NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)

CRASHWORTHINESS DATA SYSTEM

Analytical User's Manual

1990 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 1990 NASS file contains data from 36 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 Crashworthmess Data System (CDS), therefore comparing the 1988-1990 files with files from years prior to 1988 is not recommended. The principal attributes of the NASS CDS 1988-1990 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 1990 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 - 1990 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

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 36 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 oversamples 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. On

specified days of the 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"---1986 through 1991 or "nonlate 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:

<u>Stratum A-NASS</u> accidents in which at least one occupant of a towed CDS applicable late mode 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 nonlate 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 nonlate 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 nonlate 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 nonlate model vehicle that was towed, according to the police report, from the scene due to damage

Example of Accident Stratification: A CDS applicable nonlate model 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 nonlate model vehicle.

Table 2-1 1990 NASS CDS Strata

| Late | Most Severe Police Reported Injury | | | | | | |
|--|------------------------------------|-----------------------|-------------------------|----------------------------|--|----------------------|-----------------------------|
| Model Year | | Transported | | | | Nontransported | |
| (LHA) | Fatal | Serious Injury | | Minor Injury or Unk. | Minor Injury, Not Injured or Unknown | | |
| Vehicle Involve- ment | "K" CDS | Single CDS Veh. | Multipl Applic | able | | | No Towed CDS Appli |
| | | Towed | Two or More Towed | Only One Towed | | CDS Applic Veh | Veh |
| Injury in Towed,LMY, CDS Veh | A | С | | | E | G | NOT IN |
| Injury not in Towed, LMY, CDS Vehicle | | D | | F | | н | SCOPE |

Note Late Mode' Year refers to 1986 through 1991 mode' ,ears

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 for both sampled and nonsampled police jurisdictions. The totals for the sampled jurisdictions come from the Stage 3 frame. The totals for the nonsampled 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 3

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 nontowed 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

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: None (should have at least one occupant assessment record in each accident). 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.

SAS Codes: .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 nontowed 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

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: None (should have at least one occupant injury record or one occupant assessment record in each accident). 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. 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 RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00.

SAS Codes: .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 nontowed 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. 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 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. SAS Codes: None. 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 nontowed 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) Nontowed CDS applicable Non AOPS vehicles-BODY TYPE (GV07) equals 01-49, POLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and 1S THIS AN AOPS VEHICLE? (GV36) 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. Nontowed 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.

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

ALCOHOL OR DRUG INVOLVED (AC35) (SAS Label ALCDRUG)

This single place numeric value indicates if any involved driver were reported to have had some alcohol or drug 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 OR DRUG PRESENCE (GV11) and ALCOHOL TEST RESULT FOR DRIVER (GV12) variables on each general vehicle record in the accident. The ALCOHOL OR DRUG INVOLVED codes are derived as follows:

(YES) 1 - If POLICE REPORTED ALCOHOL OR DRUG PRESENCE equals 1

(YES-ALCOHOL PRESENT) or 2 (YES-DRUGS PRESENT) or 3 (YES-ALCOHOL AND DRUGS PRESENT) or 4 (YES-ALCOHOL OR DRUGS PRESENT-SPECIFICS UNKNOWN) or ALCOHOL TEST RESULT FOR DRIVER equals 01-49 (positive result).

(NO) 2 - If POLICE REPORTED ALCOHOL OR DRUG PRESENCE equals 0 (NEITHER ALCOHOL NOR DRUGS 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 OR DRUG 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 |
| ΩA | 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.

MAXIMUM TREATMENT IN THIS VEHICLE (GV88) (SAS Label: VTREAT)

This single place numeric value indicates the most intensive treatment given to any occupant of this towed CDS applicable vehicle or nontowed 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

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) 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. 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 (GV89) (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 nontowed 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 (OI 10...OI100) variable on each occupant injury record in this towed CDS applicable vehicle or nontowed 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, PÓLICE REPORTED VEHICLE DISPOSITION (GV09) equals 0 or 9 and 1S 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 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).

This two place numeric value indicates the total number of fatally and other seriously injured occupants of this towed CDS applicable vehicle or nontowed 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. 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 (GV92-93) (SAS Label: VINJURED)

This two place numeric value indicates the total number of injured occupants of this towed CDS applicable vehicle or nontowed 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) 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. 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. Nontowed 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 (GV94) (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 (GV95-96) (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 (GV97-99) (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 |
| | ANOTHER VEHICLE OR WITH VEHICLE HITTING |
| | ITSELF) |
| 999 | UNKNOWN |
| | |

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 (GV100-102) (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).

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. (OA73) (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 nontowed 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 nontowed 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) 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. 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 (OA74-75) (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 nontowed 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 (OI006...OI096) and A.I.S. SEVERITY (OI010...OI100). 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 nontowed 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) 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. 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 RECORDED INJURIES THIS OCCUPANT (OA43) equals 97, 99 or 00.

SAS Codes: None.

SECTION 4 SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

ACCIDENT RECORD

| 2 | PSU NUMBER | 38 39 |
|----------------------|---|---|
| 3 4 5 6 | CASE NUMBER | 40 41 PSU INFLATION FACTOR 42 43 44 45 |
| 7 8 | RECORD NUMBER | 46 |
| 9 | VERSION NUMBER | 47 48 49 NATIONAL INFLATION FACTOR |
| 10 11 | NUMBER OF GENERAL VEHICLE FORMS SUBMITTED | 50 51 52 |
| 12 13 | MONTH OF ACCIDENT | 53 |
| 14 15 | | 54 55 56 |
| 16 17 | YEAR OF ACCIDENT | 57 RATIO INFLATION FACTOR 58 59 60 |
| 18 19 20 21 | TIME OF ACCIDENT | 61 |
| 22 | NOT ACTIVE | |
| 23 | ACPS | |
| 24 25 26 | | |
| 27 28 | NUMBER OF RECORDED EVENTS IN THIS ACCIDENT | |
| 29 | MAXIMUM TREATMENT | |
| 30 | MAXIMUM KNOWN AIS | |
| | NUMBER OF SERIOUSLY INJURED OCCUPANTS | |
| 33 34 | NUMBER OF INJURED OCCUPANTS | |
| 35 | ALCOHOL/DRUG INVOLVEMENT | |
| 36 37 | DAY OF WEEK OF ACCIDENT | |

ACCIDENT EVENT RECORD

| 1 2 | PSU NUMBER |
|------------------|---|
| 3 4 5 6 | CASE NUMBER |
| 7 8 | RECORD NUMBER |
| 9 | VERSION NUMBER |
| 10 11 | 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 |
| 6 | RECORD NUMBER | 58 VEHICLE CARGO WEIGHT 59 |
| | | 60 TOWED TRAILING UNIT |
| | VERSION NUMBER | 61 DOC. OF TRAJECTORY DATA |
| 11 | VEHICLE NUMBER | 62 CONDITION OF TREE OR POLE |
| 13 | VEHICLE MODEL YEAR | 63 ROLLOVER |
| 14 | VEHICLE MAKE | 64 FRONT OVERRIDE/UNDERRIDE |
| | | 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 24 25 | VEHICLE IDENTIFICATION | 73 TOTAL DELTA V |
| 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 |
| | VEHICLE DISPOSITION | 85 CONFIDENCE IN RECONS PGM |
| 39 | TRAVEL SPEED | 86 TYPE OF VEHICLE INSPECTION |
| 40 | | 87 AOPS VEHICLE |
| | ALCOHOL/DRUG PRESENCE | 88 MAXIMUM TREATMENT |
| 43 | ALCOHOL TEST RESULT | 89 MAXIMUM KNOWN AIS |
| 44 45 | SPEED LIMIT | 90 NUMBER OF SERIOUSLY INJURED 91 IN THIS VEHICLE |
| | ATTEMPTED AVOIDANCE MANEUVER | 92 NUMBER INJURED 93 IN THIS VEHICLE |
| | ACCIDENT TYPE | 94 FRONT/REAR WHEEL DRIVE |
| | DRIVER PRESENCE | 95 VIN LENGTH 96 |
| 51 | NUMBER OF OCCUPANTS THIS VEHICLE | 97 WEIGHT OF THE 98 OTHER VEHICLE 99 |
| | | 100 BODY TYPE OF 101 THE OTHER VEHICLE 102 |

EXTERIOR VEHICLE FORM

| 1 PSU N | UMBER |
|----------------------------|--------------------------------------|
| 3 4 CASE N | UMBER |
| 5 6 | |
| 7 RECORD | NUMBER |
| 9 VERSIC | N NUMBER |
| 10 VEHICU | E NUMBER |
| 12 ACCIDE | NT SEQUENCE - 1 |
| 14 OBJECT | TED - 1 |
| 16 DIRECT | ION RCE - 1 |
| 18 DEFORM | MATION LOCATION - 1 |
| 19 LONG / | LATERAL LOCATION - 1 |
| 20 VERT / | LATERAL LOCATION - 1 |
| 21 TYPE C | DF DAMAGE DIST - 1 |
| 22 DEFORM 23 EXTENT | |
| 24 ACCIDE 25 | INT SEQUENCE - 2 |
| 26 OBJECT 27 CONTAC | T CTED - 2 |
| 28 DIRECT | |
| 30 DEFORM | MATION LOCATION - 2 |
| 31 LONG | /LATERAL LOCATION - 2 |
| | /LATERAL LOCATION - 2 |
| 33 TYPE (| DF DAMAGE DIST - 2 |
| 34 DEFORE 35 EXTEN | = |
| 36 CRASH 37 HIGHE 38 | DAMAGE DATA FOR ST DELTA "V" ~ L |
| 39 CRASH 40 HIGHE | DAMAGE DATA FOR ST DELTA "V" - C1 |
| 42 HIGHE | DAMAGE DATA FOR ST DELTA "V" - C2 |
| 44 HIGHE | DAMAGE DATA FOR ST DELTA "V" - C3 |
| 45 CRASH | DAMAGE DATA FOR ST DELTA "V" - C4 |

| | | | | | | | | | _ |
|-----------------------|-----|-------------|-------------|-------------|------|------------|------------|------|---|
| 47 48 | | | | | | ATA LTA | ' v'' | - C5 | , |
| 49 50 | CRA | | DAI GHI | 1AG EST | | ATA LTA | v | - C6 | |
| 51 52 53 54 | CRA | | DA! | MAGI EST | | ATA LTA | "v" | - D | - |
| 55 56 57 | - | 21 | DA' ND (| HIG | | ATA T | | | - |
| 58 59 | | | | | | ATA LTA | FOR | - C1 | _ |
| 60 61 | | | DAI IGH | | | ATA LTA | FOR | - ca | , |
| 62 63 | - | | DAI I GH | | | ATA | FOR "V" | - C3 | } |
| 64 65 | | | DAI IGH | | | ATA LTA | _ | - C4 | : |
| 66 67 | | | DAI IGH | | | ATA LTA | | - C | 5 |
| 68 69 | | | DAI IGH | | | ATA LTA | | - C | 5 |
| 70 71 72 73 | FOR | 45# R 2' | DA DA | HIG | | ATA | | | |
| 74 | CDC | CS | DOC | UME | NT E | D-N | OT C | 00ED | |
| 75 | VE | 4IC | LE | DIS | POS | ITI | ON (| RES |) |
| 76 | OR | IG! | NAL | WH | EEU | .BAS | Ε | | |
| | | | | | | | | | |

INTERIOR VEHICLE FORM

| 1 PSU NUMBER 2 |
|--|
| 3 |
| 4 CASE NUMBER 5 |
| 6 |
| 7 RECORD NUMBER 8 |
| 9 VERSION NUMBER |
| 10 VEHICLE NUMBER |
| 11 |
| 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 |
| 25 GLAZING DAMAGE-IMPACT-LF |
| 26 GLAZING DAMAGE-IMPACT-RF |
| 27 GLAZING DAMAGE-IMPACT-LR |
| 28 GLAZING DAMAGE-IMPACT-RR |
| 29 GLAZING DAMAGE-IMPACY-BL |
| 30 GLAZING DAMAGE-IMPACT-RO |
| 31 GLAZING DAMAGE-IMPACT-OT |
| 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 |
| 42 | 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 |
| 49 | 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-CT |
| | |

INTERIOR VEHICLE FORM

| 1 | PSU NUMBER | 46 MAGNITUDE OF INTRUSION-614 |
|-------------|---|---|
| 2 | | 47 CRUSH DIRECTION-6TH |
| 3 4 5 | CASE NUMBER | 48 LOCATION OF INTRUSION-7TH 49 |
| 6 | | 50 INTRUDING COMPONENT-7TH |
| 7 8 | RECORD NUMBER | 51 |
| 9 | VERSION NUMBER | 52 MAGNITUDE OF INTRUSION-7TH |
| 10 | VEHICLE NUMBER | 53 CRUSH DIRECTION-7TH |
| 11 | *************************************** | 54 LOCATION OF INTRUSION-8TH 55 |
| 12 13 | LOCATION OF INTRUSION-1ST | 56 INTRUDING COMPONENT-8TH |
| 14 15 | INTRUDING COMPONENT-1ST | 57 58 MAGNITUDE OF INTRUSION-8TH |
| | MAGNITUDE OF INTRUSION-1ST | 59 CRUSH DIRECTION-8TH |
| | CRUSH DIRECTION-1ST | 60 LOCATION OF INTRUSION-9TH |
| 18 | LOCATION OF INTRUSION-2ND | 61 |
| 19 | | 62 INTRUDING COMPONENT-9TH 63 |
| 20 21 | INTRUDING COMPONENT-2ND | 64 MAGNITUDE OF INTRUSION-9TH |
| 22 | MAGNITUDE OF INTRUSION-2ND | 65 CRUSH DIRECTION-9TH |
| 23 | CRUSH DIRECTION-2ND | 66 LOCATION OF INTRUSION-10TH |
| 24 25 | LOCATION OF INTRUSION-3RD | 68 INTRUDING COMPONENT-10TH |
| 26 27 | INTRUDING COMPONENT-3RD | 69 70 MAGNITUDE OF INTRUSION-10T |
| | MAGNITUDE OF INTRUSION-3RD | 71 CRUSH DIRECTION-10Th |
| | CRUSH DIRECTION-3RD | 72 STEERING COLUMN TYPE |
| | LOCATION OF INTRUSION-4TH | 73 STEERING COLUMN COLLAPSE |
| 31 | 2007707 | 74 |
| 32 33 | INTRUDING COMPONENT-4TH | 75 DIRECTION AND MAGNITUDE 76 OF STEERING COLUMN |
| | MAGNITUDE OF INTRUSION-4TH | 77 MOVEMENT-VERTICAL |
| 35 | CRUSH DIRECTION-4TH | 78 DIRECTION AND MAGNITUDE 79 OF STEERING COLUMN |
| 36 | LOCATION OF INTRUSION-5TH | 80 MOVEMENT-LATERAL |
| 37 | | 81 DIRECTION AND MAGNITUDE 82 OF STEERING COLUMN |
| 38 39 | INTRUDING COMPONENT-5TH | 83 MOVEMENT-LONGITUDINAL |
| 40 | MAGNITUDE OF INTRUSION-5TH | 84 RIM/SPOKE DEFORMATION |
| 41 | CRUSH DIRECTION-5TH | 85 LOCATION OF STEERING 86 RIM/SPOKE DEFORMATION |
| | LOCATION OF INTRUSION-6TH | 87 ODOMETER READING |
| | INTRUDING COMPONENT-6TH | 89 90 INSTRUMENT PANEL DAMAGE |
| | | 91 KNEE BOLSTERS DEFORMED |
| | | 92 GLOVE COMPARTMENT DOOR OPE |
| | | 92 GLOVE COMPARIMENT DOOR OPE |

OCCUPANT ASSESSMENT FORM

| 1 2 | PSU NUMBER |
|------------------|---------------------------------|
| | |
| 3 4 5 6 | CASE NUMBER |
| 7 | RECORD NUMBER |
| 9 | VERSION NUMBER |
| 10 11 | VEHICLE NUMBER |
| 12 | 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 | OCCUPANT'S SEAT POSITION |
| 25 | OCCUPANT'S POSTURE |
| 26 | EJECTION |
| 27 | EJECTION AREA |
| 28 | EJECTION MEDIUM |
| 29 | MEDIUM STATUS |
| 30 | ENTRAPMENT |
| 31 | |
| 32 33 | MANUAL BELT USE |
| 34 | PROPER USE OF MANUAL BELT |
| 35 | MANUAL BELT FAILURE |
| 36 | AUTOMATIC RESTRAINT AVAIL |
| 37 | AUTOMATIC REST. FUNCTION |
| 38 | AUTOMATIC REST FAILURE |
| 39 | POLICE REP. RESTRAINT USE |
| 40 | 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 | ſ |
|--|--|----------|
| 48 | CHILD CACETY SEAT | |
| 49 | CHILD SAFETY SEAT ORIENTATION | |
| 50 | CHILD SAFETY SEAT | - |
| 51 | HARNESS USAGE | |
| 52 | CHILD SAFETY SEAT | |
| 53 | SHIELD USAGE | |
| 54 | CHILD SAFETY SEAT | |
| 55 | TETHER USAGE | |
| 56 | INJURY SEVERITY | |
| 57 | TREATMENT-MORTALITY | |
| | | |
| 58 | TYPE OF MEDICAL FACILITY | |
| 59 | HOSPITAL STAY | |
| 60 | | |
| | | |
| 61 | WORKING DAYS LOST | |
| | WORKING DAYS LOST | |
| 61 62 | | |
| 61 62 63 64 | WORKING DAYS LOST TIME TO DEATH | |
| 61 62 63 64 | TIME TO DEATH | |
| 61 62 63 64 | | |
| 61 62 63 64 65 66 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH | |
| 61 62 63 64 65 66 67 68 | TIME TO DEATH | |
| 61 62 63 64 65 66 68 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH | |
| 61 62 63 64 65 66 68 69 70 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED | |
| 61 62 63 64 65 66 67 68 69 70 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH 3RD MEDICALLY REPORTED CAUSE OF DEATH | |
| 61 62 63 64 65 66 68 69 70 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH 3RD MEDICALLY REPORTED | · |
| 61 62 63 64 65 66 69 70 71 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH 3RD MEDICALLY REPORTED CAUSE OF DEATH NUMBER OF RECORDED INJUR | ies |
| 61 62 63 64 65 66 71 72 73 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH 3RD MEDICALLY REPORTED CAUSE OF DEATH NUMBER OF RECORDED INJURY FOR THIS OCCUPANT MAXIMUM KNOWN AIS | ies |
| 61 62 63 64 65 66 69 70 71 72 | TIME TO DEATH 1ST MEDICALLY REPORTED CAUSE OF DEATH 2ND MEDICALLY REPORTED CAUSE OF DEATH 3RD MEDICALLY REPORTED CAUSE OF DEATH NUMBER OF RECORDED INJUR! FOR THIS OCCUPANT | i ES |

OCCUPANT INJURY FORM

| 1 PSU NUMBER 2 |
|---|
| 3 4 CASE NUMBER 5 6 |
| 7 RECORD NUMBER 8 |
| 9 VERSION NUMBER |
| 10 VEHICLE NUMBER 11 |
| 12 OCCUPANT NUMBER 13 |
| 14 INJURY NUMBER 15 |
| 16 SOURCE OF INJURY DATA |
| 17 BODY REGION |
| 18 ASPECT |
| 19 LESION |
| 20 SYSTEM ORGAN |
| 21 AIS SEVERITY |
| 22 INJURY SOURCE 23 |
| 24 CONFIDENCE LEVEL |
| 25 DIRECT/INDIRECT INJURY |
| 26 OCCUPANT AFFA 27 INTRUSION NUMBER |

SECTION 5 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 1990 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:

SAS CONTENTS PROCEDUPE SAS DATA LIBRARY DIRECTORY

| NAME | MEMTYPE | #OBS |
|----------|---------|-------|
| ACCIDENT | DATA | 6319 |
| EVENT | DATA | 11036 |
| G∀ | DATA | 11123 |
| OA | DATA | 14246 |
| 01 | DATA | 33202 |
| ٧E | DATA | 7961 |
| ΙV | DATA | 7031 |
| | | |

SAS

CONTENTS OF SAS MEMBER SAS90 ACCIDENT ---- ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES-----

| # | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | LABEL |
|----|-----------|------|--------|----------|--------|----------|--|
| 12 | AAIS | NUM | 2 | 30 | | | MAXIMUM KNOWN AIS IN ACCIDENT |
| 14 | AINJSER | NUM | 2 | 34 | | | NUMBER OF SERIOUSLY INJURED OCCUPANTS |
| 15 | AINJURED | NUM | 2 | 36 | | | TOTAL NUMBER OF INJURED OCCUPANTS |
| 13 | ALCDRUG | NUM | 2 | 32 | | | ALCOHOL OR DRUG INVOLVED IN ACCIDENT |
| 11 | ATREAT | NUM | 2 | 28 | | | MAXIMUM TREATMENT IN ACCIDENT |
| 2 | CASEID | CHAR | 4 | 6 | | | CASE NUMBER - STRATUM |
| 3 | CASENO | NUM | 3 | 10 | | | CASE SEQUENCE NUMBER |
| 16 | DAYWEEK | NUM | 2 | 38 | | | DAY OF WEEK OF ACCIDENT |
| 10 | EVENTS | NUM | 2 | 26 | | | NUMBER OF RECORDED EVENTS IN ACCIDENT |
| 7 | MONTH | NUM | 2 | 18 | | | MONTH OF ACCIDENT |
| 18 | NATWGT | NUM | 6 | 46 | | | NATIONAL INFLATION FACTOR |
| 1 | PSU | NUM | 2 | 4 | | | PRIMARY SAMPLING UNIT NUMBER |
| 17 | PSUWGT | NUM | 6 | 40 | 8 3 | | PSU INFLATION FACTOR |
| 19 | RATWGT | NUM | 6 | 52 | | | RATIC INFLATION FACTOR |
| 4 | STRATIF | CHAR | 1 | 13 | | | CASE STRATUM |
| 9 | TIME | NUM | 4 | 22 | | | TIME OF ACCIDENT |
| 6 | VEHFORMS. | MUM | 2 | 16 | | | NUMBER GENERAL NEHICLE FORMS SUBMITTES |
| 5 | VERSION | NUM | 2 | 14 | | | VERSION NUMBER |
| 8 | YEAR | NUM | 2 | 20 | | | YEAR OF ACCIDENT |

19 RATWGT

NUM

6

52

SAS

CONTENTS OF SAS MEMBER SASSO ACCIDENT ----LIST OF VARIABLES AND ATTRIBUTES BY POSITION----

RATIO INFLATION FACTOR

LENGTH POSITION FORMAT # VARIABLE TYPE INFORMAT LABEL PRIMARY SAMPLING UNIT NUMBER 1 PSU NUM 2 4 2 CASEID CHAR CASE NUMBER - STRATUM 6 CASE SEQUENCE NUMBER 3 CASENO NUM 3 10 4 STRATIF CHAR 13 CASE STRATUM 1 VERSION NUMBER 5 VERSION NUM 2 14 6 VEHFORMS NUM NUMBER GENERAL VEHICLE FORMS SUBMITTED 2 16 7 MONTH NUM MONTH OF ACCIDENT YEAR OF ACCIDENT NUM 8 YEAR 2 20 TIME OF ACCIDENT 9 TIME NUM 4 22 10 EVENTS NUMBER OF RECORDED EVENTS IN ACCIDENT NUM 2 26 MAXIMUM TREATMENT IN ACCIDENT 11 ATREAT NUM 28 2 MAXIMUM KNOWN AIS IN ACCIDENT NUM 12 AAIS 30 13 ALCDRUG NUM 2 32 ALCOHOL OR DRUG INVOLVED IN ACCIDENT 14 AINJSER NUM NUMBER OF SERIOUSLY INJURED OCCUPANTS 34 2 15 AINJURED NUM 2 36 TOTAL NUMBER OF INJURED OCCUPANTS 16 DAYWEEK NUM DAY OF WEEK OF ACCIDENT 2 38 17 PSUWGT NUM 6 40 8 3 PSU INFLATION FACTOR 18 NATWGT NUM 46 NATIONAL INFLATION FACTOR 5

CONTENTS OF SAS MEMBER SASSO EVENT

SAS

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

SAS

CONTENTS OF SAS MEMBER SASSO EVENT

VERSION NUMBER

----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 DEJECT CONTACTED |
| 11 | CLASS2 | NUM | 2 | 25 | | | CLASS OF OTHER VEHICLE |
| 12 | GADEV2 | CHAR | 1 | 27 | | | GENERAL AREA OF DAMAGE CTHER 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 |

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

| | | | | - | ALPHABETIC | LIST OF | VARIA | BLES AND ATTRIBUTES |
|----|----------|------|--------|----------|------------|----------|-------|--|
| | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | L | ABEL |
| 22 | ACCTYPE | NUM | 2 | | | | Α | CCIDENT TYPE |
| 19 | ALCTEST | NUM | 2 | | | | A | NLCOHOL TEST RESULT FOR DRIVER |
| | ANGOTHER | | 3 | 95 | | | Н | HEADING ANGLE FOR OTHER VEHICLE |
| | ANGTHIS | | 3 | | | | Н | HEADING ANGLE FOR THIS VEHICLE |
| | AOPSVEH | | 2 | | | | А | NOPS VEHICLE |
| | BODYTYPE | | 2 | | | | | VEHICLE BODY TYPE |
| | CARGOWGT | | 2 | | | | | /EHICLE CARSO WEIGHT |
| | | CHAR | 4 | | | | | CASE NUMBER - STRATUM |
| | | | | | | | | CASE SEQUENCE NUMBER |
| | | NUM | 3 | | | | | POST COLLISION CONDITION OF TREE OR POLE |
| | CONDTREE | | 2 | 84 | | | | /EHICLE CURB WEIGHT |
| | CURBWGT | | 3 | | | | | |
| | DOCTRAJ | | 2 | | | | | DOCUMENTATION OF TRAJECTORY DATA |
| | DRINKDRG | - | 2 | | | | | POLICE REPORTED ALCOHOL OR DRUG PRESENCE |
| 45 | DRIVE | NUM | 2 | | | | | FRONT/REAR WHEEL DRIVE |
| _ | DRPRES | NUM | 2 | | | | | DRIVER PRESENCE IN VEHICLE |
| 35 | DVBASIS | NUM | 2 | 98 | | | | BASIS FOR TOTAL DELTA V (HIGHEST) |
| 40 | DVCONFID | NUM | 2 | | | | | CONFIDENCE IN RECONSTRUCTION |
| 38 | DVLAT | NUM | 2 | 104 | | | Ĺ | LATERAL COMPONENT OF DELTA V |
| 37 | DVLONG | NUM | 2 | | | | l | LONGITUDINAL COMPONENT OF DELTA V |
| 36 | DYTOTAL | NUM | 2 | | | | 1 | TOTAL DELTA V |
| 39 | ENERGY | NUM | 3 | | | | 6 | ENERGY ABSORPTION |
| | FOVERIDE | | 2 | | | | F | FRONT OVERRIDE/UNDERRIDE THIS VEHICLE |
| | INSPTYPE | | 2 | | | | 1 | TYPE OF VEHICUE INSPECTION |
| | MAKE | NUM | 2 | | | | , | VEHICLE MAKE |
| | MANEUVER | | 2 | | | | | ATTEMPTED AVOIDANCE MANEUVER |
| _ | MODEL | NUM | 3 | | | | | VEHICLE MODEL |
| | MODELYR | | 2 | | | | | VEHICLE MODEL YEAR |
| - | NATWGT | NUM | 6 | | | | | NATIONAL INFLATION FACTOR |
| | OCCFORMS | | 2 | | | | | NUMBER OF OCCUPANT FORMS SILEM TIED |
| | OCUPANTS | | 2 | | | | | NUMBER OF OCCUPANTS THIS VEH.CLE |
| | | | 2 | | | | | BODY TYPE OF THE OTHER VEHICLE |
| | OTBOYTYP | | | | | | | WEIGHT OF THE OTHER VEHICLE |
| | OTVEHWGT | | 3 | | | | | |
| | PSU - | NUM | 2 | | | | | PRIMARY SAMPLING UNIT NUMBER |
| | PSUWGT | NUM | 6 | | 8 3 | | | PSU INFLATION FACTOR |
| | RATWGT | NUM | 6 | | | | | RATIO INFLATION FACTOR |
| 30 | ROLLOVER | NUM | 2 | | | | | ROLLOVER |
| | ROVERIDE | | 2 | | | | | REAR OVERRIDE/UNDERRIDE THIS VEHICLE |
| 20 | SPLIMIT | NUM | 2 | | | | | SPEED LIMIT |
| 8 | STRATIF | CHAR | 1 | | | | | CASE STRATUM |
| 27 | TOWHITCH | NUM | 2 | 80 | | | | TOWED TRAILING UNIT |
| 16 | TOWPAR | NUM | 2 | 57 | | | | POLICE REPORTED VEHICLE DISPOSITION |
| 17 | TRAVELSP | NUM | 2 | 59 | | | | POLICE REPORTED TRAVEL SPEED |
| 49 | VAIS | NUM | 2 | 128 | | | | MAXIMUM KNOWN AIS IN THIS VEHICLE |
| 10 | VEHNO | NUM | 2 | | | | | VEHICLE NUMBER |
| | VERSION | NUM | 2 | 34 | | | | VERSION NUMBER |
| | VIN | CHAR | 10 | | | | | VEHICLE IDENTIFICATION NUMBER |
| | VINJSER | - | 2 | | | | | NUMBER SERIOUSLY INJURED IN THIS VEHILLE |
| - | VINJURED | | 2 | | | | | NUMBER INJURED IN THIS VEH.CLE |
| | VINLAGTH | | 2 | | | | | VIN LENGTH |
| | | | 2 | | | | | MAXIMUM TREATMENT IN IHIS VEH UUS |
| 40 | VTREAT | NUM | 2 | . 121 | | | | THE STATE OF THE SECTION STATES OF THE SECTI |

SAS CONTENTS OF SAS MEMBER SASSO GV

| | | | | 1 TST | DE MADIADIES AND ATTOICLIES DE DOSTITION |
|----|----------|------|---|--|--|
| | VADIAD C | TYDE | LENGTH | DOCITION CODMAT | OF VARIABLES AND ATTRIBUTES BY POSITION |
| | | | | | INFORMA* LABEL |
| _ | PSUWGT | NUM | 6 | | PSU INFLATION FACTOR |
| | NATWGT | NUM | | 10 | NATIONAL INFLATION FACTOR |
| _ | RATWGT | NUM | 6 | | RATIO INFLATION FACTOR |
| | PSU | NUM | 2 | | PRIMARY SAMPLING UNIT NUMBER |
| | AOPSVEH | | 2 | 24 | AOPS VEHICLE |
| 6 | CASEID | CHAR | 4 | 26 | CASE NUMBER - STRATUM |
| | CASENO | | 3 | 26 30 | CASE SEQUENCE NUMBER |
| 8 | STRATIF | CHAR | | | CASE STRATUM |
| 9 | VERSION | NUM | 1 2 2 | 33 34 36 | VERSION NUMBER |
| 10 | VEHNO | NUM | 2 | 36 | VEHICLE NUMBER |
| 11 | MODELYR | NUM | 2 | 38 40 | VEHICLE MODEL YEAR |
| 12 | MAKE | NUM | 2 | 40 | VEHICLE MAKE |
| 13 | MODEL | NUM | 3 | 42 | VEHICLE MODEL |
| | BODYTYPE | | 2 | 45 | VEHICLE BODY TYPE |
| | | CHAR | 10 | 42 45 47 | VEHICLE IDENTIFICATION NUMBER |
| | TOWPAR | | 2 | 57 | POLICE DEPONIES VENIES OF COURTS |
| | TRAVELSP | | 2 2 | 57 59 | POLICE REPORTED VEHICLE DISPOSITION |
| | | | 2 | 29 | POLICE REPORTED TRAVEL SPEED |
| | DRINKDRG | - | 2 | 61 | POLICE REPORTED ALCOHOL OR DRUG PRESENCE |
| | ALCTEST | | 2 | 63 | ALCOHOL TEST RESULT FOR DRIVER |
| | SPLIMIT | | 2 | 65 | SPEED LIMIT |
| | MANEUVER | | 2 | 67 | ATTEMPTED AVOIDANCE MANEUVER |
| | ACCTYPE | | 2 | 69 | ACCIDENT TYPE |
| | DRPRES | | 2 | 71 | DRIVER PRESENCE IN VEHICLE |
| | OCUPANTS | | 2 | 73 | NUMBER OF OCCUPANTS THIS NEHICLE |
| | OCCFORMS | | 2 | 61 63 65 67 69 71 73 75 77 80 82 84 86 88 90 92 | DRIVER PRESENCE IN VEHICLE NUMBER OF OCCUPANTS THIS VEHICLE NUMBER OF OCCUPANT FORMS SUBMITTED VEHICLE CUPB WEIGHT |
| 26 | CURBWGT | Mûn | 3 | 77 | VEHICLE CUPB WEIGHT |
| 27 | TOWHITCH | NUM | 2 | 80 | TOWED TRAILING UN T |
| 28 | DOCTRAJ | NUM | 2 | 8 <i>2</i> | DOCUMENTATION OF TRAJECTORY DATA |
| 29 | CONDTREE | NUM | 2 | 84 | POST COLLISION CONDITION OF THEE OR POLE |
| 30 | ROLLOVER | NUM | 2 | 86 | ROLLOVER |
| | FOVERIDE | | 2 | 88 | FRONT OVERPIUS UNTERPIDE THE NEWS |
| 32 | ROVERIDE | NUM | 2 | 90 | REAR OVERRIDE UNDERRIDE THIS VEHICLE |
| | ANGTHIS | | 3 | 92 | HEADING ANGLE FOR THIS VEHICLE |
| | ANGOTHER | | 3 | 95 | HEADING ANGLE FOR OTHER VEHICLE |
| | DVEASIS | | 2 | 98 | BASIS FOR TOTAL DELTA V (H) 194857) |
| | DVTOTAL | | 2 | 100 | TOTAL DELTA V |
| | DVLONG | | 2 | 102 | |
| | DVLAT | | 2 | 104 | LONGITUDINAL COMPONENT OF DELTA V |
| 30 | ENERGY | NIIM | 2 | 104 | LATERAL COMPONENT OF DELYA V |
| | DVCONFID | | 2 | 106 | ENERGY ABSORPTION |
| | | | 2 | 109 | CONFIDENCE IN RECONSTRUCTION |
| | INSPTYPE | | 2 | 111 | TYPE OF VEHICLE INSPECTION |
| | VINLNGTH | | 2 2 | 113 | VIN LENGTH |
| | VINJSER | | | | NUMBER SERIOUSLY INJURED IN THIS VEHICLE |
| | VINJURED | | 2 | 117 | NUMBER SERTOUSE IN THIS VEHICLE |
| | | NUM | 2 2 | 119 | FRUNT/REAR WHEEL URIVE |
| | VTREAT | | 2 | 121 | MAXIMUM TREATMENT IN THIS VEHICLE |
| | OTVEHWGT | | 3 | 123 | WEIGHT OF THE OTHER VEHICLE |
| | OTBDYTYP | NUM | 3 2 | 126 | BODY TYPE OF THE OTHER VEHICLE |
| | | NUM | 2 | 128 | MAXIMUM KNOWN AIS IN THIS VEHICLE |
| 50 | CARGOWGT | NUM | 2 | 130 | VEHICLE CARGO WEIGHT |
| | | | | | |

SAS CONTENTS OF SAS MEMBER SASSO VE ALPHARETIC LIST OF VARIABLES AND ATTRIBUTES.

| | | | | - | ALPHABETIC LIST OF | VARIABLES AND ATTRIBUTES |
|----|-----------------|------|--------|----------|--------------------|--|
| # | VARIABLE | TYPE | LENGTH | POSITION | FORMAT INFORMAT | LABEL |
| 7 | ACCSE01 | NUM | 2 | 18 | | ACCIDENT EVENT SEQUENCE (HIGHEST, |
| 15 | ACCSE02 | NUM | 2 | 30 | | ACCIDENT EVENT SEQUENCE (2ND HIGHEST) |
| 2 | CASEID | CHAR | 4 | 6 | | CASE NUMBER - STRATUM |
| | CASENO | NUM | 3 | 10 | | CASE SEQUENCE NUMBER |
| | | 'NUM | 2 | 90 | | CDC's DOCUMENTED BUT NOT CODED ON FILE? |
| | DOF1 | NUM | | 22 | | DIRECTION OF FORCE (HIGHEST) |
| | DOF2 | NUM | 2 | 34 | | DIRECTION OF FORCE (2ND HIGHEST) |
| | DVC1 | NUM | 3 | | | CRUSH PROFILE C1 (HIGHEST) |
| | DVC2 | NUM | 3 | | | CRUSH PROFILE C2 (HIGHEST) |
| | DVC3 | NUM | 3 | 51 | | CRUSH PROFILE C3 (HIGHEST) |
| | DVC4 | NUM | 3 | | | CRUSH PROFILE C4 (HIGHEST) |
| | DVC5 | NUM | 3 | 57 | | CRUSH PROFILE C5 (HIGHEST) |
| | DVC6 | NUM | 3 | - | | CRUSH PROFILE C6 (HIGHEST) |
| | DVD | NUM | 3 | | | CRUSH PROFILE D (HIGHEST) |
| | DVL | NUM | 3 | | | CRUSH PROFILE L (HIGHEST) |
| | EXTENT1 | | | 28 | | DEFORMATION EXTENT (HIGHEST) |
| | EXTENT2 | | 2 | | | DEFORMATION EXTENT (2ND HIGHEST) |
| | GAD1 | CHAR | 1 | | | DEFORMATION LOCATION (HIGHEST, |
| | GAD1 | CHAR | 1 | | | DEFORMATION LOCATION (AND HIGHEST) |
| | NATWGT | NUM | 6 | | | NATIONAL INFLATION FACTOR |
| | OBJCONT1 | | 2 | | | OBJECT CONTACTED (HIGHEST) |
| | | | 2 | 32 | | OBJECT CONTACTED (AND HIGHEST) |
| | OBJCONT2 PSU | | 2 | 32 | | PRIMARY SAMPLING UNIT NUMBER |
| | | NUM | 6 | | 0.3 | PSU INFLATION FACTOR |
| | PSUWGT | NUM | | | 8 3 | RATIO INFLATION FACTOR |
| | RATWGT | NUM | 6 | | | CRUSH PROFILE C1 (2ND HIGHEST) |
| | SDVC1 | NUM | 3 | | | CRUSH PROFILE C2 (2ND H1GHEST) |
| | SDVC2 | NUM | 3 | | | CRUSH PROFILE C3 (250 HISHES) |
| | SDVC3 | NUM | 3 | | | CRUSH PROFILE C4 (2ND HIGHEST) |
| | SDVC4 | NUM | 3 | | | CRUSH PROFILE C5 (2ND HIGHEST) |
| | SDVC5 | NUM | 3 | | | |
| | SDVC6 | NUM | 3 | | | CRUSH PROFILE C6 (2ND HIGHEST) CRUSH PROFILE D (2ND HIGHEST) |
| | SDVD | NUM | | | | |
| | SCNL | NUM | 3 | | | CRUSH PROFILE U (2ND HISHED) |
| | SHL1 | CHAR | _ | 25 | | SPECIFIC LONGITUDINAL LOCATION (HIGHEST) |
| _ | SHL2 | CHAR | 1 | | | SPECIFIC LONGITUDINAL LCC (2ND HIGHEST, |
| | STRATIF | - | 1 | | | CASE STRATUM |
| | SVL1 | CHAR | 1 | | | SPECIFIC VERTICAL LOCATION (HIGHEST) |
| | SVL2 | CHAR | 1 | | | SPECIFIC VERTICAL LOCATION (2ND H13MEST) |
| | IDD! | CHAR | | 27 | | TYPE OF DAMAGE DISTR.BUTTON (HIGHEST) |
| | TDD2 | CHAR | | 39 | | TYPE OF DAMAGE DISTRIBUTION, 2ND H CHEST; |
| | TOWRES | NUM | 2 | 92 | | RESEARCHER ASSESSMIT VEHICLE D.SPOSIT.DN |
| | VEHNO | NUM | 2 | 15 | | VEHICLE NUMBER |
| | VERSION | | 2 | | | VERSION NUMBER |
| 41 | WHEELBAS | NUM | 8 | 94 | | ORIGINAL WHEELBASE |
| | | | | | | |

SAS CONTENTS OF SAS MEMBER SAS90 VE

| | | | | | LIST OF VARIABLES AND ATTRIBUTES BY POSITION |
|----|--------------|------|-----|----------------------------|--|
| | WARTARIE | TV05 | | | |
| | | | | | FORMAT INFORMAT LABEL |
| _ | PSU | NUM | | 4 | |
| | CASEID | | 4 | 6 | |
| | CASENO | | 3 | | • |
| | STRATIF | | 1 | | |
| | VERSION | NUM | 2 | | VERSION NUMBER |
| | VEHNO | NUM | 2 | 16 | VEHICLE NUMBER |
| 7 | ACCSEQ1 | NUM | 2 | 18 20 | ACCIDENT EVENT SEQUENCE (HIGHEST) |
| | OBJCONTI | | 2 | 20 | OBJECT CONTACTED (HIGHEST) |
| | | NUM | 2 | 22 24 25 | DIRECTION OF FORCE (HIGHEST) |
| 10 | GAD1 SHL1 | CHAR | 1 | 24 | DEFORMATION LOCATION (HIGHEST) |
| 11 | SHL1 | CHAR | 1 | 25 | SPECIFIC LONGITUDINAL LOCATION (HIGHEST) |
| 12 | SVL1 | CHAR | 1 | 26 | SPECIFIC VERTICAL LOCATION (HIGHEST) |
| 13 | SVL1 TDD1 | CHAR | 1 | 27 | TYPE DE DAMAGE DISTRIBUTION (HIGHEST) |
| | EXTENT1 | | 2 | 28 | DEFORMATION EXTENT (HIGHEST) |
| | ACCSEQ2 | | 2 | 30 | ACCIDENT EVENT SEQUENCE (2ND HIGHEST) |
| | OBJCONT2 | | 2 | 32 | OBJECT CONTACTED (2ND HIGHEST) |
| | DOF2 | | 2 | 34 | DIRECTION OF FORCE (2ND HIGHEST) |
| | GAD2 | | 1 | 28 30 32 34 36 | DEFORMATION LOCATION (2ND HIGHEST) |
| | | | · · | 37 | SPECIFIC LONGITUDINAL LOC (2ND HIGHEST) |
| 20 | SHL2 SVL2 | CHAR | 1 | 3 <i>7</i> 38 | SECURIC FOUNDIAGE FOR (SUD MIGHTER) |
| 21 | TDD2 | CHAR | 1 | 30 | SPECIFIC VERTICAL LOCATION (2ND HIGHEST) |
| | EXTENT2 | | 1 | 39 4 0 | TYPE OF DAMAGE DISTRIBUTION (200 HIGHEST) |
| | | | | 42 | |
| | DVL | NUM | 3 | | |
| 24 | DVC1 DVC2 | NUM | 3 | 45 48 | CRUSH PROFILE C1 (HIGHEST) |
| | | | | 48 | CRUSH PROFILE C2 (HICHEST) |
| | | NUM | 3 | 51 54 | CRUSH PROFILE C3 (HIGHEST) |
| | | NUM | 3 | 54 | |
| | DVC5 | NUM | 3 | 57 | CRUSH PROFILE C5 (HIGHEST) |
| 29 | DVC6 | NUM | 3 | 60 63 | CRUSH PROFILE C6 (HIGHEST) |
| | | NUM | 3 | 63 | CRUSH PROFILE D (HIGHEST) |
| | SDVL | NUM | 3 | 66 69 | CRUSH PROFILE L (2ND H;SHEST) |
| | SDVC1 | MOM | 3 | 69 | CRUSH PROFILE C1 (2%0 HIGHEST) |
| 33 | SDVC2 | NUM | 3 | 72 75 | CRUSH PROFILE C2 (2ND MIGHEST) |
| | | NUM | 3 | 75 | CRUSH PROFILE C3 (2ND HIGHEST) |
| 35 | SDVC4 | NUM | 3 | 78 | CRUSH PROFILE C4 (240 HIGHEST) |
| 36 | SDVC5 | NUM | 3 | 81 84 | CRUSH PROFILE C5 (2ND H1GHEST) |
| 37 | SDVC6 | NUM | 3 | 84 | CRUSH PROFILE C6 (2ND HIGHES") |
| 38 | SDVD | NUM | 3 | 87 | CRUSH PROFILE D (240 H15HEST) |
| 39 | DOCCDC | NUM | 2 | 90 | CDCs DOCUMENTED BUT NOT CODED ON FILET |
| 40 | TOWRES | NUM | 2 | 92 | RESEARCHER ASSESSMAT VEHICLE DISPOSITION |
| 41 | WHEELBAS | NUM | 8 | 0.4 | ORIGINAL WHEELBASE |
| | | NUM | 6 | 102 | NATIONAL INFLATION FACTOR |
| | _ | NUM | 6 | 108 8 | |
| - | | NUM | 6 | 114 | RATIO INFLATION FACTOR |
| | | | v | ••• | WOLLD THE COLLON LUC. 07 |

| | | | | | IC LIST UE VANLABLES AND ATTH. BL ES(LON |
|-----|----------|------|-------------|---------|--|
| | | | LENGTH FOS. | TION FO | CKMAT INFORMAT LABEL |
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| 56 | INMAG2 | NUM | 2 | 116 | 2ND MAGNITUDE OF INTRUSION |
| 60 | INMAG3 | NUM | | 124 | 3RD MAGNITUDE OF INTRUSION |
| 64 | INMAG4 | NUM | 2 | 132 | 4TH MAGNITUDE OF INTRUSION |
| 68 | INMAG5 | NUM | | 140 | 5TH MAGNITUDE OF INTRUSION |
| 72 | INMAGE | NUM | 2 | 148 | 6TH MAGNITUDE OF INTRUSION |
| 76 | INMAG7 | NUM | 2 | 156 | 7TH MAGNITUDE OF INTRUSION |
| 80 | INMAG8 | NUM | | 164 | 8TH MAGNITUDE OF INTRUSION |
| 84 | INMAG9 | NUM | 2 | 172 | 9TH MAGNITUDE OF INTRUSION |
| 88 | INMAG10 | NUM | 2 | 180 | 10TH MAGNITUDE OF INTRUSION |
| 101 | NATWGT | NUM | 6 | 207 | NATIONAL INFLATION FACTOR |
| 97 | ODOMETER | NUM | 3 | 198 | ODOMETER READING |
| 8 | OPENLF | NUM | 2 | 20 | LF DOOR, TAILGATE OR HATCH OPENING |
| 10 | OPENLR | NUM | 2 | 24 | LR DOOR, TAILGATE OR HATCH OPENING |
| 9 | OPENRE | NUM | 2 | 22 | RF DOOR, TAILGATE OR HATCH OPENING |
| 11 | OPENRR | NUM | 2 | 26 | RR DOOR, TAILGATE OR HATCH OPENING |
| 12 | OPENTG | NUM | 2 | 28 | TG DOOR, TAILGATE OR HATCH OPENING |
| 98 | PANELDAM | NUM | 2 | 201 | INSTRUMENT PANEL DAMAGE - OCC CONTACT |
| 7 | PASINTEG | NUM | 2 | 18 | PASSENGER COMPARTMENT INTEGRITY |
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| 103 | RATWGT | NUM | 6 | 219 | RATIO INFLATION FACTOR |
| 96 | RDEFLOC | NUM | | 196 | LOCATION STEERING RIM/SPOKE DEFORMATION |
| 95 | RIMDEF | NUM | | 194 | STEERING RIM/SPOKE DEFORMATION |
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| | OPENRE | NUM | 2 | 22 | | | RF DOOR, TAILGATE OR HATCH OPENING |
| | OPENLR | NUM | 2 | 24 | | | LR DOOR, TAILGATE OR HATCH OPENING |
| 11 | OPENRR | NUM | 2 | 26 | | | RR DOOR, TAILGATE OR HATCH OPENING |
| 12 | OPENTS | NUM | 2 | 28 | | | TG DOOR, TAILGATE OR HATCH OPENING |
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| 14 | FA1LRF | NUM | 2 | 32 | | | RF DAMAGE/FAILURE - OPENING IN COLLISION |
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| 22 | GLIMPRR | NUM | 2 | 48 | | | RR GLAZING DAMAGE FROM IMPACT FORCES |
| 23 | GLIMPBL | NUM | 2 | 50 | | | BL GLAZING DAMAGE FROM IMPACT FORCES |
| 24 | GLIMPRUF | NUM | 2 | 52 | | | ROOF GLAZING DAMAGE FROM IMPACT FORCES |
| 25 | GLIMPOTH | NUM | 2 | 54 | | | OTHER GLAZING DAMAGE FROM IMPACT FORCES |
| 26 | GLOCCWS | NUM | 2 | 56 | | | WS GLAZING DAMAGE FROM OCCUPANT CONTACT |
| 27 | GLOCCLF | NUM | 2 | 58 | | | LF GLAZING DAMAGE FROM OCCUPANT CONTACT |
| | GLOCCRF | | 2 | 60 | | | RF GLAZING DAMAGE FROM OCCUPANT CONTACT |
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| | | | 2 | 68 | | | ROOF GLAZING DAMAGE FROM OCC CONTACT |
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| 49 | GLPREOTH | NUM | 2 | 102 | | | OTHER WINDOW PRECRASH GLAZING STATUS |
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| 51 | INCOMP1 | NUM | 2 | 106 | | 1 | LST INTRUDING COMPONENT |
| 52 | INMAG1 | NUM | 2 | 108 | | 1 | IST MAGNITUDE OF INTRUSION |
| 53 | CDRIR1 | NUM | 2 | 110 | | 1 | IST DOMINANT CRUSH DIRECTION |
| 54 | INLOC2 | NUM | 2 | 112 | | 2 | 2ND LOCATION OF INTRUSION |
| 55 | INCOMP2 | NUM | 2 | 114 | | 2 | 2ND INTRUDING COMPONENT |
| 56 | INMAG2 | NUM | 2 | 116 | | 2 | ND MAGNITUDE OF INTRUSION |
| 57 | CDRIR2 | NUM | 2 | 118 | | 2 | ND DOMINANT CRUSH DIRECTION |
| 58 | INLOC3 | NUM | 2 | 120 | | 3 | BRD LOCATION OF INTRUSION |
| 59 | INCOMP3 | NUM | 2 | 122 | | 3 | BRD INTRUDING COMPONENT |
| 60 | INMAG3 | NUM | 2 | 124 | | 3 | BRD MAGNITUDE OF INTRUSION |
| 61 | CDRIR3 | NUM | 2 | 126 | | 3 | BRD DOMINANT CRUSH DIRECTION |
| 62 | INLOC4 | NUM | 2 | 128 | | | TH LOCATION OF INTRUSION |
| 63 | INCOMP4 | NUM | 2 | 130 | | | TH INTRUDING COMPONENT |
| 64 | INMAG4 | NUM | 2 | 132 | | 4 | TH MAGNITUDE OF INTRUSION |
| 65 | CDRIR4 | NUM | 2 | 134 | | | TH DOMINANT CRUSH DIRECTION |
| 66 | INLOC5 | NUM | 2 | 136 | | | 5TH LOCATION OF INTRUSION |
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| 68 | INMAG5 | NUM | 2 | 140 | | | STH MAGNITUDE OF INTRUSION |
| 69 | CDRIR5 | NUM | 2 | 142 | | | STH DOMINANT CRUSH DIRECTION |
| 70 | 1NL006 | NUM | 2 | 144 | | | STH LOCATION OF INTRUSION |
| 71 | INCOMP6 | NUM | 2 | 146 | | 6 | THEINTRUDING COMPONENT |
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| 74 | INLOC7 | NUM | 2 | 152 | | 7 | 7TH LOCATION OF INTRISION |
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| 80 | INMAG8 | NUM | 2 | 164 | | 8 | BTH MAGNITUDE OF INTRUSION |
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| 82 | INLOC9 | NUM | 2 | 168 | | g | OTH LOCATION OF INTRUSION |
| 83 | INCOMP9 | NUM | 2 | 170 | | g | BTH INTRUDING COMPONENT |
| 84 | INMAG9 | NUR | 2 | 172 | | | TH MAGNITUDE OF INTRUSION |
| 85 | CDRIR9 | NUM | 2 | 174 | | 9 | OTH DOMINANT CRUSH DIRECTION |
| 86 | INLOC10 | NUM | 2 | 176 | |] | LOTH LOCATION OF INTRUSION |
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| 88 | INMAG10 | NUM | 2 | 180 | | 1 | 10TH MAGNITUDE OF INTRUSION |
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| 98 | PANELDAM | NUM | 2 | 201 | | | INSTRUMENT PANEL DAMAGE - DCC CONTACT |
| 99 | BOLSTDEF | NUM | 2 | 203 | | | KNEE BOLSTER DEFORMED - OCCUPANT CONTACT |
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| 102 | PSUWST | NUM | 6 | 213 | 8 3 | | PSU INFLATION FACTOR |
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| 15 EJECTION NUM | | | | | | | | |
| 16 EUCTAREA NUM | | | | | | | | |
| 17 EUCTMED NUM 2 39 EJECTION MEDIUM 18 MEDSTA NUM 2 41 MEDIUM STATUS (PRIOR TO IMPACT) 19 ENTRAP NUM 2 43 EFTRAPMENT 20 MANAVAIL NUM 2 45 MANUAL BELT SYSTEM AVAILABILITY 21 MANUSE NUM 2 47 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 AUTAVAIL NUM 2 51 MANUAL BELT FAILURE MODE DURING ACCIDENT 25 AUTFACT NUM 2 53 AUTOMATIC RESTRAINT SYSTEM AVAILABILITY 25 AUTFACT NUM 2 57 AUTOMATIC RESTRAINT SYSTEM FAILURE 27 PARUSE NUM 2 57 AUTOMATIC RESTRAINT SYSTEM FAILURE 29 SEATTYPE NUM 2 63 SEATTYPE OF THIS POSITION 30 SEATERR NUM 2 63 SEATTYPE (THIS OCCUPANT POSITION) 31 CHANKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHIYPE NUM 2 65 SEAT TYPE OF CHILD SAFETY SEAT MAKE/MODEL 33 CHORIENT NUM 2 70 TYPE OF CHILD SAFETY SEAT SEAT SEAT SEAT SEAT SEAT SEAT SEAT | | | | | | | | |
| 18 MEDSTA NUH 2 41 | | | | | | | | |
| 19 ENTRAP | 17 | EJCTMED | NUM | 2 | 39 | | | EJECTION MEDIUM |
| 20 MANAVAIL NUM 2 45 MANUAL BELT SYSTEM AVAILABILITY | 18 | MEDSTA | NUM | 2 | 41 | | | MEDIUM STATUS (PRIOR TO IMPACT) |
| 20 MANAVAIL NUM 2 45 MANUAL BELT SYSTEM AVAILABILITY | 19 | ENTRAP | NUM | 2 | 43 | | | ENTRAPMENT |
| 21 MANUSE NUM 2 47 MANUAL BELT SYSTEM USE 22 MANFROPR NUM 2 49 PROPER USE OF MANUAL BELTS 23 MANFAIL NUM 2 51 MANUAL BELT SATION BELTS 24 AUTAVAIL NUM 2 53 MANUAL BELT SATIONE OF MANUAL BELTS 25 AUTFAIL NUM 2 55 AUTOMATIC RESTRAINT SYSTEM AVAILABILTY 26 AUTFAIL NUM 2 55 AUTOMATIC RESTRAINT SYSTEM AVAILABILTY 27 PARUSE NUM 2 59 POLICE REPORTED RESTRAINT USE 28 HEADREST NUM 2 61 HEAD RESTRAINT TYPE/DAMAGE BY OCCUPANT 29 SEATITYPE NUM 2 63 SEATITYPE (THIS OCCUPANT POSITION) 30 SEATERF NUM 2 65 SEATITYPE (THIS OCCUPANT POSITION) 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT MAKE/MODEL 33 CHORIENT NUM 2 72 CHILD SAFETY SEAT MAKE/MODEL 34 CHARNES NUM 2 74 CHILD SAFETY SEAT MAKE/MODEL 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT MAKE/MODEL 36 CHETHER NUM 2 76 CHILD SAFETY SEAT SHELD USAGE 37 INJSEV NUM 2 76 CHILD SAFETY SEAT SHELD USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMIN NUM 2 82 TREATMINT NUM 2 84 TREATMINT NUM 2 82 TREATMINT NUM 2 84 TREATMINT NUM 2 82 TREATMINT NUM 2 82 TREATMINT NUM 2 82 TREATMINT NUM 2 82 TREATMINT NUM 2 84 TREATMINT NUM 2 86 TREATMI | | | | | | | | MANUAL RELT SYSTEM AVAILABILITY |
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| 23 MANFAIL NUM 2 51 MANUAL BELT FAILURE MODE DURING ACCIDENT 24 AUTWARIL NUM 2 53 AUTWARIL RESTRAINT SYSTEM AVAILAB'LITY 25 AUTHORIC RESTRAINT SYSTEM PAVAILAB'LITY 25 AUTHORIC RESTRAINT SYSTEM PAVAILAB'LITY 25 AUTHORIC RESTRAINT SYSTEM PAVAILAB'LITY 26 AUTHAIL NUM 2 57 AUTHORIC RESTRAINT SYSTEM FAILURE 27 PARUSE NUM 2 59 POLICE REPORTED RESTRAINT SYSTEM FAILURE 28 HEADREST NUM 2 61 HEAD RESTRAINT SYSTEM FAILURE 29 SEATTYPE NUM 2 63 SEAT TYPE (THIS OCCUPANT POSITION) 30 SEATPER NUM 2 65 SEAT TYPE (THIS OCCUPANT POSITION) 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 31 CHMAKE NUM 2 70 TYPE OF CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT ORIENTATION 34 CHHARNES NUM 2 74 CHILD SAFETY SEAT ORIENTATION 34 CHHARNES NUM 2 74 CHILD SAFETY SEAT SHIELD USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHIETHER NUM 2 78 CHILD SAFETY SEAT SHIELD USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATINS) 38 TREATMEN NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 144 CAUSE2 NUM 2 92 IST MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 2ND MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 SAD MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 SAD MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 48 NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 48 NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS NUM 2 10 | | | | | | | | |
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| 26 AUTFAIL NUM 2 57 AUTOMATIC RESTRAINT SYSTEM FAILURE 27 PARUSE NUM 2 59 BEADREST NUM 2 61 BEADREST NUM 2 63 SEATTYPE NUM 2 63 SEATTYPE (THIS OCCUPANT DOSITION) 30 SEATPERF NUM 2 65 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 33 CHARNES NUM 2 74 CHILD SAFETY SEAT ORIENTATION 34 CHARNES NUM 2 76 CHILD SAFETY SEAT THARESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHETHER NUM 2 78 CHILD SAFETY SEAT SHIELD USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 HOSPITAL THAP 40 HOSPSTAY NUM 2 88 WORKING DAYS LOST 41 WORKDAYS NUM 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 SEAT DEFENDENCE OF DEATH 44 CAUSE2 NUM 2 94 ROMENGE DAYS LOST THE TO DEATH 45 CAUSES NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 46 INJURY SEVERITY SCORE 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 100 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 24 | AUTAVAIL | NUM | 2 | 53 | | | AUTOMATIC RESTRAINT SYSTEM AVAILAB'LITY |
| 26 AUTFAIL NUM 2 57 PARUSE NUM 2 59 POLICE REPORTED RESTRAINT USE 28 HEADREST NUM 2 61 BEADREST NUM 2 63 SEATTYPE NUM 2 63 SEATTYPE (THIS OCCUPANT DOSITION) 30 SEATPERF NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 31 CHMAKE NUM 2 70 TYPE OF CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 CHILD SAFETY SEAT MAKE/MODEL 33 CHORIENT NUM 2 72 CHILD SAFETY SEAT MAKE/MODEL 34 CHARNES NUM 2 74 CHILD SAFETY SEAT THARNESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHETHER NUM 2 78 CHILD SAFETY SEAT SHIELD USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMNT NUM 2 84 HOSPITAL STAY 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 TIME TO DEATH 44 CAUSE2 NUM 2 94 NORKING DAYS LOST 45 CAUSES NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 46 INJURY SEVERITY SCORE 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 100 NUMBER RECORDED INJURIES THIS OCCUPANT 48 ISS NUM 6 104 NATIONAL INFLATION FACTOR | 25 | AUTENCT | NUM | 2 | 55 | | | AUTOMATIC RESTRAINT SYSTEM FUNCTION |
| 27 PARUSE NUM 2 59 POLICE REPORTED RESTRAINT USE 28 HEADREST NUM 2 61 HEAD RESTRAINT TYPE/DAMAGE BY OCCUPANT 29 SEATTYPE NUM 2 63 SEAT TYPE (THIS OCCUPANT POSITION) 30 SEATERFR NUM 2 65 SEAT TYPE (THIS OCCUPANT POSITION) 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT 33 CHORIENT NUM 2 74 CHILD SAFETY SEAT HARKESS USAGE 34 CHARNES NUM 2 74 CHILD SAFETY SEAT HARKESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT HARKESS USAGE 36 CHTETHER NUM 2 76 CHILD SAFETY SEAT HARKESS USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMINT NUM 2 82 TREATMENT - MORTALITY 40 HOSPSTAY NUM 2 84 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH | 26 | AUTFA1L | NUM | | | | | AUTOMATIC RESTRAINT SYSTEM FAILURE |
| 28 HEADREST NUM 2 61 HEAD RESTRAIN TYPE/DAMAGE BY OCCUPANT 29 SEATTYPE NUM 2 63 SEAT TYPE (THIS OCCUPANT POSITION) 30 SEATERF NUM 2 65 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 33 CHORIENT NUM 2 72 CHILD SAFETY SEAT ORIENTATION 34 CHARNES NUM 2 74 CHILD SAFETY SEAT HARNESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT HARNESS USAGE 36 CHTETHER NUM 2 76 CHILD SAFETY SEAT HARNESS USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMENT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 MORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.** 2 90 TIME TO DEATH 43 CAUSEI NUM 2 94 WORKING DAYS LOST 44 CAUSEI NUM 2 94 SIND MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSEZ NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 45 CAUSES NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 46 INJURY SEVERITY SCATE THE PORTED CAUSE OF DEATH 46 INJURN NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 49 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 104 NATIONAL INFLATION FACTOR | | - | - | | | | | POLICE REPORTED RESTRAINT USE |
| 29 SEATTYPE NUM 2 63 SEAT TYPE (THIS OCCUPANT POSITION) 30 SEATPERF NUM 2 65 SEAT PERFORMANCE (THIS POSITION) 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT 33 CHORIENT NUM 2 72 CHILD SAFETY SEAT ORIENTATION 34 CHHARNES NUM 2 74 CHILD SAFETY SEAT HARNESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHTETHER NUM 2 78 CHILD SAFETY SEAT SHIELD USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMENT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 88 MORKING DAYS LOST 41 MORKDAYS NUM 2 88 MORKING DAYS LOST 42 DEATH N. 2 90 TIME TO DEATH 43 CAUSE1 NUM 2 92 SATHEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 SAD MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 96 SAD MEDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 46 INJNUM NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR | | | - | | | | | |
| SEAT PERFORMANCE (THIS POSITION) | | | | | | | | |
| 31 CHMAKE NUM 3 67 CHILD SAFETY SEAT MAKE/MODEL 32 CHTYPE NUM 2 70 TYPE OF CHILD SAFETY SEAT 33 CHORIENT NUM 2 72 CHILD SAFETY SEAT ORIENTATION 34 CHARNES NUM 2 74 CHILD SAFETY SEAT ORIENTATION 35 CHSHELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHTETHER NUM 2 78 CHILD SAFETY SEAT TETHER USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.T 2 90 TIME TO DEATH 43 CAUSE1 NUM 2 92 IST MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 ZND MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 46 INJURY SEVERITY SOORE 49 NATWOT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 104 NATIONAL INFLATION FACTOR | | | | | | | | · |
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| 33 CHORIENT NUM 2 72 34 CHHARNES NUM 2 74 35 CHSHIELD NUM 2 76 36 CHTETHER NUM 2 78 37 INJSEV NUM 2 80 38 TREATMINT NUM 2 82 39 MEDFACIL NUM 2 84 40 HOSPSTAY NUM 2 86 41 WORKDAYS NUM 2 88 42 DEATH N.™ 2 90 43 CAUSE1 NUM 2 92 44 CAUSE2 NUM 2 94 45 CAUSE3 NUM 2 96 46 INJNUM NUM 2 98 47 MAIS NUM 2 98 NOTHING NUM 2 98 NOTHING NUM 2 98 NOTHING NUM 2 98 NOTHING DEATH NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT ALS NUM 2 98 NOTHING NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT ALS NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT ALS NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT ALS NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT ALS NUM 2 100 MAXIMUM KNOWN OCCUPANT ALS NUM 2 100 NATIONAL INFLATION FACTOR | 31 | CHMAKE | NUM | 3 | 67 | | | CHILD SAFETY SEAT MAKE/MODEL |
| 34 CHHARNES NUM 2 74 CHILD SAFETY SEAT HARNESS USAGE 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHTETHER NUM 2 78 CHILD SAFETY SEAT TETHER USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N. 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 IST MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 ZND MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 96 BREDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR | 32 | CHTYPE | NUM | 2 | 70 | | | TYPE OF CHILD SAFETY SEAT |
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| 35 CHSHIELD NUM 2 76 CHILD SAFETY SEAT SHIELD USAGE 36 CHTETHER NUM 2 78 CHILD SAFETY SEAT TETHER USAGE 37 INJSEV NUM 2 80 INJURY SEVERITY (POLICE RATING) 38 TREATMNT NUM 2 82 TREATMENT - MORTALITY 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N. 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 IST 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 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWOT NUM 6 104 NATIONAL INFLATION FACTOR | | | | | | | | |
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| 39 MEDFACIL NUM 2 84 TYPE MEDICAL FACILITY INITIAL TREATMENT 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.T 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 IST 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 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWORT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | | | | | | | | |
| 40 HOSPSTAY NUM 2 86 HOSPITAL STAY 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.º 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 IST 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 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR | 38 | TREATMNT | NUM | | | | | |
| 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.** 2 90 TIME TO DEATH 43 CAUSE1 NUM 2 92 IST MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 ZND MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 96 3RD MEDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 39 | MEDFACIL | NUM | 2 | 84 | | | TYPE MEDICAL FACILITY INITIAL TREATMENT |
| 41 WORKDAYS NUM 2 88 WORKING DAYS LOST 42 DEATH N.** 2 90 TIME TO DEATH 43 CAUSE1 NUM 2 92 IST MEDICALLY REPORTED CAUSE OF DEATH 44 CAUSE2 NUM 2 94 ZND MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 96 3RD MEDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 40 | HOSPSTAY | NUM | 2 | 86 | | | HOSPITAL STAY |
| 42 DEATH N. 2 90 TIME TO DEATH 43 CAUSEI NUM 2 92 IST 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 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 41 | MORKDAYS | NUM | | | | | WORKING DAYS LOST |
| 43 CAUSE1 NUM 2 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 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | _ | | | | | | | |
| 44 CAUSE2 NUM 2 94 2ND MEDICALLY REPORTED CAUSE OF DEATH 45 CAUSE3 NUM 2 96 3RD MEDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | | | | | | | | |
| 45 CAUSE3 NUM 2 96 3RD MEDICALLY REPORTED CAUSE OF DEATH 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | - | | | | | | | |
| 46 INJNUM NUM 2 98 NUMBER RECORDED INJURIES THIS OCCUPANT 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 44 | CAUSE2 | NUM | | | | | |
| 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 45 | CAUSE3 | NUM | 2 | 96 | | | 3RD MEDICALLY REPORTED CAUSE OF DEATH |
| 47 MAIS NUM 2 100 MAXIMUM KNOWN OCCUPANT AIS 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | 46 | MUNCHI | NUM | | | | | NUMBER RECORDED INJURIES THIS OCCUPANT |
| 48 ISS NUM 2 102 INJURY SEVERITY SCORE 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | | | | | | | | |
| 49 NATWGT NUM 6 104 NATIONAL INFLATION FACTOR 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | | | | | | | | |
| 50 PSUWGT NUM 6 110 8 3 PSU INFLATION FACTOR | - | • | | | | | | |
| | | | | | | | | |
| 51 RATWGT NUM 6 116 RATIO INFLATION FACTOR | | | | | | | | |
| | 51 | RATWGT | NUM | 6 | 116 | | | RATIO INFLATION FACTOR |
| | | | | | | | | |

CONTENTS OF SAS MEMBER SASSO OI

```
----ALPHABETIC LIST OF VARIABLES AND ATTRIBUTES-----
♥ VARIABLE TYPE LENGTH POSITION FORMAT INFORMAT
                                                       LABEL
14 AIS
                                                          A I S SEVERITY (O I C - A I S )
ASPECT (O I C - A I S )
           NUM
                      2
                              28
11 ASPECT
           CHAR
                              25
                       1
10 BODYREG CHAR
                                                          BODY REGION (O I C - A I S )
                      1
                              24
2 CASEID
           CHAR
                               6
                                                          CASE NUMBER - STRATUM
3 CASENO
           NUM
                      3
                              10
                                                          CASE SEQUENCE NUMBER
                                                          DIRECT/INDIRECT INJURY
17 DIRINJ NUM
                      2
                             34
8 INJNO
           NUM
                              20
                                                          INJURY NUMBER
15 INJSOU
           NUM
                      2
                              30
                                                          INJURY SOURCE
                                                          OCCUPANT AREA INTRUSION NO
18 INTRUNO NUM
                      2
                              36
12 LESION CHAR
                              26
                      1
                                                         LESION (O I C - A I S )
19 NATWGT
           NUM
                      6
                             38
                                                         NATIONAL INFLATION FACTOR
7 OCCNO
          NUM
                      2
                            18
                                                         OCCUPANT NUMBER
1 PSU
           NUM
                      2
                              4
                                                         PRIMARY SAMPLING UNIT NUMBER
          NUM
20 PSUWGT
                      6
                              44 8 3
                                                         PSU INFLATION FACTOR
21 RATWGT NUM
                      6
                             50
                                                         RATIO INFLATION FACTOR
16 SOUCON
          NUM
                      2
                              32
                                                         INJURY SOURCE CONFIDENCE LEVEL
9 SOUDAT NUM
4 STRATIF CHAR
                      2
                              22
                                                         SOURCE OF INJURY DATA
                      1
                              13
                                                         CASE STRATUM
13 SYSORG CHAR
                              27
                      1
                                                         SYSTEM/ORGAN (O I C - A I S )
6 VEHNO
           NUM
                              16
                                                         VEHICLE NUMBER
5 VERSION NUM
                              14
                                                         VERSION NUMBER
```

SAS

CONTENTS OF SAS MEMBER SASSO OI

| | | | | | L151 UF | VARIABLES AND ATTRIBUTES BY POSITIC4 |
|----|----------|------|--------|----|---------|--------------------------------------|
| * | VARIABLE | TYPE | LENGTH | | | INFORMAT LABEL |
| 1 | PSU | NUM | 2 | 4 | | PRIMARY SAMPLING UNIT NUMBER |
| 2 | CASEID | CHAR | 4 | 6 | | CASE NUMBER - STRATUM |
| | | NUM | 3 | 10 | | CASE SEQUENCE NUMBER |
| | | CHAR | 1 | 13 | | CASE STRATUM |
| | VERSION | NUM | 2 | 14 | | VERSION NUMBER |
| | VEHNO | NUM | 2 | 16 | | VEHICLE NUMBER |
| | DCCNO | NUM | 2 | 18 | | OCCUPANT NUMBER |
| | ONLNI | NUM | 2 | 20 | | INJURY NUMBER |
| | SOUDAT | NUM | 2 | 22 | | SOURCE OF INJURY DATA |
| | BODYREG | CHAR | 1 | 24 | | BODY REGION (O I C - A I S) |
| | | CHAR | 1 | 25 | | ASPECT (O I C - A I S) |
| | LESION | CHAR | 1 | 26 | | LESION (O I C - A I S) |
| | | CHAR | 1 | 27 | | SYSTEM/ORGAN (D I C - A I S) |
| | AIS | NUM | 2 | 28 | | A I S SEVERITY (O I C - A I S) |
| | INJSOU | NUM | 2 | 30 | | INJURY SOURCE |
| | SOUCON | NUM | 2 | 32 | | INJURY SOURCE CONFIDENCE LEVEL |
| | DIRINJ | NUM | 2 | 34 | | DIRECT/INDIRECT INJURY |
| | INTRUNO | NUM | 2 | 36 | | OCCUPANT AREA INTRUSION NO |
| | NATWGT | NUM | 6 | 38 | | NATIONAL INFLATION FACTOR |
| | | NUM | 6 | 44 | 8 3 | PSU INFLATION FACTOR |
| 21 | RATWGT | NUM | 6 | 50 | | RATIO INFLATION FACTOR |

APPENDIX A

DATA COLLECTION FORMS

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

US Department of Transportation
National Highway Traffic Safety

| | | | | SPECIAL STU | DIES INDICA | TORS |
|--|---|-----------------------------------|------------------------------|--|------------------------------------|--|
| Primary Samp | | er — | that ! | k (🛩) each special | study (SS12 SS ed code 1 for th | (16 below) le checked |
| _ | | ION | spec | al studies and 0 fo | or the special stu | udies not |
| | IDENTIFICAT | ON | chec | | | 0 |
| Number of Ge Forms Submit | | | 1 | SS12 Not Acth | /0 | |
| Date of Accide | | | | | | |
| · | | | 9 | SS15 | | |
| Time of Accid | d military time i | of accident | 10 | \$\$16 | | |
| NOTE Midnig | | | | | R OF EVENT | s |
| J | own = 9999 | | | Number of Recorder In This Accident Code the number of this accident | | ————curred in |
| | | AC | CIDENT EVE | NTS | | |
| For each event other involved v | that occurred in rehicle or object (| the accident, cod on the right | e the lowest nu | mbered vehicle in th | ie ieit Colonina ei | |
| Accident Event Sequence Number | Vehicle Number | Class of Vehicle | General Area of Damage | Vehicle Number or Object Contacted | Class of Vehicle | General Area of Damage |
| Sequence | Vehicle | Class of | Area of | Or | Class of | General Area of |
| Sequence Number | Vehicle Number | Class of Vehicle | Area of Damage | or Object Contacted | Class of Vehicle | General Area of Damage |
| Sequence Number | Vehicle Number | Class of Vehicle | 15 | Object Contacted | Class of Vehicle | General Area of Damage |
| Sequence Number 12. 0 1 19. 0 2 26. 0 3 | Vehicle Number 13 20 | Class of Vehicle 14 21 | Area of Damage 15 22 29 | 16 | Class of Vehicle 17 24 31 | Gereral Area of Damage 18 25 |
| Sequence Number 12. 0 1 19. 0 2 28. 0 3 33. 0 4 | Vehicle Number 13 20 27 34 | Class of Vehicle 14 21 28 | 22 29 | 16 | Class of Vehicle 17 24 31 38 | Gereral Area of Damage 18 25 32 |

HS Form 434 (1/90)

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 $\stackrel{\cdot}{=}$ 110 $\stackrel{\cdot}{=}$ 114) (05) Largest (wheelbase $\stackrel{\cdot}{=}$ 115)
- (09) Unknown passenger car size
- (11) Short utility vehicle
- (12) Truck based utility (10 000 lbs GVWR)
- (13) Passenger van (=10 000 (bs GVWR)
- (14) Other van (10 000 lbs GVWR)
- (15) Pickup truck (10 000 lbs GVWR)
- (18) Other truck (10 000 lbs GVWR)
- (19) Unknown fight truck type
- (20) School bus
- (21) Other bus
- (22) Truck (10 000 lbs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trader(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDC APPLICABLE AND OTHER VEHICLES

TDC APPLICABLE **VEHICLES**

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

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| 1 Primary Sampling Unit Number ——— | 11. Police Reported Alcohol or Drug Presence |
|--|---|
| 2 Case Number - Stratum | (0) Neither alcohol nor drugs present (1) Yes (alcohol present) |
| 2 Case Number – Stretum | (2) Yes (drugs present) |
| 3 Vehicle Number ——— | (3) Yes (alcohol and drugs present) |
| VEHICLE IDENTIFICATION | (4) Yes (alcohol or drugs present – specifics |
| VEHICLE IDENTIFICATION | unknown) |
| 4. Vehicle Model Year | (7) Not reported |
| Code the last two digits of the model year | (8) No driver present (9) Unknown |
| (99) Unknown | (5) Offknown |
| | 12. Alcohol Test Result for Driver |
| 5. Vehicle Make (specify): | 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. (99) Unknown | (97) AC test performed, results unknown (98) No driver present |
| (33) UNKNOWN | (99) Unknown |
| 6. Vehicle Model (specify): | (55) GIRIGHTI |
| | Source |
| Applicable codes are found in your | ACCIDENT RELATED |
| NASS CDS Data Collection, Coding, and | ACCIDENT NELATED |
| Editing Manual | 13. Speed Limit |
| (999) Unknown | (00) No statutory limit |
| | Code posted or statutory speed limit |
| 7. Body Type ——— | (99) Unknown |
| Note: Applicable codes are found on the back of this page | 1 |
| tile back of tills page | 14. Attempted Avoidance Maneuver |
| 8. Vehicle Identification Number | (00) No impact (01) No avoidance actions |
| | (02) Braking (no lockup) |
| | (03) Braking (lockup) |
| Left justify, Slash zeros and letter Z (0 and 골) | (04) Braking (lockup unknown) |
| No VIN - Code all zeros | (05) Releasing brakes |
| Unknown - Code all nine's | (06) Steering left |
| | (07) Steening right |
| OFFICIAL RECORDS | (08) Braking and steering left (09) Braking and steering right |
| OFFICIAL REGISTION | (10) Accelerating |
| 9 Police Reported Vehicle Disposition | (11) Accelerating and steering left |
| (0) Not towed due to vehicle damage | (12) Accelerating and steering right |
| (1) Towed due to vehicle damage | (97) No driver present |
| (9) Unknown | (98) Other action (specify) |
| 10. Police Reported Travel Speed | (99) Unknown |
| | 15. Accident Type — — |
| Code to the nearest mph (NOTE 00 means | Applicable codes may be found on the back |
| less than 0.5 mph) (97) 96 5 mph and above | of page two of this field form |
| (97) 96 5 mpn and above (99) Unknown | (00) No impact |
| (30) dikhowii | Code the number of the diagram that |
| | best describes the accident circumstance |
| | (98) Other accident type (specify) |
| | (99) Unknown |
| | |
| **** STOP HERE IF GV07 | DOES NOT EQUAL 01-49 **** |

HS Form 435 (Rev. 1/90)

148 -438

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 wagon, includes auto based ambulance/hearse)
- (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 (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) (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) School bus (designed to carry students, not cross country 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 | |
|--|--|
| OCCUPANT NELATED | 24. Rollover |
| 16. Driver Presence in Vehicle | (0) No rollover (no overturning) |
| (0) Driver not present | |
| (1) Driver present | Rollover (primarily about the longituditial axis) |
| (9) Unknown | (1) Rollover, 1 quarter turn only |
| | (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 | |
| | OVERRIDE/UNDERRIDE (THIS VEHICLE) |
| 19. Vehicle Curb Weight 0 0 | OF F A Charida (Hadasanda (abia yabiala) |
| Code weight to nearest | 25. Front Override/Underride (this vehicle) |
| 100 pounds | 26. Rear Override/Underride (this vehicle) |
| (010) Less than 1050 pounds | Zo. hear Override/Underride (this vehicle) |
| (135) 13,500 lbs or more | (0) No override/underride, or |
| (999) Unknown | not an end-to-end impact |
| | Hot an anatorena impact |
| Source: | Override (see specific CDC) |
| 20 Vehicle Cargo Waight 0.0 | (1) 1st CDC |
| 20. Verticie Cargo Walgire | (2) 2nd CDC |
| Code weight to nearest | (3) Other not automated CDC (specify |
| 100 pounds. | |
| (00) Less than 50 pounds | |
| (97) 9.650 lbs or more | Underride (see specific CDC) |
| (99) Unknown | (4) 1st CDC |
| RECONSTRUCTION DATA | (5) 2nd CDC |
| RECONSTRUCTION DATA | (6) Other not automated CDC (specify) |
| 21. Towed Trailing Unit | (0) Gallet Het Gelevine 199 |
| (0) No towed unit | |
| (1) Yes – towed trailing unit | and the state of the second of |
| (9) Unknown | (7) Medium/heavy truck override |
| (a) annionn | (9) Unknown |
| 22. Documentation of Trajectory Data | HEADING ANGLE AT IMPACT FOR |
| for This Vehicle | HIGHEST DELTA V |
| (0) No | |
| (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 | 1 |
| (2) Cracked/sheared | 28. Heading Angle for Other Vehicle |
| (3) Tilted <45 degrees | |
| (4) Tilted ≥45 degrees | |
| (5) Uprooted tree | |
| (6) Separated pole from base | |
| (7) Pole replaced | |
| (8) Other (specify): | |
| (9) Unknown | 1 |
| (3) CHKHOWH | |

| Cate gon | Configur ation | ACCIDENT TYPES (Includes Intent) |
|---|-------------------------------------|---|
| | A Right Roadside Departure | DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS UNKNOWN |
| Single Driver | B Left Roadside Departure | DRIVE OFF CONTROL AVOID COLLISION SPECIFICS SPECIFICS UNKNOWN |
| - | C Forward Impact | PARKED VEH STA OBJECT PEDESTRIAN/ END SPECIFICS SPECIFICS UNKNOWN |
| urii Urii | D Rear End | 20 22 24 25 28 20 (EACH • 32) (EACH • 33) STOPPED SLOWER DECEL 31 SPECIFICS SPECIFICS UNKNOWN |
| II. Sane Trafficway Same Direction | E Forward Impact | CONTROL CONTROL TRACTION LOSS TRACTION LOSS WITH VEH WITH OBJECT OTHER UNKNOWN |
| | F Sideswipe Angle | 46 (EACH · 48) (EACH · 49) SPECIFICS SPECIFICS UNKNOWN OTHER |
| 3) [RIO | G Head On | 50 51 (EACH • 52) (EACH • 53) SPECIFICS SPECIFICS UNKNOWN |
| Same Trafficus Opposite Direction | H Forward Impact | CONTROL/ TRACTION LOSS SS CONTROL/ TRACTION LOSS TRACTION LOSS |
| = | l Sideswipe Angle | (EACH • 66) (EACH • 67) SPECIFICE SPECIFICS UNKNOWN LATERAL MOVE OTHER |
| Change Trafficway Vehicle Turning | J Turn Across Path | HINTIAL OPPOSITE INITIAL BAME DIRECTIONS EPECIFICS SPECIFICS OTHER UNKNOWN |
| IV Change Traffkw Vehick Turning | K Turn Into Path | TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS OTHER UNKNOWN |
| V Increct ing Pathy (Vehicle Damage) | L Straight Paths | (EACH • 90) SPECIFICS SPECIFICS UNKNOWN OTHER |
| VJ Miscel | M Backing Etc | SACKING VEM STATES VEM OR OSJECT SACKING VEM STATES VEM STATES |

| 29. Basis for Total Delta V (Highest) —— | Secondary High |
|--|--|
| Delta V Calculated | 32. Lateral Component of Delta V |
| (1) CRASH program - damage only routine | |
| (2) CRASH program - damage and trajectory | Nearest mph |
| routine | |
| (3) Missing vehicle algorithm | (NOTE _00 means greater than |
| (5) Missing Venicle algorithm | -05 and less than +05 mph) |
| Delta V Not Calculated | (±97) ±96.5 mph and above |
| (4) At least one vehicle (which may be this vehicle) | (_ 99) Unknown |
| is beyond the scope of an acceptable reconstruc- | (= 33) OHKHOWH |
| tion program, regardless of collision conditions. | |
| tion program, regardless of collision conditions. | 33. Energy Absorption 0 0 |
| (E) All and also week a second (CDC analysishle) of | 33. Energy Absorption |
| (5) All vehicles within scope (CDC applicable) of | |
| CRASH program but one of the collision con- | Nearest 100 foot-lbs |
| ditions is beyond the scope of the CRASH pro- | |
| gram or other acceptable reconstruction tech- | (NOTE 0000 means less than 50 Foct-Lbs) |
| niques, regardless of adequacy of damage data | (9997) 999,650 foot-lbs or more |
| | (9999) Unknown |
| (6) All vehicles and collision conditions are within | j |
| scope of one of the acceptable reconstruction | 34. Confidence in Reconstruction Program |
| programs, but there is insufficient data available | Results (for Highest Delta V) |
| COMPUTER GENERATED DELTA V | (0) No reconstruction |
| COMPUTER GENERATED DELTA V | (1) Collision fits model—results appear |
| Secondary Highest | reasonable |
| | (2) Collision fits model – results appear high |
| 30. Total Delta V | (3) Collision fits model—results appear low |
| | (4) Borderline reconstruction – results |
| Nearest mph | appear reasonable |
| | ł |
| (NOTE: 00 means less than | 35. Type of Vehicle Inspection |
| 0.5 mph) | (0) No Inspection |
| (97) 96.5 mph and above | (1) Complete inspection |
| (99) Unknown | (2) Partial inspection (specify) |
| 1007 0111111111 | |
| | |
| 31. Longitudinal Component of + | 36. Is this an AOPS Vehicle? |
| Delta V | (0) No |
| | (1) Yes |
| Nearest moh | (1) 100 |
| | 1 |
| (NOTE: _00 means greater than | 1 |
| - 0.5 and less than + 0.5 mph) | 1 |
| (±97) ±96.5 mph and above | 1 |
| (_ 99) Unknown | |
| (== 00/ OHR/104H) | |
| | |
| | THE PROPERTY OF THE PARTY OF TH |
| *** STOP: IF THE CDS APPLICABLE VEHIC | CLE WAS NOT INSPECTED (I.E., GV35 = 0), *** |
| I DO NOT COMPLETE THE EXTERN | OR AND INTERIOR VEHICLE FORMS. |

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING 51STEM
CRASHWORTHINESS DATA 57STEM

| National High Administration | vay Traffic Salety | | | | | | NA1 | | | | A SYSTEM |
|-----------------------------------|---|--|--|--|---|--|--|---|----------------|----------------|-----------------|
| 1 Primary | Sampling Unit Num | nber | | _ 3 v | ehicle N | lumber | | | | | |
| 2 Case Nu | ımber – Stratum | | | _ | | | | | | | j |
| | | | /EHICLE | DENT | IFICAT | ION | | | | | |
| VIN | | | | | | | _ Mode | Year _ | | | |
| Vehicle Ma | ke (specify) | | | | Vehic | le Mode | el (speci | fy) | | | |
| | | | L | OCATO |)R | | | | | | |
| | end of the damage an undamaged axis | | | hicle lor | ngitudin | al cente | er line o | r bumpe | er corne | r for en | ıd |
| Specific Impact No | Location of Dire | | | Locatio | n of Fle | eld L | L | ocation | of Ma | ximum | Crush |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | CDLI | SH PRO | 0 E II E | | | | | | |
| Sil M In Fr th Sil | entify the plane at will, etc.) and label adjusted to C6 from pacts. The space value is declared to the taper, etc. Record se as many lines/colong. | ustments (en driver to fined as the ons. This manner the value f | e.g., free sp passenger e distance t ay include for each C-r | side in solution in the soluti | front or the ba owing, ement a | rear im seline a bumper nd max | nd the colonial industrial indust | nd rear original umper t rush. | to front | in side | aken a t |
| Specific | · | |)amage | | | | Pionic | <u> </u> | <u> </u> | | |
| Impact Number | Plane of C-Measurements | Width (CDC) | Max Crush | Field L | C ₁ | C2 | C3 | C ₄ | C ₅ | C ₆ | ±D |
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HS Form 435A (Rev 1/90)

CDC WORKSHEET

| | | | CODES FO | OR OBJECT O | ONTACTED | | | | | | |
|----------|---------------|---|----------------------|--------------------|--------------------------------|------------------------|----------------|----------------|--|--|--|
| 01-30 - | -Vehicle Nun | nber | | | (57) Fence | | | | | | |
| Noncol | llision | | | | (58) Wall | | | | | | |
| | Overturn – r | oilover | | | (59) Building | | | | | | |
| | Fire or explo | | | | (60) Ditch or Culvert | | | | | | |
| (33) | Jackknife | | | | (61) Ground (62) Fire bydra | nt | | | | | |
| (34) | Other intrau | nit damage (s | pecify). | | (62) Fire hydra (63) Curb | F1(| | | | | |
| | | . — — — — — — — — — — — — — — — — — — — | | | (64) Bridge | | | | | | |
| | Noncollision | | | | (68) Other fixe | d object (sp | ecify) | | | | |
| (38) | Other nonco | ollision (specifi | () | | | | | | | | |
| (20) | No seelle ee | | | | (69) Unknown fixed object | | | | | | |
| ,, | | – details unkr | IOWII | Co | llision With No | nfixed Obje | ect | | | | |
| | on with Fixed | - | 1 | | (71) Motor veh | | | | | | |
| | | thes in diamet | | | (72) Pedestrian | | | | | | |
| | Shrubbery | ches in diamet | B1 / | | (73) Cyclist or | • | | | | | |
| | Embankmer | | | | (74) Other non | motorist or | conveyance | (specify) | | | |
| /AE\ | Brookman | pole or post (a | ny diameter |) | (75) Vehicle oc | cupant | | | | | |
| | | | ily Graffieles | | (76) Animal | | | | | | |
| | eakaway Pole | | diameter | | (77) Train | | | | | | |
| | | t (≤4 inches in t (>4 but ≤12 | | | (78) Trailer, dis | | | | | | |
| (31) | diameter) | (1/7 DU(2 12 | | | (88) Other non | itixed objec | t (specify) | | | | |
| (52) | | t (>12 inches | n diameter) | | | | | | | | |
| | | t (diameter un | | | (89) Unknown nonfixed object | | | | | | |
| (54) | Concrete tra | affic barrier | | | (98) Other eve | nt (specify) | | | | | |
| (55) | Impact atte | | fv)· | | (99) Unknown event or object | | | | | | |
| | | | | | ····· | | | | | | |
| | | DEFOR | MATION CL | ASSIFICATION | N BY EVENT N | UMBER | | | | | |
| | | | | | (4) | (5) | | | | | |
| Accident | | (1) (2) | | (0) | Specific | Specific | (6) Type of | (7) | | | |
| Sequence | Object | Direction of Force | Incremental Value of | (3) Deformation | Longitudinal or Lateral | Vertical or Lateral | Damage | Deformation | | | |
| Number | Contacted | (degrees) | Shift | Location | Location | Location | Distribution | Extent | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| HIGHEST DELTA "V" | | ION DEFORM | MATION CLAS | SSIFICATIO | N | |
|---|---|--|---|---|---|------------------------------|
| Accident Event Sequence Object Number Contact | (1) (2) t Direction | (3) Deformation Location | (4) Specific Longitudinal or Lateral Location | (5) Specific Vertical or Lateral Location | (6) Type of Damage <u>Distribution</u> | (7) Deformation Extent |
| 4 5 | _ 6 | 7 | 8 | 9 | 10 | 11 |
| Second Highest Delta | a ''V'' | | | | | |
| 12 13 | _ 14 | 15 | 16 | 17 | 18 | 19 |
| | | CRUS | H PROFILE | | | |
| (The crush in HIGHEST DELTA "V" | profile for the control the appropriate | damage describ space below A | ed in the CDC(s LL MEASUREM |) above shou ENTS ARE IN | ld be documer INCHES.) | nted |
| 20. 21. | 1 <u>C2</u> | C3 | <u>C4</u> | <u>C5</u> | C6 | 22 - - D |
| Second Highest Delt. | a ''V'' | | | | | |
| L | | | | | C6 | 25. + - D - - |
| 26. Are CDCs Document but Not Coded on Ti Automated File (0) No (1) Yes | he((| esearcher's Ass f Vehicle Dispos)) Not towed du vehicle dama) Towed due to vehicle dama)) Unknown | sition e to ge | C | I Wheelbase Code to the learest anth of an inch Unknown | |
| (I.E., G | STOP: IF THE iV09 = 0 OR 9), | CDS APPLICATION | ABLE VEHICL | E WAS NOT | TOWED | RM. |

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

U.S. Department of Transportation
Relational Highway Traffic Safety
Administration

| PARTIE SOFT GRANT | GLAZING |
|--|--|
| 1. Primary Sampling Unit Number ———— | Glazing Damage from Impact Forces |
| 2. Case Number – Stratum —— —— —— | 15.WS 16. LF 17. RF 18. LR 19. RR |
| 3. Vehicle Number — — | 20. BL 21. Roof 22. Other |
| INTEGRITY | (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 |
| 4. Passenger Compartment Integrity —— —— (00) No integrity loss | (4) Glazing out-of-place (cracked or not) and not holed from impact forces |
| Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) | (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 |
| (03) Door/hatch (rear) (04) Roof | (9) Unknown if damaged Glazing Damage from Occupant Contact |
| (05) Roof glass (06) Side window | |
| (07) Rear window (08) Roof and roof glass | 23. WS 24. LF 25. RF 26. LR 27. RR |
| (09) Windshield and door (side) (10) Windshield and roof | 28. BL 29. Roof 30. Other |
| (11) Side and rear window (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify): | (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 |
| (99) Unknown | (5) Glazing out-of-place by occupant contact and holed by occupant contact |
| Door, Tailgate Or Hatch Opening | (6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant |
| 5. LF 6. RF 7. LR 8. RR 9. TG/H (0) No door/gate/hatch | If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV 31 Through IV 46 As 0 |
| (1) Door/gate/hatch remained closed and operational | Type of Window/Windshield Glazing |
| (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut | 31. WS32. LF33. RF34. LR35. RR |
| (8) Other (specify) | 31. WS32. LF33. NF33. UI30. III36. BL 37. Roof 38. Other |
| (9) Unknown | (0) No glazing contact and no damage, or no glazing |
| Demage/Failure Associated with Door, Tailgate or Hatch | (1) AS-1 — Lamineted |
| Opening in Collision. If IV05-IV09 ≠ 2, Then Code €. | (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted |
| | (4) AS-14 — Glass/Plastic (8) Other (specify) |
| 10. LF 11. RF 12. LR 13. RR 14. TG/H | |
| (0) No door/gate/hatch or door not opened | (9) Unknown Window Precresh Glazing Status |
| Door, Teligate, or Hatch Came Open During Collision (1) Door operational (no damage) | ì |
| (2) Latch/striker failure due to damage (3) Hinge failure due to damage | 39. WS 40. LF 41. RF 42. LR 43. RR |
| (4) Door structure failure due to damage | 44. BL 45. Roof 46. Other |
| (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage | (0) No glazing contact and no damage, or no glazing |
| (6) Latch/striker and hinge failure due to | (1) Fixed (2) Closed |
| damage (8) Other failure (specify): | (3) Partially opened (4) Fully opened |
| (9) Unknown | (9) Unknown |
| | |

HS Form 435C (Rev. 1/90)

| OCCUPANT AREA INTRUSION | | | | | | | | | |
|---|-----------------|--|--|--|--|--|--|--|--|
| Note If no intrusions, leave variables IV | 47-IV 86 blank. | INTRUDING COMPONENT | | | | | | | |
| | | Interior Components | | | | | | | |
| | Dominant | (01) Steering assembly | | | | | | | |
| Location of Intruding Magnitu | | (02) Instrument panel left | | | | | | | |
| Intrusion Component of Intrusi | on Direction | (03) Instrument panel center | | | | | | | |
| | | (04) Instrument panel right | | | | | | | |
| 1st 47 48 49 | 50 | (05) Toe pan | | | | | | | |
| | | (06) A-pillar | | | | | | | |
| | | (07) B-pillar | | | | | | | |
| 0.454 | E 4 | (08) C-pillar | | | | | | | |
| 2nd 51, 52 53 | 54 | (09) D-pillar | | | | | | | |
| | | (10) Door panel | | | | | | | |
| | | (12) Roof (or convertible top) | | | | | | | |
| 3rd 55 56 57 | 58 | (13) Roof side rail | | | | | | | |
| | | (14) Windshield | | | | | | | |
| | | (15) Windshield header | | | | | | | |
| 4th 59 60 61 | 62 | (16) Window frame | | | | | | | |
| 4th 55 60 01 | UZ | (17) Floor pan | | | | | | | |
| | | (18) Backlight header | | | | | | | |
| | | (19) Front seat back | | | | | | | |
| 5th 63 64 65 | 66 | (20) Second seat back | | | | | | | |
| | | (21) Third seat back | | | | | | | |
| | | (22) Fourth seat back | | | | | | | |
| 6th 67 68 69 | 70 | (23) Fifth seat back | | | | | | | |
| 0111 07 08 05 | / O | (24) Seat cushion | | | | | | | |
| | | (25) Back panel or door surface | | | | | | | |
| | | (26) Other interior component (specify): | | | | | | | |
| 7th 71 72 73 | 74 | | | | | | | | |
| | | (27) Side panel - forward of the A-pillar | | | | | | | |
| | | (28) Side panel - rear of the A-pillar | | | | | | | |
| 8th 75 76 77 | 78 | Exterior Components | | | | | | | |
| 0111 79: 70: 77: | 70 | (30) Hood | | | | | | | |
| | | (31) Outside surface of vehicle (specify): | | | | | | | |
| • | | | | | | | | | |
| 9th 79 80 81 | 82 | (32) Other exterior object in the environment | | | | | | | |
| | | i | | | | | | | |
| | | (specify): | | | | | | | |
| 10th 83 84 85 | 86 | (33) Unknown exterior object | | | | | | | |
| | | (97) Catastrophic (98) Intrusion of unlisted component(s) | | | | | | | |
| LOCATION OF INTRUSION | | | | | | | | | |
| LOCATION OF INTRUSION | | (specify): | | | | | | | |
| Front Seat Fourth Seat | | (99) Unknown | | | | | | | |
| (11) Left (41) Left | | MACAUTURE OF INTRUCCOS | | | | | | | |
| (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) Catastropi | | (3) ≥ 6 inches but < 12 inches (4) ≥ 12 inches but < 18 inches | | | | | | | |
| (21) Left (98) Other encl | | (4) ≥ 12 inches but < 18 inches (5) ≥ 18 inches but < 24 inches | | | | | | | |
| (22) Middle area (spec | ify): | (5) ≥ 18 inches but < 24 inches (6) ≥ 24 inches | | | | | | | |
| (23) Right | | (7) Catastrophic | | | | | | | |
| Third Sont (99) Unknown | | (9) Unknown | | | | | | | |
| Inite Seat | | (a) authorit | | | | | | | |
| (31) Left | | DOMINANT CRUSH DIRECTION | | | | | | | |
| (32) Middle | | (1) Vertical | | | | | | | |
| (33) Right | | (2) Longitudinal | | | | | | | |
| | | (3) Lateral | | | | | | | |
| | | (7) Catastrophic | | | | | | | |
| | | (9) Unknown | | | | | | | |
| <u> </u> | | | | | | | | | |

| STEERING COLUMN | 92. Steering Rim/Spoke Deformation |
|---|---|
| .87. Steering Column Type (1) Fixed column (2) Tilt column | Code actual measured deformation to the nearest inch. (0) No steering rim deformation |
| (3) Telescoping column | (1-5) Actual measured value |
| (4) Tilt and telescoping column | (6) 6 inches or more |
| (8) Other column type (specify) | (8) Observed deformation cannot be measured (9) Unknown |
| | (3) CHRIOWH |
| (9) Unknown | 93. Location of Steering Rim/Spoke |
| If PDOF ≠ 11, 12 or 1, Then Code IV88-IV91 As 96 | Deformation —— —— (00) No steering rim deformation |
| 88. Steering Column Collapse Due to | Quarter Sections |
| Occupant Loading ———— | (01) Section A |
| Code actual measured movement | (02) Section B |
| to the nearest inch. See coding manual | (03) Section C |
| for measurement technique(s). | (04) Section D |
| (00) No movement, compression, or | |
| collapse | Half Sections |
| (01-19) Actual measured value (20) 20 inches or greater | (05) Upper half of rim/spoke |
| (20) 20 Inches of greater | (06) Lower half of rim/spoke Upper (Left Right |
| Estimated movement from observation | (U/) Left half of rim/spoke (Lover) |
| (81) Less than 1 inch | (08) Right half of rim/spoke |
| (82) ≥ 1 inch but < 2 inches | (09) Complete steering wheel collapse |
| (83) ≥ 2 inches but < 4 inches | (10) Undetermined location |
| (84) ≥ 4 inches but < 6 inches | (99) Unknown |
| (85) ≥ 6 inches but < 8 inches (86) Greater than or equal to 8 inches | INSTRUMENT PANEL |
| (96) Not assessed (PDOF ≠ 11, 12, 1) | INSTRUMENT PANCE |
| (97) Apparent movement, value | 94. Odometer Reading |
| undetermined or cannot | miles - Code mileage to the |
| be measured or estimated | nearest 1,000 miles |
| (98) Nonspecified type column | (000) No odometer |
| (99) Unknown | (001) Less than 1,500 miles |
| Direction And Magnitude of Steering | (300) 299,500 miles or more |
| Column Movement | (999) Unknown |
| + | Source |
| 89. Vertical Movement | |
| | 95. Instrument Panel Damage from |
| + | Occupant Contact? —— (0) No |
| 90. Lateral Movement | (1) Yes |
| | (9) Unknown |
| 91. Longitudinal Movement | |
| Code the actual measured movement | 96. Knee Bolsters Deformed from |
| to the nearest inch. See Coding Manual | Occupant Contact? — |
| for measurement technique(s) | (0) No |
| (00) No steering column movement | (1) Yes |
| $(\pm 01 - \pm 49)$ Actual measured value | (8) Not present (9) Unknown |
| (±50) 50 inches or greater | (a) Olikilowii |
| Estimated movement from observation | 97. Did Glove Compertment Door Opin |
| $(\pm 81) \ge 1$ inch but < 3 inches | During Collision(s)? |
| $(\pm 82) \ge 3$ inches but < 6 inches | (0) No |
| $(\pm 83) \ge 6$ inches but < 12 inches | (1) Yes (8) Not present |
| $(\pm 84) \ge 12$ inches | (9) Unknown |
| (96) Not assessed (PDOF ≠ 11, 12, 1) (97) Apparent movement > 1 inch but | (a) Olikilowii |
| cannot be measured or estimated | |

(___99) Unknown

US Department of Transportation
National Highway Traffic Salery
Administration

Form Approved O M B No 2127-0021 NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

OCCUPANT ASSESSMENT FORM

| Primary Sampling Unit Number | 11. Occupant's Posture |
|---|--|
| 2. Case Number – Stratum | (0) Normal posture (1) Abnormal posture (specify): |
| 3. Vehicle Number | (9) Unknown |
| i | EJECTION/ENTRAPMENT |
| 4. Occupant Number | ESECTION/ENTRAPINENT |
| OCCUPANT'S CHARACTERISTICS | 12. Ejection |
| 5. Occupant's Age | (0) No ejection (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 |
| | (9) Unknown |
| (97) 97 years and older | 13. Ejection Area |
| (99) Unknown | (0) No ejection |
| | (1) Windshield |
| 6. Occupant's Sex | (2) Left front |
| (1) Male (2) Female | (3) Right front |
| (-) | (4) Left rear |
| (9) Unknown | (5) Right rear |
| 7. Oceanocado Hainha | (6) Rear |
| 7. Occupant's Height Code actual height to the nearest inch. | (7) Roof |
| (99) Unknown | (8) Other area (e.g., back of pickup, etc.) |
| (55) CHRIOWII | (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) |
| 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. Medium Status (Immediately Prior to Impact) |
| Second Seat | (0) No ejection |
| (21) Left side | (1) Open |
| (22) Middle | (2) Closed |
| (23) Right side | (3) Integral structure |
| (24) Other (specify)· | (9) Unknown |
| Third Seat | 16. Entrapment |
| (31) Left side | (NOTE: Entrapped means that part of the |
| (32) Middle | person was in the vehicle and mechanically |
| (33) Right side | restrained; jammed doors and immobilizing |
| (34) Other (specify): | injuries by themselves are not sufficient to |
| Fourth Seat | constitute entrapment.) |
| (41) Left side | (0) Not entrapped |
| (42) Middle | (1) Entrapped |
| (43) Right side | (9) Unknown |
| (44) Other (specify): | |
| (97) In or on unenclosed area | 1 |
| (98) Other seat (specify): | Ĭ |
| (99) Unknown | i i |

HS Form 433A (Rev. 1/90)

This report is authorized by P.L. 89-863, Title 1, Section 106, 106, and 112. While you are not required to respond, your ecoperation is needed to make the results of this data sollection affort comprehensive, assurate, and timely.

(8) Other manual belt failure (specify):

(9) Unknown

| 28. 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 | |
| (07) Split bench with folding back(s) | (09) Unknown orientation |
| (08) Pedestal (i.e., van type) | |
| (09) Other seat type (specify): | Designed for Forward Facing for This Age/Weight |
| 100 | (11) Rear facing |
| (99) Unknown | (12) Forward facing |
| OR Cont Builting Philip Control - Builting | (18) Other orientation (specify): |
| 27. Seat Performance (This Occupant Position) —— | (40) 11-1 |
| (0) Occupant not seated or no seat (1) No seat performance failure(s) | (19) Unknown orientation |
| (1) No seat performance railure(s) (2) Seat adjusters failed | Hakasus Bast - O. S. S. S. S. S. |
| (3) Seat back folding locks falled | Unknown Design or Orientation for This |
| (4) Seat track/anchors falled | Age/Weight, or Unknown Age/Weight |
| (5) Deformed by impact of occupant | (21) Rear facing |
| (6) Deformed by passenger compartment intrusion | (22) Forward facing |
| (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 |
| | 33. Child Safety Seat Tether Usage |
| (9) Unknown | Note: Options below applicable to |
| | Variables 0A31-0A33. |
| | (00) No child safety seat |
| CHILD SAFETY SEAT | Not Designed with |
| CHIED SAFETY SEAT | Harness/Shield/Tether |
| 28 Child Cafaty Cast Make/Madel | (01) After market harness/shield/tether added, not |
| 28. Child Safety Seat Make/Model | 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 |
| tearr and makermodel tepacity). | (09) Unknown if harness/shield/tether |
| (000) Habania — abate - 4-1 | added or used |
| (998) Unknown make/model | 1 2 |
| (999) Unknown if child safety seat used | Designed with Harness/Shield/Tether |
| 29 Time of Child Safety Sant | (11) Harness/shield/tether not used |
| 29. Type of Child Safety Seet | (12) Harness/shield/tether used |
| (0) No child sefety seat | (19) Unknown if harness/shield/tether used |
| (1) Infant seat | 11.4 |
| (2) Toddler seat | Unknown If Designed with Harness/Shield/Tether |
| (3) Convertible seat (4) Booster seat | (21) Harness/shield/tether not used |
| (4) Booster seat (7) Other type child safety seat (specify): | (22) Harness/shield/tether used |
| 177 Guidi type Gilliu selety seet (specily). | (29) Unknown if harness/shield/tether used |
| (8) Unknown child safety seat type | (99) Unknown if child safety seat used |
| (9) Unknown if child safety seat used | |

| INJURY CONSEQUENCES 38. Working Days Lost | |
|---|----------|
| Code the number of days | |
| 34. Injury Severity (P. lice Rating) —— (up thr. ugh 60) that the occupant | |
| (0) O—No injury lost from work due to the accident | i i |
| (1) C-Possible injury (00) No working days lost | 1 |
| (2) B – Nonincapacitating injury (61) 61 days or more | ł |
| (3) A – Incapacitating injury (62) Fatally injured | i |
| (4) K-Killed (97) Not working prior to accident | . |
| (5) U – Injury, severity unknown (99) Unknown | ł |
| (6) Died prior to accident | ł |
| (9) Unknown 39. Time to Death | |
| Code number of hours from tim | e of |
| 35. Treatment - Mortality - accident to time of death up through | 1 24 |
| (0) No treatment hours. If time of death is greater that | |
| (1) Fatal hours, code number of days. (Note: 1 d | Bry = |
| (2) Fatal - ruled disease 31, 2 days = 32, n days = 30 + n up thro | ough |
| 30 days = 60) | • |
| Nonfatal (00) Not fatal | |
| (3) Hospitalized (96) Fatal – ruled disease | 1 |
| (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 Duath | |
| Code the Occupant Injury from | ine |
| 36. Type of Medical Facility (for Initial Treatment) number(s) for the medically report | ted |
| (0) Not treated at a medical facility injury(s) which reportedly contributed | to |
| (1) Trauma center this occupant's death | |
| (1) frauma conten | |
| (2) Debar result (enach): | ` |
| (5) Medical cittle | |
| (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 stawed in the hospital (97) injured, details unknown | |
| (00) Not hospitalized (99) Unknown if injured | |
| (61) 61 days or more | |
| (99) Unknown | |
| (00) | |
| | |
| UPDATE CANDIDATE NO[] YES[] | |
| | |
| *** STOP HERE *** | |
| *** STOP HERE *** IF THERE ARE NO RECORDED INJURIES | |
| *** STOP HERE *** | |
| *** STOP HERE *** IF THERE ARE NO RECORDED INJURIES | |
| *** STOP HERE *** IF THERE ARE NO RECORDED INJURIES | |

U.S. Department of Transportation National Highway Truffic Safety Administration

OCCUPANT INJURY FORM

Form Approved
O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| Primary Sampling Unit Number ———— | 3. Vehicle Number | |
|-----------------------------------|--------------------|--|
| 2. Case Number – Stratum | 4. Occupant Number | |
| iN !UR | Y DATA | |

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial 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.

| | | | 0 | .I.C.—A.I.S | mila y | | Injury | | | | |
|-------------|-----------------------|----------------|-------------|--------------|-----------------|--------------------|------------------|-------------------------------|-------------------------------|-----------------------------|--|
| | Source of Injury Data | Body Region | Aspect | Lesion | System Organ | A.I.S. Severity | Injury Source | Source Confidence Level | Direct/ Indirect Injury | Occupant Area intrusion No. | |
| fat | 5. | 4 | 7 | A | 6 | 10 | 11 | 12 | 12 _ | 14 | |
| 2nd | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22_ | 23 | 24 | |
| 3rd | 25 | * _ | 27 | 24 | 29 | 30 | 31, | 32 | 33 . –, | 34 | |
| 4th | 36 | M | 57 | 24 | 39. | 40 | 41 | 42_ | 43 | 44 | |
| 8 th | ₩ | 4- | er | 4 | 4 | 50 | \$1 | ′ 52. | 59 | 54 | |
| e en | 66 | * | 67 , | ** | # | 80. | 81 | 62 | ez — | u | |
| Tth | 45. | ** | 67 , | 66. _ | . _ | 70 | 71 | n_ | 73. <u> </u> | 74 | |
| 3 th | % _ | % | 77 | 78 | 78 | \$0. | 4 1 | 22 | 83 | 84 | |
| Beb | ** | * | \$7 | ** | 88. | 16_ | 0 1 | 82. | 11 | 84 | |
| 16th | 45. | 96 | 47. | * | | 100 | 101 | 102 | 103 | 104 | |

HS Form 4338 (Rev. 1/90)

This report is surtherized by P.L. 89-843, Title 1, Section 166, 166, and 112. While you are not required to respond, your eceperation is needed to make the results of this data essection effort comprehensive, accurate, and timely.

(20) List side vanders glass melading are or more of the fadousing frame, window all, Apillar, S-pillar, or real side real DITENDA OF OCCUPANT'S VEHICLE SOURCE OF INJURY DATA (85) Hood (80) Chando hardware (a.g., outside murrer, extern (87) Other externer ourface or time (apacify) OFFICIAL (27) Other laft side object impacify! (1) Autopay records with or without hospital medical records Mill Unknown milener shiptis RIGHT SIDE (30) Right side interior surface excluding hardware or (2) Hespital medical recents other than emergency recor-EXTERIOR OF OTHER MOTOR VEHICLE teg. discharge summary) (In Emergency room records only (including same gravate (31) Rept sets hardward or arminal (32) Rept: A palar (33) Rept: B palar (34) Other rept: palar (seasoly) (70) Front bumper (71) Hood edge (72) Ower brett of vehicle (specify) rays or other lab reports) (4) Private physician, sold-in or omergency clinic UNOFFICIAL (7% Heed (SS) Regist sade wandow place or frame (SS) Regist sade wandow place makeling one or more of the fallowing frame, wandow sit, A-paler, 8-paler reof side (74) Hand ornament (75) Windshield roaf rail, Argillar (76) Side aurisce El Lay corondr repo El E.M.S. personnel (7) Market Color source ispectly (77) Sade Harrers (78) Other side protrymore (specify) (\$7) Other right sale object (apacity) **S** Police (79) Rear purface INJURY SOURCE DITERIOR (BD) Undercernage (40) Seet, back support (41) But reserver unbbang/buckle (42) But reserver S-piller standament point (II) Tires and wheels (82) Other extense of other motor valuate (specify) PRONT (01) We (43) Other restraint system corresponds (apacity) (C2) Unknown externer of other motor vehicle (02) Marror OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT (63) Surveyor (64) Smortly wheel new (64) Head restraint system 1861 Steering wheel hubrepoins 1861 Steering wheel (combination of codes (M and 05) **BA** Ground (S) Other valuate or object impactly) (45) Air bes 1461 Other estudents topocity being selector, transmission selector lever, other GEL Unknown vehicle or object (47) Interior lases objects MR Add-on oquipment (e.g., CB, topo deck, ar (48) Child salary seat ispectly NONCONTACT BUURY (SO) Fire in valuate (60) Laft instrument pend and below (81) Plying glass (82) Other nencertast injury source (specify) MAN Owner interner object (apecify) (10) Center rethrument panel and below (11) Right rethrument panel and below (11) Right rethrument panel and below (12) Store comparament door ROOF 87) Inguist unknown source (13) Knee bosser (14) Winderheld including one or more of the following dest header, A-piller, instrument pend; merror or steering steembly lidricer side only) (15) Winderheld including one or more of the following front header, A-piller instrument pend; or mirror female header, A-piller instrument pend; or mirror females and analysis. 1131 Kase bole (50) From header (61) Roor header (62) Real ish men rei INJURY SOURCE CONFIDENCE (63) Read right side red LEVEL SAL Real or semerable too (1) Carter ROOR (NO Other from object impacify) (2) Probabil (66) Plear including too pen (57) Roor or console mounted transmission later including (3) Promition (b) Unknown DIRECT/INDIRECT INJURY LEFT SEC me: Parting brain handle COR Light side interfer surface, excluding herduses or (80) Feet corners including parting britis (1) Direct seriest many REAR (21) Laft side hardware or armost (80) Besidgis (rear window) (81) Besidgis storage rack, door etc. (82) Other rear object impecify) Di Nensertet PRITY (22) Lat A piller (23) Lat B piller -(34) Other left piller impecify) (IS) Laft side window glass or frame OCCUPANT INJURY CLASSIFICATION Designant, separation SEPERATERSE 161 (M) Wise-hand OLC Body Region frame. Aspest of being Products and Galeria BERREER byered unknown team Coher man his proprie copy. EGREE BBBE w se state in giard Brun Total sporters, separation ERS 223 -0.00 3283 Abbroviated Injury Beats

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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 - | Light trucks (including truck based utility vehicles, minivans, standard vans, van based station wagons, van based buses, van derivatives, compact pickup trucks, standard pickup trucks and truck based station wagons) |
| 498 - | Other light truck |
| 701-797 - | Motored Cycles/ATCs/ATVs (including motorcycles, mopeds, minibikes, motorscooters and dirt bikes) (701 - 706 Motorcycles/Mopeds) (731 - 734 ATCs/ATVs) |
| 798 - | Other motored cycle |
| 801-897 - | Medium/heavy trucks (includes all trucks over 10,000 lbs. GVWR except some pickup type trucks under Body Type code "31" -Standard pickup) |
| 898 - | Other medium/heavy truck |
| 901-996 - 997 - | Buses Other bus |
| 998 - | Other vehicle (includes construction equipment, farm vehicles and go-karts) |
| 9 99 - | 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 motorhome

<u>Other</u>

- 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 | | _ | 6V 06 |
|----|-------------------------|----------------|----------|----------------------|--------------|
| | | <u>Subpage</u> | | | ubpage |
| 01 | American Motors | 1st | 30 | Volkswagen | (19) |
| 02 | Jeep (includes | (2) | 31 | Alfa Romeo | (20) |
| | Kaiser-Jeep) | | 32 | Audi | (20) |
| 03 | AM General | (2) | 33 | Austin/Austin Healey | |
| | | | 34 | BMW | (21) |
| 06 | Chrysler | (3) | 35 | Nissan/Datsun | (22) |
| 07 | Dodge | (4) | 36 | Fiat | (23) |
| 80 | Imperial | (6) | 37 | Honda | (24) |
| 09 | Plymouth | (6) | 38 | Isuzu | (25) |
| 10 | Eagle | (7) | 39 | Jaguar | (26) |
| 12 | Ford | (8) | 40 | Lancia | (26) |
| 13 | Lincoln | (ÌO) | 41 | Mazda | (27) |
| 14 | Mercury | (11) | 42 | Mercedes Benz | (28) |
| | , | () | 43 | MG | (29) |
| 18 | Buick | (12) | 44 | Peugeot | (29) |
| 19 | Cadillac | (13) | 45 | Porsche | (30) |
| 20 | Chevrolet | (14) | 46 | Renault | (30) |
| 21 | Oldsmobile | (16) | 47 | | (31) |
| 22 | Pontiac | (17) | 48 | Subaru | (31) |
| 23 | GMC | (18) | 49 | Toyota | (32) |
| | 4110 | (10) | 50 | Triumph | (33) |
| 29 | Other domestic: GV06 = | (19) | 51 | Volvo | (34) |
| 23 | 001 - Studebaker/Avanti | (13) | 52 | Mitsubishi | (35) |
| | 002 - Checker | | 53 | Suzuki | |
| | 398 - Other domestic | | 54 | Acura | (36) |
| | | | 55 | | (36) |
| | (i.e., DeSoto, | | 56 | Hyundai Merkur | (37) |
| | Hudson, Packard) | | | | (37) |
| | | | 57 50 | Yugo | (37) |
| | | | 58 | Infiniti | (38) |
| | | | 59 | Lexus | (38) |
| | | | 69 | Other foreign | (39) |

Motored Cycle/ATC/ATV (70-79)

| | | GV06 | ı | 6V06 |
|----|-----------------|----------------|------------------------|--------------|
| | | <u>Subpage</u> | <u>Su</u> | <u>bpage</u> |
| 70 | BSA | (39) | 78 All mopeds other | (39) |
| 71 | Ducati | (39) | than those above | ` ' |
| 72 | Harley-Davidson | (39) | 79 Other Motored Cycle | (39) |
| 73 | Kawasaki | (39) | • | ` ' |
| 74 | Moto-Guzzi | (39) | Also see: [34] - BMW | (21) |
| 75 | Norton | (39) | [37] - Honda | (24) |
| 76 | Yamaha | (39) | [50] - Triumph | (33) |
| | | ` , | [53] - Suzuki | (36) |

Medium/Heavy Trucks and Buses (80-89)

| 80 8 1 | Brockway Diamond Reo/Reo | GV06 Subpage (41) (41) | Also | see: | GV 26 Subpage |
|------------------|-----------------------------|---------------------------------|------|---------------|------------------|
| | | \ ' - / | [02] | AM Consus | (2) |
| 82 | Freightliner/White | (41) | [03] | AM General | (2) |
| 83 | FWD | (41) | [07] | Dodge | (5) |
| 84 | International | (40) | [12] | Ford | (9) |
| | Harvester/Navistar | | [20] | Chevrolet | (15) |
| 85 | Kenworth | (41) | [23] | GMC | (18) |
| 86 | Mack | (41) | [35] | Nissan/Datsun | (22) |
| 87 | Peterbilt | (41) | [36] | Fiat | (23) |
| 88 | Iveco/Magirus | (41) | [38] | Isuzu | (25) |
| 89 | Other: GV06 = | (41) | [42] | Mercedes Benz | (28) |
| | 801 - Autocar | | [51] | Volvo | (34) |
| | 802 - Auto-Union-DKW | | [52] | Mitsubishi | (35) |
| | 803 - Divco | | | | |
| | 804 - Western Star | | | | |
| | 805 - Oshkosh | | | | |
| | 898 - Other truck (e.g. | • | | | |
| | Ward LaFrance, | , | | | |
| | Marmon) | | | | |
| | iidi mon / | | | | |
| | 901 - Grumman (bus) | | | | |
| | 902 - NeoPlan (bus) | | | | |
| | 950 - Truck based | | | | |
| | motorhome | | | | |
| | 997 - Other bus | | | | |
| | | _ | | | |
| | 998 - Other vehicle (i.e | е., | | | |
| | farm vehicle, | | | | |
| | go-kart) | | | | |

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.

GV06

Variable Name: Vehicle Model (specify):

Element Values:

MAKE "01"

AMERICAN MOTORS*

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|---|---------|----------------------------|-----------|
| 001 | Rambler/American | Rogue, Scrambler, 220, 440 | all | 3 | 3 |
| 002 | Rebel/Matador | Bercelone, Classic Brougham, 550, 660, 770 Metador (-78), Marlin | ∙ll | 114" WB = 4 118" WB = 5 | 4 5 |
| 003 | Anbassador | Brougham, DPL, \$ST, DL, Limited, 880, 990 | øll | 5 | 5 |
| 004 | Pacer | Limited, DL | 75 - 80 | 2 | 2 |
| 005 | AMX | (2 seater only) | 68-70 | 2 | 2 |
| 006 | Javelin | \$\$T, AHX (71-74) | all | 2 | 2 - |
| 007 | Hornet/Cancord | Sportabout, Limited, DL, SC-360, SST, AMX (75-78) | all | 2 | 2 |
| 800 | Spirit/Grestin | Limited, DL, Cuntom, X, GT (83-on) AMX (79-on) | ell | 2 | 2 |
| 009 | Eagle | 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*

GV05

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

MAKE "02"

JEEP (Includes KAISER-JEEP)

| CODE | MODEL | INCLUDES | YEAR | \$1ZE | ST: FFNESS |
|------|-------------------|--|-------------------|----------------------------|------------|
| 401 | cu-2/cu-3/cu-4 | Military | -66 | 81= WB = 1 101= WB = 2 | 7** 7** |
| 402 | CJ-5/CJ-6/CJ-7 | Scrembler, Golden Eagle, Renegade, Laredo, Wrangler | 67-an | 84" WB = 1 104" WB = 3 | 7** |
| 403 | YJ-series | Wrangler | 86 · on | 1 | 7** |
| 404 | Wagoneer | Custom, Brougham Limited Grand Wagoneer | 71-on | 2 | 7** 7** |
| 405 | Cherokee | Wide Track, Chief, Commando, Jeepster | att | 2 | 7** |
| 410 | Pickup | J-10, J-20, Honcho | all | per WB | 7** |
| 411 | Comanche | Chief | & 6∙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 "03"

AM GENERAL

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--------------------------|---------------------------|------|------|-----------|
| 401 | Dispetcher | Post Office (Jeep) | all | 1 | 1 |
| 420 | Dispatcher | DJ-series-Post Office Van | •II | N/A | N/A |
| 498 | Other light truck | | • | . • | • |
| 884 | Hedium/Heavy | Military off-road | • | ٠ | • |
| 898 | Other medium/heavy truck | | • | • | • |
| 903 | Bus (rear engine) | Transit | •tl | N/A | N/A |
| 997 | Other bus | | all | N/A | N/A |
| 999 | Unknown | | • | • | • |

GV06 (3)

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

MAKE "06"

CHRYSLER

| CODE | MODEL | INCLUDES | YEAR | \$1ZE | 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) (excludes all FWD) | -78 79-81 82-89 | 6 5 | 6 |
| 14 | New Yorker/E Class/ Imperial (90-on) | FWD vehicles, Turbo | 63 -on | 3 | 9*** |
| 15 | Laser | Turbo, XE, XT | 84-86 | 2 | 9*** |
| 16 | Lebaron | Medallion, Salon (RWD) FWD except GTS or GTC Sport Coupe | 77-81 82-on | 4 2 | 4 0*** |
| 17 | Lebaron GTS/GTC | GT\$-Turbo GTC-Sport Coupe | 85 on 87 on | 3 2 | 9*** |
| 31 | TC (Maserati Sport) | Turbo Convertible | 88-on | • | 9*** |
| 35 | Conquest | TSI, Turbo | 87-on | • | 1 |
| 98 | Other passanger vehicle | | | 2 | 2 |
| 99 | Unknown | | | | • |

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

GVC 6 (4)

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

MAKE "07"

DODGE

| CODE | MODEL | INCLUDES | YEAR | \$12E | SILFFNESS |
|------|----------------------------------|---|--------------------|---------------------------------|-----------|
| 001 | Dart | Custom, Swinger, Sport, GT, Demon, Special, Special Edition, 170, 270, 340, 360 | 62·70 71·76 | 111" W8 = 4 108" W8 = 3 | 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 |
| 005 | Challenger | R/T, T/A, Rallye | 70-74 | 3 | 3 |
| 006 | Aspen | Custom, Special Edition, Police, R/T, Sport | 76 - 80 | 113H WB = 4 109H WB = 3 | 3 3 |
| 007 | Diplomat | Medallion, Salon, S | 77 · on | 4 | 4 |
| 008 | 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, \$port | 82-84 | 2 | 2 |
| 014 | 600 | ES, Turbo | 83 - 88 | 2 | 9** |
| 015 | Daytona | Turbo Z, Shelby Z, Pacifica, C/S Competition | 84 - on | 2 | 9* |
| 016 | Lancer | Pacifica, Turbo, ES, Shelby | 85 ∙ on | 3 | 9* |
| 017 | Shadou | ES, Turbo | 87-on | 2 | 9* |
| 018 | Dynasty | | 85 -on | | • |
| 019 | S pirit | ES, Shelby | 89 · on | 3 | 9* |
| 033 | Challenger | all imported | 78-83 | 2 | 2 |
| 034 | Colt (excludes Vista) | RS, Turbo, Custom, GTS, DL, E, Premier, Deluxe, Carousel, GT | 74 · 76 77 · 80 | 2 <93* WB = 1 >95* WB = 2 | 2 |
| | | | 8 0-on | 1 | 1 |
| 035 | Conquest | Turbo | 84-86 | 2 | 2 |
| 398 | Other passenger vehicle | • | • | • | • |

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

GV06 (5)

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

MAKE "07"

DODGE (Continued)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|---------------------------------|----------------------------------|-----------------|----------------------------|------------|
| 443 | 050, Colt P/U Ram 50 | | -82 83-on | per VB per VB | 8** |
| 444 | Vista | 4 x 4 | 84 - on | 3 | 7** |
| 445 | Raider | Sport | 8 | 1 | 8** |
| 471 | Ramcharger | | all | 3 | 8** |
| 472 | Caravan | Mini-Ram, 112 and 119 WB, SE | 8 4 · on | 112" W8 = 4 119" W8 = 5 | 700 700 |
| 473 | B, W-series pickup | Ram, Custom, Royal, Hiser | all | per WB | 8** |
| 474 | D-series vans | Sportsman, Royal, Maximagon, Ram | •Il | 7 | 7** |
| 475 | Van derivative | Kary Van | all | 7 | 7** |
| 477 | Dakota | | 87-on | 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 | | ali | N/A | N/A |
| 883 | Medium/Heavy: COE high entry | | alt | N/A | N/A |
| 898 | Other medium/heavy truck | | att | N/A | N/A |
| 901 | Medium bus | (not van besed) | •ll | 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.

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

\$1 ZE

YEAR

78-83

2 2

GV06 (6)

STIFFNESS

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

MAKE "08"

MODEL

CODE

033

Sapparo

IMPERIAL

INCLUDES

| 010 | Imperial | Leberon Mark Cross, Frank Sinetra editions | -76 81 -83 | 6 | 6 |
|------|--------------------------------|--|--------------------|----------------------------|-----------|
| 398 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | • | • | • |
| | MAKE <u>"09"</u> | PLYMOUTH | | | |
| CODE | MODEL | INCLUDES | YEAR | \$1ZE | 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 | <pre>Selvedere 1/II, GTX, Roadrunner (-74), Sebring, Sebring Plus, Superbird, Brougham</pre> | -74 | 4 | 4 |
| 003 | Fury | 1, II, III, Roadrunner (75), Salon, VIP, Sport, Salon, Suburban | -74 75·78 | 5 4 | 5 4 |
| 004 | Gran Fury | Sedan, Broughem, Custom Sport, Suburben | 75 - 81 82 - on | 5 4 | 5 4 |
| 005 | Barracuda | Formula, S, 340, AAR, 'Cuda Gran Coupe | 65 - 73 | 3 | 3 |
| 006 | Volare ¹ | Custom, Premier, Roadrunner (76-on), Police | 76-80 | 109" WB = 3 113" WB = 4 | 3 4 |
| 007 | Caravelle | Turbo, SE | 85 · on | 3 | 9*** |
| 008 | Horizon | TC-3, Miser, Turismo 2.2, Custom, SE, Duster (85-on) America, Expo | 78·on | 2 | 2 |
| 011 | Reliant (K) | SE, LE | 81 · on | 2 | 9*** |
| 013 | Scamp (car based pickup | GT, 2.2 | 82 - 84 | 2 | 2 |
| 017 | Sundance | Turbo | 87-on | 2 | 9*** |
| 019 | Acclaim | LX, LE | 89-on | 3 | 9*** |
| 031 | Cricket | | 71-72 | 2 | 2 |
| 032 | Arrow | Fire Arrow, GS, GT | 76-80 | 1 | 1 |

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

all imported

GV06 (7)

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

MAKE "09"

PLYMOUTH (Continued)

| COOLE | MODEL | INCLUDES | 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 - 86 | 2 | 2 |
| 036 | NOT USED IN THE 1990 DA | TA COLLECTION YEAR - CHANGED TO CODE 037 | | | |
| 037 | Laser | RS, Turbo | 89-on | 2 | 2 |
| 398 | Other passenger vehicle | • | • | • | • |
| 444 | Vista | 4 x 4 | 87-on | 3 | 7** |
| 471 | Trailduster | | all | 3 | 8** |
| 472 | Voyager (minivan) | æ | 84-on | 112" WB = 4 119" WB = 5 | 700 700 |
| 474 | Van-fullsize | Voyager, Sport, Premier | atl | 7 | 7** |
| 477 | Arrow pickup (foreign) | | att | per WB | 8** |
| 498 | Other light truck | | • | - | • |
| 999 | Unknown | | | • | • |

MAKE "10"

EAGLE

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFWESS |
|------|-------------------------|----------|---------|------|-----------|
| 034 | Summit | DL, LX | 89-on | 3 | 3 |
| 037 | Talon | | 90-on | 2 | 2 |
| 040 | Premier | LX, E\$ | 88 · on | 3 | 3 |
| 044 | Medallion | DL, LX | 88 · on | 3 | 3 |
| 398 | Other passanger vehicle | | 88 · on | - | • |
| 999 | Unknown | | • | • | • |

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

GV06 (8)

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

MAKE "12" FORD

| CODE | 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 II | Mach, Boss, Grande, Cobra | 65 - 73 | 3 | 3 |
| | | Ghia, SVO, GT, LX, Shelby | 74-on | 2 | 2 |
| 004 | Thunderbird (all sizes) | Landau, Heritage, Turbo coupe, | 72.76 | 5 | 6 |
| | | Elan, Fila, Sport, LX | 58-71, 77-79 | 4 | 4 3 |
| | | sc | 55-57, 80-88 89-on | 4 | , |
| 005 | LTD II | S, Squire, Brougham | 77-79 | 4 | 4 |
| 006 | LTD/Custom/Galaxie | XL, Landau, Ranch Wagon, | thru-77 | 5 | 5 |
| | (all sizes) | Country Squire, S, 500, | 78-82 | 4 | 4 |
| | | Brougham, XL GT | 83-on | 3 | 3 |
| 007 | Ranchero | Falcon/Fairlane based | thru-71 | 3 | 3 |
| | | Torino/LTD 11 besed | 72.79 | 4 | 4 |
| 800 | Maverick | Grabber | 70-77 | 3 | 3 |
| 009 | Pinto | Pony, 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 | Escort/EXP | L, GL, GLX, SS, GT | 81-on | 1 | 9*** |
| 015 | Tempo | L, GL, GLX, Sport, 4 x 4 | 84-on | 2 | 9*** |
| 016 | Crown Victoria | | 81 - on | 4 | 4 |
| 017 | Teurus | NT-5, L, GL, LX, SHO | 8 6+on | 3 | 3 |
| 018 | Probe | e. , LX, 6T | 88 · on | 2 | 2 |
| 031 | English Ford | Contine | | per WB | per W8 |
| 032 | fiesta | Sport, Ghia | 78-80 | 1 | 1 |
| 033 | Festiva | | 88 · on | 1 | 1 |
| 398 | Other passenger vehicle | Laser | ell | per WB | per VS |

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

GV06 (9)

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

MAKE "12"

FORD (Continued)

| CODE | HODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------------------|--|---------|----------------------------|-----------|
| 470 | Bronco II/Bronco (-77)/ Explorer | Eddie Bauer, XL, XLT, Explorer (90-on) | 83-on | 1 | 7** |
| 471 | Branco-fullsize | Eddie Bauer, Custom, XL, XLT | 78-on | 3 | 8** |
| 472 | Aerostar | XLT, Cargo Van | 86-on | 7 | 700 |
| 473 | F-series pickup | F-100 · F-350 | •11 | per WB | 8** |
| 474 | E-series vans | Econoline, Clubwagon, Chateau | all | 7 | 7** |
| 475 | Van derivative | | all | 7 | 7** |
| | | Parcel Van | | | |
| 477 | Ranger | Supercab, 4 x 4, STX | 82 · on | 108" WB = 3 114" WB = 4 | 8** |
| 478 | Courier | Imported pickup | •ll | 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 |
| 896 | Other medium/heevy truck | | • | • | • |
| 901 | Medium bus | B-series (not van besed) | 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.

G706

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

MAKE "13"

LINCOLN

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFHESS |
|------|-------------------------|---|--------------------------------|------------------|------------------|
| 001 | Continental/Town Car | Continental (-81), Town Car (82-on) | thru-79 80-on | 6 | 6 5 |
| 002 | Mark | I, II, III, IV, V, VI, VII, LSC, all Signeture/Designer Series | -70 71-80 80-83 84-on | 4 5 4 3 | 4 5 4 3 |
| 005 | Continental (82-on) | Att Signature/Designer Series | 82-87 88-on | 4 3 | 5 3 |
| 011 | Versailles | | 77·80 | 3 | 3 |
| 398 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | | | |

GV06 (11)

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

MAKE "14"

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 80-88 | 4 114" WB = 4 118" WB = 5 3 | 4 4 5 3 |
| | | | 89 · on | 4 | 4 |
| 006 | Marquis/Monterey | Marauder, X-100, Parklane, S-55, Custom, Brougham, Montclair, Grand Marquis | thru-78 79-82 | 121" WB = 5 124" WB = 6 4 | 5 6 4 |
| | | | 82·on | 106" WB = 3 114" WB = 4 | 3 4 |
| 800 | Comet | Caliente, 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 | Commet (68-70), GT, MX, Villager, Brougham | 68·73 72·76 | 3 1144 WB = 3 1184 WB = 4 | 3 3 4 |
| 011 | Monarch | Gh i a | 75-80 | 3 | 3 |
| 012 | Zephyr | GS, 2·7 | 78 - 83 | 3 | 3 |
| 013 | Lynx/LN-7 (82-83) | L, L\$, G\$, R\$, XR-3 | 81-on | 1 | 9*** |
| 015 | Topaz | L, LS, GS, 4 x 4 | 84 · on | 2 | 9*** |
| 017 | Sable | LS, GS | 86-on | 3 | 3 |
| 031 | Capri - foreign | Capri II 2 + 2 | 70-77 90 -an | 2 | 2 |
| 033 | Pantera | deTomeso | 72-74 | 2 | 2 |
| 036 | Tracer | L, GL | 88-on | 1 | 1 |
| 398 | Other pessenger vehicle | | • | | • |
| 999 | Unknown | | • | • | • |

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

G706 (12)

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

MAKE #18# BUICK

| CODE | MODEL | INCLUDES | YEAR | \$1 ZE | STIFFNES |
|------|-------------------------------|--|----------------|--------|----------|
| 001 | Special/Skylank | GS, GS-350, GS-400, GS-455, GS California, Sport Hagon, Custom | thru 72 | 4 | 4 |
| | LaCabas (Contunton) | Estate Wagon, Luxus, | -76 | 6 | 6 |
| 002 | LeSabre/Centurior/ Wildcat | Invicta, Custom, Limited T-Type | 77-85 86-on | 4 | 9*** |
| | m | Limited, Park Avenue | -76 | 6 | 6 |
| 03 | Electra, Electra 225 | Cimited, Fork Ave. | 77 · 84 | 5 | 5 |
| | | | 85 - on | 4 | 9** |
| | Bluton | \$-Type, T-Type | 63-65 | 4 | 4 |
| 005 | Riviera | \$ 17pc; 1 17pc | 66 -76 | 5 | 5 |
| | | | 77-85 | 4 | 4 |
| | | | 86 | 3 | y |
| 007 | Pagerier | Luxus, T-Type, FMD (82-on) | thru 77 | 4 | 4 |
| 007 | Century | Custom, Regal (72-77) | 78-81 | 3 | 3 9** |
| | | | 82-on | 3 | y. |
| 008 | Apolio/Skylerk* | Skylank (75)°, 8/R | 73-76 | 4 | 4 |
| 010 | Regal | Turbo, Luxus, Grand National, GNX, T-Type | 78 - 88 | 3 | 2 |
| | | S-Type, Roadhawk, T-Type, GT | 75-81 | 2 | 2 |
| 012 | ş kyh a wk | a-type, Rosensuk, 1-type, ut | 82 · on | 2 | 9* |
| | | (except 75), S/R, S, Limited, | 76-79 | 4 | 4 |
| 015 | Skylank (76-85) | Sport, T-Type | 80-85 | 3 | 91 |
| 018 | Somerset/Skylark** | Skylerk (86-on)**, Somerset | 85 · on | 3 | 9* |
| | | Regal, Custom, Limited, T-Type | | 3 | ٥- |
| 020 | Regal (FWD) | Limited | 88-on | • | • |
| 021 | Reatta | | 88 · on | 180 | 781 |
| 031 | Opel Kadett | | -75 | 2 | 2 |
| 032 | Opel Manta | 1900, Luxue, Rallye, Sports Coupe | -75 | 2 | 2 |
| 033 | Opel GT | | -75 | 2 | 2 |
| 034 | Opel Isuzu | Deluxe, Sport | 76-79 | 1 | 1 |
| | Other passenger vehicle | , , | • | • | • |
| 396 | utner passarger venicu | - | • | | |
| 999 | Unknown | | = | | |

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

GV06 (13)

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

MAKE "19"

CADILLAC

| CODE | MODEL | INCLUDES | YEAR | \$12E | STIFFNESS |
|------|---|---|-------------------------------|-------------|-----------------|
| 003 | Deville/Fleetwood (except Limousine) | Coupe de Ville, Sedan de Ville, Fleetwood Bougham, Fleetwood 60 Special, d'Elegance | -76 RND 77-on FND 85-on | 6 5 4 | 6 5 9*** |
| 004 | Limousine | Fleetwood 75, Formal DeVille-based | ∙ll | 6 | 6 |
| 005 | Eldorado | Biarritz, El-doro, Touring Coupe | -78 79-85 86-on | 6 4 3 | 6 4 9**** |
| 006 | Commercial Series | Ambulance/Hearse | att | 6 | 6 |
| 009 | Allante ¹ | | 87- on | 2 | 2 |
| 014 | Seville | Elégante | 76-85 86-on | 4 3 | 4 9*** |
| 016 | Cimerron | D'oro | 82-88 | 2 | Çesa |
| 398 | Other passenger vehicle | | • | _ | • |
| 999 | Unknown | | • | _ | • |

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

GV06 (14)

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

MAKE "20"

CHEVROLET

| NODEL | INCLUDES | YEAR | SIZE | STIFFNES |
|-----------------|--|---|---|-----------------|
| Chevelle/Mailbu | Classic, Concours, S-3, Laguna, Nomad, 300, Greenbriar, Estate, Deluxe, SS 396/454 | 64·77 78·83 | 3 | 3 |
| Impala/Caprice | Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman Brookwood, Kingswood | -76 77-on | 5 St. Wgn.≖6 4 | 5 6 4 |
| Corvette | Stingray | 53-62 63-on | 3 2 | 3 2 |
| Corvair | Monza, Corsa, 500, Yenko | 60 - 69 | W/A | N/A |
| El Camino | Royal Knight, SS | 59-60 64-77 78-on | 5 4 3 | 8** 8** |
| Nova (-79) | Chevy II, LN, LE, Concours SS-350/396, Rally | 62-79 | 4 | 4 |
| Camero | SS, RS, LT, Berlinette, 1ROC-Z, Z28 | 67-on | 3 | 3 |
| Monte Carlo | LS, SS, Aerocoupe, Landau | 70 - 77 78 - 88 | 4 3 | 3 |
| Vega | GT, Cosworth | 71 - 77 | 2 | 2 |
| Monza | Spyder, 2 + 2, Towne Coupe | 75·80 | 2 | 2 |
| Chevette | S, Scooter, CS | 76-87 | 2dr+1 4dr+2 | 1 2 |
| Citation | X-11, Citation II | 80.85 | 3 | 91 |
| Cavalier | cs, Rs, 224 | 82-on | 2 | 9 |
| _ | CS. Eurosport, VR | 82-on | 3 | 9 |
| | • | 88 · on | 3 | 9 |
| | - | 90-on | 3 | 9 |
| | | 85 · on | 1 | 1 |
| • | er unmart-buille umbicles | 85 · on | 2 | • |
| | CL, MANIE CONTROL VENIENCE | 85 · on | 1 | 1 |
| • | | 89-on | 1 | 1 |
| Geo Metro | 79 1 | 85 · on | 1 | 1 |
| Geo Storm | | • | • | |
| | Chevelle/Mailbu Impela/Caprice Corvette Corvair El Camino Nova (-79) Camero Monte Carlo Vega Monza Chevette Citation Cavalier Celebrity Beretta/Corsica Lumina Spectrum Nova/Geo Prizm Sprint/Geo Sprint Geo Metro Geo Storm | Chevelle/Malibu Classic, Concours, S-3, Laguna, Bonned, 300, Greenbriar, Estate, Deluxa, SS 396/454 Impala/Caprice Biacayne, Belair, Super Sport, Classic, Classic Brougham, Townsman Brooksood, Kingswood Corvette Stingrey Corvair Monza, Corsa, 500, Yenko El Camino Royal Knight, SS Nova (-79) Chevy II, LN, LE, Concours SS-350/396, Rally Camero SS, RS, LT, Berlinetta, IROC-2, 228 Monte Carlo LS, SS, Aerocoupe, Landau Vega GT, Cosworth Monza Spyder, 2 + 2, Towne Coupe Chevette S, Scooter, CS Citation X-11, Citation II Cavalier CS, RS, 224 Calebrity CS, Eurosport, VR Beretta/Corsica GT Lumina (GM-10 based) Spectrum Nova/Geo Prizm CL, MLRMI-built vehicles Sprint/Geo Sprint Geo Metro LSI Geo Storm | Chevelle/Mailbu Classic, Concours, s.3, Laguns, | Chevelle/Nalibu |

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.

GV06 (15)

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

MAKE "20"

CHEVROLET (CONTINUED)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--------------------------------|--|---------------|--------|-----------|
| 470 | S-10 Blazer | 8-10 p/u based (100.5* WB) | 83 · on | 2 | 4HD-7 |
| 471 | Fullsize Blazer | K-series, fullsized p/u based | 69-on | 3 | 8** |
| 472 | Astro Van | Minivan | 85-on | 7 | 700 |
| 473 | C-series pickup | C10-C30, Silverado K-series | •ll | per W8 | 8** |
| 474 | G-series van | Beauville, Chevy Van, Sport Van | all | 7 | 700 |
| 475 | Van derivative | Mi-cube, Parcel Van | all | 7 | 7** |
| 476 | Suburban | All models | all | 6 | 8** |
| 477 | \$-10 | | 82 -on | per WB | 8** |
| 478 | LUV | Imported pickup | all | 7 | 744 |
| 479 | Geo Tracker | LSI | 89-on | 2 | 8** |
| 480 | Lumina APV | | 90-on | per WB | TBO |
| 498 | Other light truck | | • | • | • |
| 881 | Medium/Heavy CBE | C50/60/65; M60/65; M70/80/90; J70/80/90; Bison 90; all other CBE | all | N/A | N/A |
| 882 | Medium/Heavy COE low entry | T60/65 - all other COE low entry | ∙ll | N/A | N/A |
| 883 | Hedium/Heavy COE high entry | Titan 90, all other COE high entry | ♦ll | N/A | N/A |
| 896 | Other medium/heavy truck | | all | N/A | N/A |
| 901 | Bus | 8-60 series | 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.

G'/06 (16)

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

MAKE "21"

OLDSMOBILE

| CODE | MODEL | INCLUDES | YEAR | SIZE | ST1 FFNESS |
|------|-------------------------|---|-------------------------|-------------|----------------|
| 001 | Cutlass (RWD-only) | Supreme, S, LS, Salon Brougham, Vista Cruiser, F85 (thru 72) Rallye 350, Hurst Olds, 442, Calais, Classic (88) | -77 78-88 | 4 3 | 4 3 |
| 002 | Delta 88 | Royele, Custom, Delta, Jetstar 88, Delmont 88, Starfire (thru 66), Custom Cruiser | -76 77-85 86-on | 6 4 4 | 6 4 9*** |
| 003 | Ninety-Eight | Regency, Luxury | -76 77-84 85-on | 6 5 4 | 6 5 4 |
| 005 | Toronado | XSR, Trofeo, Brougham Custom | 66-78 79-85 86-on | 5 4 3 | 5 4 3 |
| 006 | Commercial Series | Ambulance/Hearse | oll | 6 | 6 |
| 012 | Starfire | SX, GT | 75·80 | 2 | 2 |
| 015 | Omega | X-body type | RND 75-79 FND 80-85 | 4 3 | 4 9 |
| 016 | Firenza | s, LS, SX, Cruiser, GT | 82-88 | 2 | 9*** |
| 017 | Ciera | Cutiass Ciera, Brougham, ES | 82-on | 3 | 9*** |
| 018 | Calais | GT, ES, 500 | 85 · on | 3 | 9*** |
| 020 | Cutlass (FWD) | Supreme | 88-on | 3 | 9*** |
| 398 | Other pessenger vehicle | | • | • | |
| 480 | Silhouette | | 90-an | per WB | TED |
| 999 | Unknown | | • | • | • |

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

GV06 (17)

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

MAKE "22"

PONTIAC

| 3000 | MODEL | INCLUDES | YEAR | \$1 ZE | STIFFNESS |
|-------------|-------------------------------------|--|--------------------------------|------------------|------------------|
| 0 01 | Lemans/Tempest (thru 79) | Safari, T-37, Luxury, Grand Sport, GTO (-73), GT-37, Sprint, Judge Grand AM (73-75) Grand Lemans | thru <i>77</i> 78-79 | 4 3 | 4 3 |
| 002 | Bonneville/Catalina/ Parisienne* | Brougham, Grand Safari, Safari, Grandville, 2+2 Executive, Starchief SE, SSE | -68 69-76 77-81 82-84 | 5 6 4 3 | 5 6 4 3 |
| | | * Parisienne | 87-on 83-84 | 4 | 4 |
| 005 | Fiero | 294, 296, GT, SE | 84 - 88 | 1 | 1 |
| 800 | Ventura | II, \$J, Sprint, GTO (74-on) Custom | 71-77 | 4 | 4 |
| 009 | Firebird/Trans AM | Esprit, Formula, GTA, Redbird, Yellowbird, Skybird, SE | 67-81 82-on | 3 2 | 3 2 |
| 010 | Grand Prix (RWD) | J, LJ, SJ, Brougham, 2+2 | 63·72 73·77 78·87 | 5 4 3 | 5 4 3 |
| 011 | Astre | Seferi, SJ, Custom | 75-77 | 2 | 2 |
| 012 | Sumbird (thru 80) | Seferi, Sport, Formula | 76-80 | 2 | 2 |
| 013 | T-1000/1000 | | 81-87 | 2dr-1 4dr-2 | 1 2 |
| 015 | Phoenix | u, si | 77 - 79 80 - 84 | 4 3 | 4 |
| 016 | J2000/2000/sunblind | Sumbird (85-on), LE, SE, GT, Convertible | 82-on | 2 | 9*** |
| 017 | 6000 | STE, SE, LE | 82-on | 3 | 9*** |
| 018 | Grand AM | SE, LE | 80 85-on | 3 3 | 3 9*** |
| 020 | Grand Prix (PMD) | SE, McLaren Turbo | 88 · on | 3 | 9*** |
| 031 | Lemens (86-on) | SE, Tempest (Canadian) | 88-on | 2 | 2 |
| 396 | Other passanger vehicle | | • | • | • |
| 480 | Trans Sport | | 90-on | per MB | 780 |
| 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 | \$1ZE | STIFFNESS |
|------|--------------------------------|---|---------------|--------|-----------|
| 007 | Caballero/Sprint | Sierra Hadre del Sur, SP | ·77 78·on | 3 | 8** |
| 398 | Other pessenger vehicle | | • | • | • |
| 470 | J i mmy | \$15 based (100.5* WB) | 83-on | 2 | 7** |
| 471 | Fullsize Jimmy | fullsize pickup besed | ●ll | 3 | 8** |
| 472 | Safari (Minivan) | | 8 6-on | 7 | 7** |
| 473 | C and K-series pickup | C15-35: K15-35 | all | per W8 | 8** |
| 474 | G-series van | Rally Van, Vandura | all | 7 | 7** |
| 475 | Van derivative | Hicube, parcel van, Value Van, Magna Van, P-series | all | 7 | 7** |
| 476 | Suburben | att models | all | 6 | 8** |
| 477 | \$15 | | 82-on | per WB | 8** |
| 498 | Other light truck | | • | • | • |
| 881 | Medium/Heavy CBE | W5000/6000/7000 series, Brigadier/General models | ell | N/A | N/A |
| 882 | Medium/Heavy COE | W6000/W7000, all other COE, low entry | att | W/A | N/A |
| 883 | Medium/Heavy COE high entry | Astro 95, all other COE, high entry | eti | N/A | N/A |
| 898 | Other medium/heavy truck | | ell | N/A | N/A |
| 901 | Bus | 86000 | att | N/A | N/A |
| 997 | Other bus | | oll | N/A | N/A |
| 999 | Unknown | | • | • | • |

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

MAKE "29" OTHER DOMESTIC MANUFACTURER

| CCDE | MODEL | INCLUDES | YEAR | \$1.2E | STIFFNESS |
|------|------------------------------------|--|---------------|--------|-----------|
| 001 | Studebaker/Avanti | Lank, Gran Turismo, Hawk, Cruiser, all associated subseries | thru-66 | per WB | = 81Ze |
| 002 | Checker | Merathon, 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 | | | |
| COD€ | MODEL | INCLLIDES | YEAR | \$1ZE | STIFFNESS |
| 031 | Karmann Ghia | | -74 | 1 | 1 |
| 035 | Beetle 1300/1500 | flat windshield, 94.5" w8 | -77 | 1 | 1 |
| 033 | Super Beetle | distinguished by curved windshield, 95.3" WB | 71-80 | 2 | 1 |
| 034 | 411/412 | Squareback/Fastback | 71-74 | 2 | 1 |
| 035 | Squareback/Fastback | Туре 3, 1600 | -74 | 1 | 1 |
| 036 | Rebbit | i, GTI, Sport, LS, Custom, DL, Deluxe | 75-84 | 1 | 1 |
| 037 | Dasher | | 74-81 | 2 | 2 |
| 038 | Scirocco | 16V | 75-an | 1 | 1 |
| 039 | The Thing (181) | | 73-75 | 1 | 1 |
| 040 | Jetta | GL, GL1 | 81-an | 2 | 2 |
| 041 | Quantum (82-86)/ Passet (90-on) | Synco | 82-on | 2 | 2 |
| 042 | Golf | Synco, GTI, Cabriolet, GT, GL | 55 -αn | 2 | 1 |
| 043 | Rabbit pickup | car/based pickup | 80-83 | 1 | 1 |
| 044 | Fax | | 87-an | 1 | 1 |
| 045 | Corrado | | 89-an | TEO | TBD |
| 398 | Other Imported auto | | • | • | • |
| 472 | Vanagory/Camper | Bus, Kombi, Van | all | 1 | 700 |
| 498 | Other light truck | | • | • | • |
| 999 | Unknown | | • | • | • |

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

| MAKE | "31" | ALFA ROMEO | | | |
|------------|-------------------------|---|----------------|--------|-----------|
| CODE | MODEL | INCLLIDES | YEAR | SIZE | STIFFNESS |
| 031 | Spider | All roadsters, Veloce, 1750/2000 roadsters | all | 1 | 1 |
| 032 | Sports Seden | All 4 door sedans; Milano (86), Giulis, Super, Berlins, Alfetta, 1750/2000 sedans | all | per VB | # \$1Ze |
| 033 | Sprint Veloce | All 2-door coupes; Alfette GT, 1750/2000 GTV, Sprint GT | ali | per VB | = Size |
| 034 | GTV-6 | | 81-an | † | 1 |
| 035 | 164 | | 89-on | TED | TBC |
| 398 | Other passenger vehicle | | • | | |
| 999 | Unknown | | • | • | • |
| MAKE | <u>"32"</u> | AUDI | | | |
| CODE | MODEL | INCLLIDES | YEAR | SIZE | STIFFNESS |
| 031 | Super 90 | | 20-22 | 2 | 2 |
| 032 | 100 | S, LS, GL Quattro (89-on) | 70-77 89-an | 3 3 | 3 |
| 033 | Fox | | 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 -an | TEID | TBD |
| 038 | V-8 Quettro | | 90-an | TRIC | TBD |
| 396 | Other passenger vehicle | | • | • | • |
| | | | | | |

999 Unknown

MAKE "33"

AUSTIN/AUSTIN HEALEY

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|-----------|------|------|-----------|
| 031 | Marine | a | ett | 2 | 2 |
| 032 | America | | ali | 1 | 1 |
| 033 | Healey Sprite | | all | 1 | 1 |
| 034 | Healy 3000 | Healy 100 | all | 1 | 1 |
| 035 | Mini | | all | 1 | 1 |
| 398 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | - | • | • |

MAKE <u>"34"</u>

BMW

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFMESS |
|-------|-------------------------|----------------------------------|-------------------|------|-----------|
| 031 | 1600, 200Z | Tii, 1800, 2000cs | -76 | 2 | 2 |
| 032 | Coupe | 2800CS, 3.0CS | 69 -76 | 3 | 3 |
| · 033 | Baveria Seden | 2500, 2800 | 69 ·74 | 3 | 3 |
| 034 | 3-series | 3181, 3201, 325e, 325es | 77-on | 2 | 2 |
| 035 | 5-series | 5241, 5281, 5301, 5331, 5351, TD | 75-on | 3 | 3 |
| 036 | 6-series | 630, 633, 635, cai | 77-on | 3 | 3 |
| 037 | 7-series | 7331, 7351, L7 | 78 · on | 3 | 3 |
| 396 | Other passenger vehicle | | • | • | • |

Motorcycles

701 0-50cc 702 51-124cc 703 125-349cc 704 350-449cc 705 450-749cc 706 750cc-over

999 Unknown

GV06 (22)

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

MAKE "35"

NISSAN/DATSUN

| CODE | MODEL | INCLUDES | YEAR | \$1 ZE | 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- <i>7</i> 3 78-81 | 2 | 2 1 |
| 037 | 610 | PL | 73-76 | 2 | 2 |
| 038 | 710 | PL | 74-77 | 2 | 2 |
| 039 | 810/Maxima | | 77-on | 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-on | 2 | 2 |
| 043 | Sentra | | 83·on | 1 | 1 |
| 044 | Pulsar | NX, EXA (86-on) | 83-on | 2 | 2 |
| 045 | Micra | | 87-on | 1 | 1 |
| 398 | Other pessenger vehicle | | • | • | • |
| 470 | Pathfinder | MPV, 4 x 4 | 86-on | - • | • |
| 472 | Van | XE, CXE | 88 · on | 1 | 7** |
| 477 | Datsun/Nissan Pickup | PL620, King Cab, Hardbody | 73 · on | per VB | 8** |
| 480 | Axxess | | 89-on | 3 | TBD |
| 498 | Other light truck | Patrol (1960) | • | • | • |
| 883 | Medium/Heavy COE high entry | | att | N/A | N/A |
| 898 | Other medium/heavy truck | | all | W/A | N/A |
| 999 | Unknown | | • | • | • |

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

GV06 (23)

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

MAKE "36" FIAT

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFHESS |
|------|--------------------------------|-------------------------|---------|------|-----------|
| 031 | 124 (Coupe/Sedan) | 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 |
| 396 | Other passenger vehicle | 600, 1100 | • | • | • |
| 882 | Medium/Heavy COE Low entry | | •II | N/A | N/A |
| 883 | Medium/Heavy COE high entry | | ∙li | N/A | N/A |
| 898 | Other medium/heavy truck | | eil | N/A | N/A |
| 999 | Unknown | | • | • | |

GV()6 (24)

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

MAKE "37"

HONDA (ACURA: See "54")

| CODE | HODEL | INCLUDES | YEAR | \$1 ZE | STIFFNESS |
|--|---|--|--------------------|-------------|-------------------|
| 031 | Civic/CRX | 1300, 1500, CVCC, DX CRX, S, Si, HF, 4WD Wagon | ell | 1 | 1 |
| 032 | Accord | LX, CVCC, SE-1, LX-1 | -81 82-86 87 | 1 2 3 | 1 9*** 9*** |
| 033 | Pretude | Si | 80 - 83 84 - on | 1 2 | 1 |
| 034 | 600 | Coupe, Sedan | all | 1 | 1 |
| 398 | Other passenger vehicle | all Honda's not listed above | att | per WB | = size |
| | Motorcycle | | | | |
| 701 702 703 704 705 706 | 0-50cc 51-124cc 125-349cc 350-449cc 450-749cc 750cc or greater | | | | |
| | All Terrain Cycles/Yehicle | • | | | |
| 731 732 733 734 | '0-50cc 51-124cc 125-249cc 350cc or greater Unknown | includes all ATCs/ATVs designed solely for off-road use. | | | |

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

GV06 (25)

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

MAKE "38"

ISUZU

| | MODEL | INCLUDES | YEAR | \$12E | STIFFNESS |
|------|--------------------------------|--------------|---------|-------|-----------|
| 031 | I-Nerk | S, RS, Turbo | 85 · on | 1 | 1 |
| 032 | Impulse | Turbo, RS | 84 - on | 2 | 2 |
| 033 | Stylus | | 90-on | 2 | 2 |
| 398 | Other passenger vehicle | | • | | • |
| 470 | Trooper II | Deluxe, LS | 84 - on | 2 | 7 |
| 477 | Płup (pickup) | 4 x 4 | ∍ll | 3 | 8** |
| 479 | Amigo | | 89-on | 2 | 8** |
| 498 | Other light truck | | • | | |
| 881 | Medium/Heevy - CBE | | ell | N/A | N/A |
| 882 | Medium/Heavy COE low entry | | •lt | N/A | N/A |
| 883 | Medium/Heevy COE high entry | | ali | N/A | H/A |
| 898 | Other medium/heevy truck | | ۵ll | N/A | W/A |
| 999- | Unknown | | • | • | • |

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

GV'06 (26)

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

MAKE "39"

JAGUAR

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|-----------------------------|-------|------|-----------|
| 031 | XJ-\$ Coupe | | 76-on | 3 | 3 |
| 032 | XJ6/12 Seden/Coupe | L, XJ, C, 340/420 Sedan | att | 3 | 3 |
| 033 | XXE | V12, Roadster, 120 2 + 2 | all | 2 3 | 3 3 |
| 398 | Other pessenger vehicle | | • | • | • |
| 999 | Unknown | | - | | • |
| | | | | | |
| 1 | MAKE "40" | LANCIA | | | |

| CODE | MODEL | INCLUDES | YEAR | \$1ZE | STIFFNESS |
|------|-------------------------|----------|------|-------|-----------|
| 031 | Beta Sedan - HPG | | -80 | 2 | 2 |
| 032 | Beta Coupe - Zagato | | -82 | 1 | 1 |
| 033 | Scorpion | | -78 | 1 | 1 |
| 398 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | | • | - |

MAKE "41" MAZDA

| CCDE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------------|-------------------------|-----------------------------|-------|--------|-----------|
| 031 | RX2 | | 72-74 | 2 | 2 |
| 035 | R03 | | 72-78 | 1 | 1 |
| œ3 | RX4 | | 74-78 | 2 | 2 |
| 034 | RX7 | s, as, asl, se | 79·an | 2 | 2 |
| 035 | 323/GLC/Protege | DX, Prot ege (90-an) | 77-an | 1 | 1 |
| 036 | Совто | | 76-78 | 2 | 2 |
| 037 | 626 | GT, CS, CSL, SE | 79-on | 2 | 2 |
| 038 | 808 | | 72-77 | 1 | 1 |
| 039 | Mizer | | 76 | 1 | 1 |
| 040 | R-100 | | ·72 | 1 | 1 |
| 341 | 616/618 | | ٠72 | 2 | 2 |
| X-2 | 1800 | | 77. | 2 | 2 |
| ¥3 | 929 | | 88-an | - | • |
| X 4 | MX-6 | Turbo | 86-on | 2 | 2 |
| ¥ 5 | Miata | | 90-an | 1 | 1 |
| 98 | Other passenger vehicle | | | • | - |
| 72 | MPV | | 89-an | 3 | 7** |
| 73 | Nevajo | | 91-an | 3 | 8** |
| | Mazda pickup | 8-2000, 82200, SE-5, LX, | all | per VB | 8** |
| 98 | Other light truck | | • | • | |
| 99 | Unknown | | • | • | |

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

MAKE "42" MERCEDES BENZ

(Check MINCLIDESM comments carefully to determine proper code.)

| CODE | MCDEL | INCLUDES | YEAR | SIZE | TIFFNESS |
|-------------|--|---|---------------|------|----------|
| 03 1 | 200/220/230/240/250/260/ 280/300 | Seden and 5 pessenger "C" only, SE, CD, D, SD, TD, CE, E. <u>DOES NOT</u> include <u>250 SE</u> (75 on), <u>300 SD</u> - see code CS7 | ali | 3 | 3 |
| 032 | 230/280 SL | 2 sester only | ell | 1 | 1 |
| 033 | 300/350/380/450/500 SL/ 560 SL | 2 seater only, 300/500 St. (90-on) | all | 2 | 2 |
| 034 | 350/380/420/450/560 SLC | | all | 4 | 4 |
| 035 | 280/300 SEL | το, το·τ, αοτ | •II | 4 | 4 |
| 036 | 380/420/450/500/560 SEL and 500/560 SEC | | all | 4 | 4 |
| 037 | 300 SE/380/450 SE | 280 \$, 280 \$E (75 on), 300 \$D Sedian | ell | 4 | 4 |
| 038 | 600, 6.9 Seden | Pul tman | all | 6 | 6 |
| 039 | 190 | D, TD, E, 2.3, 2.5, Turbo | all | 3 | 3 |
| 398 | Other pessenger vehicle | | • | • | • |
| 475 | Van derivative | Kurbeter | 82 ;an | N/A | N/A |
| 498 | Other light truck | | • | • | - |
| 851 | Medium/Heevy - CBE | | all | H/A | N/A |
| 882 | Medium/Heevy - COE low entry | | ali | N/A | N/A |
| 883 | Medium/Heavy - COE high entry | | ∙ll | N/A | N/A |
| 896 | Other medium/heavy | | ett | N/A | N/A |
| 901 | Medium bus | | all | N/A | N/A |
| 901 | Other bus | | ∎ll | N/A | N/A |
| 997 | Other bus | | • | • | • |
| 999 | Unknown | | • | • | - |

GV06 (29)

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

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

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|-------------|------|------|-----------|
| 031 | Midget | MKIII, 1500 | -79 | 1 | 1 |
| 032 | MGB | στ | -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 | Unknoun | | • | • | • |
| | | | | | |

MAKE "44" PEUGEOT

| CODE | MODEL | INCLUDES | YEAR | \$1ZE | STIFFNESS |
|------------|-------------------------|--|---------|-----------|--------------------|
| 031 | 304 | | 71-73 | 3 | 3 |
| 032 | 403 | | -67 | 3 | 3 |
| 033 | 404 | | -70 | 3 4-su | 3 4-sv |
| 034 | 504/505 | STI, STX, Turbo, \$, GL, GLS, Liberte, | 70 - on | 3 4-su | 3 4- s u |
| 035 | 604 | \$L, D | 77-84 | 3 | 3 |
| 036 | 405 | M1-16 | 89-on | 3 | 9*** |
| 398 | Other passenger vehicle | | • | • | • |
| | Motorcycle | | | | |
| 701 702 | 0-50cc 51-124cc | | | | |
| 999 | Unknown | | | | |

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

GV06 (30)

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

MAKE <u>"45"</u>

PORSCHE

| CODE | MODEL | INCLUDES | YEAR | SI ZE | STIFFHESS |
|------|-------------------------|------------------------------------|---------------|-------|-----------|
| 031 | 911 | L, S, E, T, SC, Carrera, Slopenose | all | 1 | 1 |
| 032 | 912 | E, T | -69 | 1 | 1 |
| 033 | 914 | s , 1.8, 2.0, 914/6 | 70-76 | 2 | 2 |
| 034 | 924 | Turbo, \$ | 77 · on | 1 | 1 |
| 035 | 928 | s | 78 · on | 2 | 2 |
| 036 | 930 | Turbo | 79 | 1 | 1 |
| 037 | 944 | Turbo, \$ | 83 ∙on | 1 | 1 |
| 398 | Other pessenger vehicle | Spyder, Speedster, 356 | • | • | - |
| 999 | Unknown | | • | • | • |

MAKE <u>"46"</u>

RENAULT

| CODE | MODEL | INCLUDES | YEAR | \$1 ZE | STIFFNESS |
|------------|-------------------------------------|---------------------------|-----------|--------|-----------|
| 031 | LeCar | 5 | 76-83 | 2 | 2 |
| 032 | Dauphine/10/R-8 Caravelle | all models | thru- 171 | 1 | 1 |
| 033 | 12 | R12L, R12TL | 72.77 | 2 | 2 |
| 034 | 15 | R15TL | 73-76 | 2 | 2 |
| 035 | 16 | R16 | 69-72 | 3 | 3 |
| 036 | 17 | R17, Gordini Coupe, R17TL | 73 - 80 | 2 | 2 |
| | r18f | Sportwagon | 81-on | 2 . | 2 |
| 037 038 | Fuego | TL, TS, GTL, GTS, Turbo | 82 - 85 | 2 | 2 |
| 039 | Alliance/Encore GTA, Convertible | L, DL, Limited, X-37, | 83 · on | 2 | 2 |
| 044 | Medallion | DL, LX | 87-only | 3 | 3 |
| 045 | Premier | | 87-only | 3 | 3 |
| 398 | Other passenger vehicle | | ٠. | • | • |
| 999 | Unknown | | • | • | • |

| MAKE | "47" | SAAB |
|------|------|------|
| | | |

| | | 4.4.5 | | | |
|------|-------------------------|---------------------|---------|-------|-------------|
| 000€ | MODEL | INCLUDES | YEAR | \$12E | ST ! FFNESS |
| 031 | 99/99E/900 | S, Turbo, Cabriolet | • l l | 2 | 2 |
| 032 | Somett | 11, 111, V-4 | 68 · 74 | 1 | 1 |
| 033 | 95/96/97 | | -73 | 2 | 2 |
| 034 | 9000 | S, Turbo | 85-an | 3 | 3 |
| 398 | Other passenger vehicle | Monte Carlo 850 | • | - | • |
| 999 | Unknown | | ٠ | - | |
| MAKE | <u>"48"</u> | SUBARU | | | |
| CCDE | MODEL | INCLUDES | YEAR | \$1ZE | STIFFNESS |
| | | | · | | |

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|----------------------------|---------------|--------|-----------|
| 031 | DL/FE/G/GF/GL/GLF/STD | 4 wheel drive, Turbo | 72·an | per WB | = size |
| 032 | Star | | 70-71 | 2 | 2 |
| 033 | 360 | | 69 -70 | 1 - | 1 |
| 034 | Legacy | | 89-an | 2 | 2 |
| 035 | XT Coupe | 44D Turbo, convertible, DL | 86-an | 2 | 2 |
| 036 | Justy | οι, α | 87-an | 1 | 1 |
| 043 | Brat | OL, GL | 78-an | 2 | 2 |
| 398 | Other passenger vehicle | | • | • | - |
| 999 | Unknown | | | | |

GV0= (32

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

MAKE "49" TOYOTA

| | | | | | |
|------|------------------------------------|--|--------------------|--------|----------------------|
| CODE | MODEL | INCLLIDES | YEAR | SIZE | STIFFNESS |
| 031 | Conans | Mark II, Custom, 1900, 2000, Deluxe | -82 | 2 | 2 |
| 025 | 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-an | 2 | 2 |
| 034 | 9.pra | 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, 440 Wagon | 80-an | 2 | 2 |
| 039 | Starlet | | 81-84 | 1 | 1 |
| 040 | Carry | LE, Deluxe | 83-an | 3 | 3 |
| 041 | ₩. -2 | | 85-an | 1 | 1 |
| 398 | Other passenger vehicle | 2000 GT Coupe (1960s) | | | |
| 471 | Landcruiser | | 76-an | 1 | 8** |
| 472 | Minivan (84-90)/ Previa (91-on) | LE, Cargo | 84-an | 1 | 700 |
| 473 | 4-Rursier | | 5 5-on | 3 | 8** |
| 477 | Pickup | SR-5, Extra Cab, Sport, LN44, Chinook, Wonder Wagon | 75-an | per VB | 8** |
| 498 | Other light truck | | • | • | - |
| 999 | Unknown | | • | • | - |

Applies to front and reer impacts. Use size value for side impacts.

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

GV06 (33)

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

MAKE <u>"50"</u>

TRIUMPH

| CODE | MODEL | INCLUDES | YEAR | SIZE | STI FFNESS |
|--|---|----------------------|-------|------|------------|
| 031 | Spitfire | I, II, III, IV, 1500 | -81 | 1 | 1 |
| 032 | GT·6 | HC3 | 67-73 | 1 | • |
| 033 | TR4 | TR2, TR3, TR4A | -68 | • | |
| 034 | TR6 | | 69·76 | , | • |
| 035 | TR7/8 | | 75·81 | • | • |
| 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 | | • | • | • |

GV06 (34)

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

MAKE "51"

VOLVO

| CODE | MODEL | INCLUDES | YEAR | \$1 ZE | STIFFNESS |
|------|----------------------------------|--------------------------|--------------------|--------|-----------|
| 031 | 122 | 1 | -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 | た ・ | 3 | 3 |
| 035 | 262/264/265 | GT. | 76. | • | - |
| 036 | 1800 | E, S, ES | -73 | 2 | 2 |
| 037 | P-544 | | | | |
| 038 | 760 780 | GLE, Turbo | 83 - on 87 - on | 5 3 | 3 3 |
| 039 | 740 | GLE, GT, Turbo | 85-on | 3 | 3 |
| 398 | Other pessenger vehicle | | | | |
| 881 | Medium/Heavy CBE | | all | N/A | N/A |
| 882 | Medium/Heavy COE low entry | | •l1 | H/A | H/A |
| 883 | · Medium/Heavy COE high entry | | ell | N/A | N/A |
| 898 | Other medium/heavy truck | | •11 | N/A | N/A |
| 901 | Medium bus | | all | N/A | N/A |
| 997 | Other bus | | •tl | M/A | N/A |
| 999 | Unknown | | | • | • |

GV06 (35)

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

MAKE <u>"52"</u>

MITSUBISHI

| CODE | NODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|---------------------------------|------------------------|----------------|------|-----------|
| 031 | Starion | 2 + 2, LE, Turbo | 83 - on | 2 | 5 |
| 032 | Tredia | L, LS, Turbo | 83-on | 2 | 2 |
| 033 | Cordia | L, Turbo | 83·on | 2 | 2 |
| 034 | Galant | ECS, Sigma | all | 3 | 3 |
| 035 | Mirage | L. Turbo | 66-on | 1 | 1 |
| 036 | Precis | | 87 · on | 1 | 1 |
| 037 | Eclipse | | 90-on | 2 | 2 |
| 398 | Other passenger vehicle | | • | - | - |
| 470 | Montera | Sport | 86-on | 1 | 8 |
| 472 | Minivan | LS | 86 - on | 1 | 7** |
| 477 | Pickup | Mighty Max, SPX, 4 x 4 | •ll | 3 | 8** |
| 496 | Other light truck | | • | - | • |
| 802 | Medium/Heevy COE low entry | FUSO FE | all | H/A | N/A |
| 882 | Medium/Heavy - COE Low entry | FUSO FE | •11 | N/A | N/A |
| 896 | Other medium/heevy truck | | • | • | • |
| 999 | Unknown | | • | - | • |

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

GV(6 (3€)

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

MAKE "53"

SUZUKI

| COOE | MODEL | INCLUDES | YEAR | SIZE | \$1 I FFHESS |
|------|-------------------------|--|---------------|------|--------------|
| 031 | SA3 10 | CLX | 86-on | 1 | 1 |
| 034 | Swift | GT+, GTX | 89-on | 1 | 1 |
| 398 | Other passenger vehicle | | • | • | • |
| | | | 85 -on | 1 | 8** |
| 470 | Samurai | Standard, Deluxe | 5 5 G. | · | |
| 471 | NOT USED IN THE 1990 DA | TA COLLECTION YEAR - CHANGED TO CODE 479 | | | |
| 479 | Sidekick | | 89-on | 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 Ierrain Cycles/Yeh | icles | | | |
| 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 | Integre | RS, LS | | 86-on | 2 | 9*** |
| 032 | Legend | · | | 86-on | 3 | 9*** |
| 396 | Other passenger vehicle | | | • | • | • |
| 999 | Unknown | | | • | • | - |

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

GV06 (37)

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

HYUNDAI

| CODE | MODEL | INCLUDES | YEAR | \$1 ZE | STIFFHESS |
|------|-------------------------|----------|---------|--------|-----------|
| 031 | Pony | | 84-on | 2 | 5 |
| 032 | Excel | GL, GLS | 84-on | 1 | 1 |
| 033 | Soneta | | 89 · on | TBD | TB0 |
| 396 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | • | - | • |
| 1 | MAKE <u>"56"</u> | MERKUR | | | |

| CODE | MODEL | | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-------------------------|-------|----------|---------|------|-----------|
| 031 | XXX4T1 | Turbo | | 85 · on | 3 | 3 |
| 032 | Scorpio | Turbo | | 87-on | 3 | 3 |
| 398 | Other passenger vehicle | | | • | • | • |
| 999 | Unknown | | | - | • | - |

MAKE <u>"57"</u>

YUGO

| | HODEL | INCLUDES | YEAR | \$12E | STIFFNESS |
|-----|-------------------------|----------------|---------|-------|-----------|
| 031 | GV | GVX, Cabriolet | 86 · on | 1 | 1 |
| 398 | Other passenger vehicle | | • | • | • |
| 999 | Unknown | | • | • | |

GV06 (33)

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

MAKE "58"

INFINITI

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|---------------------------|-------------------|---------------|--------|------------|
| 031 | M30 | | 90-an | 3 | 3 |
| 032 | 045 | | 90-on | 4 | 4 |
| 398 | Other passenger vehicle | | | • | - |
| 999 | Unknown | | • | • | - |
| CODE | MAKE <u>"59"</u> MODEL | LEXUS INCLUDES | YEAR | \$1 ZE | 5T1 FFNESS |
| 031 | ES-250 | | 9 0-on | 3 | 3 |
| 032 | L\$-400 | | 90-on | 4 | 4 |
| 398 | Other passenger vehicle | | • | - | • |
| 999 | Unknown | | | | |

MAKE <u>"69"</u>

OTHER IMPORTS

| CODE | MODEL | INCIDES | YEAR | SIZE | STIFFNESS |
|------|---------------------|-----------------------------------|------|--------|-----------|
| 031 | Aston Hartin | Lagonda, Vantage, Volante, Saloon | all | per WB | = size |
| 032 | Bricklin | | all | per W8 | = size |
| 033 | Citreon | | •il | per V8 | = size |
| 034 | Delorean | | •II | per WB | = size |
| 035 | Ferrari | | •il | per WB | = size |
| 036 | Hillman | | alt | per W8 | = size |
| 037 | Jensen | Mealy | ell | per WB | = size |
| 038 | Lamborghini | Countach 5000s, Jalpa | ∙ll | per WB | • size |
| 039 | Lotus | Europe, Esprit | all | per WB | = size |
| 040 | Maserati | 81 turbo | all | per VB | = size |
| 041 | Morris | Ninor | all | per WB | = size |
| 042 | Rolls Royce/Bentley | Cloud/shadow series | alt | per V8 | = size |
| 043 | Rover | | all | per VB | = size |
| 044 | Simca | | att | per WS | = size |
| 045 | Sunbeam | | all | per W9 | = size |
| 046 | TVR | | ali | per V9 | = size |
| 047 | Daihetsu | | att | per WB | - size |
| 048 | Desta | | alt | per VS | = size |
| 049 | Reliant | | all | per WB | = eize |
| 052 | Bertone | X/19 | att | per WS | = size |
| 053 | Lada | | all | per VB | - size |
| 054 | Proton | Sega | all | per VB | = size |
| 055 | Sterling | 8255/8255L | all | per US | = size |
| 398 | Other imported auto | Horgan, Singer | ell | per UB | = size |

(V06 (40)

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

Vehicle Classification: Motored Cycle/ATC/ATV

| Variable | Variable GV05 | | | | Variable GV06 | |
|------------------|---------------|-----|-----|------|---------------------|----------|
| Vehicle M | ake | | | Code | Vehicle Model | Code |
| | M C | AIC | ATV | | Motored Cycles | |
| BMW | X | | | 34 | 0-50cc | 701 |
| Honda | X | X | X | 37 | 51-124cc | 702 |
| Triumph | X | | | 50 | 125-349cc | 703 |
| Suzuki | X | X | X | 53 | 350-449cc | 704 |
| BSA | X | | | 70 | 450-749cc | 705 |
| Ducati | X | | | 71 | 750cc-or greater | 706 |
| Harley-Davidson | X | | | 72 | 3 , 3000 | |
| Kawasaki | X | X | X | 73 | All Terrain Cycles/ | Vehicles |
| Moto-Guzzi | X | | | 74 | 0-50cc | 731 |
| Norton | X | | | 75 | 51-124cc | 732 |
| Yamaha | X | X | X | 76 | 125-349cc | 733 |
| Moped other than | • | • | -, | . • | 350cc or greater | 734 |
| listed above | x | | | 78 | 30220 C. g. C. VO. | |
| Other motorized | - | | | . • | Unknown | 999 |
| cycle | X | X | X | 79 | 2 | |
| Unknown | | | | 99 | | |

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

MAKE <u>*84*</u>

INTERNATIONAL HARVESTER

| CODE | MCDEL | INCLUDES | YEAR | SIZE | ST1FFNESS |
|------|----------------------------------|---|------|--------|-----------|
| 471 | Scout | Scout II, Utility pickup, \$3-2, Roadstar, 800 series, Traveler, Terra Traveltop | eii | per VB | 8** |
| 472 | Pickup/Panel | R-100-500, 900A-1500C/D, 1010-1510 | all | per VS | 8** |
| 475 | Multistop Van | Metro RM, 120-160, MS 1210, MS 1510 | att | per WS | 7** |
| 476 | Travelall | 1010-1210, 100-200 | all | per WB | 800 |
| 498 | Other light truck | | • | • | • |
| 881 | Medium Heavy - CBE | Loadstar/Fleetstar, Paystar, CBE Transtar, 4200, \$-series Mixer | all | N/A | N/A |
| 882 | Nedium/Heavy - COE low entry | 00, VCD, DCD, 190-1950, Cargostar, LFM, 5370 | all | N/A | H/A |
| 883 | Hedium/Heavy - COE high entry | DCO, DCOT, UCO, VCOT, 405-series, COE Transtar, Unistar, Conco 7078, 9600 | ∎li | N/A | N/A |
| 898 | Other medium/heevy 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 | Motorhame | | all | N/A | N/A |
| 997 | Other bus | | all | N/A | N/A |
| 998 | Other vehicle | | | • | • |
| 999 | Unknown | | • | • | • |

Applies to frent and rear impacts. Use size value for side impacts.

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

Vehicle Classification: Medium/Heavy Trucks and Buses

| Variable GV05 Vehicle Make | | | Variable GV06 | | | |
|-------------------------------|--------|-----|---------------|---|------|--|
| | | | Code | Vehicle Model | Code | |
| | Iruck | Bus | _ | | | |
| AM General | × | × | 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 | |
| GM C | X | X | 23 | | | |
| Nissan/Datsun | X | | 35 | Bus - conventional front | 901 | |
| Fiat | X | | 36 | engine | | |
| Isuzu | X | | 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 | 399 | |
| Freightliner/White | X | | 82 | | | |
| FWD | X | | 83 | | | |
| International Har- | | | 84 | | | |
| vester/Navistar | X | 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 | | 6 | | Auto-Union-DKW | 802 | |
| must be 801-805, | 898, 9 | 01, | | Divco | 803 | |
| 902, 950, 997, or | 998, | ir- | | Western Star | 804 | |
| respective of Bod | | | | 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 1990 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 nontowed, 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: One required for every CDS applicable vehicle (GV07=01-49).

Partial Record: 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) Nontowed (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) Nontowed (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 (OA43=01-96).

(2) Nontowed (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

(OA43=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 Shif 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 | 1 o'clock | 08 | 8 o'clock |
| 02 | 2 o'clock | 09 | 9 o'clock |
| 03 | 3 o'clock | 10 | 10 o'clock |
| 04 | 4 o'clock | 11 | 11 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 Top
- 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 |
| C | Centerfront or rear | P | Center Section |
| R | Rightfront or rear | В | Rear Section |
| F | Side frontleft or right | Y | F+P |
| P | Side center sectionL or R | Z | P+B |
| В | Side rearleft or right | 9 | Unknown |
| Y | Side $(F + P)$ or end $(L + C)$ | | |
| 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

- A All
- H Top of frame to top
- E Everything below belt line
- G Belt line and above
- M Middle--top of frame to belt line or hood
- L Frame--top of frame, frame, bottom of frame (including undercarriage)
- W Below undercarriage level (wheel and tires only)
- 9 Unknown

Lateral - Top and Undercarriage Impacts

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

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

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

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

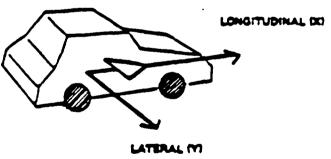
| 01 | One | 06 | Six |
|----|-------|----|---------|
| 02 | Two | 07 | Seven |
| 03 | Three | 08 | Eight |
| 04 | Four | 09 | Nine |
| 05 | Five | 99 | Unknown |

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 the vehicle.



بال محش

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 | 6,319 |
|---|---|--------|
| • | Total Number of Accident Event Records | 11,036 |
| • | Total Number of General Vehicle Records | 11,123 |
| • | Total Number of External Vehicle Records | 7,961 |
| • | Total Number of Internal Vehicle Records | 7,031 |
| • | Total Number of Occupant Assessment Records | 14,246 |
| • | Total Number of Occupant Injury Records | 33,202 |

APPENDIX F - PSU DEMOGRAPHIC DATA

- (1) PSU Codes
- (2) PSU Description
- (3) Population (1980 & 1970)
- (4) Land Area (Square Miles)
- (5) Population (by Age Group)
- (6) Means of Transportation to Work
- (7) Travel Time to Work

Demographics data on the 36 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 1980 and 1970 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" The figures pertaining to means of transportation and travel time to work are from Tables 118 and 17- of "1980 Census of Population, Chapter C, General Social and Economic Characteristics"

PRIMARY SAMPLING UNIT (PSU) CODES AND DESCRIPTION

| <u>VALUES</u> | <u>STRATA</u> | DESCRIPTION |
|-----------------|---------------|-------------------------------------|
| 03, 06, 41, 49, | 1 | Central City, one of the 60 largest |
| 72, 74, 79, 82 | | SMSAs |
| | | |
| 01, 05, 07, 08, | 2 | Suburban, one of the 17 - 60th |
| 09, 10, 12, 42, | | largest SMSAs or PSU within |
| 45, 46, 47, 50, | | 61st - 119th largest SMSAs either |
| 71, 73, 75, 77, | | containing or not containing a |
| 80, 81 | | central city |
| | | |
| 02, 04, 11, 13, | 3 | Other PSU |
| 43, 44, 48, 51, | | |
| 76, 78 | | |

POPULATION

| PSU | 1980 | 1970 | LAND AREA |
|-----|----------------|---------|--------------|
| P01 | 81974 | 83120 | 196 |
| P02 | 158158 | 141241 | 1131 |
| P03 | 2230936 | 2602012 | 70 |
| P04 | 346038 | 208470 | 641 |
| P05 | 643621 | 623799 | 486 |
| P06 | 1688210 | 1948609 | 136 |
| P07 | 5 55007 | 600035 | 184 |
| P08 | 1026147 | 1084899 | 672 |
| P09 | 737822 | 708245 | 939 |
| P10 | 1134552 | 1155269 | 479 |
| P11 | 264748 | 234103 | 710 |
| P12 | 450449 | 444341 | 642 |
| P13 | 157589 | 157426 | 507 |
| P41 | 274602 | 246463 | 55 |
| P42 | 1278916 | 932933 | 1921 |
| P43 | 301327 | 228453 | 854 |
| P44 | 137222 | 119893 | 1036 |
| P45 | 319694 | 276293 | 506 |
| P46 | 163687 | 126485 | 962 |
| P47 | 233318 | 167115 | 3551 |
| P48 | 153264 | 129841 | 1961 |
| P49 | 904078 | 844401 | 331 |
| P50 | 652312 | 482920 | 549 |
| P51 | 82636 | 65433 | 902 |
| P71 | 280326 | 231365 | 554 |
| P72 | 3005072 | 3366957 | 228 |
| P73 | 522965 | 546253 | 501 |
| P74 | 397038 | 389455 | 333 |
| P75 | 374194 | 234303 | 917 |
| P76 | 71348 | 56163 | 11219 |
| P77 | 531443 | 351667 | 9187 |
| P78 | 90554 | 60827 | 9994 |
| P79 | 4149319 | 3857381 | 3554 |
| P80 | 656380 | 558389 | 730 |
| P81 | 775903 | 625802 | 2044 |
| P82 | 493846 | 530831 | 8 4 |

POPULATION BY AGE GROUP (1980)

| PSU | UNDER 5 | 5 TO 9 | 10 TO 14 | 15 TO 19 | 20 TO 24 |
|-----|---------|--------|----------------|----------|---------------|
| P01 | 4573 | 5595 | 72 02 | 7248 | 4928 |
| P02 | 9614 | 10608 | 13108 | 14888 | 13896 |
| P03 | 176061 | 162127 | 1 75852 | 191895 | 193638 |
| P04 | 23282 | 24928 | 26352 | 25858 | 21440 |
| P05 | 36147 | 40254 | 5 0639 | 58616 | 54164 |
| P06 | 108202 | 111096 | 129413 | 151071 | 162426 |
| P07 | 33031 | 33837 | 42565 | 53771 | 51486 |
| P08 | 56811 | 62928 | 79096 | 88691 | 84006 |
| P09 | 52394 | 55806 | 67334 | 77012 | 79418 |
| P10 | 76436 | 83322 | 94431 | 107801 | 105657 |
| P11 | 17237 | 17092 | 18211 | 27622 | 43315 |
| P12 | 36083 | 37974 | 42064 | 45887 | 43695 |
| P13 | 12487 | 12442 | 13707 | 15842 | 13917 |
| P41 | 12640 | 13697 | 15 885 | 19184 | 22400 |
| P42 | 74971 | 82573 | 91879 | 109574 | 105160 |
| P43 | 18587 | 21096 | 23735 | 30171 | 34963 |
| P44 | 9528 | 10860 | 11962 | 12557 | 10781 |
| P45 | 19638 | 21495 | 23402 | 30179 | 35629 |
| P46 | 13728 | 14951 | 15000 | 19625 | 14322 |
| P47 | 18091 | 19397 | 19997 | 21109 | 18979 |
| P48 | 11031 | 11863 | 11695 | 16693 | 19505 |
| P49 | 67126 | 64957 | 66601 | 77354 | 102673 |
| P50 | 52445 | 56996 | 58803 | 61532 | 593 88 |
| P51 | 7285 | 6599 | 6391 | 7478 | 7952 |
| P71 | 20054 | 22762 | 28 095 | 29532 | 20669 |
| P72 | 232032 | 227899 | 234117 | 269087 | 293909 |
| P73 | 44476 | 43449 | 44971 | 51136 | 48625 |
| P74 | 31090 | 30024 | 32 046 | 37619 | 39329 |
| P75 | 26605 | 29683 | 34045 | 35002 | 3099 2 |
| P76 | 6828 | 6602 | 6643 | 6580 | 5386 |
| P77 | 38064 | 37592 | 39705 | 48693 | 56908 |
| P78 | 8137 | 8055 | 7764 | 8310 | 8922 |
| P79 | 318730 | 313823 | 340541 | 383468 | 394964 |
| P80 | 44035 | 45738 | 54244 | 59888 | 52735 |
| P81 | 54290 | 57344 | 6 7856 | 72148 | 68379 |
| P82 | 24235 | 21363 | 24094 | 35282 | 592 36 |
| | | | | | |

POPULATION BY AGE GROUP (1980) CONT.

| PSU | 2 5 TO 29 | 30 TO 44 | 45 TO 64 | 65 & OVER |
|-----|------------------|----------|---------------|-----------|
| P01 | 5440 | 16291 | 20450 | 10247 |
| P02 | 12562 | 31297 | 31734 | 20460 |
| P03 | 188055 | 412948 | 450816 | 279544 |
| P04 | 23272 | 61936 | 67161 | 71809 |
| P05 | 50196 | 122866 | 149860 | 80879 |
| P05 | 141715 | 284300 | 362617 | 237370 |
| P07 | 44118 | 94029 | 130848 | 71322 |
| P07 | 82498 | 186743 | 253737 | 131637 |
| P09 | 73073 | 168630 | 123642 | 40513 |
| P10 | 98403 | 213433 | 250914 | 104155 |
| P11 | 32428 | 53882 | 38108 | 16853 |
| P12 | 38327 | 86094 | 84490 | 35835 |
| P13 | 13173 | 27629 | 31529 | 16863 |
| P41 | 21982 | 47175 | 61859 | 59780 |
| P42 | 100142 | 245621 | 272829 | 196167 |
| P43 | 31017 | 66920 | 5256 9 | 22269 |
| P44 | 10567 | 26363 | 28273 | 16331 |
| P45 | 29591 | 61592 | 62411 | 35757 |
| P46 | 15147 | 39200 | 22526 | 9187 |
| P47 | 17809 | 43133 | 41678 | 23125 |
| P48 | 13350 | 26391 | 27350 | 15386 |
| P49 | 98293 | 174667 | 166432 | 85975 |
| P50 | 63125 | 156473 | 108002 | 35548 |
| P51 | 8248 | 15417 | 17165 | 6081 |
| P71 | 20428 | 62880 | 54992 | 20914 |
| P72 | 276526 | 539409 | 589592 | 342511 |
| P73 | 43619 | 93139 | 107742 | 45808 |
| P74 | 38235 | 74219 | 72993 | 41483 |
| P75 | 36570 | 92531 | 66143 | 22248 |
| P76 | 5407 | 12318 | 13857 | 7727 |
| P77 | 50089 | 97885 | 100313 | 62194 |
| P78 | 6931 | 15777 | 16696 | 9962 |
| P79 | 373337 | 836782 | 809613 | 378115 |
| P80 | 54114 | 147718 | 137064 | 60844 |
| P81 | 70720 | 182219 | 206946 | 53240 |
| P82 | 59790 | 95843 | 97839 | 76174 |

MEANS OF TRANSPORTATION TO WORK

| | | | | | | | | WORK |
|-----|----------------|---------------|--------|---------|-------------|---------|-------|------------------|
| | PRIVATE | TRUCK | MOTOR- | PUBLIC | BI- | | | ΤA |
| PSU | CAR | OR VAN | CYCLE | TRANSIT | CYCLE | WALKING | OTHER | HOME |
| P01 | 29419 | 3385 | 103 | 9188 | 139 | 1051 | 84 | 499 |
| P02 | 48344 | 7289 | 218 | 1305 | 236 | 5090 | 669 | 2007 |
| P03 | 21 2075 | 10761 | 440 | 483236 | 1894 | 72149 | 3702 | 799 7 |
| P04 | 94 786 | 13101 | 232 | 3329 | 475 | 3587 | 822 | 1712 |
| P05 | 240110 | 20784 | 545 | 19097 | 1080 | 15560 | 1191 | 5959 |
| P06 | 327866 | 19725 | 698 | 183432 | 2531 | 64005 | 2840 | 7294 |
| P07 | 176075 | 14386 | 320 | 31823 | 662 | 13537 | 1153 | 3358 |
| P08 | 317743 | 37189 | 360 | 51635 | 237 | 21941 | 1791 | 4730 |
| P09 | 281626 | 31894 | 1263 | 36697 | 1035 | 12007 | 1726 | 4286 |
| P10 | 394 306 | 46325 | 228 | 9937 | 993 | 11630 | 1661 | 3443 |
| P11 | 8 9936 | 11546 | 195 | 4848 | 1127 | 13732 | 673 | 2890 |
| P12 | 131665 | 24404 | 202 | 1781 | 137 | 4258 | 610 | 1502 |
| P13 | 45 826 | 92 09 | 176 | 542 | 158 | 2013 | 295 | 908 |
| P41 | 9 3207 | 12015 | 920 | 3782 | 1420 | 4853 | 1184 | 1950 |
| P42 | 463193 | 4 7749 | 3108 | 27127 | 4236 | 17699 | 3195 | 681 6 |
| P43 | 122422 | 1 5836 | 587 | 4044 | 582 | 5330 | 984 | 2409 |
| P44 | 45 568 | 11119 | 100 | 278 | 18 | 1845 | 430 | 820 |
| P45 | 107340 | 18351 | 405 | 4742 | 167 | 5045 | 538 | 1745 |
| P46 | 52235 | 12014 | 131 | 443 | 143 | 8624 | 726 | 1063 |
| P47 | 60716 | 19371 | 228 | 492 | 56 | 2182 | 476 | 845 |
| P48 | 42902 | 11316 | 177 | 497 | 183 | 2028 | 319 | 469 |
| P49 | 349802 | 46521 | 1468 | 37771 | 68 8 | 10846 | 2232 | 573 9 |
| P50 | 261114 | 55952 | 2304 | 3870 | 507 | 5390 | 1730 | 4186 |
| P51 | 30622 | 7849 | 404 | 224 | 95 | 778 | 275 | 765 |
| P71 | 110643 | 12811 | 330 | 1246 | 428 | 4732 | 544 | 273 7 |
| P72 | 661571 | 30691 | 492 | 385792 | 2114 | 93590 | 6067 | 1103 7 |
| P73 | 163295 | 21959 | 205 | 6506 | 261 | 8499 | 731 | 1709 |
| P74 | 141623 | 19250 | 520 | 11255 | 268 | 8050 | 660 | 3137 |
| P75 | 141541 | 27475 | 723 | 7909 | 537 | 4380 | 1025 | 3738 |
| P76 | 10852 | 8156 | 441 | 91 | 123 | 1531 | 541 | 403 |
| P77 | 151229 | 40899 | 3107 | 6691 | 3928 | 8733 | 1773 | 4549 |
| P78 | 19860 | 8098 | 851 | 583 | 554 | 2893 | 582 | 547 |
| P79 | 1449860 | 203033 | 19341 | 79241 | 14466 | 59510 | 10738 | 23643 |
| P80 | 217141 | 35731 | 2294 | 25794 | 1625 | 6851 | 3684 | 5634 |
| P81 | 280991 | 532 58 | 3236 | 22486 | 1136 | 8801 | 2355 | 7104 |
| P82 | 149979 | 17874 | 1595 | 47695 | 3120 | 19562 | 1742 | 5142 |

TRAVEL TIME TO WORK (IN MINUTES)

| | LESS | | | | 45 AND |
|-------|--------------|----------|---------------|----------------|---------------|
| PSU | THAN 10 | 10 TO 19 | 20 TO 29 | 30 TO 44 | OVER |
| F 3 0 | IIIAN 10 | | | | |
| P01 | 5267 | 13678 | 7901 | 6022 | 2020 |
| P02 | 13550 | 21932 | 12080 | 9153 | 6450 |
| P03 | 40190 | 101641 | 78442 | 18 0685 | 384253 |
| P04 | 28174 | 58912 | 38066 | 36213 | 32511 |
| P05 | 51334 | 102725 | 58015 | 50663 | 36077 |
| P06 | 48031 | 129282 | 116974 | 159984 | 145474 |
| P07 | 29314 | 66498 | 47815 | 53325 | 42254 |
| P08 | 54103 | 126240 | 92373 | 96883 | 60846 |
| P09 | 31050 | 76663 | 76133 | 98693 | 85650 |
| P10 | 62112 | 145299 | 114940 | 103940 | 38361 |
| P11 | 23121 | 49791 | 25439 | 15066 | 9382 |
| P12 | 22400 | 62152 | 46992 | 25037 | 6884 |
| P13 | 10908 | 26382 | 12891 | 5823 | 2453 |
| P41 | 18138 | 43635 | 24463 | 21497 | 9 960 |
| P42 | 60751 | 166303 | 135519 | 140383 | 64132 |
| P43 | 21024 | 56965 | 39 393 | 24927 | 79 6 6 |
| P44 | 11308 | 24299 | 12363 | 7593 | 4137 |
| P45 | 15980 | 48441 | 33451 | 28795 | 10971 |
| P46 | 11820 | 22085 | 16207 | 1 5992 | 8184 |
| P47 | 13745 | 24011 | 13698 | 16986 | 15254 |
| P48 | 9595 | 25125 | 10213 | 7315 | 5505 |
| P49 | 42477 | 132539 | 116744 | 111585 | 47360 |
| P50 | 43847 | 100670 | 78269 | 76310 | 32532 |
| P51 | 7182 | 22089 | 6155 | 2787 | 1869 |
| P71 | 24013 | 41526 | 32681 | 24727 | 9022 |
| P72 | 82020 | 227900 | 215965 | 329788 | 323755 |
| P73 | 27311 | 62180 | 48837 | 41782 | 21004 |
| P74 | 30774 | 74814 | 47999 | 21901 | 6811 |
| P75 | 20725 | 49990 | 46967 | 45334 | 20639 |
| P76 | 791 7 | 8491 | 2640 | 1660 | 2058 |
| P77 | 31065 | 75086 | 52118 | 40649 | 17205 |
| P78 | 10337 | 13705 | 3851 | 3281 | 1482 |
| P79 | 219906 | 559244 | 396746 | 402341 | 256578 |
| P80 | 36189 | 83431 | 53667 | 57732 | 62725 |
| P81 | 43948 | 104066 | 88513 | 89996 | 43242 |
| P82 | 29060 | 82550 | 61333 | 46972 | 21055 |
| | | | | | |