17TL Sportwegon	76-83 thru- \footnote{71} 72-77 73-76 69-72 73-80 81-on	2 1 2 2 3 2 2	2 1 2 2 3 2 2
031 032 033 034 035 036 037	LeCar Dauphine/10/R-8 Caravelle 12 15 16 17 R181 Fuego Alliance/Encore	5 all models R12L, R12TL R15TL R16 R17, Gordini Coupe, R17TL Sportwagon TL, TS, GTL, GTS, Turbo	76-83 thru- \footnote{71} 72-77 73-76 69-72 73-80 81-on 82-85	2 1 2 2 3 2 2 2	2 1 2 2 3 2 2 2
031 032 033 034 035 036 037 038	LeCar Dauphine/10/R-8 Caravelle 12 15 16 17 R181 Fuego Alliance/Encore GTA, Convertible	5 all models R12L, R12TL R15TL R16 R17, Gordini Coupe, R17TL Sportwagon TL, TS, GTL, GTS, Turbo L, DL, Limited, X-37,	76-83 thru- \footnote{71} 72-77 73-76 69-72 73-80 81-on 82-85 83-on	2 1 2 2 3 2 2 2 2	2 1 2 2 3 2 2 2 2
031 032 033 034 035 036 037 038 039	LeCar Dauphine/10/R-8 Caravelle 12 15 16 17 R181 Fuego Alliance/Encore GTA, Convertible Alpine	all models R12L, R12TL R15TL R16 R17, Gordini Coupe, R17TL Sportwagon TL, TS, GTL, GTS, Turbo L, DL, Limited, X-37,	76-83 thru- \frac{71}{71} 72-77 73-76 69-72 73-80 81-an 82-85 83-an	2 1 2 2 3 2 2 2 2	2 1 2 2 3 2 2 2 2 2

999 Unknown

MAKE <u>"47"</u> **SAAB** CODE MODEL INCLUDES YEAR SIZE STIFFNESS 99/99E/900 031 S, Turbo, Cabriolet all 2 2 II, III, V-4 032 Sonnett 68-74 1 1 033 95/96/97 -73 2 2 034 9000 S, Turbo 85-on 3 3 398 Other passenger vehicle Monte Carlo 850 999 Unknown MAKE <u>"48"</u> **SUBARU** CODE MODEL INCLUDES YEAR SIZE STIFFNESS 031 OL/FE/G/GF/GL/GLF/STD/ 72-89 4 wheel drive, Turbo per WB ≠ size Loyale 90-an 032 Star 70-71 2 2 033 360 69-70 1 1 034 Legacy 89-an 2 2 035 XT/XT6 4MD furbo, convertible, DL 86-an 2 2 036 Justy DL, CL 87-on 1 1 037 SVX 92 · an 3 3 043 DL, GL 2 Brat 78-an 2 398 Other passenger vehicle 999 Unknown

MAKE <u>"49"</u>	TOYOTA
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CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Corone	Mark II, Custom, 1900, 2000, Deluxe	-82	2	2
032	Corolla	1100, 1200, 1600, SR-5, LE, Deluxe, Custom, FX16	69-85 FND 86-an	1 2	1 9***
033	Celica	1900, 2000, GT, ST, GTS	72-on	2	2
034	Supra	Celica Supra, Soarer	79-an	3	3
035	Cressida		78-on	3	3
036	Crown	2300, 2600	-71	3	3
037	Carina	2000	72-73	2	2
038	Tercel	Corolla Tercel, 44D Wagon	80-an	2	2
039	Starlet		81-84	1	1
040	Camry	LE, Deluxe, XLE	83-on	3	3
041	MR-2		85-on	1	1
042	Paseo		92-an	1	1
398	Other passenger vehicle	2000 GT Coupe (1960s)	-	-	-
471	Landcruiser		76-an	1	8**
472	Minivan Previa	LE, Cergo	84-90 91-an	1	7**
473	4-Runner		85-an	3	8**
477	Pickup	SR-5, Extra Cab, Sport, LW44, Chinook, Wonder Wagon	74-an	per WB	8**
498	Other light truck		-	-	-
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

^{****} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impact.

MAKE	<u>"50"</u>	TRIUMPH
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CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Spitfire	1, 11, 111, 1V, 1500	-81	1	1
032	GT-6	MK3	67-73	1	1
033	TR4	TR2, TR3, TR4A	-68	1	1
034	TR6		<i>6</i> 9-76	1	1
035	TR7/8		75-81	1	1
036	Herald	Vitesse	-	-	-
037	Stag		71-73	2	2
398	Other passenger vehicle	2000, 1200 series	-	-	-
	Motorcycles				
701 702 703 704 705 706	0-50cc 51-124cc 125-349cc 350-449cc 450-749cc 750cc or greater				
999	Unknown		-	-	•

MAKE <u>"51"</u>

VOLVO

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	122	s	-68	3	3
032	142/144/145	S, E, GL, GLS, Deluxe	-74	3	3
033	164	S, E	69-75	3	3
034	240/242/244/245	DL, GL, GLE, GLT, Deluxe	75-	3	3
035	262/264/265	GL.	76-82	-	-
036	1800	E, S, ES	-73	2	2
037	P-544				
038	760 780	GLE, Turbo	83-on 87-on	3 3	3 3
039	740	GLE, GT, Turbo, GL	86∙an	3	3
040	940	GLE, Turbo, SE	92-an	3	3
041	960		92-an	3	3
398	Other passenger vehicle		-	-	-
881	Medium/Heavy CBE		all	N/A	N/A
882	Medium/Heavy COE Low entry		all	N/A	N/A
883	Medium/Heavy COE high entry		all	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
901	Medium bus		all	N/A	N/A
997	Other bus		all	N/A	N/A
999	Unknown		-	-	-

MAKE <u>"52"</u>

MITSUBISHI

C00E	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Starion	2 + 2, LE, Turbo	83-on	2	2
032	Tredia	L, LS, Turbo	83-88	2	2
033	Cordia	i. Turbo	53-8 8	2	2
034	Galant	ECS, Signa (thru 88)	85-on	3	3
035	Mirege	ŧ, Turbo	85-on	1	1
036	Precis		88-on	1	1
037	Eclipse		90-an	2	2
038	Sigme		89-on	-	
039	3000GT		91-on		
040	Diamante		92-on		*
398	Other passenger vehicle		-	_	- -
470	Hontera	Sport	8 5~on	1	en e
472	Minivan	1.5	87-an	1	7**
473	Expo Magon	ERV, Sport	92~on	99,2" NB = 2 107,1" NB = 3	
477	Pickup	Mighty Max, SPX, 4 x 4	all	3	8**
498	Other light truck		-		
882	Medium/Heavy - COE low entry	FUSO FE	all	N/A	N/A
898	Other medium/heavy truck		-	•	_
999	Unknown		_		_

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE	"53"	SUZUKI

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	SA310	GLX	86-an	1	1
034	Swift	GTi, GTX	89-an	1	1
398	Other passenger vehicle		-	-	-
470	Samurai	Standard, Deluxe	85-on	1	8**
471	CHANGED TO CODE 479 IN 199	0			
479	Sidekick		8 9-an	2	8**
498	Other light truck		-	-	-
	Motorcycles				
701	0-50cc				
702	51-124cc				
703	125-349cc				
704	350-449cc				
705	450-749cc				
706	750cc-over				
	All Terrain Cycles/Yehicle	s			
731	0-50cc	includes all ATCs/ATVs			
732	51-124cc	designed solely for			
733	125-349cc	off-road use.			
734	350cc or greater				
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE "54" ACURA

CODE	MODEL		INCLUDES	YEAR	SIZE	STIFFNESS
031	Integra	RS, LS, QS		86-an	2	Ç.
032	Legend			86-on	3	9***
033	HESK			91-on		
398	Other passenger vehicle	•		-	-	-
999	Unknown			•	•	-

^{***} Code 9 applies only to frontal impacts. Use code for stiffness for side or rear impact.

MAKE	<u>"55"</u>	HYUNDAI			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Porty		84-an	2	2
032	Excel	CL, CLS	84-an	1	1
033	Screta		89-on	3	3
034	Scoupe		91-on	1	1
035	Elantra		92-on	2	2
398	Other passenger vehicle		-	-	-
999	Unknown		•	-	-
MAKE	<u>"56"</u>	MERKUR			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	XR4Ti	Turbo	85-an	3	3
032	Scorpio	Turbo	87-on	3	3
398	Other passenger vehicle		-	-	-
999	Unknown		-	-	-
MAKE	<u>"57"</u>	YUGO			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	GV	GVX, Cabriolet	86-an	1	1
398	Other passenger vehicle		-	-	-

MAKE	<u>"58"</u>	INFINITI			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	M30		90-on	3	3
032	Q45		90-an	4	4
033	G20		91-an		
398	Other passenger vehicle		-	-	-
999	Unknown		-	•	-
MAKE	<u>"59"</u>	LEXUS			
CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	ES-250/ES-300		90-an	3	3
032	LS-400		90-an	4	4
033	SC-300/SC-400	2-door Coupe	92-on	3	3
398	Other passenger vehicle		•	-	-
999	Unknown		-	-	-
MAKE	<u>"60"</u>	DAIHATSU			
CODE	HODEL	INCLUDES	YEAR	\$!Æ	STIFFNESS
031	Charade		90-on	3	3
398	Other passenger vehicle		*	*	•
479	Rocky		90-on		
498	Other light truck		**	#	**
999	Unknown		•	-	+

MAKE <u>"69"</u>

OTHER IMPORTS

CODE	MODEL	INCLUDES	YEAR	SIZE	STIFFNESS
031	Aston Martin	Lagonda, Vantage, Volante, Saloon	all	per WB	= size
032	Bricklin		all	per WB	= size
033	Citreon		all	per WB	= size
034	Delorean		all	per WB	= size
035	Ferrari		all	per WB	= size
036	Hillman		all	per WB	= size
037	Jensen	Healy	all	per WB	= size
038	Lamborghini	Countach 5000S, Jalpa	all	per WB	= size
039	Lotus	Europe, Esprit	all	per WB	= size
040	Maserati	Biturbo	all	per WB	= size
041	Morris	Minor	all	per WB	= size
042	Rolls Royce/Bentley	Cloud/shadow series	all	per WB	= size
043	Rover		all	per WB	= size
044	Simca		all	per WB	= size
045	Sunbeam		all	per WB	= size
046	TVR		all	per WB	= size
048	Desta		all	per WB	≃ size
049	Reliant		all	per WB	= size
052	Bertone	X/19	all	per WB	= size
053	Lada		all	per WB	= size
055	Sterling	8255/8255L	all	per WB	= size
398	Other imported auto	Morgan, Singer	all	per WB	= size

Vehicle Classification: Motored Cycle/ATC/ATV

Variable GVO5 Vehicle Make				Code	Variable GVO6 Vehicle Model	Code
	M C	ATC	ATV		Motored Cycles	
BMW	X			34	0-50cc	701
Honda	X	X	X	37	51-124cc	702
Peugeot	X			44	125-349cc	703
Triumph	х			50	350-449cc	704
Suzuki	X	Х	X	53	450-749cc	705
BSA	X			70	750cc-or greater	706
Ducati	X			71	•	
Harley-Davidson	х			72	All Terrain Cycles/V	'ehicles
Kawasaki	X	Х	X	73	0-50cc	731
Moto-Guzzi	х			74	51-124cc	732
Norton	х			75	125-349cc	733
Yamaha Moped other than	X	×	X	76	350cc or greater	734
listed above Other motorized	X			78	Unknown	999
cycle	X	X	X	79		
Unknown				99		

MAKE <u>"84"</u> INTERNATIONAL HARVESTER

CODE	MODEL	MODEL INCLUDES		SIZE	STIFFNESS
471	Scout	Scout II, Utility pickup, SS-2, Roadstar, 800 series, Traveler, Terra Traveltop	all	per WB	8**
472	Pickup/Panel	R-100-500, 900A-1500C/D, 1010-1510	all	per WB	8**
475	Multistop Van	Metro RM, 120-160, MS 1210, MS 1510	all	per WB	7**
476	Travelall	1010-1210, 100-200	all	per WB	8**
498	Other light truck		-	-	-
881	Medium Heavy - CBE	Loadstar/Fleetstar, Paystar, CBE Transtar, 4200, S-series Mixer	all	N/A	N/A
882	Medium/Heavy - COE low entry	co, vco, pco, 190-1950, Cangostar, LFM, 5370	all	N/A	N/A
883	Medium/Heavy - COE high entry	DCO, DCOT, UCO, VCOT, 405-series, COE Transtar, Unistar, Conco 7078, 9600	all	N/A	N/A
898	Other medium/heavy truck		all	N/A	N/A
901	Conventional bus	R153-1853 - Loadstar, 1603-1853	all	N/A	N/A
902	Bus-flat front, front engine	173FC, 183FC	all	N/A	N/A
903	Bus-flat front, rear engine	183RE, 193RE-transit	all	N/A	N/A
950	Motorhome		all	N/A	N/A
997	Other bus		all	N/A	N/A
998	Other vehicle		-	-	-
999	Unknown		-	-	-

^{**} Applies to front and rear impacts. Use size value for side impacts.

Vehicle Classification: Medium/Heavy Trucks and Buses

Variable GV05 Vehicle Make			Code	Variable GV06 Vehicle Model	Code	
	Truck	Bus				
AM General	X	X	03	Medium/Heavy - CBE	881	
Dodge	X	X	07	Medium/Heavy - COE/low entry	882	
Ford	X	X	12	Medium/Heavy - COE/high entry	883	
Chevrolet	X	X	20	Medium/Heavy - Other	898	
GMC	X	X	23			
Nissan/Datsun	X		35	Bus - conventional front	901	
Fiat	X		36	engine		
Isuzu	Χ		38	Bus - front engine/flat front	902	
Mercedes Benz	X	X	42	Bus - rear engine/flat front	903	
Volvo	X	X	51			
Mitsubishi	X		52	Truck based motorhome	950	
Brockway	X		80			
Diamond Reo/Reo	X		81	Unknown	999	
Freightliner/White	X		82			
FWD	X		83			
International Har-			84			
vester/Navistar	Х	X				
Kenworth	X		85			
Mack	X		86			
Peterbilt	X		87			
Iveco/Magirus	X		88			
Other: (if code "8	9" is		89	Autocar	801	
used for GV05, the				Auto-Union-DKW	802	
must be 801-805,		. ,		Divco	803	
902, 950, 997, or				Western Star	804	
irrespective of B		e)		Oshkosh	805	
·		-		Other truck: e.g., Marmon, Ward LaFrance, specify	898	
				Grumman (bus)	901	
				Neoplan (bus)	902	
				Truck based motorhome	950	
				Other bus	997	
				Other vehicle	998	

APPENDIX C

MISSING RECORD RULES

Under the NASS Crashworthiness Data System (CDS) the rules for the presence or absence of forms (records) in an accident will depend on whether data exists or has been collected. For example, if a vehicle is not inspected there will not be an Exterior Vehicle record; if an occupant does not have a recorded injury there will not be an Occupant Injury record. In the current year NASS CDS at least one of each record type will be required for an accident which includes (1) a towed, inspected, CDS applicable vehicle or (2) a non-towed, inspected, CDS applicable, AOPS vehicle involved in a CDC applicable event (or CDC is blank) with an occupant having a recorded injury. The rules for the presence and absence of each record type and whether partial or complete are as follows:

Accident Record

One required for every accident.

Accident Event Record

At least one required for every accident.

General Vehicle Record

Complete Record: Partial Record:

One required for every CDS applicable vehicle (GV07=01-49).

One required (completed through variable GV15) for every non CDS applicable

vehicle (GV07=50-99).

External Vehicle Record

Complete Record:

One required for every inspected (GV35=1 or 2) CDS applicable vehicle

(GV07=01-49) involved in a CDC applicable event.

Partial Record:

One required for every inspected CDS applicable vehicle not involved in a CDC applicable event (variables EV04-19 will be blank).

Missing Record:

(1) Not inspected (GV35=0) CDS applicable vehicle.

(2) Non CDS applicable vehicle (GV07=50-99).

Internal Vehicle Record Complete Record:

(1) Towed (GV09-1), inspected (GV35-1 or 2), CDS applicable vehicle (GV07-01-

49).

(2) Not towed (GV09=0 or 9), inspected, CDS applicable, AOPS (GV36=1) vehicle.

Missing Record:

(1) Towed, not inspected (GV35=0) CDS applicable vehicle.

(2) Not towed (GV09=0 or 9) CDS applicable, Non AOPS (GV36=0) vehicle.

(3) Non CDS applicable vehicle (GV07=50-99).

Occupant Assessment Complete Record:

(1) Towed (GV09=1), CDS applicable vehicle (GV07=01-49).

(2) Not towed (GV09=0 or 9), CDS applicable, AOPS (GV36=1) vehicle Missing Record:

(1) Not towed (GV09=0 or 9), CDS applicable, Non AOPS (GV36=0) vehicle.

(2) Non CDS applicable vehicle (GV07=50-99).

Occupant Injury Record Complete Record:

(1) Towed (GV09=1), CDS applicable vehicle (GV07=01-49) with an occupant

having a recorded injury (QA43=01-96).

(2) Not towed (GV09=0 or 9), CDS applicable, AOPS (GV36=1) with an occupant

having a recorded injury.

Missing Record:

(1) Towed, CDS applicable vehicle with no occupant having a recorded injury (0A43=00,97,99).

(2) Not towed (GV09=0 or 9), CDS applicable, Non AOPS (GV36=0) vehicle.

(3) Non CDS applicable vehicle (GV07=50-99).

APPENDIX D

CDC AND DELTA-V

This section gives an overview of the Collision Deformation Classification (C.D.C.) for cars, vans, and light trucks, per SAE J224 MAR 84 in the current year NASS. The C.D.C. codes contain eight characters. If there is no C.D.C., these codes are left blank. If there is a C.D.C., these codes are as follows:

Direction of Force (2-character numeric). Sum of Clock Direction and Incremental Value of Shift if both are known. If either is unknown, direction of force is coded "99".

Clock Direction is coded as follows:

00	Non-horizontal force		07 7 o'clock
01	l o'clock	80	8 o'clock
02	2 o'clock	09	9 o'clock
03	3 o'clock	10	10 o'clock
04	4 o'clock	11	ll o'clock
05	5 o'clock	12	12 o'clock
06	6 o'clock	99	Unknown

Incremental Value of Shift i.e., change in direction of the structure as opposed to crushing of the structure. It is coded as follows:

- 00 No shift
- 20 End shift vertical--up; top shift--forward
- 40 End shift vertical--down; top shift--rearward
- 60 End or top shift lateral--right
- 80 End or top shift lateral--left
- 99 Unknown

Deformation Location (1 character alphanumeric) is coded as follows:

- F Front
- R Right side
- L Left side
- B Back (rear)
- T Tor
- U Undercarriage
- 9 Unknown

Specific Longitudinal or Lateral Location (1 character alphanumeric) is coded as follows

Horiz	ontal Impacts	Top	or Undercarriage
D	Distributedside or end	D	Distributed (F+P+B)
L	Leftfront or rear	F	Front Section
С	Centerfront or rear	Р	Center Section
R	Rightfront or rear	В	Rear Section
F	Side frontleft or right	Υ	F+P
Р	Side center sectionL or R	Z	P+B
В	Side rearleft or right	9	Unknown
Υ	Side $(F + P)$ or end $(\tilde{L} + C)$		
Z	Side $(P + B)$ or end $(C + R)$		
9	Unknown		

Specific Vertical or Lateral Location (1 character alphanumeric) is coded as follows:

Vertical - Front, Rear, or Side Impacts

- Н
- Top of frame to top Everything below belt line Belt line and above Ε
- G
- M Middle--top of frame to belt line or hood
- Frame--top of frame, frame, bottom of frame (including undercarriage) Below undercarriage level (wheel and tires only)
- Unknown

Lateral - Top and Undercarriage Impacts

- D Distributed
- L Left
- C Center
- R Right
- Left and Center (L + C)Υ
- Z Right and Center (R + C)
- Unknown

Type of Damage Distribution (1 character alphanumeric) is coded as follows.

W	Wide impact area	Ε	Corner
N	Narrow impact area	K	Conversion in impact type
S	Sideswipe	U	No residual deformation
0	Rollover (including side)	9	Unknown
Α	Overhanging structure		

Deformation Extent Guide (2 character alphanumeric) is coded as follows:

01	0ne	06	Six
02	Two	07	Seven
03	Three	80	Eight
04	Four	09	Nine
05	Five	99	Unknown

Delta-V.

Delta-V is defined as the vector velocity change during the collision phase of an accident, or in a simple accident, as separation velocity minus approach velocity:

 $\Delta V = V$ separation - V approach

The direction of the vector is determined by the investigator as the direction of principal force. For each vehicle, the components of its Delta-V are obtained by projecting on the longitudinal and lateral axes of that vehicle.

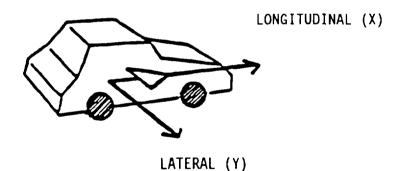


Figure D-1

Figure D-1 shows the positive direction of the longitudinal and lateral components of Delta-V. For example, in a head-on collision, a vehicle is decelerated and the initial high positive longitudinal velocity is reduced; thus it will have a negative longitudinal Delta-V.

APPENDIX E

SELECTED COUNTS

Users of the NASS Analysis file occasionally have requested that the manual include total counts for certain NASS statistics. These counts may help assure that the users are accessing the desired NASS tape. Further, such counts help to identify the source of apparent anomalies.

For this edition of the User's Manual, the following counts have been identified as potentially the most useful:

•	Total	Number (of	Accident Records			4,748
•	Total	Number	of	Accident Event Records			8,571
•	Total	Number (of	General Vehicle Records			8,199
•	Total	Number (of	External Vehicle Records .			5,975
•	Total	Number	of	Internal Vehicle Records .			5,411
•	Total	Number (of	Occupant Assessment Records			10,823
•	Total	Number o	of	Occupant Injury Records			26,673

APPENDIX F - PSU DEMOGRAPHIC DATA

- (1) PSU Codes
- (2) PSU Description
- (3) Population (1990 & 1980)
- (4) Land Area (Square Miles)
- (5) Population (by Age Group)
- (6) Number of Workers and Means of Transportation to Work
- (7) Number of Housing Units and Vehicles Available

Demographics data on the 24 PSU's are included to give researchers supplementary information on the nature of the PSU's when analyzing NASS data. The land area figures are from the County and City Data Book, 1988. The 1990 population figures and the figures on age distribution of the population in 1990 are from Tables 54 and 61 of "1990 Census of Population, General Population Characteristics, Age and Sex by Race and Hispanic Origin: 1990 - County, Place and County Subdivision". The 1980 population figures and the figures on age distribution of the population in 1980 are from Tables 26 and 46 of "1980 Census of Population, Chapter B, General Population Characteristics, Persons by Age for Countries, Areas and Places: 1980". The figures pertaining to number of workers, means of transportation to work, number of housing units and vehicles available are from Table 6 "Employment Status and Journey to Work Characteristics: 1990" and Table 14 "Fuels and Equipment Characteristics: 1990" of "1990 Census of Population and Housing, Summary Social, Economic and Housing Characteristics".

<u>VALUES</u>	<u>STRATA</u>	DESCRIPTION
03, 06, 41, 4	19,	Central City, one of the 60 largest
72, 74, 79, 8	32	SMSAs
05, 08, 09, 1	2, 2	Suburban, one of the 17 - 60th
45, 73, 75, 8	31	largest SMSAs or PSU within
		61st - 119th largest SMSAs either
		containing or not containing a
		central city
02, 04, 11, 1	3, 3	Other PSU
43, 48, 76, 7	'8	

POPULATION

PSU 1990	1980	PERCENT CH AN GE	LAND AREA
P02 165,304 P03 2,300,664 P04 433,203 P05 678,111 P06 1,585,577 P08 966,570 P09 830,422 P11 282,937 P12 430,459 P13 158,983 P41 271,074 P43 423,380 P45 335,749 P48 167,098	158,158 2,230,936 346,038 643,621 1,688,210 1,026,147 737,822 264,748 450,449 157,589 274,602 301,327 319,694 153,264	+4.5 +3.1 +25.2 +5.4 -6.1 -5.8 +12.6 +6.9 -4.4 +0.9 -1.3 +40.5 +5.0 +9.0	1131 70 641 486 136 672 939 710 642 507 55 854 506 1961
P49 1,006,877 P72 2,783,726 P73 475,594 P74 416,444 P75 441,500 P76 74,778 P78 120,739 P79 4,948,333 P81 991,060 P82 516,259	904,078 3,005,072 522,965 397,038 374,194 71,348 90,554 4,149,319 775,903 493,846	+11.4 -7.4 -9.1 +4.9 +18.0 +4.8 +33.3 +19.3 +27.7	331 228 501 333 917 11219 9994 3554 2044 84
All PSU260,804,841 Total U.2848,709,873	19,536,922 226,542,203	+6.5	38,515

POPULATION BY AGE GROUP (1990)

PSU	UNDER 5	5 TO 9	10 TO 14	15 TO 19	20 TO 24
P02	11396	11045	10150	11765	12206
P03	178420	165956	164476	164977	12206
P04	28816	27497	26434	25568	179622
P05	45837	43619	39570		24228
P06	115871	104113	100472	39910	44516
P08	61325	59345	54992	107408	135952
P09	64026	58331	53667	54766	56554
P11	19160	17431	15395	59426	77972
P12	33436	33652	33493	24922	39623
P13	12854	12930	12082	33647	30825
P41	16068	14648	12681	11336	10353
P43	30174	27295	25468	13713	16586
P45	21426	21148	20155	29177	40887
P48	10818	11073		24918	30077
P49	81138	70967	11539	15863	19330
P72	216468	201140	61951	65369	91074
P73	34039		190488	200988	235616
P74	33314	37502	38942	36770	30902
P75	33469	32489	29325	28498	31740
P76	5771	34032	31125	29471	25841
P78		6388	6418	5781	3973
	10160	10104	9608	9091	9573
P79	416258	377775	348590	364937	419299
P81	75665	74986	67462	62023	65249
P82	29269	23842	20057	25641	48364

POPULATION BY AGE GROUP (1990) CONT.

PSU	25 TO 29	30 TO 44	45 TO 64	65 & OVER
P02	14201	41415	32628	21498
P03	204387	538749	419020	285057
P04	30151	91778	78323	100408
P05	56186	165576	140904	101993
P06	142337	347907	290803	240714
P08	72966	232418	208629	165575
P09	88137	220574	151373	56916
P11	29635	71793	43592	21226
P12	34807	102684	84086	43829
P13	12576	36925	29149	20798
P41	22707	64861	55147	54663
P43	46171	118537	72478	33193
P45	28850	81291	65194	42690
P48	13062	36760	29473	19180
P49	120170	254770	163547	97891
P72	278694	645300	484450	330182
P73	35923	109188	93649	5 867 9
P74	39112	101480	73153	47333
P75	37177	128350	86421	35614
P76	4502	14717	15167	12061
P78	9670	24212	20826	17495
P79	478019	1217438	859606	466411
P81	89923	275550	191520	88692
P82	55845	149538	85303	78400

PSU	WORKERS	% USING CAR, TRUCK OR VAN	% IN CARPOOLS	<pre>% USING PUBLIC TRANSIT</pre>
P02 P03 P04 P05 P06 P08 P09 P11 P12 P13 P41 P43 P45 P48	78,739 907,010 178,966 352,960 640,577 444,449 468,944 148,727 174,589 63,855 126,578 237,181 160,829 71,893	88.6 31.3 92.7 88.8 57.8 85.6 83.7 83.1 95.2 93.7 88.7 93.0 91.1	12.3 8.8 13.3 10.0 13.2 12.8 19.0 9.6 10.1 11.3 13.3 12.1 12.4 13.5	1.7 58.0 2.0 4.2 28.7 8.7 11.2 3.0 0.8 0.7 3.6 1.6 1.1
P49 P72 P73 P74 P75 P76 P78 P79 P81 P82	500,566 1,181,677 199,700 210,358 238,304 23,706 45,834 2,283,850 525,998 279,748	87.6 61.1 91.5 91.1 90.8 88.3 86.4 89.5 89.5	15.2 14.8 12.4 11.4 12.2 14.3 18.2 15.8 11.0	6.7 29.7 3.6 2.7 3.0 0.2 1.3 4.2 4.9 15.9

HOUSING UNITS AND VEHICLE AVAILABILITY

PSU	ALL OCCUPIED HOUSING UNITS	PERCENT NONE	WITH	VEHICLES	AVAILABLE 2 OR MORE
P02 P03 P04 P05 P06 P08 P011 P12 P13 P41 P43 P45 P75 P76 P78 P78	60,807 828,199 168,147 254,995 603,075 387,778 290,961 104,528 161,296 57,798 119,344 165,743 133,639 61,099 402,042 1,025,174 170,748 161,113 167,853 26,177 41,139 1,613,172 379,090	9.0 56.7 8.9 7.0 38.1 13.3 8.9 7.2 11.3 9.7 13.6 6.3 9.4 10.2 11.2 34.3 12.5 10.5 3.8 6.4 7.8 4.2		33.2 33.2 42.0 32.6 40.5 38.0 33.7 35.2 34.7 33.5 46.1 31.7 33.8 32.0 44.2 41.1 35.2 34.6 26.8 33.9 39.3 32.5 27.7 40.9	57.8 10.1 49.1 60.4 21.4 48.8 57.6 54.0 56.8 40.3 62.8 57.6 54.6 52.3 54.6 57.4 54.6 54.6 54.3 54.6 54.3 54.3 54.3
P82	236,702	16.7		2012	