

**NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)**

**Analytical User's Manual**

**1986 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 1986 NASS file contains data from 50 PSU's for the first 9 months and 30 PSU's for the last 3 months. These PSU's are monitored by 4 Zone (Quality Control) Centers. These data are weighted to represent all police reported motor vehicle accidents occurring in the USA during the year.

The structure of a few variables has been changed between the 1985 and 1986 files. Consequently combining the 1986 file with ones from previous years requires extreme care.

The 1986 NASS file is available in two automated formats: a sequential data set, or a Statistical Analysis System (SAS) data set. Hardcopy 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 - 1986 Continuous Sampling 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:

Injury Coding Manual 1985 (Revised Edition)

CRASH3 User's Guide and Technical Manual (DOT-HS-805-732)

National Accident Sampling System Sample Design, Phases 2 and 3 (DOT-HS-805-273,274,275)

Collision Deformation Classification (SAE J224 MAR 84)

Truck Deformation Classification (SAE J1301)

The first document is available from the DOT/Transportation Systems Center (DTS-32), Kendall Square, Cambridge, Massachusetts 02142. The next two documents are available through the National Technical Information Service (NTIS), Springfield, Virginia 22161. The last two are available from the Society of Automotive Engineers (SAE), Warrendale, Pennsylvania 15096.

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 are a probability sample of all police-reported accidents in the U.S. A NASS 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 a motor vehicle 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 1279 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 1,279 PSU's were grouped into 75 strata based on geographic region, percent of urban population, per capita service station sales, and per capita road miles. The strata were formed to be about equal in population; however, five PSU's had total population approaching or exceeding that of some strata. These were identified as self-representing and included in the sample with certainty. From each of the remaining 70 strata, containing at least two PSU's, one PSU was selected randomly with probability proportional to its 1977 population. The 75 selected sample PSU's are the first stage in the selection of NASS sample accidents and the inverse of the probability of selecting the PSU is the first stage expansion factor for all accidents in that PSU.

The NASS PSU sample also was designed to be implemented in stages; that is, not all 75 PSU's became operational at once. Three probability subsamples of the selected PSU's which would provide valid estimates during a period of staged implementation

were defined. The stages provided for growth from an original 10 PSU's, to 30 PSU's, to 50 PSU's, and finally to 75 PSU's.

#### 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 which occurred within the sampled jurisdictions. On specified days of the week, the selected police jurisdictions are contacted and all accidents for which a police accident report has been filed since the last date that jurisdiction was contacted are listed. All qualifying accidents are listed, except in a few of the largest police jurisdictions. In these jurisdictions only accidents with either even or odd number police reports are listed.

While being listed, each accident is classified into a stratum based on accident severity. Low severity accidents, accidents resulting in only minor property damage and little or no injury, constitute a large majority of the accident population. Thus, a large proportion of a sample in which each accident had an equal chance of being selected would be low severity and would not be effective in providing detailed and accurate information to help mitigate serious accident consequences. Stratification by severity allows procedures to be used by which more serious accidents are selected for investigation.

Accidents are stratified based on the most severe injury level in the accident and the transported and towaway status for the less severe accidents. The strata are shown in Table 2.1. For example, an accident involving a light truck whose driver was killed and a motorcycle whose driver was uninjured would be classified as Stratum A.

Under this procedure each team is assigned a fixed sampling interval for each of the five strata. The number of accidents a team selects for investigation is governed by the number of accidents a team lists and the sampling intervals. Sampling intervals 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 a similar probability of being selected, regardless of their PSU. However, because the number of listed accidents varies greatly between PSU's and because of the operational restrictions of the current investigator assignments, equal probabilities within each stratum could not be achieved and the resulting sampling weights may vary by as much as a factor of three.

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. Within each stratum the weighted accidents are sorted by police jurisdiction, accident date and time. A systematic sample then is selected within each stratum. Except for the first contact day when a random number is used, the starting point for each contact day is equal to the carry over from the previous contact day, that is, the sum of the weights of the listed accidents from last selected accident to the end of the previous contact day.

Table 2.1  
1986 NASS Accident Strata

	Most Severe Police Reported Injury				
	Fatal	Serious Injury	Minor Injury, Transported	Not Injured, or Unknown	Nontransported
Nonmotorist or Vehicle Involvement					Towaway; Nontowaway
All Types	A	B	C	D	E

## Sampling Weights

Because the accidents selected in NASS 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 in the same accident stratum and police jurisdiction (Stage 3) 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. If restricted to an accident stratum, the sum is an estimate of the number of that type of accident which occurred 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 the 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 ratio 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 every six months. The PSU's are grouped into predetermined sets. Ratios are formed by dividing the total accidents in each accident stratum and in each set of PSU's by the estimated total. These 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 Factors as they were obtained using the National Inflation Factors. 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 Factors.

#### Special Considerations in the 1986 Sample

During 1986, a decision was made to change the scope and direction of the NASS. As part of the implementation of this decision a new sample of Primary Sampling Units was selected. Thirty of the fifty PSU's operating at the beginning of 1986 were selected as part of this new sample. Due to budget and contractual considerations, operations at most of the remaining twenty PSU's ceased during the month of September 1986. PSU's that were selected in the new sample and were not part of the current sample will begin operations in 1987.

The reduction in the number of operational PSU's affects the statistical validity of the sample of accidents. That is, because the NASS was run for a portion of the year with only part of the original PSU sample in place, the set of traffic accidents for which information was collected in 1986 is not a statistical sample of all traffic accidents for the entire year. The sample is "representative" for the months of January through August, when all 50 PSU's were in operation, but not for the months of September through December.

The National Inflation Factors (NIF's) will continue to represent the unbiased probability of selection of all the accidents selected in the sample. Hence, they are representative of the entire country for the months of January through August, when all 50 PSU's were in the sample and operational. For the months of September through December they are representative only of the portion of the country represented by the PSU's that remained in operation during this period of time.

The Ratio Inflation Factors (RIF's) are being used to allow users to produce national estimates for the entire year. This was possible because, although sampling and case investigation operations ceased in the closed down PSU's, accident counts were obtained for the last six months of 1986 in all PSU's, as they were for the first six months. Ratio adjustments were computed using these counts and the accidents selected in the operational PSU's during the months of September through December. The product of these adjustments and the NIF produces larger ratio inflation factors which "account" for the missing PSU's.

To compute the 1986 RIF's the selected accidents were divided into two sets: those accidents selected during the months of January through August; and, those selected during the September-December period, when PSU's were closed down. For the first part of the year RIF's were computed as described in the previous section, except that the numerator of the ratio adjustment was the sum of the counts from the first six months of 1986 and one-third of the counts from the July-December period. The denominator was the sum of the NIF's from all accidents selected in all PSU's during the months of January through August. For the September-December period a second ratio was computed. The numerator was the sum of the remaining two-thirds of the July-December counts from all PSU's and the denominator was the sum of the NIF's from accidents selected in the operational PSU's. Where possible, PSU's were kept in the same set for computing ratios for both periods.

Since a RIF is the product of a NIF and the appropriate ratio, the RIF's in the second part of the year reflect an adjustment for the missing PSU's and can be used to generate national estimates for the entire year. Keep in mind, however, that as with any sampling weights which include an adjustment for nonresponse, estimates derived using these RIF's will be biased, since a sample was not selected from part of the sampling unit.

## 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:

VARIABLE NAME AND LOCATION

DESCRIPTION

PSU INFLATION FACTOR  
(A47-54)

This eight place numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

NATIONAL INFLATION FACTOR  
(A55-62)

This eight place numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

RATIO INFLATION FACTOR  
(A63-70)

This eight place numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

MAXIMUM TREATMENT  
(A71)

This single place numeric value indicates the most intensive treatment given to any occupant, pedestrian or other non-motorist in the accident, using the following order of codes:

- 1 FATAL
- 3 HOSPITALIZATION
- 4 TREATED 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 variable in each occupant record and each pedestrian/non-motorist record in the accident.

MAXIMUM KNOWN A.I.S.  
(A72)

This single place numeric value indicates the single most severe injury level reported for any occupant, pedestrian or other non-motorist 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

VARIABLE NAME AND LOCATION

=====

DESCRIPTION

=====

ALCOHOL INVOLVED  
(A73)

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

- 1 YES
- 2 NO
- 9 UNKNOWN

This variable is derived by scanning the POLICE REPORTED ALCOHOL PRESENCE and ALCOHOL TEST RESULT variables on the driver & pedestrian/non-motorist form and the TRAFFIC VIOLATION CHARGED AGAINST THIS DRIVER on the driver form. The ALCOHOL INVOLVED codes are derived as follows:

(YES) 1 - If POLICE REPORTED ALCOHOL PRESENCE equals 1 (YES) or ALCOHOL TEST RESULT equals 01-49 (positive result) or either TRAFFIC VIOLATION CHARGED AGAINST THIS DRIVER equals 02.

(NO) 2 - If POLICE REPORTED ALCOHOL PRESENCE equals 0 (NO) and ALCOHOL TEST RESULT equals 00 (NONE) or 96 (NONE GIVEN) and both first and second TRAFFIC VIOLATION CHARGED AGAINST THIS DRIVER are not equal to 02 or 99

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

VARIABLE NAME AND LOCATION

DESCRIPTION

NUMBER OF SERIOUSLY INJURED  
PERSONS  
(A74-75)

This two place numeric value indicates the total number of fatally and other seriously injured individuals involved in the accident. It is derived by totaling the number of pedestrian/non-motorist and occupant records in which either the TREATMENT - MORTALITY value is coded "1" (Fatal) or the A.I.S. SEVERITY value is coded "3-6".

NUMBER OF INJURED PERSONS  
(A76-77)

This two place numeric value indicates the total number of injured individuals in the accident. It is derived by totaling the number of pedestrian/nonmotorist and occupant records in which either the TREATMENT-MORTALITY value is coded "1" (fatal) or the A.I.S. SEVERITY value is coded "1-7".

DAY OF WEEK  
(A78-79)

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
04	Wednesday		

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

MAXIMUM KNOWN PEDESTRIAN A.I.S.  
(P102)

This single place numeric value indicates the single most severe injury level reported for this pedestrian or other non-motorist in the accident. Order of coding is the same as for the accident variable MAXIMUM KNOWN A.I.S. (A72).

PEDESTRIAN I.S.S.  
(P103-104)

This two place numeric value provides an index score indicating the relative severity of overall injury to the individual pedestrian. It is derived by adding the squares of the highest A.I.S. SEVERITY entries in each of the three most severely injured body regions. For example:

A Pedestrian suffered severe 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.

VIN LENGTH  
(V203-204)

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

VARIABLE NAME AND LOCATION

DESCRIPTION

=====

VEHICLE SHORT FORM  
(V205)

=====

This one place numeric value indicates the use or nonuse of the "Vehicle Short Form". When no vehicle in an accident has suffered sufficient damage to require towing from the accident scene and there are no serious injuries e.g., TYPE OF CASE '2' (nontowaway) and Stratum 'E', investigators use an abbreviated version of the data collection form for the Vehicle level records. Its values are as follows:

- 0 NO [full-length form used]
- 1 YES [Vehicle Short Form used]

If the case includes a special study, a full length vehicle form is completed.

NUMBER SERIOUSLY INJURED  
IN THIS VEHICLE  
(V206-207)

This two place numeric value indicates the total number of fatally and other seriously injured occupants of the vehicle. It is derived by totaling the number of occupant records for the vehicle in which either the TREATMENT- MORTALITY value is coded "1" (fatal) or the A.I.S. SEVERITY value is coded "3-6".

NUMBER INJURED  
IN THIS VEHICLE  
(V208-209)

This two place numeric value indicates the total number of injured occupants of the vehicle. It is derived by totaling the number of occupant records for the vehicle in which either the TREATMENT-MORTALITY value is coded "1" (fatal) or the A.I.S SEVERITY value is coded "1-7".

VARIABLE NAME AND LOCATION =====	DESCRIPTION =====
WHEELBASE SHORT (V210-213)	These four place numeric values with one implied decimal indicate the shortest and longest number of inches between a passenger car's axles for a given make, model and model year. 9999 denotes unknown. These variables are derived from the VIN using the VINA program.
WHEELBASE LONG (V214-217)	NOTE: If a model has only one length value, it will be coded in the WHEELBASE SHORT variable and the WHEELBASE LONG variable will be coded 9999 (UNKNOWN).
FRONT/REAR WHEEL DRIVE (V218)	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
MAXIMUM TREATMENT IN THIS VEHICLE (V219)	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.  This single place numeric value indicates the most intensive treatment given to an occupant in this vehicle. Order of coding is the same as for the accident variable MAXIMUM TREATMENT (A71).

VARIABLE NAME AND LOCATION

DESCRIPTION

WEIGHT OF  
THE OTHER VEHICLE  
(V220-222)

This three place numeric value indicates the weight (in pounds) of the other vehicle, if the most severe impact is with another vehicle. Values are coded as follows:

001	LESS THAN 150 POUNDS
002 - 996	150-99,649 POUNDS
997	99,650 OR MORE
998	NOT APPLICABLE (MOST SEVERE IMPACT NOT WITH ANOTHER VEHICLE OR WITH VEHICLE HITTING ITSELF)
999	UNKNOWN

This variable is derived from the VEHICLE CURB WEIGHT as coded for the other vehicle.

BODY TYPE OF  
THE OTHER VEHICLE  
(V223-224)

This two place numeric value indicates the body type of the other vehicle if the most severe impact is with another vehicle. If not, 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 from the BODY TYPE as coded for the other vehicle.

MAXIMUM KNOWN  
A.I.S. in this  
Vehicle  
(V225)

This single place numeric value indicates the most severe injury level reported for an occupant in this vehicle. Order of codes is the same as for the accident variable MAXIMUM KNOWN AIS (A72).

MAXIMUM KNOWN  
OCCUPANT A.I.S.  
(O108)

This single place numeric value indicates the most severe injury level reported for this occupant. Order of codes is the same as for the accident variable MAXIMUM KNOWN A.I.S. (A72).

VARIABLE NAME AND LOCATION

=====

DESCRIPTION

=====

OCCUPANT I.S.S.  
(0109-110)

This two place numeric value provides an index score indicating the relative severity of overall injury to the individual vehicle occupant. It is derived identically to PEDESTRIAN I.S.S., using data from the Occupant level record.

SECTION 4

SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

1	PSU NUMBER	IDENTIFICATION
2		
3	CASE NUMBER	
4		
5		
6		
7	RECORD NUMBER	
8	////////////////////////////////////	
9	VERSION NUMBER	
10	////////////////////////////////////	
11	TYPE OF CASE	
12	MONTH OF ACCIDENT	
13		
14	////////////////////////////////////	
15		
16	YEAR OF ACCIDENT	
17		
18	////////////////////////////////////	
19	NUMBER OF VEHICLE FORMS SUBMITTED	
20		
21	NO. OF PEDESTRIAN & NON-OCCUPANT FORMS SUBMITTED	
22		
23	FIRST HARMFUL EVENT	
24		
25	RANKER OF COLLISION	
26	RELATION TO ROADWAY	
27	TIME OF DAY OF ACCIDENT	ACCIDENT CONDITIONS
28		
29		
30		
31	LIGHT CONDITIONS	
32	ATMOSPHERIC CONDITIONS	
33	RELATION TO JUNCTION	
34		
35	INTERCHANGE GEOMETRY	
36	SCHOOL ZONE	
37	SCHOOL BUS RELATED	
38	RIGHT OR LEFT TURN ON RED	
39	DRIVER LEVEL ENVIRONMENTAL DATA	
40		
41	LONGITUDINAL BARRIER	SPECIAL STUDIES
42	CRASH CUSHION SPEC. STUDY	
43	////////////////////////////////////	
44	////////////////////////////////////	
45	////////////////////////////////////	
46	////////////////////////////////////	

ANALYTICAL RECORD

47	PSU INFLATION FACTOR	INFLATION FACTORS
48		
49		
50		
51		
52		
53	NATIONAL INFLATION FACTOR	
54		
55		
56		
57	DAYD INFLATION FACTOR	
58		
59		
60		
61	MAXIMUM TREATMENT	REDUCED VEHICLES
62	MAXIMUM KNOWN AIS	
63	ALCOHOL INVOLVEMENT	
64	NUMBER OF SERIOUSLY INJURED PERSONS	
65		
66	NUMBER OF INJURED PERSONS	
67		
68	DAY OF WEEK OF ACCIDENT	
69		

1	PSU NUMBER		48	INJURY SOURCE		93	INJURY SEVERITY		
2			49	INJURY SOURCE		94	TIME TO DEATH		
3			50	DIR./INDIR, INJ.		95			
4	CASE NUMBER-STRATIFICATION		51	SOURCE OF DATA		96	TRAFFIC VIOLATION		
5			52	SOURCE OF DATA		97	ALCOHOL PRESENCE		
6			53	BODY REGION		98	ALCOHOL TEST RESULT		
7	RECORD NUMBER		54	ASPECT		100	PEDESTRIAN RELATED FACTORS		
8	////////////////////		55	LESION		101	RELATED FACTORS		
9	VERSION NUMBER		56	SYSTEM/ORGAN		102	MAXIMUM KNOWN AIS		
10	////////////////////		57	AIS SEVERITY		103	INJURY SEVERITY SCORE		
11	PEDESTRIAN OR NONMOTORIST'S NUMBER		58	INJURY SOURCE		104			
12			59	INJURY SOURCE					
13	PEDESTRIAN/NONMOTORIST TYPE		60	DIR./INDIR, INJ.					
14	PEDESTRIAN/NONMOTORIST AGE		61	SOURCE OF DATA					
15			62	SOURCE OF DATA					
16	PEDESTRIAN/NONMOTORIST'S SEX		63	BODY REGION					
17	PEDESTRIAN/NONMOTORIST'S HEIGHT		64	ASPECT					
18			65	LESION					
19	PEDESTRIAN/NONMOTORIST'S HEIGHT		66	SYSTEM/ORGAN					
20			67	AIS SEVERITY					
21			68	INJURY SOURCE					
22	PEDESTRIAN/NONMOTORIST'S LOCATION		69	INJURY SOURCE					
23			70	DIR./INDIR, INJ.					
24	DISTANCE FROM INTER.		71	SOURCE OF DATA					
25	PEDESTRIAN ACTIVITY		72	SOURCE OF DATA					
26			73	BODY REGION					
27	TREATMENT-MORTALITY		74	ASPECT					
28			75	LESION					
29	HOSPITAL STAY		76	SYSTEM/ORGAN					
30			77	AIS SEVERITY					
31	WORKING DAYS LOST		78	INJURY SOURCE					
32			79	INJURY SOURCE					
33	VEH. CONTACTED PED.		80	DIR./INDIR, INJ.					
34			81	SOURCE OF DATA					
35	BODY REGION		82	SOURCE OF DATA					
36	ASPECT		83	BODY REGION					
37	LESION		84	ASPECT					
38	SYSTEM/ORGAN		85	LESION					
39	AIS SEVERITY		86	SYSTEM/ORGAN					
40	INJURY SOURCE		87	AIS SEVERITY					
41	DIR./INDIR, INJ.		88	INJURY SOURCE					
42	SOURCE OF DATA		89	DIR./INDIR, INJ.					
43	BODY REGION		90	DIR./INDIR, INJ.					
44	ASPECT		91	SOURCE OF DATA					
45	LESION		92	SOURCE OF DATA					
46	SYSTEM/ORGAN								
47	AIS SEVERITY								

1	PSU NUMBER	IDENTIFICATION
2		
3	CASE NUMBER-STRATIFICATION	
4		
5		
6		
7	REF. NUMBER	
8	////////////////////////////////////	
9	VERSION NUMBER	
10	////////////////////////////////////	
11	VEHICLE NUMBER	
12		
13	NUMBER OF OCCUPANT FORMS	
14	SUBMITTED	
15	VEHICLE ROLE	
16	MODEX OF LEAVING SCENE	
17	HIT AND RUN INVOLVEMENT	
18	VEHICLE MODEL YEAR	EXTENSION ITEMS
19		
20	VEHICLE MAKE	
21		
22	VEHICLE MODEL	
23		
24	REGISTRATION OF VEHICLE	
25	VEHICLE IDENTIFICATION NUMBER	
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	////////////////////////////////////	
36	////////////////////////////////////	
37	////////////////////////////////////	
38	////////////////////////////////////	
39	////////////////////////////////////	
40	////////////////////////////////////	
41	////////////////////////////////////	
42	BODY TYPE	
43		
44	TOWED TRAILING UNIT	
45	SEATING CAPACITY/TRUCK VOCATION	
46		
47	AXLE	1ST TIRE
48	TIRE	
49	CONDITION	
50	AXLE	2ND TIRE
51	TIRE	
52	CONDITION	
53	AXLE	3RD TIRE

54	TIRE	2ND TIRE CONT.	EXTENSION ITEMS CONT.
55	CONDITION		
56	AXLE	3RD TIRE	
57	TIRE		
58	CONDITION		
59	LEFT OUTSIDE MIRROR	MEDIUM/HEAVY TRUCK & BUS DATA	
60	RIGHT OUTSIDE MIRROR		
61	OVERLIDE/UNDERIDE		
62	REAR TURN SIGNAL COLOR		
63	CAD CONFIGURATION		
64	NUMBER OF AXLES-POWER UNIT		
65	NUMBER OF AXLES-1ST TRAILER		
66	NUMBER OF AXLES-2ND TRAILER		
67	NUMBER OF AXLES-3RD TRAILER		
68	FIRST TRAILER LENGTH		
69	SECOND TRAILER LENGTH		
70	THIRD TRAILER LENGTH		
71	MAXIMUM OVERALL WIDTH	DEFORMATION CLASSIFICATION	
72			
73			
74	MAXIMUM OVERALL LENGTH		
75			
76			
77	TYPE OF BRAKES		
78	GROSS VEHICLE WEIGHT RATING (GVWR)		
79	VEHICLE SEQUENCE NUMBER		CRITICAL HIGHEST RETN. #
80	OBJECT CONTACTED		
81			
82	DIRECTION OF FORCE		
83			
84	DEFORMATION LOCATION	CRITICAL FURTH HIGHEST RETN. #	
85	LONG./LATERAL LOCATION		
86	VERT./LATERAL LOCATION		
87	TYPE OF DAMAGE DISTRIBUTION		
88	DEFORMATION EXTENT GUIDE		
89			
90	ACCIDENT SEQUENCE NUMBER		
91	VEHICLE SEQUENCE NUMBER		
92	OBJECT CONTACTED		
93			
94	DIRECTION OF FORCE		
95			
96	DEFORMATION LOCATION		
97	LONG./LATERAL LOCATION		

98	VERT./LATERAL LOCATION	HIGHEST DELTA "V"	C/D/T/C
99	TYPE OF DAMAGE DISTRIBUTION		
100	DEFORMATION	HIGHEST DELTA "V"	C/D/T/C
101	EXTENT GUIDE		
102	ACCIDENT SEQUENCE NUMBER	HIGHEST DELTA "V"	C/D/T/C
103	CRASH DAMAGE DATA		
104	FOR HIGHEST DELTA "V" - L	HIGHEST DELTA "V"	C/D/T/C
105			
106		HIGHEST DELTA "V"	C/D/T/C
107	CRASH DAMAGE DATA		
108	FOR HIGHEST DELTA "V" - C1	HIGHEST DELTA "V"	C/D/T/C
109			
110	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
111	FOR HIGHEST DELTA "V" - C2		
112		HIGHEST DELTA "V"	C/D/T/C
113	CRASH DAMAGE DATA		
114	FOR HIGHEST DELTA "V" - C3	HIGHEST DELTA "V"	C/D/T/C
115			
116	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
117	FOR HIGHEST DELTA "V" - C4		
118		HIGHEST DELTA "V"	C/D/T/C
119	CRASH DAMAGE DATA		
120	FOR HIGHEST DELTA "V" - C5	HIGHEST DELTA "V"	C/D/T/C
121			
122	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
123	FOR HIGHEST DELTA "V" - C6		
124		HIGHEST DELTA "V"	C/D/T/C
125	CRASH DAMAGE DATA		
126	FOR HIGHEST DELTA "V" - D	HIGHEST DELTA "V"	C/D/T/C
127			
128		HIGHEST DELTA "V"	C/D/T/C
129	CRASH DAMAGE		
130	DATA FOR	HIGHEST DELTA "V"	C/D/T/C
131	2ND HIGHEST		
132	DELTA "V" - L	HIGHEST DELTA "V"	C/D/T/C
133	CRASH DAMAGE DATA		
134	FOR 2ND HIGHEST	HIGHEST DELTA "V"	C/D/T/C
135	DELTA "V" - C1		
136	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
137	FOR 2ND HIGHEST		
138	DELTA "V" - C2	HIGHEST DELTA "V"	C/D/T/C
139	CRASH DAMAGE DATA		
140	FOR 2ND HIGHEST	HIGHEST DELTA "V"	C/D/T/C
141	DELTA "V" - C3		
142	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
143	FOR 2ND HIGHEST		
144	DELTA "V" - C4	HIGHEST DELTA "V"	C/D/T/C
145	CRASH DAMAGE DATA		
146	FOR 2ND HIGHEST	HIGHEST DELTA "V"	C/D/T/C
147	DELTA "V" - C5		
148	CRASH DAMAGE DATA	HIGHEST DELTA "V"	C/D/T/C
149	FOR 2ND HIGHEST		
150	DELTA "V" - C6	HIGHEST DELTA "V"	C/D/T/C
151	CRASH DAMAGE		
152	DATA FOR	HIGHEST DELTA "V"	C/D/T/C
153	2ND HIGHEST		
154	DELTA "V" - D	HIGHEST DELTA "V"	C/D/T/C
155	MORE THAN 2 C/D/T/C		

CRASH PROFILE

156	VEHICLE SPECIAL USE	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
157			
158	DOOR/METER READING	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
159			
160	PASSENGER COMPARTMENT INTEGRITY	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
161	INTRUDING COMPONENT		
162		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
163	MAG. OF INTRUSION		
164	INTRUDING COMPONENT	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
165			
166	MAG. OF INTRUSION	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
167	INTRUDING COMPONENT		
168		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
169	MAG. OF INTRUSION		
170	INTRUDING COMPONENT	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
171			
172	MAG. OF INTRUSION	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
173	STEERING COL. SEPARATION		
174	STEERING RIN DEFORMATION	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
175	FIRE OCCURRENCE		
176	MOST SEVERE IMPACT ROLE	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
177	ROLE OF OTHER CONTACTED PARTY		
178	ROLLOVER	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
179	JACKKNIFE		
180	HAZARDOUS CARGO	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
181	VEHICLE CURB WEIGHT		
182		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
183			
184	VEHICLE CARGO WEIGHT	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
185			
186		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
187	CARGO WEIGHT INFO SOURCE		
188	BASIS FOR TOTAL DELTA "V"	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
189	TOTAL DELTA "V"		
190		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
191	LONGITUDINAL COMPONENT OF DELTA "V"		
192		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
193			
194	LATERAL COMPONENT OF DELTA "V"	FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
195			
196		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
197	ENERGY ABSORPTION		
198		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
199			
200		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
201	TRAVEL SPEED		
202		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
203	VIN LENGTH		
204		FRONT OCCUPANT AREA INTRUSION	DRIVER AREA PASSENGER AREA
205	VEHICLE SHORT FORM		

206	NUMBER OF SERIOUSLY INJURED	REMOVED (CONTINUED)
207	IN THIS VEHICLE	
208	NUMBER INJURED IN THIS	
209	VEHICLE	
210		
211	WHEELBASE - SHORT	
212		
213		
214		
215	WHEELBASE - LONG	
216		
217		
218	FRONT/REAR WHEEL DRIVE	
219	MAXIMUM TREATMENT	
220	WEIGHT OF THE	
221	OTHER VEHICLE	
222		
223	BODY TYPE OF	
224	THE OTHER VEHICLE	
225	MAXIMUM KNOWN AIS	

1	PSU NUMBER	IDENTIFICATION
2		
3	CASE NUMBER-STRATIFICATION	
4		
5		
6		
7	RECORD NUMBER	
8	////////////////////	
9	VERSION NUMBER	
10	////////////////////	
11	VEHICLE NUMBER	
12		
13	NUMBER OF OCCUPANTS	
14	THIS MOTOR VEHICLE	
15	DRIVER PRESENCE IN VEHICLE	
16	MONTHS DRIVING EXPERIENCE	
17	THIS CLASS OF VEHICLE	
18	ESTIMATED MILEAGE	
19	THIS VEHICLE	
20		
21	TOTAL MILEAGE	
22	ALL VEHICLES	
23		
24	DRIVER EDUCATION	
25	TIME SINCE LAST DR. TRAIN	
26	FREQUENCY DRIVING ROAD	
27	TYPE OF OPERATION/CARRIER	
28	FEDERAL SAFETY REGULATED	
29	DRIVER'S CLASSIFICATION	
30	ACCIDENT	
31	TYPE	
32	ATTEMPTED	
33	AVOIDANCE MANEUVER	
34	DRIVER RELATED	
35	FACTOR	
36	1ST VIOLATION	
37	CHARGED	
38	2ND VIOLATION	
39	CHARGED	
40	ALCOHOL PRESENCE	
41	ALCOHOL TEST RESULTS	
42		
43	DRIVER LICENSE STATUS	
44	DRIVER LIC. TYPE COMPLIANCE	
45	DRIVER LIC. RESTRICTION	
46	PREVIOUS SPEEDING CONVICTION	
47	PREVIOUS OTHER HARMFUL MOVING	
48	PREVIOUS DWI CONVICTIONS	

49	PREVIOUS SUSPENSION/REVOC	CONF.
50	PREVIOUS RECORDED ACCIDENTS	
51	FEDERAL AID SYSTEM	ADMINISTRATIVE
52	CLASS TRAFFICWAY	
53	ROADWAY FUNCTION CLASS	
54		
55	NUMBER OF TRAVEL LANES	
56	LANE WIDTH	
57		
58		
59	MEDIAN TYPE	
60	MEDIAN WIDTH	
61		
62	ACCESS CONTROL	
63	TRAFFICWAY FLOW	
64	LEFT SHOULDER TYPE	
65	RIGHT SHOULDER TYPE	
66	ROADWAY ALIGNMENT	
67	CROSS SLOPE	
68	SUPERELEVATION	
69		
70		
71	DEGREE OF CURVATURE	
72		
73		
74	GRADE MEASUREMENT	
75		
76		
77	ROADWAY PROFILE	
78	ROADWAY SURFACE TYPE	
79	ROADWAY SURFACE CONDITION	
80	SPEED LIMIT	
81		
82	RESTR. OF ROADWAY	
83	TRAFFIC CONTROL DEVICE	
84		
85	TRAF. CTRL. FUNC	
86	DESIGNATED TRUCK SYSTEM	
87	ENVIRONMENTAL RELATED FACTORS	
88		

1	PSU NUMBER
2	
3	
4	CASE NUMBER-STRATIFICATION
5	
6	
7	RECORD NUMBER
8	////////////////////
9	VERSION NUMBER
10	////////////////////
11	VEHICLE NUMBER
12	
13	OCCUPANT NUMBER
14	
15	OCCUPANT'S AGE
16	
17	OCCUPANT'S SEX
18	OCCUPANT'S HEIGHT
19	
20	
21	OCCUPANT'S WEIGHT
22	
23	OCCUPANT'S ROLE
24	OCCUPANT'S SEAT POSITION
25	
26	EXTRAPMENT
27	EJECTION
28	EJECTION AREA
29	EJECTION MEDIUM
30	MEDIUM STATUS
31	TREATMENT - MORTALITY
32	HOSPITAL STAY
33	
34	WORKING DAYS LOST
35	
36	CHILD RESTRAINT MAKE/MODEL
37	
38	TYPE OF CHILD RESTRAINT
39	CHILD SEAT ORIENTATION
40	CHILD RESTRAINT MARKERS
41	MANUAL RESTRAINT SYSTEM AVAIL.
42	MANUAL RESTRAINT SYSTEM USE
43	AUTOMATIC RESTRAINT SYSTEM AVAIL.
44	AUTOMATIC RESTRAINT FUNCTION
45	BODY REGION
46	ASPECT
47	LESION

IDENTIFICATION

INTENDED

OCCUPANT INJURY CLASSIFICATION

48	SYSTEM/ORGAN
49	AIS SEVERITY
50	INJURY SOURCE
51	
52	DIR./INDIR, INJ.
53	SOURCE OF DATA
54	
55	BODY REGION
56	ASPECT
57	LESION
58	SYSTEM/ORGAN
59	AIS SEVERITY
60	INJURY SOURCE
61	
62	DIR./INDIR, INJ.
63	SOURCE OF DATA
64	
65	BODY REGION
66	ASPECT
67	LESION
68	SYSTEM/ORGAN
69	AIS SEVERITY
70	INJURY SOURCE
71	
72	DIR./INDIR, INJ.
73	SOURCE OF DATA
74	
75	BODY REGION
76	ASPECT
77	LESION
78	SYSTEM/ORGAN
79	AIS SEVERITY
80	INJURY SOURCE
81	
82	DIR./INDIR, INJ.
83	SOURCE OF DATA
84	
85	BODY REGION
86	ASPECT
87	LESION
88	SYSTEM/ORGAN
89	AIS SEVERITY
90	INJURY SOURCE
91	

1ST INJURY CONT.

2ND INJURY

3RD INJURY

4TH INJURY

5TH INJURY

OCCUPANT INJURY CLASSIFICATION (CONTINUED)

92	DIR./INDIR, INJ.
93	SOURCE OF DATA
94	
95	BODY REGION
96	ASPECT
97	LESION
98	SYSTEM/ORGAN
99	AIS SEVERITY
100	INJURY SOURCE
101	
102	DIR./INDIR, INJ.
103	SOURCE OF DATA
104	
105	INJURY SEVERITY
106	TIME TO DEATH
107	
108	MAXIMUM KNOWN AIS
109	INJURY SEVERITY SCORE
110	

1ST INJURY CONT.

4TH INJURY

OTHER

SERIES

AT INJURY CLASSIFICATION (CONTINUED)

## 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-hierarchical data base. The SAS data base for NASS consists of five individual data sets, one for each of the five NASS record levels, i.e. Accident, Pedestrian, Vehicle, Driver, and Occupant. Using modified relational database concepts, SAS allows the natural hierarchical 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 driver levels--through use of an appropriate set of SAS commands within the DATA step.

#### SAS Data Base Contents

The variable names in the NASS/SAS data base are from the data collection forms 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 Pedestrian/non-motorists and Driver Alcohol Test Results (ALCTEST) has been recoded to .B; the value of 96 ("not given") has been recoded .C; the value of 97 ("performed, results unknown") has been recoded .D; and the value 99 ("unknown") has been recoded .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;

- Numeric variables not present on the short vehicle form for nontowaway accidents and numeric variables not coded on the pedestrian, vehicle, driver and occupant forms for source documents only accidents have been recoded to .N (Not Collected);
- Character variables not present on the short vehicle form or not coded for source documents only accidents have been recoded to 8 or 98(Not Collected);
- Hour of Day (Time) is stored as a SAS time value, and has an output format of HHMM5.

PSU NUMBER (PSU), CASE NUMBER-STRATIFICATION (CASEID) and 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 Vehicle, Driver, and Occupant 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 1986 NASS. 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:

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
30	AAIS	NUM	2	78			MAXIMUM KNOWN AIS IN ACCIDENT
32	AINJSER	NUM	2	82			NUMBER OF SERIOUSLY INJURED PERSONS
33	AINJURED	NUM	2	84			TOTAL NUMBER OF INJURED PERSONS
31	ALCINV	NUM	2	80			ALCOHOL INVOLVED ACCIDENT
29	ATREAT	NUM	2	76			MAXIMUM TREATMENT IN ACCIDENT
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
34	DAYMEEK	NUM	2	10			DAY OF WEEK
23	ENVIRON	NUM	2	86			ENVIRONMENTAL DATA
19	GEOMETRY	NUM	2	52			INTERCHANGE GEOMETRY
10	HARMEV1	NUM	2	44			FIRST HARMFUL EVENT
16	LGTCOND	NUM	2	24			LIGHT CONDITIONS
11	MANCOLL	NUM	2	38			MANNER OF COLLISION (BASED ON F.H.E.)
8	MONTH	NUM	2	26			MONTH OF ACCIDENT
27	MATMGT	NUM	2	20			NATIONAL INFLATION FACTOR
13	PEDFORMS	NUM	6	64	9.3		NUMBER OF PED/NONMOTOR FORMS SUBMITTED
1	PSU	NUM	2	30			PSU NUMBER
26	PSUMGT	NUM	6	4			PSU INFLATION FACTOR
28	RATHGT	NUM	6	58	9.3		RATIO INFLATION FACTOR
5	RECN0	NUM	2	70			RECORD NUMBER
18	RELJUNC	NUM	2	14			RELATION TO JUNCTION
14	RELR0AD	NUM	2	42			RELATION TO ROADWAY (LOCATION OF F.H.E.)
21	SCHBUS	NUM	2	32			SCHOOL BUS-RELATED
20	SCHZONE	NUM	2	48			ACCIDENT OCCURRENCE IN SCHOOL ZONE
25	SSCC	NUM	2	46			CRASH CUSHION (S.S. INDICATOR)
24	SSLB	NUM	2	56			LONGITUDINAL BARRIER (S.S. INDICATOR)
4	STRATIF	CHAR	1	13			INITIAL STRATIFICATION
15	TIME	NUM	4	34			TIME OF ACCIDENT
22	TURNRED	NUM	2	50			TURN ON RED RELATED
6	TYPECASE	NUM	2	16			TYPE OF CASE
12	VEHFORMS	NUM	2	28			NUMBER OF VEHICLE FORMS SUBMITTED
7	VERSION	NUM	2	18			VERSION NUMBER
17	WEATHER	NUM	2	40			ATMOSPHERIC CONDITIONS
9	YEAR	NUM	2	22			YEAR OF ACCIDENT

HHMM5.

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
12	AGE	NUM	2	40			AGE OF PERSON
47	AIS1	NUM	2	86			AIS SEVERITY (FIRST)
48	AIS2	NUM	2	88			AIS SEVERITY (SECOND)
49	AIS3	NUM	2	90			AIS SEVERITY (THIRD)
50	AIS4	NUM	2	92			AIS SEVERITY (FOURTH)
51	AIS5	NUM	2	94			AIS SEVERITY (FIFTH)
52	AIS6	NUM	2	96			AIS SEVERITY (SIXTH)
75	ALCTEST	NUM	2	142			ALCOHOL TEST RESULT
29	ASPECT1	CHAR	1	68			ASPECT (FIRST)
30	ASPECT2	CHAR	1	69			ASPECT (SECOND)
31	ASPECT3	CHAR	1	70			ASPECT (THIRD)
32	ASPECT4	CHAR	1	71			ASPECT (FOURTH)
33	ASPECT5	CHAR	1	72			ASPECT (FIFTH)
34	ASPECT6	CHAR	1	73			ASPECT (SIXTH)
23	BODYREG1	CHAR	1	62			OIC BODY REGION (FIRST)
24	BODYREG2	CHAR	1	63			OIC BODY REGION (SECOND)
25	BODYREG3	CHAR	1	64			OIC BODY REGION (THIRD)
26	BODYREG4	CHAR	1	65			OIC BODY REGION (FOURTH)
27	BODYREG5	CHAR	1	66			OIC BODY REGION (FIFTH)
28	BODYREG6	CHAR	1	67			OIC BODY REGION (SIXTH)
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
22	CONTACT	NUM	2	60			VEHICLE WHICH CONTACTED PEDESTRIAN
72	DEATH	NUM	2	136			TIME TO DEATH
65	DIRINJ1	NUM	2	122			DIRECT/INDIRECT INJURY (FIRST)
66	DIRINJ2	NUM	2	124			DIRECT/INDIRECT INJURY (SECOND)
67	DIRINJ3	NUM	2	126			DIRECT/INDIRECT INJURY (THIRD)
68	DIRINJ4	NUM	2	128			DIRECT/INDIRECT INJURY (FOURTH)
69	DIRINJ5	NUM	2	130			DIRECT/INDIRECT INJURY (FIFTH)
70	DIRINJ6	NUM	2	132			DIRECT/INDIRECT INJURY (SIXTH)
17	DISTANCE	NUM	2	50			DISTANCE FROM INTERSECTION
74	DRINKING	NUM	2	140			ALCOHOL PRESENCE
14	HEIGHT	NUM	2	64			HEIGHT OF PERSON
20	HOSPSTAY	NUM	2	56			HOSPITAL STAY
71	INJSEV	NUM	2	134			INJURY SEVERITY (POLICE RATING)
53	INJSOU1	NUM	2	98			INJURY SOURCE (FIRST)
54	INJSOU2	NUM	2	100			INJURY SOURCE (SECOND)
55	INJSOU3	NUM	2	102			INJURY SOURCE (THIRD)
56	INJSOU4	NUM	2	104			INJURY SOURCE (FOURTH)
57	INJSOU5	NUM	2	106			INJURY SOURCE (FIFTH)
58	INJSOU6	NUM	2	108			INJURY SOURCE (SIXTH)
78	ISS	NUM	2	148			ISS
35	LESION1	CHAR	1	74			LESION (FIRST)
36	LESION2	CHAR	1	75			LESION (SECOND)
37	LESION3	CHAR	1	76			LESION (THIRD)
38	LESION4	CHAR	1	77			LESION (FOURTH)
39	LESION5	CHAR	1	78			LESION (FIFTH)
40	LESION6	CHAR	1	79			LESION (SIXTH)

77	MAIS	NUM	2	146		MAXIMUM KNOWN OCC/PED/NUM AIS
8	NATHQT	NUM	6	24		NATIONAL INFLATION FACTOR
18	PEDACT	NUM	2	52	9.3	PEDESTRIAN ACTIVITY
16	PEDLOC	NUM	2	48		PEDESTRIAN LOCATION
76	PEDRF	NUM	2	146		PEDESTRIAN RELATED FACTORS
10	PERNO	NUM	2	56		PEDESTRIAN/NONMOTORIST'S NUMBER
11	PERTYPE	NUM	2	38		PEDESTRIAN/NONMOTORIST'S TYPE
1	PSU	NUM	2	4		PSU NUMBER
7	PSUMGT	NUM	6	18	9.3	PSU INFLATION FACTOR
9	RATHQT	NUM	6	30		RATIO INFLATION FACTOR
5	RECHD	NUM	2	14		RECORD NUMBER
13	SEX	NUM	2	42		SEX OF PERSON
59	SODAT1	NUM	2	110		SOURCE OF DATA (FIRST)
60	SODAT2	NUM	2	112		SOURCE OF DATA (SECOND)
61	SODAT3	NUM	2	119		SOURCE OF DATA (THIRD)
62	SODAT4	NUM	2	116		SOURCE OF DATA (FOURTH)
63	SODAT5	NUM	2	118		SOURCE OF DATA (FIFTH)
64	SODAT6	NUM	2	120		SOURCE OF DATA (SIXTH)
4	STRAITF	CHAR	1	13		INITIAL STRATIFICATION
41	SYSORG1	CHAR	1	80		SYSTEM/ORGAN (FIRST)
42	SYSORG2	CHAR	1	81		SYSTEM/ORGAN (SECOND)
43	SYSORG3	CHAR	1	82		SYSTEM/ORGAN (THIRD)
44	SYSORG4	CHAR	1	83		SYSTEM/ORGAN (FOURTH)
45	SYSORG5	CHAR	1	84		SYSTEM/ORGAN (FIFTH)
46	SYSORG6	CHAR	1	85		SYSTEM/ORGAN (SIXTH)
19	TREATMNT	NUM	1	56		TREATMENT - MORTALITY
6	VERSION	NUM	2	16		VERSION NUMBER
73	VIOLCHG	NUM	2	138		TRAFFIC VIOLATION CHARGED - PED/NONMOTOR
15	HEIGHT	NUM	2	46		HEIGHT OF PERSON
21	WORKDAYS	NUM	2	58		WORKING DAYS LOST

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
67	ACCSEQ1	NUM	2	150			EVENT NUMBER IN ACCIDENT (HIGHEST)
68	ACCSEQ2	NUM	2	152			EVENT NUMBER IN ACCIDENT (2ND HIGHEST)
40	AXLESP	NUM	2	106			NUMBER OF AXLES (POWER UNIT)
41	AXLEST1	NUM	2	104			NUMBER OF AXLES (1ST TRAILER)
42	AXLEST2	NUM	2	108			NUMBER OF AXLES(2ND TRAILER)
43	AXLEST3	NUM	2	110			NUMBER OF AXLES(3RD TRAILER)
20	BODYTYPE	NUM	2	64			BODY TYPE
49	BRACKETY	NUM	2	122			TYPE OF BRAKE ACTUATION
39	CABCONF	NUM	2	102			CAB CONFIGURATION
106	CARGOMHT	NUM	3	246			VEHICLE CARGO HEIGHT
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
105	CURBHGT	NUM	3	243			VEHICLE CURB HEIGHT
85	DOCCDC	NUM	2	202			DOCUMENTATION MORE THAN TWO CDC/TDC
91	DOCCOMPNT	NUM	2	215			DRIVER OTHER (INTRUDING COMPONENT)
55	DOF1	NUM	2	134			DIRECTION OF FORCE (HIGHEST)
56	DOF2	NUM	2	136			DIRECTION OF FORCE(2ND HIGHEST)
92	DOINTRSM	NUM	2	217			DRIVER OTHER (MAGNITUDE OF INTRUSION)
89	DPCOMPNT	NUM	2	211			DRIVER PRIMARY (INTRUDING COMPONENT)
90	DPINTRSM	NUM	2	213			DRIVER PRIMARY (MAGNITUDE OF INTRUSION)
119	DRIVE	NUM	2	274			FRONT/REAR WHEEL DRIVE
108	DVBASIS	NUM	2	251			BASIS FOR TOTAL DELTA V (HIGHEST)
70	DVCL1	NUM	3	157			*CRASH* DAMAGE DATA MAX DELTA V - C1
71	DVCL2	NUM	3	160			*CRASH* DAMAGE DATA MAX DELTA V - C2
72	DVCL3	NUM	3	163			*CRASH* DAMAGE DATA MAX DELTA V - C3
73	DVCL4	NUM	3	166			*CRASH* DAMAGE DATA MAX DELTA V - C4
74	DVCL5	NUM	3	169			*CRASH* DAMAGE DATA MAX DELTA V - C5
75	DVCL6	NUM	3	172			*CRASH* DAMAGE DATA MAX DELTA V - C6
76	DVCL	NUM	3	175			*CRASH* DAMAGE DATA MAX DELTA V - L
69	DVL	NUM	3	154			LATERAL COMPONENT OF DELTA V
111	DVLAT	NUM	3	257			TOTAL DELTA V
110	DVLONG	NUM	2	255			ENERGY ABSORPTION
109	DVTOTAL	NUM	2	253			DEFORMATION EXTENT GUIDE(2ND HIGHEST)
112	ENERGY	NUM	3	259			DEFORMATION EXTENT GUIDE(HIGHEST)
65	EXTENT1	CHAR	2	146			DEFORMATION LOCATION(HIGHEST)
66	EXTENT2	CHAR	2	148			DEFORMATION LOCATION(2ND HIGHEST)
99	FIRE	NUM	2	231			GROSS VEHICLE HEIGHT RATING
57	GAD1	CHAR	1	138			HAZARDOUS CARGO
58	GAD2	CHAR	1	139			HIT & RUN INVOLVEMENT
50	GVHR	NUM	2	124			HAZARDOUS CARGO
104	HAZCARGO	NUM	2	241			HAZARDOUS CARGO
11	HITRUN	NUM	2	38			HIT & RUN INVOLVEMENT
100	IMPTYPE	NUM	2	233			TYPE OF MOST SEVERE IMPACT
103	JACKKNIFE	NUM	2	239			JACKKNIFE
35	LHRROR	NUM	2	94			TYPE OUTSIDE MIRROR (LEFT)
16	MAKE	NUM	2	48			VEHICLE MAKE
48	MAXLEN	NUM	2	120			MAXIMUM OVERALL LENGTH
47	MAXWIDTH	NUM	2	118			MAXIMUM OVERALL WIDTH





ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
44	ACCESS	NUM	2	107			ACCESS CONTROL
24	ACCTYPE	NUM	2	66			ACCIDENT TYPE
11	ALCTEST	NUM	2	38			ALCOHOL TEST RESULT
48	ALIGNMNT	NUM	2	115			ROADWAY ALIGNMENT
25	AVOIDMANT	NUM	2	68			ATTEMPTED AVOIDANCE MANUEVER
22	BMC\$REG	NUM	2	62			FEDERAL SAFETY REGULATED
3	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
2	CASENO	NUM	4	6			SEQUENCE NUMBER
38	CLAS1TRAF	NUM	3	10			CLASS TRAFFICWAY
51	CURVE	NUM	2	94			DEGREE OF CURVATURE
23	DRCLASS	NUM	3	122			DRIVER'S CLASSIFICATION
10	DRINKING	NUM	2	64			DRIVER PRESENCE
14	DRPRES	NUM	2	36			DRIVER PRESENCE IN VEHICLE
18	DRTRAIN	NUM	2	44			DRIVER EDUCATION
61	ENVRF	NUM	2	54			ENVIRONMENTAL RELATED FACTORS
37	FEDAID	NUM	2	144			FEDERAL AID SYSTEM
20	FREQDRIV	NUM	2	92			FREQUENCY DRIVING ROAD
52	GRADE	NUM	2	58			GRADE MEASUREMENT
40	LANES	NUM	3	125			NUMBER OF TRAVEL LANES
41	LANEMIDT	NUM	2	98			LANE WIDTH
19	LASTRAIN	NUM	3	100			TIME SINCE LAST DRIVER EDUCATION
31	LREST	NUM	2	56			LICENSE RESTRICTION
29	LSTATUS	NUM	2	80			LICENSE STATUS
30	LTYPCOMP	NUM	2	76			LICENSE TYPE COMPLIANCE
42	MEDIANT	NUM	2	103			MEDIAN TYPE
43	MEDIANM	NUM	2	105			MEDIAN WIDTH
17	MILETOT	NUM	3	51			TOTAL MILEAGE ALL VEHICLES
16	MILEVEH	NUM	3	48			ESTIMATED MILEAGE THIS VEHICLE
15	MONDRIVE	NUM	2	46			MONTHS DRIVING EXP. THIS CLASS VEHICLE
8	NATHGT	NUM	6	24			NATIONAL INFLATION FACTOR
13	OCCUPANTS	NUM	2	24		9.3	NUMBER OF OCCUPANTS THIS MOTOR VEHICLE
36	PREVACC	NUM	2	90			PREVIOUS ACCIDENTS
34	PREVDMI	NUM	2	86			PREVIOUS D.M.I. CONVICTIONS
33	PREVOTH	NUM	2	84			PREVIOUS MOVING VIOLATIONS CONVICTIONS
32	PREVSPD	NUM	2	82			PREVIOUS SPEEDING CONVICTIONS
35	PREVSUS	NUM	2	88			PREVIOUS SUSPENSIONS AND REVOCATIONS
53	PROFILE	NUM	2	128			ROADWAY PROFILE
7	PSU	NUM	2	4			PSU NUMBER
9	PSUMGT	NUM	6	18		9.3	PSU INFLATION FACTOR
5	RATHGT	NUM	6	30		9.3	RATIO INFLATION FACTOR
26	RECFAC	NUM	2	14			RECORD NUMBER
57	RESTRICT	NUM	2	70			DRIVER RELATED FACTORS
39	ROADFUNC	NUM	2	136			RESTRICTION OF ROADWAY
46	SHOULDLT	NUM	2	96			ROADWAY FUNCTION CLASS
47	SHOULDRT	NUM	2	111			LEFT SHOULDER TYPE
49	SLOPE	NUM	2	113			RIGHT SHOULDER TYPE
56	SPLIMIT	NUM	2	117			CROSS SLOPE
			2	154			SPEED LIMIT



ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
10	AGE	NUM	2	36			AGE OF PERSON
41	AIS1	NUM	2	74			AIS SEVERITY (FIRST)
42	AIS2	NUM	2	76			AIS SEVERITY (SECOND)
43	AIS3	NUM	2	78			AIS SEVERITY (THIRD)
44	AIS4	NUM	2	80			AIS SEVERITY (FOURTH)
45	AIS5	NUM	2	82			AIS SEVERITY (FIFTH)
46	AIS6	NUM	2	84			AIS SEVERITY (SIXTH)
23	ASPECT1	CHAR	1	56			ASPECT (FIRST)
24	ASPECT2	CHAR	1	57			ASPECT (SECOND)
25	ASPECT3	CHAR	1	58			ASPECT (THIRD)
26	ASPECT4	CHAR	1	59			ASPECT (FOURTH)
27	ASPECT5	CHAR	1	60			ASPECT (FIFTH)
28	ASPECT6	CHAR	1	61			ASPECT (SIXTH)
84	AUTAVAIL	NUM	2	160			PASSIVE RESTRAINT SYSTEM - AVAILABILITY
85	AUTFUNCT	NUM	2	162			PASSIVE RESTRAINT SYSTEM - FUNCTION
17	BODYREG1	CHAR	1	50			OIC BODY REGION (FIRST)
18	BODYREG2	CHAR	1	51			OIC BODY REGION (SECOND)
19	BODYREG3	CHAR	1	52			OIC BODY REGION (THIRD)
20	BODYREG4	CHAR	1	53			OIC BODY REGION (FOURTH)
21	BODYREG5	CHAR	1	54			OIC BODY REGION (FIFTH)
22	BODYREG6	CHAR	1	55			OIC BODY REGION (SIXTH)
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
66	DEATH	NUM	2	124			TIME TO DEATH
59	DIRINJ1	NUM	2	110			DIRECT/INDIRECT INJURY (FIRST)
60	DIRINJ2	NUM	2	112			DIRECT/INDIRECT INJURY (SECOND)
61	DIRINJ3	NUM	2	114			DIRECT/INDIRECT INJURY (THIRD)
62	DIRINJ4	NUM	2	116			DIRECT/INDIRECT INJURY (FOURTH)
63	DIRINJ5	NUM	2	118			DIRECT/INDIRECT INJURY (FIFTH)
64	DIRINJ6	NUM	2	120			DIRECT/INDIRECT INJURY (SIXTH)
75	EJECTAREA	NUM	2	142			EJECTION AREA
76	EJECTMED	NUM	2	144			EJECTION MEDIUM
74	EJECTION	NUM	2	140			EJECTION
73	ENTRAP	NUM	2	138			ENTRAPMENT
12	HEIGHT	NUM	2	40			HEIGHT OF PERSON
15	HOSPSTAY	NUM	2	46			HOSPITAL STAY
80	INFSEAT	NUM	2	152			INFANT SEAT ORIENTATION
81	INFUSAGE	NUM	2	154			INFANT RESTRAINT USAGE
65	INJSEV	NUM	2	122			INJURY SEVERITY (POLICE RATING)
47	INJSOU1	NUM	2	86			INJURY SOURCE (FIRST)
48	INJSOU2	NUM	2	88			INJURY SOURCE (SECOND)
49	INJSOU3	NUM	2	90			INJURY SOURCE (THIRD)
50	INJSOU4	NUM	2	92			INJURY SOURCE (FOURTH)
51	INJSOU5	NUM	2	94			INJURY SOURCE (FIFTH)
52	INJSOU6	NUM	2	96			INJURY SOURCE (SIXTH)
68	ISS	NUM	2	128			ISS
29	LESION1	CHAR	1	62			LESION (FIRST)
30	LESION2	CHAR	1	65			LESION (SECOND)



**APPENDIX A**

**DATA COLLECTION FORMS**



Accident Data

1. Primary Sampling Unit Number 1 2

2. Case Number-Stratification 3 4 5 6

3. Record Number 7

4. Transaction Code 8

5. Version Number 9

6. Investigator I.D. Number 10

IDENTIFICATION

7. Type of Case 11

\_\_\_ (1) Full data collection

\_\_\_ (2) Nontowaway (Stratum E)  
(Reduced data collection)

\_\_\_ (3) Source document only

8. Date (Month, Day, Year) 12 13 14 15 16 17

\_\_\_ 8 \_\_\_ 6

9. Blank (This variable is left blank so that numbering consistency can be maintained with the 1985 CSS ) X  
18

10. Number of Vehicle Forms Submitted 19 20

\_\_\_ Code the number of motor vehicles in transport for which a VEHICLE FORM was submitted.

11. Number of Pedestrian & Nonmotorist Forms Submitted. 21 22

\_\_\_ Code the number of pedestrians and/or non-motorists for which a PEDESTRIAN & NON-MOTORIST FORM was submitted.

12. First Harmful Event

Non-collision:

\_\_\_ (01) Fire or explosion

\_\_\_ (02) Immersion

\_\_\_ (03) Gas inhalation

\_\_\_ (04) Fell from vehicle

\_\_\_ (05) Injured in vehicle

\_\_\_ (06) Other noncollision (specify):

\_\_\_ (07) Overturn

\_\_\_ (08) Jackknife with intraunit damage

Collision With:

\_\_\_ (09) Pedestrian

\_\_\_ (10) Pedalcyclist

\_\_\_ (11) Railway train

\_\_\_ (12) Animal

\_\_\_ (13) Motor vehicle in transport (same roadway)

\_\_\_ (14) Motor vehicle in transport (other roadway)

\_\_\_ (15) Parked motor vehicle

\_\_\_ (16) Other type nonmotorist (specify):

\_\_\_ (17) Thrown or falling object

\_\_\_ (18) Boulder

\_\_\_ (19) Other object (not fixed) (specify):

Collision with Fixed Object:

\_\_\_ (20) Building

\_\_\_ (21) Impact attenuator/crash cushion

\_\_\_ (22) Bridge pier or abutment

\_\_\_ (23) Bridge parapet end

\_\_\_ (24) Bridge rail

\_\_\_ (25) Guardrail

\_\_\_ (26) Concrete traffic barrier

\_\_\_ (27) Median barrier

\_\_\_ (28) Other longitudinal barrier (specify):

\_\_\_ (29) Highway/Traffic sign post

\_\_\_ (30) Overhead sign support

\_\_\_ (31) Luminaire/Light support

\_\_\_ (32) Utility pole

\_\_\_ (33) Other post, pole, or support (specify):

\_\_\_ (34) Culvert

\_\_\_ (35) Curb

\_\_\_ (36) Ditch

\_\_\_ (37) Embankment-earth

\_\_\_ (38) Embankment-rock, stone or concrete

\_\_\_ (39) Fence (wooden, wire, chain link, etc.)

\_\_\_ (40) Wall (stone, rock, metal, etc.)

\_\_\_ (41) Fire hydrant

\_\_\_ (42) Shrubbery

\_\_\_ (43) Tree

\_\_\_ (44) Other fixed object (specify):

\_\_\_ (45) Pavement surface irregularity (pothole, grooved, grates)

\_\_\_ (99) Unknown

**13 Manner of Collision (Based on First Harmful Event)**  
 (0) Not collision with vehicle in transport  
 (1) Rear-end  
 (2) Head-on  
 (3) Rear-to-rear  
 (4) Angle  
 (5) Sideswipe, same direction  
 (6) Sideswipe, opposite direction  
 (9) Unknown 25

**14. Relation to Roadway (location of first harmful event)**  
 (1) On roadway  
 (2) On shoulder  
 (3) In median  
 (4) On roadside  
 (5) Outside right-of-way  
 (6) Off roadway - location unknown  
 (7) In parking lane  
 (8) Gore or channel island  
 (9) Unknown 26

**AMBIENT CONDITIONS**

**15. Time**  
 Code reported military time of accident.  
 (NOTE: midnight = 2400)  
 (9999) Unknown 27 28 29 30

**16 Light Conditions**  
 (1) Daylight  
 (2) Dark  
 (3) Dark, but lighted  
 (4) Dawn  
 (5) Dusk  
 (9) Unknown 31

**17. Atmospheric Conditions**  
 (1) No adverse atmosphere related driving conditions  
 (2) Rain  
 (3) Sleet  
 (4) Snow  
 (5) Fog  
 (6) Rain and fog  
 (7) Sleet and fog  
 (8) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify): \_\_\_\_\_  
 (9) Unknown 32

**ADMINISTRATIVE ITEMS**

**18. Relation to Junction**  
 (01) Non-junction  
 (02) Three leg intersection  
 (03) Four leg intersection  
 (04) More than four leg intersection  
 (05) Rotary or traffic circle  
 (06) Intersection related  
 (07) Channel  
 (08) Area of merge related  
 (09) Area of divergence related  
 (10) Entrance ramp  
 (11) Exit ramp  
 (12) Driveway, alley access related  
 (13) Railroad grade crossing related  
 (14) Crossover related  
 (99) Unknown 33 34

**19. Interchange Geometry**  
 (0) No interchange  
 (1) Full diamond  
 (2) Partial diamond  
 (3) Full cloverleaf  
 (4) Partial cloverleaf  
 (5) Trumpet  
 (6) Directional  
 (8) Other (specify): \_\_\_\_\_  
 (9) Unknown

**20. Accident Occurrence in School Zone**  
 (0) No  
 (1) Yes  
 (9) Unknown

**21. School Bus Related**  
 (0) No  
 (1) Yes

**22. Right or Left Turn on Red Related**  
 (0) No

**Right turn related**  
 (1) Yes - turn permitted  
 (2) Yes - turn prohibited

**Left turn related**  
 (3) Yes - turn permitted  
 (4) Yes - turn prohibited  
 (9) Unknown

**ENVIRONMENTAL DATA**

23. Driver Level Environmental Data That Is Most Representative of this Accident Location

\_\_\_\_\_ Code the driver level number (the vehicle number coded in variable D07) that best describes the accident's environmental conditions.

38 40

**SPECIAL STUDIES - INDICATORS**

Information Collected From This Accident As A Part of the Special Studies Subsystem

NO - Code 0 for each of questions 24 through 29

If YES - Check (✓) each of the studies from the list below that were indicated; code 1 for the checked studies and 0 for the studies not checked

- 24.  SS8-Longitudinal Barrier 41
- 25.  SS9-Crash Cushion 42
- 26.  SS12 43
- 27.  SS13 44
- 28.  SS14 45
- 29.  SS15 46



**PEDESTRIAN AND NONMOTORIST**

**NATIONAL ACCIDENT SAMPLING SYSTEM  
 CONTINUOUS SAMPLING SUBSYSTEM**

1. Primary Sampling Unit Number 1 2

2. Case Number - Stratification 3 4 5 6

3. Record Number 2 7

4. Transaction Code 8

5. Version Number 9 9

6. Investigator I.D. Number 10

**IDENTIFICATION**

7. Pedestrian or Nonmotorist's Number 11 12

8. Pedestrian or Nonmotorist's Type

(1) Pedestrian

(2) Bicyclist

(3) Other cyclist (*specify*)

\_\_\_\_\_

(4) Occupant of vehicle not in transport

(8) Other nonmotorist (*specify*)

\_\_\_\_\_

\_\_\_\_\_

(9) Unknown 13

**PEDESTRIAN OR NONMOTORIST INTERVIEW**

9. Pedestrian or Nonmotorist's Age

\_\_\_\_\_ year(s) - Code actual age at time of accident

(00) Less than one year old

(97) 97 years and older

(99) Unknown 14 15

10. Pedestrian or Nonmotorist's Sex

(1) Male

(2) Female

(9) Unknown 16

11. Pedestrian or Nonmotorist's Height

\_\_\_\_\_ inches - Code actual height to the nearest inch.

(99) Unknown 17 18

12. Pedestrian or Nonmotorist's Weight

\_\_\_\_\_ pounds - Code actual weight to the nearest pound.

(999) Unknown 19 20 21

13. Pedestrian or Nonmotorist's Location

(01) Intersection related - in crosswalk

(02) Intersection related - on roadway, not in crosswalk

(03) Intersection related - on roadway, crosswalk not available

(04) Intersection related - on roadway, crosswalk availability unknown

(05) Intersection related - on sidewalk

(06) Intersection related - not on roadway or sidewalk

(09) Intersection related - unknown

(10) Nonintersection - in crosswalk

(11) Nonintersection - on roadway, not in crosswalk

(12) Nonintersection - on roadway, crosswalk not available

(13) Nonintersection - on roadway, crosswalk availability unknown

(14) Nonintersection - in parking lane

(15) Nonintersection - on road shoulder

(16) Nonintersection - on sidewalk

(17) Nonintersection - bike path

(18) Nonintersection - other, not on roadway (*specify*):

\_\_\_\_\_

(19) Nonintersection - outside trafficway

(20) Nonintersection - unknown

(99) Unknown 22 23

14. Distance From Intersection

(0) Not on roadway

On roadway

(1) Impact within 50 feet of intersection

(2) Impact between 51 and 500 feet of intersection

(3) Impact more than 500 feet from intersection

(9) Unknown

**15. Pedestrian Activity**  
*(Note: code the first attribute that applies)*

\_\_\_ (00) Not a pedestrian

\_\_\_ (01) Near a motor vehicle *(specify):* \_\_\_\_\_

\_\_\_ (02) Near a bus stop or mass transit entrance *(specify):* \_\_\_\_\_

\_\_\_ (03) Near a mobile vendor *(specify):* \_\_\_\_\_

\_\_\_ (04) Near an entrance *(specify):* \_\_\_\_\_

\_\_\_ (05) Darting or running into roadway

\_\_\_ (06) Crossing or attempting to cross roadway

\_\_\_ (07) Walking in the same direction as traffic

\_\_\_ (08) Walking in the opposite direction of traffic

\_\_\_ (09) Walking, direction unknown

\_\_\_ (10) Jogging or running in the same direction as traffic

\_\_\_ (11) Jogging or running in the opposite direction of traffic

\_\_\_ (12) Jogging or running, direction unknown

\_\_\_ (13) Playing

\_\_\_ (14) Working

\_\_\_ (15) Stationary *(specify):* \_\_\_\_\_

\_\_\_ (98) Other *(specify):* \_\_\_\_\_

\_\_\_ (99) Unknown

25 26

16.-19. Omitted *(These variables are omitted so that numbering consistency can be maintained with compatible variables on the Occupant Data Form.)*

**INTERVIEW AND OFFICIAL SOURCES**

Inter- viewee	Official Sources
<b>20. Treatment - Mortality</b>	
___(0) No treatment	___
___(1) Fatal	___
___(2) Fatal - ruled disease	___
<b>Nonfatal</b>	
___(3) Hospitalization	___
___(4) Transported and released	___
___(5) Treatment at scene - nontransported	___
___(6) Treatment later	___
___(8) Treatment - Other <i>(specify):</i> _____	___
___(9) Unknown	___
	27

Inter- viewee	Official Sources
<b>21. Hospital Stay</b>	
___ (00) Not hospitalized	___
___ day(s) - Code the number of days (up through 60) that the pedestrian/nonmotorist stayed in hospital.	___
___ (61) 61 days or more	___
___ (99) Unknown	___
	28 29
<b>22. Working Days Lost</b>	
___ (00) No working days lost	___
___ day(s) - Code the number of days (up through 60) that the pedestrian/nonmotorist lost from work due to the accident.	___
___ (61) 61 days or more	___
___ (62) Fatally injured	___
___ (97) Not working prior to accident	___
___ (99) Unknown	___
	30 31
<b>23. Vehicle Which Contacted Pedestrian or Nonmotorist</b>	
___ (0) No injury	___
___ (1) Vehicle number 01	___
___ (2) Vehicle number 02	___
___ (3) Vehicle number 03	___
___ (4) Vehicle number 04	___
___ (5) Vehicle number 05	___
___ (6) Vehicle number 06	___
___ (7) Multivehicle contact	___
___ (8) Other vehicle number <i>(specify):</i> _____	___
___ (9) Unknown	___

24.-30. Omitted *(These variables are omitted so that numbering consistency can be maintained with compatible variables on the Occupant Data Form.)*

NCI

**OCCUPANT INJURY CLASSIFICATION  
(FOR PEDESTRIAN AND NONMOTORIST)**

Consider all injuries which are reported from both *unofficial* and *official* sources. The information from *official* sources takes precedence over similar injuries reported by any other source. In other words, do not list the same injury twice; supercede the interview data with official data in the case of similar injuries. List all injuries by official medical sources first. Police reported injuries may be used, but only when no other source of injury information is available.

Were more than ten (10) injuries sustained? \_\_\_\_\_ Unknown, \_\_\_\_\_ No, \_\_\_\_\_ Yes - If more than ten dissimilar injuries were identified during the interview, from collection of official data, and from other unofficial sources (*excluding police*), list those from the official records first, exhausting that level of data before listing those from the interviewee or other sources.

	I.S.S. Body Region	O.I.C. Body Region	Aspect	Lesion	System/ Organ	A.L.S. Severity	Injury Source	Direct/ Indirect Injury	Source of Data
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—

**Source of Data**

*Official*

- (01) Autopsy records with or without hospital/medical records
- (02) Hospital medical records other than emergency room (e.g., discharge summary)
- (03) Emergency room records only (including associated x-rays or other lab reports)
- (04) Private physician, walk-in or emergency clinic

*Unofficial*

- (05) Lay coroner report
- (06) E.M.S. personnel
- (07) Interviewee
- (08) Other source: \_\_\_\_\_
- (09) Police
- (99) Unknown if injured
- (00) Not injured

**I.S.S. Body Region**

- (1) Head or neck
- (2) Face
- (3) Chest
- (4) Abdominal or pelvic contents
- (5) Extremities or pelvic girdle
- (6) General (*external*)
- (0) Not injured
- (9) Unknown

**O.I.C. Body Region**

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back - thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head - skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck - cervical spine
- (P) Pelvic - hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body
- (W) Wrist - hand
- (0) Not injured
- (9) Unknown if injured

**Aspect of Injury**

- (A) Anterior - front
- (C) Central
- (I) Inferior - lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior - back
- (R) Right
- (S) Superior - upper
- (W) Whole region
- (0) Not injured
- (9) Unknown if injured

**Lesion**

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush
- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection
- (0) Not injured
- (9) Unknown if injured

**System/Organ**

- (W) All systems in region
- (A) Arteries - veins
- (B) Brain
- (D) Digestive
- (E) Ear
- (O) Eye
- (H) Heart
- (U) Injured, unknown system
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary - lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae
- (0) Not injured
- (9) Unknown if injured

**Abbreviated Injury Scale**

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (*unrecoverable*)
- (7) Injured, unknown severity
- (0) Not injured
- (9) Unknown if injured

<b>Injury Source</b> (00) No injury	<b>ROOF</b> (31) Front header (32) Rear header (33) Roof side rails (34) Roof or convertible top	<b>EXTERIOR of STRIKING MOTOR VEHICLE</b> (71) Front bumper (72) Hood edge (73) Other front of vehicle (specify)
<b>FRONT</b> (01) Windshield (02) Mirror (03) Sunvisor (04) Steering wheel rim (05) Steering wheel hub/spoke (06) Steering wheel (combination of codes 04 and 05) (07) Steering column, transmission selector lever, other attachment (08) Add on equipment (e.g., CB, tape deck, air conditioner) (09) Left instrument panel and below (10) Center instrument panel and below (11) Right instrument panel and below (12) Other front object (specify):	<b>FLOOR</b> (41) Floor (42) Floor or console mounted transmission lever, including console (43) Parking brake handle (44) Foot controls including parking brake	(74) Hood (75) Hood ornament (76) Windshield, roof rail, A-pillar (77) Side surface (78) Side mirrors (79) Other side protrusions (specify)
<b>SIDE</b> (13) Side interior surface, excluding hardware or armrest (14) Side hardware or armrest (15) A pillar (16) B pillar (17) Other pillar (specify) (18) Window glass or frame (19) Other side object (specify):	<b>REAR</b> (45) Backlight (rear window) (46) Backlight storage rack, door, etc. (49) Other rear object (specify)	(80) Rear surface (81) Undercarriage (82) Tires and wheels (83) Other exterior of striking motor vehicle (specify)
<b>INTERIOR</b> (21) Seat, back support (22) Belt restraint system (23) Head restraint system (24) Air cushion (25) Other occupants (specify) (26) Interior loose objects (29) Other interior object (specify):	<b>EXTERIOR of NONMOTORIST'S VEHICLE</b> <i>Noncycle</i> (51) Hood (52) Outside hardware (e.g., outside mirror, antenna) (53) Other exterior surface or tires (specify) (59) Unknown exterior objects <i>Cycle</i> (61) Handle bars or attachments (62) Frame or suspension component or fender (63) Seat (64) Foot pedal, foot rest, foot pegs (65) Wheel or tire (66) Engine or transmission (67) Gas tank, gas tank filler cap or neck (69) Other cycle part (specify)	(84) Unknown exterior of striking motor vehicle <b>OTHER VEHICLE or OBJECT in the ENVIRONMENT</b> (86) Ground (87) Other vehicle or object (specify) (89) Unknown vehicle or object
		<b>NONCONTACT INJURY</b> (90) Noncontact injury source (97) Injured, unknown source (99) Unknown if injured <b>DIRECT/INDIRECT INJURY</b> (0) No injury (1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source (9) Unknown if injured

**OCCUPANT INJURY CLASSIFICATION (FOR PEDESTRIAN AND NONMOTORIST)**

If there are six or less injuries listed in the O.I.C. reduction section, code all of the injuries ordered by Source of Data (1st-autopsy, 2nd-hospital/medical, 3rd-emergency room, 4th-private physician, or 5th-unofficial sources) and by A.I.S. severity within source.

If there are more than six injuries, order the injuries by source and by A.I.S. severity within source. Code this ordering, injury by injury. If a group of ordered injuries has the same source, the same A.I.S., and the group includes at least the sixth and seventh injuries in the ordering, then a choice must be made as to which injury or injuries to code.

Choose the injury or injuries that will enable the maximum number of different L.S.S. body regions to be represented in the coded data. If no new L.S.S. body region can be added then simply code in accordance with the original ordering.

If the pedestrian or nonmotorist has less than six injuries, then the number of rows required to be completed is equal to the number of injuries plus one (e.g., no injuries requires one row, i.e., columns 33 to 42). In the additional row "No injury" will be coded for all variables, including A.I.S. severity.

If you cannot increase the number of different L.S.S. body regions or if you can choose between two or more injuries of the same source and A.I.S. severity any of which would constitute an additional L.S.S. region, then choose the injury that has a known injury source.

L.S.S. Body Region	O.I.C. Body Region	Aspect	Lesion	System/Organ	A.I.S. Severity	Injury Source	Update Candidate		Direct/Indirect Injury	Source of Data
							<input type="radio"/> Yes	<input type="radio"/> No		
1st	31.	32.	33.	34.	35.	36.	<input type="radio"/>	<input type="radio"/>	37.	38.
	33.	34.	35.	36.	37.	38.	<input type="radio"/>	<input type="radio"/>	39.	40.
2nd	39.	40.	41.	42.	43.	44.	<input type="radio"/>	<input type="radio"/>	45.	46.
	43.	44.	45.	46.	47.	48.	<input type="radio"/>	<input type="radio"/>	49.	50.
3rd	47.	48.	49.	50.	51.	52.	<input type="radio"/>	<input type="radio"/>	53.	54.
	53.	54.	55.	56.	57.	58.	<input type="radio"/>	<input type="radio"/>	59.	60.
4th	55.	56.	57.	58.	59.	60.	<input type="radio"/>	<input type="radio"/>	61.	62.
	63.	64.	65.	66.	67.	68.	<input type="radio"/>	<input type="radio"/>	69.	70.
5th	63.	64.	65.	66.	67.	68.	<input type="radio"/>	<input type="radio"/>	69.	70.
	73.	74.	75.	76.	77.	78.	<input type="radio"/>	<input type="radio"/>	79.	80.
6th	71.	72.	73.	74.	75.	76.	<input type="radio"/>	<input type="radio"/>	77.	78.
	83.	84.	85.	86.	87.	88.	<input type="radio"/>	<input type="radio"/>	89.	90.

OFFICIAL RECORDS	INVESTIGATOR DETERMINED
<p>79. Injury Severity (Police Rating)</p> <p>___ (0) No injury (D)</p> <p>___ (1) Possible injury (C)</p> <p>___ (2) Nonincapacitating injury (B)</p> <p>___ (3) Incapacitating injury (A)</p> <p>___ (4) Killed (K)</p> <p>___ (5) Injury, severity unknown</p> <p>___ (6) Died prior to accident</p> <p>___ (9) Unknown</p> <p style="text-align: right;">93</p>	<p>84. Pedestrian/Nonmotorist Related Factors</p> <p>___ (00) No pedestrian/nonmotorist related factors</p> <p>___ (01) Non-physical (i.e., mental or emotional factor)</p> <p>Physical impairments</p> <p>___ (02) Blind</p> <p>___ (03) Restricted sight</p> <p>___ (04) Walking cane/crutches required</p> <p>___ (05) Deaf</p> <p>___ (06) Restricted to wheelchair</p> <p>___ (07) Paraplegic</p> <p>___ (08) Previous injury</p> <p>___ (09) Other physical impairments (specify): _____</p>
<p>80. Time to Death</p> <p>___ (00) Not fatal</p> <p>___ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, . . . n days = 30 + n up through 30 days = 60)</p> <p>___ (96) Fatal - ruled disease</p> <p>___ (99) Unknown</p> <p style="text-align: right;">94 95</p>	<p>Drug Impairments</p> <p>___ (10) Drugs - medication (prescription, over-the-counter)</p> <p>___ (11) Other drugs (excludes alcohol, includes uncontrolled substances) (specify): _____</p>
<p>81. Traffic Violation Charged Against This Pedestrian or Nonmotorist</p> <p>___ (0) No</p> <p>___ (1) Yes (specify) _____</p> <p>___ (9) Unknown</p> <p style="text-align: right;">96</p>	<p>Pedalcyclist Related (Includes Animal Related)</p> <p>___ (12) Inattention</p> <p>___ (13) Interference with operator by other passenger</p> <p>___ (14) Operator inexperience</p> <p>___ (15) Erratic lane changing - cutting in and out of traffic</p> <p>___ (16) Not yielding right-of-way</p> <p>___ (17) Failure to yield to an emergency vehicle</p> <p>___ (18) Disobeying stop sign</p> <p>___ (19) Disobeying traffic signal</p> <p>___ (20) Failure to obey other traffic sign or signal (specify): _____</p> <p>___ (21) Riding over or on the centerline</p> <p>___ (22) Riding over or on the median</p> <p>___ (23) Riding wrong way on 1-way street or entrance/exit ramp</p> <p>___ (24) Pulling in front of traffic from a roadway or driveway</p> <p>___ (25) Turning left or U-turning in front of oncoming traffic</p> <p>___ (26) Making right turn from left lane, or left turn from right lane</p> <p>___ (27) Making other improper turn (specify): _____</p>
<p>82. Police Reported Alcohol Presence</p> <p>___ (0) No (alcohol not present)</p> <p>___ (1) Yes (alcohol present)</p> <p>___ (8) Not reported</p> <p>___ (9) Unknown</p> <p style="text-align: right;">97</p>	<p>___ (28) Proceeding despite view obstruction</p> <p>___ (29) Wrong signal given for maneuver executed</p> <p>___ (30) Turning without giving a turn signal</p> <p>___ (31) Hazard lights not used when appropriate or required</p> <p>___ (32) Operator unfamiliar with roadway</p> <p>___ (33) Overloading or improper loading of passengers and/or cargo</p> <p>___ (38) Other pedalcyclist related factors (specify): _____</p>
<p>83. Alcohol Test Result</p> <p>___ Actual value (decimal implied before first digit) (0.xx)</p> <p>___ (95) Test refused</p> <p>___ (96) None given</p> <p>___ (97) AC test performed, results unknown</p> <p>___ (99) Unknown</p> <p style="text-align: right;">98 99</p>	<p>___ (99) Unknown</p> <p style="text-align: right;">100 11</p>



Vehicle Data

<p>1. Primary Sampling Unit Number <span style="float: right;">1 2</span></p> <p>2. Case Number-Stratification <span style="float: right;">3 4 5 6</span></p> <p>3. Record Number <span style="float: right;">3 7</span></p> <p>4. Transaction Code <span style="float: right;">8</span></p> <p>5. Version Number <span style="float: right;">9 9</span></p> <p>6. Investigator I.D. Number <span style="float: right;">10</span></p>	<p>11. Hit and Run Involvement  <input type="checkbox"/> (0) No hit-and-run  <input type="checkbox"/> (1) Yes - hit-and-run involved vehicle <span style="float: right;">17</span></p>
<b>IDENTIFICATION</b>	
<p>7. Vehicle Number <span style="float: right;">11 12</span></p> <p>8. Number of Occupant Forms Submitted  <input type="checkbox"/> Code only the number of occupants in this vehicle for which an OCCUPANT FORM was submitted  <input type="checkbox"/> (97) 97 or more <span style="float: right;">13 14</span></p> <p>9. Vehicle Role <span style="float: right;">15</span>  <input type="checkbox"/> (0) Noncollision  <input type="checkbox"/> (1) Striking unit  <input type="checkbox"/> (2) Struck unit  <input type="checkbox"/> (3) Both striking and struck  <input type="checkbox"/> (9) Unknown</p> <p>10. Manner of Leaving Scene (Determined by Investigator) <span style="float: right;">16</span>  <input type="checkbox"/> (1) Driven  <input type="checkbox"/> (2) Towed - due to vehicle damage  <input type="checkbox"/> (3) Towed - not due to vehicle damage  <input type="checkbox"/> (4) Towed - details unknown  <input type="checkbox"/> (5) Abandoned  <input type="checkbox"/> (9) Unknown</p>	<p style="text-align: center;"><b>EXTERIOR ITEMS</b></p> <p>12. Vehicle Model Year <span style="float: right;">18 19</span>  <input type="checkbox"/> Code the last two digits of the model year  <input type="checkbox"/> (99) Unknown</p> <p>13. Vehicle Make (specify):  <hr/> Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.  <input type="checkbox"/> (99) Unknown <span style="float: right;">20 21</span></p> <p>14. Vehicle Model (specify):  <hr/> Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.  <input type="checkbox"/> (99) Unknown <span style="float: right;">22 23</span></p> <p>15. Registration of Vehicle <span style="float: right;">24</span>  <input type="checkbox"/> (0) Not registered  <input type="checkbox"/> (1) In-state (at least)  <input type="checkbox"/> (2) Out-of-state (only)  <input type="checkbox"/> (8) Other registration (e.g., federal, foreign, military) (specify):  <hr/> <input type="checkbox"/> (9) Unknown</p>
<p>16. Vehicle Identification Number <span style="float: right;">25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41</span>  <input type="checkbox"/> No VIN - Code all Zeros  <input type="checkbox"/> Unknown - Code all nines</p> <p>Left justify  Slash zeros. 0</p>	

Delete sec  
portion  
of production number  
after case review

National Accident Sampling System—Continuous Sampling Subsystem: Vehicle Data

17. Body Type

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 and Short Utility Vehicles

- \_\_\_ (10) Auto based pickup (includes El Camino, Caballero, Ranchero and Brat)
- \_\_\_ (11) Auto based panel (cargo station wagon, includes auto based ambulance/hearse)
- \_\_\_ (12) Short utility - not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)
- \_\_\_ (13) Large limousine - more than four side doors or stretched chassis

Motorcycles

- \_\_\_ (20) Motorcycle
- \_\_\_ (21) Mopeds (motorized bicycles)
- \_\_\_ (28) Other motorcycle (minibikes, motorscooters) (specify): \_\_\_\_\_
- \_\_\_ (29) Unknown motorcycle type

Bus (excludes van based)

- \_\_\_ (30) School bus (designed to carry students, not cross country or transit)
- \_\_\_ (31) Cross country/intercity (designed for long distance)
- \_\_\_ (32) Transit bus (includes short ride city bus and medium range suburban bus)
- \_\_\_ (38) Other bus (e.g., bus based motorhome) (specify): \_\_\_\_\_
- \_\_\_ (39) Unknown bus type

Van Based Light Truck (<= 10,000 lbs GVWR)

- \_\_\_ (40) Van (includes VW bus, Vanagon, Kombi, Beauville, Chateau, Club Wagon, Sportsman; excludes moving van)
- \_\_\_ (41) Van-commercial cutaway (includes box van, multi-stop, parcel, van pickups)
- \_\_\_ (42) Van based motorhome
- \_\_\_ (48) Other van type (specify): \_\_\_\_\_
- \_\_\_ (49) Unknown van type

Light Conventional Truck (Pickup style cab, <= 10,000 lbs GVWR)

- \_\_\_ (50) Pickup (includes open box and caps)
- \_\_\_ (51) Pickup with slide-in camper
- \_\_\_ (52) Pickup based motorhome (chassis mounted)
- \_\_\_ (53) Cab chassis based (includes rescue vehicles, light stake, dump, and tow trucks)
- \_\_\_ (54) Truck based panel
- \_\_\_ (55) Truck based station wagon (4-door; includes Suburban, Travelall, Wagoneer)
- \_\_\_ (56) Truck based utility (2-door; includes Blazer, Bronco - 78 on, Jimmy, Ramcharger, Cherokee, Trailduster, Scout)
- \_\_\_ (58) Other light conventional truck (e.g., stretched Suburban limousine) (specify): \_\_\_\_\_
- \_\_\_ (59) Unknown light conventional truck
- \_\_\_ (69) Unknown light truck (van or pickup)

Medium/Heavy Truck (> 10,000 lbs GVWR)

- \_\_\_ (70) Step vans
- \_\_\_ (71) Single unit straight truck (10,000 lbs < GVWR <= 26,000 lbs)
- \_\_\_ (72) Single unit straight truck (> 26,000 lbs GVWR)
- \_\_\_ (73) Medium/heavy truck based motorhome
- \_\_\_ (74) Truck-tractor with no cargo trailer
- \_\_\_ (75) Truck-tractor pulling one or more trailers
- \_\_\_ (77) Truck-tractor (unknown if pulling trailer)
- \_\_\_ (78) Unknown medium/heavy truck type
- \_\_\_ (79) Unknown truck type (light/medium/heavy)

Other Vehicles

- \_\_\_ (80) Snowmobile
- \_\_\_ (81) Farm equipment other than trucks
- \_\_\_ (82) ATV, all terrain vehicle (e.g., dune/swamp buggy)
- \_\_\_ (83) Construction equipment other than trucks (e.g., grader, off road)
- \_\_\_ (88) Other (e.g., go-cart, fork lift, city street sweeper) (specify): \_\_\_\_\_
- \_\_\_ (89) Unknown other vehicle (specify): \_\_\_\_\_
- \_\_\_ (99) Unknown body type

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

18. Towed Trailing Unit

\_\_\_ (0) No towed unit

Yes.

towed trailing unit hitch type

- \_\_\_ (1) Clamp on (temporary)
- \_\_\_ (2) Bumper hitch (bolted)
- \_\_\_ (3) Frame
- \_\_\_ (4) Fifth wheel
- \_\_\_ (5) Converter dolly - with 1 towbar
- \_\_\_ (6) Converter dolly - with 2 towbars
- \_\_\_ (8) Other (specify) \_\_\_\_\_
- \_\_\_ (9) Unknown hitch type

44

19. Seating Capacity/Truck Vocation

Passenger Vehicle by Designated Seating Capacity

Motorcycle/Automobile/Van/Bus (exclude pickups)

- \_\_\_ (01) One seat position
- \_\_\_ (02) Two seat positions
- \_\_\_ (03) Three seat positions
- \_\_\_ (04) Four seat positions
- \_\_\_ (05) Five seat positions
- \_\_\_ (06) Six seat positions
- \_\_\_ (07) Seven seat positions
- \_\_\_ (08) Eight seat positions
- \_\_\_ (09) Nine seat positions
- \_\_\_ (10) 10 to 19 seat positions
- \_\_\_ (11) 20 to 49 seat positions
- \_\_\_ (12) 50 or more seat positions
- \_\_\_ (13) Motorhome (any light or medium truck based)
- \_\_\_ (14) Ambulance/EMS (any auto or truck based)
- \_\_\_ (19) Unknown passenger vehicle seating capacity

Cargo Vehicle by Vocation (Cargo Configuration)

Platform

- \_\_\_ (20) Platform, flatbed
- \_\_\_ (21) Platform with device (e.g., self-loader, spreader)
- \_\_\_ (22) Stake
- \_\_\_ (23) Drop frame, low bed, lowboy
- \_\_\_ (24) Livestock carrier
- \_\_\_ (28) Other platform (specify): \_\_\_\_\_

Open

- \_\_\_ (30) Pickup box (non-dump, includes open box and caps)
- \_\_\_ (31) Pickup with slide-in camper
- \_\_\_ (32) Dump (any light, medium, or heavy truck based)
- \_\_\_ (33) Dump with blade (front or undercarriage)
- \_\_\_ (34) Hopper (grain)
- \_\_\_ (35) Auto carrier/transport (include: boat)
- \_\_\_ (36) Van - open top
- \_\_\_ (38) Other open (specify): \_\_\_\_\_

Closed

- \_\_\_ (40) Van - closed top (any light, medium or heavy truck based, e.g., multi-stop)
- \_\_\_ (41) Low bed van (e.g., moving van)
- \_\_\_ (42) Refrigerated or insulated
- \_\_\_ (43) Mobile home
- \_\_\_ (44) Beverage, bottler
- \_\_\_ (45) Container (e.g., piggy back)
- \_\_\_ (46) Tank - liquid and gaseous
- \_\_\_ (47) Tank - dry bulk
- \_\_\_ (48) Other closed (specify): \_\_\_\_\_

Services/Utility

- \_\_\_ (50) Garbage, refuse (including dumpster)
- \_\_\_ (51) Fire apparatus
- \_\_\_ (52) Concrete mixer
- \_\_\_ (53) Wrecker, tow
- \_\_\_ (54) Crane, aerial basket
- \_\_\_ (55) Service, mobile repair (e.g., phone line truck)
- \_\_\_ (56) Pole (e.g., pipe or log)
- \_\_\_ (57) Armored truck
- \_\_\_ (58) Other service/utility (specify): \_\_\_\_\_

- \_\_\_ (71) Truck-tractor - no trailer
- \_\_\_ (72) Chassis, incomplete vehicle
- \_\_\_ (88) Other cargo vehicle (specify): \_\_\_\_\_

- \_\_\_ (97) Other nontruck (e.g., construction paver, farm tractor) (specify): \_\_\_\_\_

- \_\_\_ (98) Unknown cargo configuration
- \_\_\_ (99) Unknown if passenger or cargo vehicle

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

20. 21 22 23. Tire Condition (at time of or resulting from accident)  
Code up to four tires - front to rear, left to right. See manual for tire numbering scheme

AXLE

- \_\_\_ (0) No abnormal tire condition
- \_\_\_ (1-7) Code actual axle number
- \_\_\_ (8) Axle number eight or greater (specify) \_\_\_\_\_
- \_\_\_ (9) Unknown axle

TIRE

- \_\_\_ (0) No abnormal tire condition
- \_\_\_ (1) Left outermost tire
- \_\_\_ (2) Left inner tire (if present)
- \_\_\_ (3) Right inner tire (if present)
- \_\_\_ (4) Right outermost tire
- \_\_\_ (9) Unknown tire position

CONDITION

- \_\_\_ (0) No abnormal tire condition
- \_\_\_ (1) Evidence of tread separation (with no sign of collision damage)
- \_\_\_ (2) Carcass failure
- \_\_\_ (3) Wear bars exposed
- \_\_\_ (4) Damaged as a result of the accident
- \_\_\_ (9) Unknown tire condition

	Axle	Tire	Condi- tion
(20)	47	48	49
(21)	50	51	52
(22)	53	54	55
(23)	56	57	58

24 25 Type of Outside Mirror

- |         |                                       |          |          |
|---------|---------------------------------------|----------|----------|
|         | <u>L</u>                              | <u>R</u> |          |
| ___ ___ | (0) Mirror not present                |          |          |
| ___ ___ | (1) Plane mirror                      |          |          |
| ___ ___ | (2) Convex mirror                     |          |          |
| ___ ___ | (3) Plane plus stuck-on convex mirror |          |          |
| ___ ___ | (4) Plane plus separate convex mirror |          |          |
| ___ ___ | (8) Other type mirror (specify).      | 24       | 25       |
|         |                                       | <u>L</u> | <u>R</u> |
| ___ ___ | (9) Unknown                           | 59       | 60       |

26. Override/Underride (this vehicle)

- \_\_\_ (0) No override/underride or not applicable to CDC/TDC

Override (see specific CDC/TDC)

- \_\_\_ (1) 1st CDC
- \_\_\_ (2) 2nd CDC
- \_\_\_ (3) Other not automated CDC (specify). \_\_\_\_\_

Underride (see specific CDC/TDC)

- \_\_\_ (4) 1st CDC
- \_\_\_ (5) 2nd CDC
- \_\_\_ (6) Other not automated CDC (specify): \_\_\_\_\_

- \_\_\_ (7) Medium/heavy truck override/underride
- \_\_\_ (9) Unknown

27. Rear Turn Signal Color

- \_\_\_ (0) No turn signals
- \_\_\_ (1) Red
- \_\_\_ (2) Amber
- \_\_\_ (8) Other (specify): \_\_\_\_\_
- \_\_\_ (9) Unknown

National Accident Sampling System—Continuous Sampling Subsystem: Vehicle Data

MEDIUM/HEAVY TRUCK AND BUS DATA (V17 = 30-39 OR 70-78)

28 Cab Configuration  
\_\_\_ (0) Not a medium/heavy truck or bus  
(V17 ≠ 30-39 or 70-78)

Cab Over Engine (COE)  
\_\_\_ (1) COE, high entry  
\_\_\_ (2) COE, low entry  
\_\_\_ (3) COE, unknown entry

Conventional (CBE-Cab Behind Engine)  
\_\_\_ (4) 2-door (standard)  
\_\_\_ (5) 2-door extended cab/4-door crew cab  
\_\_\_ (6) Unknown number of doors  
\_\_\_ (7) Cab alongside engine (CAE)  
\_\_\_ (8) Other (specify): \_\_\_\_\_  
\_\_\_ (9) Unknown

29 30 31 32 Number of Axles

Power Unit	Trailer 1st	Trailer 2nd	Trailer 3rd	
___	___	___	___	(0) Not a medium/heavy truck or bus (V17 ≠ 30-39 or 70-78)
___	___	___	___	(1) One
___	___	___	___	(2) Two
___	___	___	___	(3) Three
___	___	___	___	(4) Four
___	___	___	___	(5) Five
___	___	___	___	(6) Six
___	___	___	___	(7) Seven or more
___	___	___	___	(8) No trailer
___	___	___	___	(9) Unknown
				P 1 2 3
				64 65 66 67

33 34 35 Length of Trailing Units

	Trailer 1st	Trailer 2nd	Trailer 3rd	
___	___	___	___	(0) Not a medium/heavy truck or bus (V17 ≠ 30-39 or 70-78)
___	___	___	___	(1) Less than 26 feet
___	___	___	___	(2) 26 - 28 feet
___	___	___	___	(3) 29 - 31 feet
___	___	___	___	(4) 32 - 40 feet
___	___	___	___	(5) 41 - 45 feet
___	___	___	___	(6) 46 - 48 feet
___	___	___	___	(7) More than 48 feet
___	___	___	___	(8) No trailer
___	___	___	___	(9) Unknown
				1st 2nd 3rd
				68 69 70

36 Maximum Overall Width  
\_\_\_ (000) Not a medium/heavy truck or bus  
(V17 ≠ 30-39 or 70-78)  
\_\_\_ Code the actual value to the nearest inch  
\_\_\_ (998) 998 inches or more  
\_\_\_ (999) Unknown

71 72 73

37. Maximum Overall Length  
(Includes the power unit and all trailers)  
\_\_\_ (000) Not a medium/heavy truck or bus  
(V17 ≠ 30-39 or 70-78)  
\_\_\_ Code the actual value to the nearest foot  
\_\_\_ (998) 998 feet or more  
\_\_\_ (999) Unknown

74 75 76

38 Type of Brake Actuation  
\_\_\_ (0) Not a medium/heavy truck or bus  
(V17 ≠ 30-39 or 70-78)  
\_\_\_ (1) Air  
\_\_\_ (2) Hydraulic  
\_\_\_ (8) Other (specify): \_\_\_\_\_  
\_\_\_ (9) Unknown

77

39 Gross Vehicle Weight Rating (GVWR)  
\_\_\_ (0) Not a medium/heavy truck or bus  
(V17 ≠ 30-39 or 70-78)  
\_\_\_ (1) 10,001 - 14,000 lbs.  
\_\_\_ (2) 14,001 - 16,000 lbs.  
\_\_\_ (3) 16,001 - 19,500 lbs.  
\_\_\_ (4) 19,501 - 26,000 lbs.  
\_\_\_ (5) 26,001 - 33,000 lbs.  
\_\_\_ (6) 33,001 lbs and above  
\_\_\_ (9) Unknown

78

Specify GVWR: \_\_\_\_\_

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

NCI

**OBJECT CONTACTED**

(00) Noncollision  
 (01) through (30)  
 If the object contacted by the vehicle under consideration was a motor vehicle in transport, code the Vehicle Number assigned to that vehicle.

**Collision with Stationary Object**

- (31) Motor vehicle not in transport\*
- (32) Tree (<6 inches in diameter)
- (33) Tree (>6 inches in diameter)

**Highway/Traffic Supports**

- (34) Luminaire - breakaway
- (35) Luminaire - nonbreakaway
- (36) Large sign - breakaway
- (37) Large sign - nonbreakaway
- (38) Small sign - breakaway
- (39) Small sign - nonbreakaway
- (40) Utility pole
- (41) Traffic signal pole
- (42) Delineator
- (43) Other post, pole or support (specify) \_\_\_\_\_
- (44) Fence
- (45) Mail box
- (46) Other movable object (specify) \_\_\_\_\_

- (47) Culvert
- (48) Railroad tracks
- (49) Curb
- (50) Abutment
- (51) Wall (stone, rock, metal, etc.)
- (52) Embankment - earth
- (53) Embankment - rock, stone or concrete
- (54) Building - rigid
- (55) Building - nonrigid
- (56) Bridge pier or abutment

- (57) Bridge rail
- (58) Bridge parapet end
- (59) Guardrail - bridge rail transition
- (60) Guardrail end (non median)
- (61) Guardrail end (median)
- (62) Guardrail (non-median)
- (63) Guardrail (median)
- (64) Concrete barrier (non-median)
- (65) Concrete barrier (median)
- (66) Other median barrier (specify) \_\_\_\_\_

- (67) Other longitudinal barrier (non-median) (specify) \_\_\_\_\_

- (68) Impact attenuator/Crash cushion
- (69) Ground
- (70) Train
- (71) Ditch
- (72) Other stationary/fixd object (specify) \_\_\_\_\_

**Collision with Nonstationary Objects**

- (73) Animal
- (74) Trailer, disconnected in transport
- (75) Train
- (76) Other nonstationary objects (specify) \_\_\_\_\_

- (81) through (95)

If the object contacted by the vehicle under consideration was pedestrian or nonmotorist, add eighty (80) to the assigned Pedestrian & Nonmotorist Number, and code the resultant sum.

- (96) Vehicle occupant
- (97) Other object (specify) \_\_\_\_\_

- (99) Unknown

\*NOTE For coding CDC or TDC investigators must refer to appropriate reference documents for accurate coding. If this vehicle impacted a vehicle not in transport, fill in the information for that vehicle at the end of the CRASH Program Summary.

**DEFORMATION CLASSIFICATION BY EVENT NUMBER**

Event Number (this vehicle)	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(19) Deformation Extent Guide	Event Number (in accident)
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---

National Accident Sampling System – Continuous Sampling Subsystem: Vehicle Data

DEFORMATION CLASSIFICATION

HIGHEST DELTA "V"

Event Number (this vehicle)	Object Contacted	(1) Direction of Force	(2) Deformation Location	(3) Specific Longitudinal or Lateral Location	(4) Specific Vertical or Lateral Location	(5) Type of Damage Distribution	(6) Deformation Extent Guide	(7) Event Number (in accident)
40 <u>79</u>	41 <u>80</u> <u>81</u>	42 <u>82</u> <u>83</u>	43 <u>84</u>	44 <u>85</u>	45 <u>86</u>	46 <u>87</u>	47 <u>88</u> <u>89</u>	48 <u>90</u>

Second Highest Delta "V"

49 <u>91</u>	50 <u>92</u> <u>93</u>	51 <u>94</u> <u>95</u>	52 <u>96</u>	53 <u>97</u>	54 <u>98</u>	55 <u>99</u>	56 <u>100</u> <u>101</u>	57 <u>102</u>
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CRUSH PROFILE

(The crush profile for the damage described in the CDC/TDC above should be documented in the appropriate space below.)

Highest

58 <u>L</u>	59 <u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>	<u>C5</u>	<u>C6</u>	60 <u>+ D</u>																		
<u>103</u>	<u>104</u>	<u>105</u>	<u>106</u>	<u>107</u>	<u>108</u>	<u>109</u>	<u>110</u>	<u>111</u>	<u>112</u>	<u>113</u>	<u>114</u>	<u>115</u>	<u>116</u>	<u>117</u>	<u>118</u>	<u>119</u>	<u>120</u>	<u>121</u>	<u>122</u>	<u>123</u>	<u>124</u>	<u>125</u>	<u>126</u>	<u>127</u>	<u>128</u>

Second Highest

61 <u>L</u>	62 <u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>	<u>C5</u>	<u>C6</u>	63 <u>+ D</u>																		
<u>129</u>	<u>130</u>	<u>131</u>	<u>132</u>	<u>133</u>	<u>134</u>	<u>135</u>	<u>136</u>	<u>137</u>	<u>138</u>	<u>139</u>	<u>140</u>	<u>141</u>	<u>142</u>	<u>143</u>	<u>144</u>	<u>145</u>	<u>146</u>	<u>147</u>	<u>148</u>	<u>149</u>	<u>150</u>	<u>151</u>	<u>152</u>	<u>153</u>	<u>154</u>

## CODES FOR FRONT OCCUPANT AREA INTRUSION

### Magnitude of Intrusion

- \_\_\_ (0) No passenger compartment or no intrusion
- \_\_\_ (1) Less than 2 inches
- \_\_\_ (2)  $\geq$  2 inches but  $<$  6 inches
- \_\_\_ (3)  $\geq$  6 inches but  $<$  12 inches
- \_\_\_ (4)  $\geq$  12 inches
- \_\_\_ (9) Unknown

### Intruding Component

#### Primary

- \_\_\_ (00) No passenger compartment or no intrusion
- \_\_\_ (01) Steering column
- \_\_\_ (02) Instrument panel left
- \_\_\_ (03) Instrument panel center
- \_\_\_ (04) Instrument panel right
- \_\_\_ (05) A-pillar
- \_\_\_ (06) B-pillar
- \_\_\_ (07) Door panel or side panel/kick panel
- \_\_\_ (08) Roof
- \_\_\_ (09) Roof side rail
- \_\_\_ (10) Windshield header
- \_\_\_ (11) No intrusion of primary component

#### Other

- \_\_\_ (20) Steering column and instrument panel
- \_\_\_ (21) Steering column, instrument panel, and A-pillar
- \_\_\_ (22) Instrument panel and A-pillar
- \_\_\_ (23) A-pillar and roof
- \_\_\_ (24) A-pillar and any of the following: door panel, side panel, or B-pillar
- \_\_\_ (25) A-pillar, roof, and windshield header
- \_\_\_ (26) Roof and any of the following: door panel, side panel, or B-pillar
- \_\_\_ (27) Roof and windshield header
- \_\_\_ (97) Other combination of the above components (specify) \_\_\_\_\_
- \_\_\_ (98) Intrusion of unlisted component(s) (specify) \_\_\_\_\_
- \_\_\_ (99) Unknown

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64 Documentation of More Than Two CDC/TDC's  
 \_\_\_ (1) Two or less coded CDC/TDC's  
 \_\_\_ (2) More than two coded CDC/TDC's 155

65 Vehicle Special Use (this trip)  
 \_\_\_ (0) No special use  
 \_\_\_ (1) Taxi  
 \_\_\_ (2) Vehicle used as school bus  
 \_\_\_ (3) Vehicle used as other bus  
 \_\_\_ (4) Military  
 \_\_\_ (5) Police  
 \_\_\_ (6) Ambulance  
 \_\_\_ (7) Fire  
 \_\_\_ (9) Unknown 156

66 Odometer Reading  
 \_\_\_ miles - Code mileage to the nearest 1,000 miles  
 \_\_\_ (000) No odometer  
 \_\_\_ (001) Less than 1,500 miles  
 \_\_\_ (997) 996,500 miles or more  
 \_\_\_ (999) Unknown 157 158 159 . 0 0 0

67 Passenger Compartment Integrity  
 \_\_\_ (0) No passenger compartment  
 \_\_\_ (1) No integrity loss

Yes, integrity was lost through  
 \_\_\_ (2) Windshield  
 \_\_\_ (3) Door (side)  
 \_\_\_ (4) Door (rear)  
 \_\_\_ (5) Roof  
 \_\_\_ (6) Windshield and door (side)  
 \_\_\_ (7) Side or rear window breakage  
 \_\_\_ (8) Other combination of above (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown 160

**FRONT OCCUPANT AREA INTRUSION**  
 (See reverse of preceding page for list of codes)

	Intruding Component	Magnitude of Intrusion
Driver Area Primary	68 <span style="float:right">161 162</span>	69 <span style="float:right">163</span>
Driver Area Other	70 <span style="float:right">164 165</span>	71 <span style="float:right">166</span>
Passenger Area Primary	72 <span style="float:right">167 168</span>	73 <span style="float:right">169</span>
Passenger Area Other	74 <span style="float:right">170 171</span>	75 <span style="float:right">172</span>

76 Steering Column Separation  
 \_\_\_ (0) No steering column  
 \_\_\_ (1) No - steering column did not separate  
 \_\_\_ (2) Yes - steering column separated  
 \_\_\_ (9) Unknown 173

77. Steering Rim Deformation  
 \_\_\_ (0) No steering rim deformation  
 \_\_\_ (1) Yes - steering rim deformation  
 \_\_\_ (9) Unknown 174

78 Fire Occurrence  
 \_\_\_ (0) No fire

Yes, fire occurred  
 \_\_\_ (1) Started in vehicle, minor  
 \_\_\_ (2) Started in vehicle, major  
 \_\_\_ (3) Started external to vehicle, minor  
 \_\_\_ (4) Started external to vehicle, major  
 \_\_\_ (5) Origin unknown  
 \_\_\_ (9) Unknown 175

79. Type of Most Severe Impact This Vehicle  
 This Vehicle's Role  
 \_\_\_ (0) Nonimpact  
 \_\_\_ (1) Front of this vehicle  
 \_\_\_ (2) Left side of this vehicle  
 \_\_\_ (3) Right side of this vehicle  
 \_\_\_ (4) Rear of this vehicle  
 \_\_\_ (5) Other impact location (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown impact type 176

80 Role of Other Contacted Vehicle, Object or Person (for same impact as above)  
 \_\_\_ (0) Nonimpact  
 \_\_\_ (1) Front of other vehicle  
 \_\_\_ (2) Side of other vehicle  
 \_\_\_ (3) Rear of other vehicle  
 \_\_\_ (4) Intraunit damage  
 \_\_\_ (5) Other location on other vehicle (specify): \_\_\_\_\_  
 \_\_\_ (6) Object (stationary or nonstationary)  
 \_\_\_ (7) Pedestrian or nonmotorist  
 \_\_\_ (8) Motorcycle or moped  
 \_\_\_ (9) Unknown impact type 177

**81 Rollover**  
 (0) No rollover (no overturning)

Rollover primarily about the longitudinal axis  
 (1) Rollover, 1 quarter turn only  
 (2) Rollover, 2 quarter turns  
 (3) Rollover, 3 quarter turns  
 (4) Rollover, 4 or more quarter turns  
 (specify) \_\_\_\_\_

(5) Rollover primarily about the lateral axis  
 (9) Rollover (Overturn), details unknown

178

**82 Jackknife**  
 (0) Not an articulated vehicle  
 (1) No jackknife  
 (2) Yes - prior to first impact for this vehicle  
 (3) Yes - after first impact but prior to last impact for this vehicle  
 (4) Yes - details unknown

179

**83 Hazardous Cargo**  
 (0) No hazardous cargo  
 (1) Load of hazardous materials only  
 (specify) \_\_\_\_\_  
 (2) Load of hazardous and nonhazardous materials (specify)  
 \_\_\_\_\_  
 (9) Unknown

180

NOTE (See coding manual for definitions and examples of hazardous materials)

**VEHICLE WEIGHT ITEMS**

**84. Vehicle Curb Weight**  
 \_\_\_\_\_ pounds - Code weight to nearest 100 pounds  
 (001) Less than 150 pounds  
 (997) 99,650 lbs or more  
 (999) Unknown

181 182 183 0

Source: \_\_\_\_\_

**85. Vehicle Cargo Weight**  
 \_\_\_\_\_ pounds - Code weight to nearest 100 pounds  
 (000) Less than 50 pounds  
 (997) 99,650 lbs or more  
 (999) Unknown

184 185 186 0

**86. Investigator Reported Source of Cargo Weight**  
 (0) No cargo  
 (1) Measured  
 (2) Estimated  
 (3) Rated capacity  
 (9) Unknown: source or weight

187

Source: \_\_\_\_\_





1. Primary Sampling Unit Number	<u>1</u> <u>2</u>
2. Case Number-Stratification	<u>3</u> <u>4</u> <u>5</u> <u>6</u>
3. Record Number	<u>4</u> <u>7</u>
4. Transaction Code	<u>8</u>
5. Version Number	<u>9</u> <u>9</u>
6. Investigator I.D. Number	<u>10</u>

**IDENTIFICATION**

7. Vehicle Number	<u>11</u> <u>12</u>
8. Number of Occupants This Vehicle	
<p>_____ occupant(s) - Code the actual number of persons (including the driver if present) that were occupants of this vehicle. The number of OCCUPANT FORMS does not have to equal this value.</p> <p>_____ (97) 97 or more</p> <p>_____ (99) Unknown</p>	
9. Driver Presence In Vehicle	
<p>_____ (1) Driver present</p> <p>_____ (2) Driver not present</p>	
<p>(NOTE: If no driver was present in this vehicle, indicate and subsequently leave blank the remaining nonenvironmental questions (variables D10-D33) on this form. Do code the environmental elements. No OCCUPANT FORM for the driver is required. Remember, if the person who had been driving this motor vehicle prior to the accident was injured outside of this vehicle, that person is handled on the PEDESTRIAN &amp; NON-MOTORIST FORM.)</p>	

**DRIVER INTERVIEW**

10. Months Driving Experience This Class of Vehicle (e.g., passenger car, light truck, motorcycle, etc.)	
<p>_____ months - Code actual months of previous driving experience up to 60. (NOTE: 44 days or less equals 1 month; a month and a half equals 2 months.)</p> <p>_____ (61) Greater than five years</p> <p>_____ (99) Unknown</p>	

11. Estimated Mileage This Vehicle (Estimated total mileage that driver has driven in this specific accident involved vehicle.)	
<p>_____ miles to the nearest 100</p> <p>_____ (001) Less than 150 miles</p> <p>_____ (997) 99,650 miles or more</p> <p>_____ (999) Unknown</p>	

12. Total Mileage All Vehicles (Past Twelve Months)	
<p>_____ miles to the nearest 100</p> <p>_____ (001) Less than 150 miles</p> <p>_____ (997) 99,650 miles or more</p> <p>_____ (999) Unknown</p>	

13. Driver Education	
<p>Automobile or Light Truck Driver Training</p> <p>_____ (0) No formal driver training</p> <p>_____ (1) High school driver training</p> <p>_____ (2) Commercial driver training</p> <p>_____ (8) Other formal driver training (e.g., college, military, etc.) (specify): _____</p> <p>_____ (9) Unknown</p>	

Motorcycle Driver Training	
<p>_____ (0) No formal driver training</p> <p>_____ (5) Motorcycle driver training</p> <p>_____ (8) Other formal driver training (e.g., college, military, etc.) (specify): _____</p> <p>_____ (9) Unknown</p>	

Medium/Heavy Vehicle Driver Training (>10,000 lbs. GVWR)	
<p>_____ (0) No formal driver training</p> <p>_____ (1) High school driver training</p> <p>_____ (2) Commercial driver training</p> <p>_____ (3) Motor carrier program - On-the-Job-Training</p> <p>_____ (4) Vocational training (CETA, Job Corps other government sponsored training, etc.)</p> <p>_____ (8) Other formal driver training (e.g., college, military, etc.) (specify): _____</p> <p>_____ (9) Unknown</p>	

Category	Configuration	ACCIDENT TYPES (Includes Intent)							
I Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN			
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN			
	C. Forward Impact	11 PARKED VEH.	12 STA. OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN		
II Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	22 SLOWER 25, 26, 27	24 DECCEL. 28, 29, 30, 31	26 AVOID COLLISION WITH VEH.	28 AVOID COLLISION WITH VEH.	30 AVOID COLLISION WITH OBJECT	(EACH • 32) SPECIFICS OTHER	(EACH • 33) SPECIFICS UNKNOWN
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	(EACH • 42) SPECIFICS OTHER	(EACH • 43) SPECIFICS UNKNOWN		
	F. Sideswipe/Angle	44 LATERAL MOVE	45 (EACH • 46) SPECIFICS OTHER	(EACH • 47) SPECIFICS UNKNOWN					
III Same Trafficway Opposite Direction	G. Head-On	50 LATERAL MOVE	51 (EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN					
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	(EACH • 62) SPECIFICS OTHER	(EACH • 63) SPECIFICS UNKNOWN		
	I. Sideswipe/Angle	64 LATERAL MOVE	65 (EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN					
IV Change Trafficway Vehicle Turning	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	71 INITIAL SAME DIRECTIONS	73 INITIAL SAME DIRECTIONS	(EACH • 74) SPECIFICS OTHER	(EACH • 75) SPECIFICS UNKNOWN			
	K. Turn Into Path	77 TURN INTO SAME DIRECTION	79 TURN INTO SAME DIRECTION	81 TURN INTO OPPOSITE DIRECTIONS	83 TURN INTO OPPOSITE DIRECTIONS	(EACH • 84) SPECIFICS OTHER	(EACH • 85) SPECIFICS UNKNOWN		
V Intersecting Paths (Vehicle Damage)	L. Straight Paths	86 UPPER PATH	88 LOWER PATH	89 UPPER PATH	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN			
VI Miscellaneous	M. Backing Etc.	92 BACKING VEH.	93 OTHER VEH. OR OBJECT	98 Other Accident Type	99 Unknown Accident Type	00 N Impact			

14 Time Since Last Driver Training  
 \_\_\_ (0) No formal driver training  
 \_\_\_ (1) In training at time of accident  
 \_\_\_ (2) Less than five years  
 \_\_\_ (3) Five to ten years  
 \_\_\_ (4) More than ten years  
 \_\_\_ (9) Unknown 25

15. Frequency Driving Road

Familiar with Road  
 \_\_\_ (1) Daily  
 \_\_\_ (2) Weekly  
 \_\_\_ (3) Monthly  
 \_\_\_ (4) Less than once a month  
 \_\_\_ (5) Unfamiliar with road  
 \_\_\_ (9) Unknown 26

**TRUCK/BUS OPERATIONS**

16 Type of Operation or Carrier  
 \_\_\_ (0) Noncommercial or automobile, motorcycle, or other vehicle (V17=01-29, 80-89)  
 \_\_\_ (1) For hire/common carrier  
 \_\_\_ (2) For hire/contract carrier  
 \_\_\_ (3) Private carrier of property or passengers  
 \_\_\_ (4) Carrier of ICC exempt commodities  
 \_\_\_ (5) U.S. mail carrier  
 \_\_\_ (8) Other (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown 27

17 Federal Safety Regulated  
 \_\_\_ (0) Noncommercial or automobile, motorcycle, or other vehicle (V17=01-29, 80-89)  
 \_\_\_ (1) Motor carrier not subject to U.S. DOT (BMCS) regulations

Motor Carrier Subject to U.S. DOT (BMCS) regulations  
 \_\_\_ (2) Intercity operations  
 \_\_\_ (3) Local pickup or delivery  
 \_\_\_ (9) Unknown 28

18. Driver's Classification  
 \_\_\_ (0) Noncommercial or automobile, motorcycle, other vehicle (V17=01-29, 80-89)  
 \_\_\_ (1) Full time employee  
 \_\_\_ (2) Part time employee  
 \_\_\_ (3) Owner operator  
 \_\_\_ (4) Leased (from labor contractor)  
 \_\_\_ (8) Other (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown 29

**ACCIDENT PRE-CRASH INFORMATION**

Inter-viewee	Investigator
19. Accident Type	
___ (00) No impact	___
___ Code the number of the diagram that best describes the accident circumstance (See reverse of preceding page for diagrams)	___
___ (98) Other accident type (specify): _____	___
___ (99) Unknown	___ <span style="float: right;">30 31</span>
20. Attempted Avoidance Maneuver	
___ (00) No impact	___
___ (01) No avoidance actions	___
___ (02) Braking (no lockup)	___
___ (03) Braking (lockup)	___
___ (04) Braking (lockup unknown)	___
___ (05) Releasing brakes	___
___ (06) Steering left	___
___ (07) Steering right	___
___ (08) Braking and steering left	___
___ (09) Braking and steering right	___
___ (10) Accelerating	___
___ (11) Accelerating and steering left	___
___ (12) Accelerating and steering right	___
___ (98) Other action (specify): _____	___
___ (99) Unknown	___ <span style="float: right;">32 33</span>

INVESTIGATOR DETERMINED	OFFICIAL RECORDS
<p>21. Driver Related Factors</p> <p>___ (00) No impact</p> <p>___ (01) No driver related factors - inappropriate</p> <p>___ (02) Being pursued by police - police chase</p> <p>___ (03) Over speed limit</p> <p>___ (04) Too fast for conditions</p> <p>___ (05) Excessive or erratic acceleration</p> <p>___ (06) Erratic lane changing - cutting in and out of traffic</p> <p>___ (07) Following too closely (tailgating)</p> <p>___ (08) Passing in no-passing zone</p> <p>___ (09) Not yielding right-of-way</p> <p>___ (10) Failure to yield to an emergency vehicle</p> <p>___ (11) Disobeying stop sign</p> <p>___ (12) Disobeying traffic signal</p> <p>___ (13) Failure to obey other traffic sign or signal (specify): _____</p> <p>___ (14) Driving over or on the centerline</p> <p>___ (15) Driving over or on the median</p> <p>___ (16) Driving on road shoulder</p> <p>___ (17) Driving wrong way on 1-way street or entrance/exit ramp</p> <p>___ (18) Driving in parking lane</p> <p>___ (19) Pulling in front of traffic from a roadway or driveway</p> <p>___ (20) Turning left or U-turning in front of oncoming traffic</p> <p>___ (21) Improper lane change - cutting into another vehicle's path</p> <p>___ (22) Making right turn from left lane, or left turn from right lane</p> <p>___ (23) Making other improper turn (specify): _____</p> <p>___ (24) Passing with close oncoming traffic</p> <p>___ (25) Proceeding despite view obstruction</p> <p>___ (26) Passing on blind curve or hill</p> <p>___ (27) Passing on wrong side of vehicle being overtaken</p> <p>___ (28) Illegally parked</p> <p>___ (29) Driving too slow or less than minimum speed</p> <p>___ (30) Braking rapidly and unnecessarily (slowing but not to stop)</p> <p>___ (31) An abrupt stop without warning</p> <p>___ (32) Wrong signal given for maneuver executed</p> <p>___ (33) Turning without giving a turn signal</p> <p>___ (34) Headlights not used when required</p> <p>___ (35) Hazard lights not used when appropriate or required</p> <p>___ (36) Failure to dim lights for oncoming traffic</p> <p>___ (37) Operator inexperience with vehicle</p> <p>___ (38) Operator unfamiliar with roadway</p> <p>___ (39) Overloading or improper loading of passengers and/or cargo</p> <p>___ (98) Other driver related factor (specify): _____</p> <p>___ (99) Unknown</p> <p style="text-align: right;">34 35</p>	<p>22. 23. Traffic Violation Charged Against This Driver</p> <p>1st 2nd</p> <p>___ (00) No violation charged</p> <p>___ (01) Speeding</p> <p>___ (02) Driving while intoxicated (or DUIL)</p> <p>___ (03) Reckless driving</p> <p>___ (04) Driving with suspended or revoked license</p> <p>___ (05) Failure to yield right-of-way</p> <p>___ (06) Following too closely</p> <p>___ (07) Running a traffic signal or stop sign</p> <p>___ (08) License restriction not complied with</p> <p>___ (98) Other violation charged (specify) _____</p> <p>___ (99) Unknown</p> <p style="text-align: right;">(1st) 36 37</p> <p style="text-align: right;">(2nd) 38 39</p> <p>24. Police Reported Alcohol Presence</p> <p>___ (0) No (alcohol not present)</p> <p>___ (1) Yes (alcohol present)</p> <p>___ (8) Not reported</p> <p>___ (9) Unknown</p> <p style="text-align: right;">40</p> <p>25. Alcohol Test Result</p> <p>___ Actual value (decimal implied before first digit - 0.xx)</p> <p>___ (95) Test refused</p> <p>___ (96) None given</p> <p>___ (97) AC test performed, results unknown</p> <p>___ (99) Unknown</p> <p style="text-align: right;">41 42</p> <p>26. Driver License Status (Irrespective of Vehicle being Driven)</p> <p>No Valid License</p> <p>___ (0) Not licensed</p> <p>___ (1) Suspended</p> <p>___ (2) Revoked</p> <p>___ (3) Expired</p> <p>___ (4) Canceled or denied</p> <p>Valid License</p> <p>___ (5) Single class license (specify): _____</p> <p>___ (6) Multiple class license (specify): _____</p> <p>___ (7) Learner's permit</p> <p>___ (8) Temporary</p> <p>___ (9) Unknown</p> <p style="text-align: right;">43</p>

National Accident Sampling System—Continuous Sampling Subsystem: Driver Data

27. Driver License Type Compliance (For This Class Vehicle)  
 \_\_\_ (0) Not licensed  
 \_\_\_ (1) No license required for this class vehicle  
 \_\_\_ (2) No valid license for this class vehicle  
 \_\_\_ (3) Valid license for this class vehicle  
 \_\_\_ (9) Unknown 44

28. Driver License Restriction  
 \_\_\_ (0) No license restrictions  
 \_\_\_ (1) Corrective (or contact) lenses only  
 \_\_\_ (2) Corrective lenses and outside mirror  
 \_\_\_ (3) Corrective lenses and limited to daylight  
 \_\_\_ (4) Corrective lenses and other (specify): \_\_\_\_\_  
 \_\_\_ (5) Outside mirror only  
 \_\_\_ (6) Limited to daylight only  
 \_\_\_ (7) Limited to employment only  
 \_\_\_ (8) Other (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown 45

Code in the space provided the actual number of recorded convictions/suspensions/accidents that occurred within the last three (3) years (as measured from the date of the accident). If 8 or more convictions/suspensions or accidents, then code 8. Be sure that the actual value is recorded in the space provided near the question number. If unknown, code 9 for each of questions 29 through 33.

29. \_\_\_ Previous Speeding Convictions 46

30. \_\_\_ Previous Other Harmful Moving Violations or Convictions (specify): \_\_\_\_\_ 47

31. \_\_\_ Previous Driving While Intoxicated Convictions (or DWIL) 48

32. \_\_\_ Previous Recorded Suspensions and Revocations 49

33. \_\_\_ Previous Recorded Accidents 50

**ADMINISTRATIVE ITEMS**

34. Federal Aid System  
 \_\_\_ (1) Interstate  
 \_\_\_ (2) Federal-aid primary (other than interstate)  
 \_\_\_ (3) Federal-aid urban  
 \_\_\_ (4) Federal-aid secondary (rural only)  
 \_\_\_ (5) Nonfederal-aid  
 \_\_\_ (9) Unknown 51

35. Class Trafficway  
 \_\_\_ (1) Interstate  
 \_\_\_ (2) U.S. Highway  
 \_\_\_ (3) State Highway  
 \_\_\_ (4) County road

Local Street  
 \_\_\_ (5) Township  
 \_\_\_ (6) Municipality  
 \_\_\_ (8) Other (specify): \_\_\_\_\_  
 \_\_\_ (9) Unknown 52

36. Roadway Function Class

Rural  
 \_\_\_ (01) Principal arterial-interstate  
 \_\_\_ (02) Principal arterial-other  
 \_\_\_ (03) Minor arterial  
 \_\_\_ (04) Major collector  
 \_\_\_ (05) Minor collector  
 \_\_\_ (06) Local road or street  
 \_\_\_ (09) Unknown rural

Urban  
 \_\_\_ (11) Principal arterial-interstate  
 \_\_\_ (12) Principal arterial-other freeways r expressways  
 \_\_\_ (13) Other principal arterial  
 \_\_\_ (14) Minor arterial  
 \_\_\_ (15) Collector  
 \_\_\_ (16) Local road or street  
 \_\_\_ (19) Unknown urban  
 \_\_\_ (99) Unknown 53 54

**WAS THE DRIVER'S VEHICLE IN A SCHOOL ZONE?  
(FOR USE IN CODING A20)**

Yes \_\_\_  
No \_\_\_



National Accident Sampling System—Continuous Sampling Subsystem: Driver Data

<p><b>49. Grade Measurement</b>                  ____ (+00) No grade - level                  ____ Code actual value to the nearest hundredth +                  ____ (_ 99) Unknown <span style="float: right;">74 75 76</span></p> <p>slope                  measurement: (v = ____)/(h = ____)</p> <p><b>50. Roadway Profile</b>                  ____ (1) Level                  ____ (2) Grade (≥ 2%)                  ____ (3) Hillcrest                  ____ (4) Sag                  ____ (9) Unknown <span style="float: right;">77</span></p> <p><b>51. Roadway Surface Type</b>                  ____ (1) Concrete                  ____ (2) Bituminous                  ____ (3) Brick or block                  ____ (4) Slag, gravel or stone                  ____ (5) Dirt                  ____ (8) Other (specify): _____                  ____ (9) Unknown <span style="float: right;">78</span></p>	<p><b>52. Roadway Surface Condition</b>                  ____ (1) Dry                  ____ (2) Wet                  ____ (3) Snow or slush                  ____ (4) Ice                  ____ (5) Sand, dirt or oil                  ____ (8) Other (specify): _____                  ____ (9) Unknown <span style="float: right;">79</span></p> <p><b>53. Speed Limit</b>                  ____ (00) No statutory limit                  ____ m.p.h. - Code actual posted or                  statutory speed limit                  ____ (99) Unknown <span style="float: right;">80 81</span></p> <p><b>54. Restriction of Roadway at Scene (NOTE: The restriction must have existed prior to this accident.)</b>                  ____ (0) No restrictions                  ____ (1) Narrow bridge (as defined)                  ____ (2) Previous accident on roadway                  ____ (3) Maintenance, repair or construction activity on roadway.                  ____ (4) Roadway immersion (e.g., standing water)                  ____ (5) Vehicle stopped on roadway                  ____ (6) Snow                  ____ (8) Other roadway obstruction (specify): _____                  ____ (9) Unknown <span style="float: right;">82</span></p> <p>(NOTE: If more than one restriction exists, choose the restriction in the order in which they are numbered.)</p>
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<p><b>55. Traffic Control Device</b>                  ___ (00) No controls</p> <p>Not at railroad grade crossing                  Highway traffic signals (Active)                  ___ (01) Traffic control signal (on colors) without pedestrian signal                  ___ (02) Traffic control signal (on colors) with pedestrian signal                  ___ (03) Traffic control signal (on colors) not known whether or not pedestrian signal                  ___ (04) Flashing traffic control signal                  ___ (05) Flashing beacon                  ___ (06) Flashing highway traffic signal, type unknown or other than traffic control or beacon                  ___ (07) Lane use control signal                  ___ (08) Other highway traffic signal (specify):                  _____</p> <p>Regulatory signs (Passive)                  ___ (20) Stop sign                  ___ (21) Yield sign                  ___ (28) Other regulatory sign (specify):                  _____</p> <p>___ (29) Unknown type regulatory sign</p> <p>School zone signs (Passive)                  ___ (30) School speed limit sign                  ___ (31) School advance or crossing sign                  ___ (38) Other school related sign (specify):                  _____</p> <p>___ (39) Unknown type school zone sign</p> <p>Warning signs (Passive)                  ___ (40) Construction warning sign                  ___ (41) Other warning sign (specify):                  _____</p> <p>Miscellaneous (Active)                  ___ (50) Officer, crossing guard, flagman, etc.</p> <p>At railroad grade crossing                  Active Devices                  ___ (60) Gates                  ___ (61) Flashing lights                  ___ (62) Traffic control signal                  ___ (63) Wigwags                  ___ (64) Bells                  ___ (65) Special warning device - watchman, flagged by crew.                  ___ (68) Other active device (specify):                  _____</p> <p>___ (69) Active device, type unknown</p>	<p>Passive Devices                  ___ (70) Crossbucks                  ___ (71) Stop sign                  ___ (72) Other railroad crossing sign (specify):                  _____</p> <p>___ (78) Other passive device (specify):                  _____</p> <p>___ (79) Passive device, type unknown</p> <p>Miscellaneous controls                  ___ (80) Grade crossing control type unknown</p> <p>Whether or Not at Railroad Grade Crossing                  Pavement marking (Passive)                  ___ (90) Lane line                  ___ (91) Center line                  ___ (92) No passing line                  ___ (93) Edge line                  ___ (94) Other pavement marking (specify):                  _____</p> <p>___ (95) Unknown pavement marking type:                  _____</p> <p>___ (98) Other                  ___ (99) Unknown</p>
<p><b>56. Traffic Control Device Functioning</b>                  Active Device (D55 = 01-08, 50-69)                  ___ (0) No traffic control                  ___ (1) Traffic control not functioning                  ___ (2) Traffic control functioning - functioning improperly                  ___ (3) Traffic control functioning properly</p> <p>Passive Device (D55 = 20-41, 70-95)                  ___ (4) Traffic control device defaced, badly worn, etc.                  ___ (5) Traffic control device obscured (e.g., covered with snow)                  ___ (6) No abnormal condition of traffic control device                  ___ (9) Unknown</p>	<p><b>57. Designated Truck System</b>                  ___ (0) No                  ___ (1) Yes                  ___ (9) Unknown</p>

## INVESTIGATOR DETERMINED

## 58. Environmental Related Factors

\_\_\_ (00) No environmental related factors

## Vision Obscured By

- \_\_\_ (01) Rain, snow, fog, smoke, sand, dust  
 \_\_\_ (02) Reflected glare, bright sunlight, headlights  
 \_\_\_ (03) Curve, hill or other design features (including traffic signs, embankment)  
 \_\_\_ (04) Building, billboard, etc.  
 \_\_\_ (05) Trees, crops, vegetation  
 \_\_\_ (06) Moving vehicle (including load)  
 \_\_\_ (07) Splash or spray of passing vehicle  
 \_\_\_ (08) Parked vehicle  
 \_\_\_ (09) Other object not classifiable above (specify): \_\_\_\_\_

## Swerving or Loss of Control Due to:

- \_\_\_ (20) Severe crosswind  
 \_\_\_ (21) Wind from passing truck  
 \_\_\_ (22) Slippery surface  
 \_\_\_ (23) Avoiding debris or objects in roadway  
 \_\_\_ (24) Ruts, holes, bumps in roadway  
 \_\_\_ (25) Avoiding animal(s) in roadway  
 \_\_\_ (26) Avoiding vehicle in roadway  
 \_\_\_ (27) Avoiding pedestrian, pedalcyclist, or other nonmotorist in roadway  
 \_\_\_ (28) Avoiding standing water, snow, oilslick or ice patch on roadway

## Roadway Features

- \_\_\_ (30) Inadequate warning of exits, lanes narrowing, traffic controls, etc.  
 \_\_\_ (31) Pavement marking obscured or absent  
 \_\_\_ (32) Surface washed out (caved in, road slippage)  
 \_\_\_ (33) Shoulder too low or high  
 \_\_\_ (34) Inadequate construction or poor design of roadway, bridge, etc.  
 \_\_\_ (35) Vehicle unattended in roadway  
 \_\_\_ (98) Other (specify): \_\_\_\_\_  
 \_\_\_ (99) Unknown

87 88



Occupant Data

1 Primary Sampling Unit Number	1	2
2 Case Number-Stratification	3	4 5 6
3 Record Number	5	7
4 Transaction Code	8	
5 Version Number	0	9
6 Investigator I D Number	10	

IDENTIFICATION

7 Vehicle Number	11	12
8 Occupant Number	13	14

OCCUPANT INTERVIEW

9 Occupant's Age ____ year(s) - Code actual age at time of accident ____ (00) Less than one year old ____ (97) 97 years and older ____ (99) Unknown	15	16
10 Occupant's Sex ____ (1) Male ____ (2) Female ____ (9) Unknown	17	
11 Occupant's Height ____ inches - Code actual height to the nearest inch ____ (99) Unknown	18	19
12 Occupant's Weight ____ pounds - Code actual weight to the nearest pound ____ (999) Unknown	20	21 22
13 Occupant's Role ____ (1) Driver ____ (2) Passenger ____ (9) Unknown	23	

14 Occupant's Seat Position ____ (01) Front seat - left side ____ (02) Front seat - middle ____ (03) Front seat - right side ____ (04) Second seat - left side ____ (05) Second seat - middle ____ (06) Second seat - right side ____ (07) Third seat - left side ____ (08) Third seat - middle ____ (09) Third seat - right side ____ (10) Front seat - additional passenger ____ (11) Second seat or beyond - additional passenger ____ (12) Truck-tractor sleeping section ____ (13) Other enclosed area (specify) _____ ____ (14) In or on unenclosed area (specify area type) _____ ____ (15) In or on trailing unit (specify unit type) _____ ____ (99) Unknown	24	25
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INVESTIGATOR DETERMINED

(NOTE: INVESTIGATOR as used below refers to the product of individual observation, police reports, and any other sources used that culminated in the assessment which represents the final opinion of the investigator.)

<u>Inter- viewee</u>	<u>Investigator</u>
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15 Entrapment

(NOTE: Entrapped means that part of the occupant was in the vehicle and mechanically restrained, jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)

____ (0) Not entrapped	____
____ (1) Entrapped	____
____ (9) Unknown	____

26

v4  
(68  
thru  
75)

National Accident Sampling System - Continuous Sampling Subsystem: Occupant Data

Inter-viewee		Investigator	INTERVIEW AND OFFICIAL SOURCES	
			Inter-viewee	Official Sources
16 Ejection			20 Treatment - Mortality	
v9	___ (0) None	___	___ (0) No treatment	___
(67)	___ (1) Complete ejection	___	___ (1) Fatal	___
	___ (2) Partial ejection	___	___ (2) Fatal - ruled disease	___
v10	___ (3) Ejection, unknown degree	___	Nonfatal	
	___ (9) Unknown	___	___ (3) Hospitalization	___
		27	___ (4) Transported and released	___
17. Ejection Area			___ (5) Treatment at scene - non-transported	___
	___ (0) No ejection	___	___ (6) Treatment later	___
	___ (1) Windshield	___	___ (8) Treatment - other (specify):	___
	___ (2) Left front	___	___ (9) Unknown	___
	___ (3) Right front	___		31
	___ (4) Left rear	___	21. Hospital Stay	
	___ (5) Right rear	___	___ (00) Not hospitalized	___
	___ (6) Rear	___	___ day(s) - Code the number of days (up through 60) that the occupant stayed in hospital.	___
	___ (7) Roof	___	___ (61) 61 days or more	___
	___ (8) Other area (e.g., sidecar, back pickup, etc.) (specify)	___	___ (99) Unknown	___
	___ (9) Unknown	___		32 33
		28	22 Working Days Lost	
18 Ejection Medium			___ (00) No working days lost	
	___ (0) No ejection	___	___ day(s) - Code the number of days (up through 60) that the occupant lost from work due to the accident	
	___ (1) Door	___	___ (61) 61 days or more	
	___ (2) Open roof structure	___	___ (62) Fatally injured	
	___ (3) Fixed windows	___	___ (97) Not working prior to accident	
			___ (99) Unknown	___
				34 35
v10	Operable windows		INVESTIGATOR DETERMINED	
	___ (4) Roll down type	___	Inter-viewee	Investigator
	___ (5) Hinged type	___	23 Infant or Child Restraint Make/Model	
	___ (6) Sliding type	___	___ (00) No infant or child restraint	___
	___ (7) Other type (specify)	___	Applicable codes are found in your NASS Data Collection, Coding and Editing Manual	
	___ (8) Other medium (specify)	___	___ (97) Other make/model (specify):	___
	___ (9) Unknown	___	___ (98) Unknown make/model	___
		29	___ (99) Unknown if restraint available	___
				36 37
v10	19 Medium Status			
	___ (0) No ejection	___		
	___ (1) Open	___		
	___ (2) Separation	___		
	___ (3) Closed, closed when damaged	___		
	___ (4) Integral structure ripped open	___		
	___ (9) Unknown	___		
		30		

National Accident Sampling System - Continuous Sampling Subsystem: Occupant Data

Interviewee		Investigator	Interviewee		Police Investigator	
V10	24 Type of Infant or Child Restraint		28 Manual (Active) Restraint System Use			
	___ (0) No infant or child restraint	___	___ (0) None used	___	___	
	___ (1) Infant seat	___	___ (1) Shoulder belt	___	___	
	___ (2) Child seat	___	___ (2) Lap belt	___	___	
	___ (3) Convertible seat	___	___ (3) Lap and shoulder belt	___	___	
	___ (4) Booster seat	___	___ (4) Motorcycle helmet	___	___	
	___ (7) Other type seat (specify)	___	___ (5) Child safety seat - car lap belt used properly	___	___	
	___ (8) Unknown type restraint	___	___ (6) Child safety seat - car lap belt used improperly (specify how used improperly)	___	___	
	___ (9) Unknown if restraint available	___	___ (7) Child safety seat - unknown if car lap belt used properly	___	___	
		38	___ (8) Restraint used - type unknown or other (specify)	___	___	
V10	25 Infant or Child Seat Orientation		___ (9) Unknown	___	42	
	___ (0) No infant or child seat	___	29 Automatic (Passive) Restraint System Availability			
	___ (1) Rear facing	___	___ (0) Not equipped	___	___	
	___ (2) Forward facing	___	___ (1) Airbag	___	___	
	___ (7) Other orientation (specify)	___	___ (2) Airbag disconnected	___	___	
	___ (8) Unknown orientation	___	___ (3) Airbag not reinstalled	___	___	
	___ (9) Unknown if restraint available	___	___ (4) 2 point automatic belts	___	___	
			39	___ (5) 3 point automatic belts	___	___
	V10	26 Infant or Child Restraint Harness/Shield Usage		___ (6) Automatic belts destroyed or rendered inoperable	___	___
___ (0) No infant or child restraint		___	___ (9) Unknown	___	43	
___ (1) Harness/shield used		___	30 Automatic (Passive) Restraint Function			
___ (2) Harness/shield not used		___	___ (0) Not equipped	___	___	
___ (8) Unknown harness/shield usage		___	___ (1) Automatic belt in use	___	___	
___ (9) Unknown if restraint available		___	___ (2) Automatic belt not in use	___	___	
			40	___ (3) Deployed airbag	___	___
V10		27 Manual (Active) Restraint System Availability		___ (4) Nondeployed airbag	___	___
		___ (0) None available	___	___ (9) Unknown	___	44
	___ (1) Shoulder belt	___				
	___ (2) Lap belt	___				
	___ (3) Lap and shoulder belt	___				
	___ (4) Motorcycle helmet	___				
	___ (5) Child safety seat (designed without tether or unknown design)	___				
	___ (6) Child safety seat (designed with tether - tether not used) (specify reason not used - i.e. , defeated or destroyed)	___				
	___ (7) Child safety seat (designed with tether - tether used)	___				
___ (8) Restraint available - type unknown or other (specify)	___					
___ (9) Unknown	___					
		41				

**National Accident Sampling System - Continuous Sampling Subsystem: Occupant Data**

NCI

**OCCUPANT INJURY CLASSIFICATION**

Consider all injuries which are reported from both unofficial and official sources. The information from official sources takes precedence over similar injuries reported by any other source. In other words, do not list the same injury twice. supersede the interview data with official data in the case of similar injuries. List all injuries by official medical sources first. Police reported injuries may be used, but only when no other source of injury information is available.

Were more than ten (10) injuries sustained? \_\_\_\_\_ Unknown, \_\_\_\_\_ No, \_\_\_\_\_ Yes - If more than ten dissimilar injuries were identified during the interview, from collection of official data, and from other unofficial sources (excluding police), list those from the official records first, exhausting that level of data before listing those from the interviewee or other sources.

	ISS Body Region	OIC Body Region	Aspect	Lesion	System/ Organ	A.I.S. Severity	Injury Source	Direct/ Indirect Injury	Source of Data	Source of Data
1	—	—	—	—	—	—	—	—	—	(01) Autopsy records with or without hospital medical records
2	—	—	—	—	—	—	—	—	—	(02) Hospital medical records other than emergency room (e.g. discharge summary)
3	—	—	—	—	—	—	—	—	—	(03) Emergency room records only (including associated x-rays or other lab reports)
4	—	—	—	—	—	—	—	—	—	(04) Private physician walk-in or emergency clinic
5	—	—	—	—	—	—	—	—	—	Unofficial
6	—	—	—	—	—	—	—	—	—	(05) Lay coroner report
7	—	—	—	—	—	—	—	—	—	(06) E.M.S. personnel
8	—	—	—	—	—	—	—	—	—	(07) Interviewee
9	—	—	—	—	—	—	—	—	—	(08) Other source
10	—	—	—	—	—	—	—	—	—	(09) Police
										(99) Unknown if injured
										(00) Not injured

ISS Body Region

- (1) Head or neck
- (2) Face
- (3) Chest
- (4) Abdominal or pelvic contents
- (5) Extremities or pelvic girdle
- (6) General (external)
- (0) Not injured
- (9) Unknown

OIC Body Region

- (M) Abdomen
- (Q) Ankle - foot
- (A) Arm (upper)
- (B) Back - thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head - skull
- (U) Injured - unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck - cervical spine
- (P) Pelvic - hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body
- (W) Wrist - hand
- (0) Not injured
- (9) Unknown if injured

Aspect of Injury

- (A) Anterior - front
- (C) Central
- (I) Inferior - lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior - back
- (R) Right
- (S) Superior - upper
- (W) Whole region
- (0) Not injured
- (9) Unknown if injured

Lesion

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush
- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured, unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance transection
- (0) Not injured
- (9) Unknown if injured

System/Organ

- (W) All systems in region
- (A) Arteries - veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured - unknown system
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary - lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid - other endocrine gland
- (G) Urogenital
- (V) Vertebrae
- (0) Not injured
- (9) Unknown if injured

Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Serious injury
- (4) Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured - unknown severity
- (0) Not injured
- (9) Unknown if injured

**National Accident Sampling System - Continuous Sampling Subsystem: Occupant Data**

Page \_\_\_\_\_

<p>Injury Source (00) No injury</p> <p><b>FRONT</b> (01) Windshield (02) Mirror (03) Sunvisor (04) Steering wheel rim (05) Steering wheel hub spoke (06) Steering wheel combination of codes 04 and 05 (07) Steering column transmission selector lever other attachment (08) Add on equipment (e.g. CB tape deck, air conditioner) (09) Left instrument panel and below (10) Center instrument panel and below (11) Right instrument panel and below (12) Other front object (specify)</p> <hr/> <p><b>SIDE</b> (13) Side interior surface excluding hardware or armrests (14) Side hardware or armrest (15) A pillar (16) B pillar (17) Other pillar (specify)</p> <hr/> <p>(18) Window glass or frame (19) Other side object (specify)</p> <hr/> <p><b>INTERIOR</b> (21) Seat back support (22) Belt restraint system (23) Head restraint system (24) Air cushion (25) Other occupants (specify)</p> <hr/> <p>(26) Interior in-use objects (29) Other interior object (specify)</p>	<p><b>ROOF</b> (31) Front header (32) Rear header (33) Roof side rails (34) Roof or convertible top</p> <p><b>FLOOR</b> (41) Floor (42) Floor or console mounted transmission lever including console (43) Parking brake handle (44) Foot controls including parking brake</p> <p><b>REAR</b> (45) Backlight (rear window) (46) Backlight storage rack door etc (49) Other rear object (specify)</p> <hr/> <p><b>EXTERIOR of NONMOTORIST'S VEHICLE</b> Nonvehicle (51) Hood (52) Outside hardware (e.g. outside mirror antenna) (53) Other exterior surface or tires (specify) (59) Unknown exterior objects</p> <p>Cycle (61) Handle bars or attachments (62) Frame or suspension component or fender (63) Seat (64) Foot pedal foot rest foot pegs (65) Wheel or tire (66) Engine or transmission (67) Gas tank gas tank filler cap or neck (69) Other cycle part (specify)</p>	<p><b>EXTERIOR of STRIKING MOTOR VEHICLE</b> (71) Front bumper (72) Hood edge (73) Other front of vehicle (specify)</p> <hr/> <p>(74) Hood (75) Hood ornament (76) Windshield roof rail A-pillar (77) Side surface (78) Side mirrors (79) Other side protrusions (specify)</p> <hr/> <p>(80) Rear surface (81) Undercarriage (82) Tires and wheels (83) Other exterior of striking motor vehicle (specify)</p> <hr/> <p>(84) Unknown exterior of striking motor vehicle</p> <hr/> <p><b>OTHER VEHICLE or OBJECT in the ENVIRONMENT</b> (86) Ground (87) Other vehicle or object (specify)</p> <hr/> <p>(89) Unknown vehicle or object</p> <hr/> <p><b>NONCONTACT INJURY</b> (90) Noncontact injury source (97) Injured unknown source (99) Unknown if injured</p> <hr/> <p><b>DIRECT INDIRECT INJURY</b> (0) No injury (1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured unknown source (9) Unknown if injured</p>
--	---	--

**OCCUPANT INJURY CLASSIFICATION**

If there are six or less injuries listed in the O.I.C. reduction section, code all of the injuries ordered by Source of Data (1st-autopsy, 2nd-hospital medical, 3rd emergency room, 4th private physician, or 5th-unofficial sources) and by A.I.S. severity within source.

If there are more than six injuries, order the injuries by source and by A.I.S. severity within source. Code this ordering injury by injury. If a group of ordered injuries has the same source, the same A.I.S., and the group includes at least the sixth and seventh injuries in the ordering, then a choice must be made as to which injury or injuries to code.

Choose the injury or injuries that will enable the maximum number of different I.S.S. body regions to be represented in the coded data. If no new I.S.S. body region can be added, then simply code in accordance with the original ordering.

If the occupant has less than six injuries, then the number of rows required to be completed is equal to the number of injuries plus one (e.g. no injuries requires one row, i.e. columns 45 to 54). In the additional row, "No Injury" will be coded for all variables, including A.I.S. severity.

If you cannot increase the number of different I.S.S. body regions or if you can choose between two or more injuries of the same source and A.I.S. severity, any of which would constitute an additional I.S.S. region, then choose the injury that has a known injury source.

Update Candidate  Yes  No

	I.S.S. Body Region	O.I.C. Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Direct Indirect Injury	Source of Data							
1st	31	45	32	46	33	47	34	48	35	49	36	80 81	57	82	18	83 84
2nd	39	86	40	86	41	87	42	88	43	88	44	80 81	45	82	16	83 84
3rd	47	85	48	86	49	87	50	88	51	88	52	70 71	53	72	14	73 74
4th	55	75	56	76	57	77	58	78	59	79	60	80 81	61	82	12	83 84
5th	63	85	64	86	65	87	66	88	67	88	68	80 81	69	82	10	83 84
6th	71	85	72	86	73	87	74	88	75	88	76	100 101	77	102	8	103 104

SECTION 07

**OFFICIAL RECORDS**

79 Injury Severity (Police Rating)

- \_\_\_ (0) No injury (O)
- \_\_\_ (1) Possible injury (C)
- \_\_\_ (2) Nonincapacitating injury (B)
- \_\_\_ (3) Incapacitating injury (A)
- \_\_\_ (4) Killed (K)
- \_\_\_ (5) Injury, severity unknown
- \_\_\_ (6) Died prior to accident
- \_\_\_ (9) Unknown

105

80 Time to Death

- \_\_\_ (00) Not fatal

\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days (Note 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)

- \_\_\_ (96) Fatal - ruled disease
- \_\_\_ (99) Unknown

106 107

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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, interviewees and vehicle registration.

If the make of the vehicle is known, but if the model is not known, then Vehicle Model is coded as "99" (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 and Vehicle Model are coded "99" (Unknown), and the body type is coded with the appropriate value.

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

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

- 01-28. 99 - domestic passenger car (automobile)
- 31-58. 99 - foreign passenger car (automobile)
- 60-68. 99 - motored cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mo-peds)
- 70-78. 99 - light trucks (including truck based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, van based station wagons, van based buses, van derivatives, and truck based station wagons)
- 80-90. 99 - trucks and buses [includes all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under Body Type code "50" (Pickup), and all buses except those that are van based]

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, trucks/buses, other and unknown have specific definition. These definitions are:

Motored Cycles

-----  
 61 0-50cc  
 62 51-124cc  
 63 125-349cc  
 64 350-449cc  
 65 450-749cc  
 66 750cc or over  
 99 Unknown

Trucks/Buses

-----  
 80 Motor Home  
 81 Medium/Heavy: CBE  
 82 Medium/Heavy: COE, low entry  
 83 Medium/Heavy: COE, high entry  
 84 Medium/Heavy: unknown engine location  
 +85 Bus: Conventional (engine out front)  
 86 Bus: flat front, front engine  
 87 Bus: flat front, rear engine  
 88 Other (truck)  
 90 Medium/Heavy: COE, unk. entry position  
 99 unknown

+use code "85" (Bus) if the frontal plane or the engine location is unknown.

Other make (98)

-----  
 28 Other domestic automobile  
 58 Other foreign automobile  
 78 Other light truck  
 88 Other truck  
 97 Other (e.g., snowmobile, gocart)

Other make (99)

-----  
 99 Unknown\*

\*Use this code even if you know more detail about the model than this code indicates (e.g., unknown pickup truck, unknown CBE tractor semitrailer, unknown bus, or unknown car pickup body). Body Type, is available to code the additional information.

Vehicle Make, Vehicle Model and Body Type, have to be used in conjunction; therefore refer to Remarks under the data elements Vehicle Make and Body Type in the NASS Coding and Editing Manual.

VEHICLE FORM

Variable Name: Vehicle Model

Format: 2 columns - numeric

Beginning  
column 22

Element Values:

Model Code	Vehicle Line	Includes	Model Years
American Motors (01)			
01	Rambler/American	Rogue, 220, 440, Scrambler	
02	Rebel/Matador	550, 770, 660, Classic, Brougham, Barcelona X, Marlin	
03	Ambassador	880, 990, SSt, DPL, Brougham	
04	Pacer	DL, Limited	68-70
05	AMX	(2-seater)	
06	Javelin	SST, AMX (1971-1974)	
07	Hornet/Concord	SST, Sportabout, AMX (1975-1978), Limited DL, SC 360	
08	Spirit/Gremlin	Limited, DL, Custom, AMX (1979 On), GT (1983 on)	
09	Esale	DL, Limited	80 on
10	SX4/Kamback	DL, Limited	81 on
*	Alliance/Encore		
28	Other (domestic automobile)		
72	Espace (Mini-Van)		
99	Unknown		

Jeep (02)

01	CJ-2/CJ-3/CJ-4	Military	
02	CJ-5/CJ-6/CJ-7/ CJ-8	Scrambler, Golden Eagle, Renegade, Laredo	
71	Cherokee	Wide Track, Chief, Commando, Jeepster	
73	Pick-up	J-10, J-20, Honcho	
76	Wagoneer	Custom, Brougham Limited	
77	Comanche		86 on
78	Other (light truck)		
28	Other (domestic automobile)		
99	Unknown		

\*See Renault

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Dodge (07) (cont'd.)</u>			
14	600	ES	83 on
15	Daytona	Turbo, Z	84 on
16	Lancer	Pacifica	
17	Shadow		86 on
33	Challenger-foreign		78 on
34	Colt	GT, Custom, Carousel, RS	
35	Conquest		86 n
43	Colt Pickup, Vista Van	Power Ram, Ram 50	
71	Ramcharger	Ram	
72	Caravan	S-Van, Mini Ram Van	84 on
73	B, W-Series Pickup	Ram, Custom, Royal, Miser	
74	Van	Sportsman Van, Royal, Maxiwagon, Ram	
75	Van Derivative	Karivan	
77	Dakota/D50		
81	Medium/Heavy: CBE		
82	Medium/Heavy: COE, low entry		
83	Medium/Heavy: COE, high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus (not van based)		
88	Other (truck)		
28	Other (domestic automobile)		
90	Medium/Heavy: COE, unk. entry position		
99	Unknown		
<u>Imperial (08)</u>			
10	Imperial	Imperial LeBaron	thru 75
28	Other (domestic automobile)		
99	Unknown		
<u>Plymouth (09)</u>			
01	Valiant/Duster/ Scamp	100,200, Taxi, Brougham, Signet, Custom, Special 340, Special 360 340, 360	thru 76

## VEHICLE FORM

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Plymouth (09) (cont'd.)</u>			
02	Satellite/ Belvedere	Belvedere I, II, GTX, Road Runner (through 1974), Brougham, Sebring, Sebring Plus, Superbird	
03	Fury	I, II, III, Road Runner (1975), Suburban, Salon, VIP, Sport	
04	Gran Fury	Sedan, Brougham, Custom, Sport, Suburban	
05	Barracuda	Formula "S", 340, Gran Coupe, AAR Cuda	
06	Volare	Custom, Premier, Road Runner (1976 on), Police	
07	Caravelle		
08	Horizon	TC-3, Turismo, Miser, Turismo 2.2, Custom, SE, Duster	
11	Reliant (K)	Custom, SE	
13	Scamp (car based pick-up)	GT	82 on
17	Sundance		86 on
31	Cricket		
32	Arrow	GS, GT, Fire Arrow	
33	Sapporo		
34	Champ/Colt	Custom	
35	Conquest		
71	Trailduster		
72	Voyager	S-Van	84 on
74	Van (Voyager)	Sport, Premier	
77	Arrow pickup (foreign)		
78	Other (light truck)		
28	Other (domestic automobile)		
99	Unknown		
<u>Ford (12)</u>			
01	Falcon	Falcon-Futura (through 1969)	thru 70
02	Fairlane	500, 500 XL, Fairlane-Torino (1968-70)	thru 70
03	Mustang/Mustang II	Mach I, Boss, Grande, Cobra, Cobra II, Ghia, SVO, GT	
04	Thunderbird	All sizes, Town Landau, Heritage	
05	LTD II	Squire, Brougham	77-79
06	LTD/Galaxy/ Custom	XL, Landau, Ranch Wagon, County Squire, S, 500, 500 XL, Brougham, Crown Victoria (81 and 82)	
07	Ranchero (car based pick-up)	500, GT, Squire, Custom	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Ford</u> (12) (cont'd.)			
08	Maverick	Grabber	70-77
09	Pinto	MPG, Pony, ESS	71-80
10	Torino/Gran Torino	Elite, GT, Cobra, Sport, Squire, Brougham	71-76
11	Granada	Ghia, L, GL, GLX	75 on
12	Fairmont	Fairmont-Futura (1978-1981)	78 on
13	Escort	L, GL, GLX, SS, GT	81 n
14	EXP	Turbo	82 on
15	Tempo	L, GL, GLX, Sport 4x4	83 on
16	Crown Victoria		83 on
17	Taurus		86 on
31	English Ford	(e.g., Cortina)	
32	Fiesta		78-80
33	Laser	GL Ghia, GL Sport	83 on
70	Bronco II	Ranger based	83 on
71	Bronco	Full size truck based	
72	Aerostar		
73	F-Series Pickup	F-100 to F-350	
74	Van	E-Series, Econoline, Club Wagon, Chateau, Cutaway based (e.g., box van, van bus/RV)	
75	Van derivative	Parcel	
77	Ranger	Super Cab, Courier (Import)	82 n
78	Other (light truck)		
81	Medium/Heavy: CBE	F-500 through F-800, L/LN/LNT/LT/LS/LTS-series, FT8000, FT800D, FT800	
82	Medium/Heavy: COE low entry	C/CT-series	
83	Medium/Heavy: COE, high entry	C/CLT-series	
84	Medium/Heavy: unk. engine location		
85	Medium Bus	B-series (not van based)	
88	Other (truck)		
90	Medium/Heavy: COE, unk. entry position		
28	Other (domestic automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Lincoln</u> (13)			
01	Lincoln	Lincoln Continental (thru 81), Town Car (82 on)	
02	Mark	I, II, III, IV, V, VI, VII	
05	Continental		82 on
11	Versailles		77-80
28	Other (domestic automobile)		
99	Unknown		

Mercury (14)

02	Cyclone	GT, CJ, Spoiler	thru 71
03	Capri-Domestic		79 n
04	Cougar	Villager, Brougham, XR7 (thru 80)	67 on
05	Cougar XR7		81 on
06	Marquis/Monterey	Marauder, X-100, Parklane, Colony Park, S-55, Custom, Brougham, Grand (thru 82), Montclair	67 on
08	Comet	Caliente, Capri (1966-1967), GT, Voyager, 202	
09	Bobcat		75-80
10	Montego	GT, MX, Villager, Brougham	67-76
11	Monarch	Ghia	75-81
12	Zephyr	Z7, GS	78 on
13	Lynx	L, LS, GS, RS, XR3	81 on
14	LN7		82-83
15	Topaz	L, LS, GS	83 on
16	Grand Marquis		83 on
17	Sable		86 on
31	Capri-foreign	Capri (1970-1978), Capri II	70-78
33	Pantera		
34	Merkur	XR4T	
35	Scorpio		87 on
28	Other (domestic automobile)		
99	Unknown		

Buick (18)

01	Regal/Century/ Special	GS, GS350, GS400, GS455, Luxus, Skylark, (thru 1972), Sportswagon, Wagon, Custom Special, Sport Coupe, Limited	thru 81
02	LeSabre/Wildcat/ Centuri n	Estate Wagon, Cust m, Luxus, Sport Coupe, Wagon, Limited, Invicta	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Buick</u> (18) (cont'd.)			
03	Electra/Electra 225	Custom, Limited, Park Avenue, Wagon	
05	Riviera	"S" Type, "T" Type	
08	Apollo	S/R, Skylark (1975)	73-75
10	Regal	G-car, "T" Type, Grand National	82 on
12	Skyhawk	"S" Type, Road Hawk	75-81
15	Skylark	Limited, Sport, S/R, "S", Custom (see code 01), "T" Type, "T" Type Custom	76 on
16	Skyhawk	J-car, "T" Type	82 on
17	Century	A-car, "T" Type	82 on
18	Somerset Regal	N-car	85 on
31	Opel Kadett		thru 75
32	Opel Manta/1900	Luxus, Rallye, Sports Coupe	thru 75
33	Opel GT		thru 75
34	Opel Isuzu	Deluxe, Sport	76-79
28	Other (domestic automobile)		
99	Unknown		
<u>Cadillac</u> (19)			
03	DeVille/Brougham	Calais, 60-Special, Coupe, Sedan, Fleetwood	
04	Limousine	Fleetwood 75, Formal	
05	Eldorado	Touring Coupe, Biarritz	
09	Allante		87 on
06	Commercial Series	(e.g., ambulance, hearse)	thru 81
14	Seville	Elegante	76 on
16	Cimarron	J-car, D'oro	82 on
28	Other (domestic automobile)		
99	Unknown		
<u>Chevrolet</u> (20)			
01	Malibu/Chevelle	Classic, Councours, Laguna, S-3, Nomad Greenbriar, Estate, 300, SS-396/454, Deluxe	64 on
02	Caprice/Impala	Classic, Kingswood, Townsman, Estate, Brookwood, Super Sport, Bel Air, Biscayne	
04	Corvette	Stingray	53 on
06	Corvair	Corvair Monza, 500, Corvair Spyder, Corsa	thru 69
07	El Camino	Royal Knight	59 on

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>M del Years</u>
<u>Chevrolet (20) (cont'd.)</u>			
08	Nova	Chevy II, Chevy Nova, LN, LE, Concours	thru 79
09	Camaro	SS, LT, Z-28, Berlinetta, Iroc-Z	67 on
10	Monte Carlo	G-car, SS	70 on
11	Vega	GT, Cosworth, Kammback	71-77
12	Monza	2 + 2, Spyder, Sport, Towne Coupe	75-80
13	Chevette	Scooter	76 on
15	Citation	X-car, X-11	80 on
16	Cavalier	J-car, CS, RS, Z24	82 on
17	Celebrity	A-car, Wagon, Eurosport	82 on
19	Baretta/Corsica		87 on
31	Spectrum (Isuzu made)		
32	Nova (Toyota)		86 on
33	Sprint		
70	Blazer	S-10 based	83 on
71	Blazer	Full size truck based	
72	Astro Van	LUV pickup	
73	C, K-Series Pickup		
74	G-Series Van	Beauville, Chevy Van, Sport Van	
75	Van Derivatives	P-Series, Parcel Van	
76	Suburban		
77	S-10		82 n
78	Other (light truck)		
81	Medium/Heavy: CBE	C50, C60 and C65 series, M60 and M65 series, H70, H80 and H90 series, J70, J80 and J90 series, Bison 90	
82	Medium/Heavy: COE low entry	T60 and T65 series	
83	Medium/Heavy: COE high entry	Titan 90	
84	Medium/Heavy: unk. engine location	PS6500, P6T042	
85	Bus	S60 series	
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		
28	Other (domestic automobile)		
99	Unknown		

## Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Oldsmobile (21)</u>			
01	Cutlass	Supreme, Calais, Cruiser, "S", "LS", Salon, Brougham, Vista Cruiser, 442, F-85 (thru 1972), Rallye 350, Hurst Olds	
02	Delta 88	Royale, Custom, Custom Cruiser, Jetstar 88, Delmont 88, Delta, Starfire (thru 1966)	
03	Ninety-Eight	Regency, Luxury	
05	Toronado	Brougham, XSR, Custom	
06	Commercial Series	Chassis Cowl, CKD Chassis	
12	Starfire	"SX"	75-80
15	Omega	Brougham, Salon, F-87, F-85 (1975 on), X-car (1980 on)	73 on
16	Firenza	J-car	82 on
17	Ciera	A-car, Cutlass Ciera, ES, Brougham	82 on
18	Calais	N-car	85 on
28	Other (domestic automobile)		
99	Unknown		
<u>Pontiac (22)</u>			
01	LeMans/Tempest	Grand Am, Safari, T-37, Grand Sport, Luxury, Custom, GTO (thru 1973), Judge, GT-37, Sprint	
02	Bonneville/ Catalina/Parisienne	Brougham, Grand Safari, Safari, GrandVille, Executive, 2 + 2, Starchief	
05	Fiero	P-car, 2M4	84 on
08	Ventura	SJ, Custom, II, Sprint, GTO (1974 on)	71-77
09	Firebird/Trans Am	Esprit, Formula, Skybird, Redbird, Yellowbird, Spring	68 on
10	Grand Prix	LJ, SJ, Brougham, G-car	
11	Astre	Safari, Wagon, SJ, Custom	75-77
12	Sunbird	Sport, Safari, Wagon	76 on
13	T-1000/1000		81 on
15	Phoenix	LJ, SJ, X-car, (1980 on)	78 on
16	J-2000/2000	J-car, Sunbird Convertible, LE, SE	82 on
17	6000	A-car, STE	82 on
18	Grand Am	N-car	85 on
28	Other (domestic automobile)		
99	Unknown		
<u>GMC (23)</u>			
07	Caballero/Sprint		
70	Jimmy	S-15 based	83 on

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>GMC (23) (cont'd.)</u>			
71	Jimmy	Full sized truck based	
72	Safari (Mini-Van)		
73	C, K-Series Pickup		
74	G Van/Vandura, Rally Van		
75	Van Derivatives	P-series, Value Van, Magnavan	
76	Suburban		
77	S-15		82 n
78	Other (light truck)		
81	Medium/Heavy: CBE	C-5000, C-6000, C-7000 series, Brigadier 8000, Brigadier 9500, General 9500	
82	Medium/Heavy: COE low entry	W-6000, W-7000	
83	Medium/Heavy: COE high entry	Astro 95	
84	Medium/Heavy: unk. engine location	P5G500, P68042	
85	Bus	B-6000	
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		
28	Other (domestic automobile)		
99	Unknown		

Other domestic (29)

01	Studebaker/Avanti		
02	Checker		
28	Other (domestic automobile (e.g., Desoto)		

Volkswagen (30)

31	Karmann Ghia		
32	Beetle		
33	Super Beetle		
34	411/412	Squareback, Fastback	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
-------------------	---------------------	-----------------	--------------------

Volkswagen (30) (cont'd.)

35	Squareback/ Fastback	Type 3, 1600	
36	Rabbit	L, GTI Sport, LS Custom, GL Deluxe	
37	Dasher		
38	Scirocco		
39	The Thing		
40	Jetta		
41	Quantum		
42	Golf	Syncro	85 on
43	Rabbit Pickup		
74	Van/Vanagon/Camper		
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		

Alfa Romero (31)

31	Spider	Veloce, 2000/1750, all roadsters	
32	Sports Sedan	Alfetta, Berlina, 2000/1750, Giulia Super, 4 door sedans, Milano (86 on)	
33	Sprint Veloce	Alfetta GT 2000 GTV, 1750 GTV, Giulia Sprint GT, all 2 door coupes	
34	GTV-6		
58	Other (foreign automobile)		
99	Unknown		

Audi (32)

31	Super 90		
32	100	LS, GL	
33	Fox		
34	4000		
35	5000	Coupe	
36	Quattro		82 on
58	Other (foreign automobile)		
99	Unknown		

Austin/Austin Healey (33)

31	Marina	GT	
32	America		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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Austin/Austin Healey (33) (cont'd.)

33	Healey Sprite		
34	Healey 3000	Healey 100	
35	Mini		
58	Other (foreign automobile)		
99	Unknown		

BMW (34)

31	1600, 2002	Tii	
32	Coupe	3.OCS, 2800 CS	
33	Bavaria Sedan	2500, 2800	
34	630, 633		
35	320i, 318i, 325E		
36	524i, 528i, 530i 533i	TD, Automatic	83 on
37	733i		
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
58	Other (foreign automobile)		
99	Unknown		

Datsun/Nissan (35)

31	F-10		
32	200 SX		
33	B210/210/1200	Honeybee	
34	240/260/280/300	Z, ZX, 2 + 2	
35	310		
36	510	PL	
37	610	PL	
38	710	PL	
39	810/Maxima	Maxima	
40	Roadster (SPL 311/ SRL 311)	1600/2000 Convertible	thru 70

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Datsun/Nissan</u> (35) (cont'd.)			
41	PL 411/RL 411		
42	Stanza	XE	82 on
43	Sentra		83 on
44	Pulsar	NX, EXA (86 on)	83 on
70	MPV		86 on
77	Pickup		
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Fiat</u> (36)			
31	124 (Coupe/Sedan)	Sport	
32	124 (Spider)	Spider 2000	
33	Brava/131		
34	850 (Coupe & Spyder)		
35	128		
36	X-1/9		
37	Strada		
58	Other (foreign automobile)		
99	Unknown		
<u>Honda</u> (37)			
31	Civic	1300, 1500, CVCC	
32	Accord	LX, CVCC	
33	Prelude		
34	600	Coupe, Sedan	
35	Civic-CRX	2 seater	
36	Acura	HX, Integra	86 n
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
58	Other (foreign automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Isuzu</u> (38)			
31	I Mark	Gemini	
32	Impulse		83 on
33	Aska		87 on
70	Trooper II		84 on
77	P'up (Pick-up)	Rodeo, Space Cab	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Jaguar</u> (39)			
31	XJ-S Coupe		
32	XJ6/XJ12 Sedan/Coupe L, XJ, C, 420/340 Sedans		
33	XK-E	2 + 2, V-12 Roadster, 120	
58	Other (foreign automobile)		
99	Unknown		
<u>Lancia</u> (40)			
31	Beta Sedan /HPE		
32	Beta Coupe/Zagato		
33	Scorpion		
58	Other (foreign automobile)		
99	Unknown		
<u>Mazda</u> (41)			
31	RX2		
32	RX3		
33	RX4		
34	RX7	GLE, SE	
35	GLC/323		
36	Cosmo		
37	626		
38	808		
39	Mizer		thru 76
40	R-100		thru 72
41	618/616		
42	1800		
43	929		86 on
77	Pick-up	B-2200, B-2000, SE5, Cab Plus, LX	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Mazda (41) (cont'd.)</u>			
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Mercedes-Benz (42)</u>			
31	200/220/230/240/ 250/280/300 (Sedan and 5 passenger "C" only)	SE, CD, D, SD, TD, CE, E [excludes 280 S, 280 SE (1975 on), 300 SD Sedan (see Code 37]	
32	230 SL/280 SL (2 passenger)		
33	350 SL/450 SL/380 SL		
34	350 SLC/ 450 SLC/380 SLC		
35	300 SEL/280 SEL	TD-T, TD, CDT	
36	450 SEL/380 SEL/ 500 SEL/500 SEC		
37	450 SE/380 SE	280 S, 280 SE (1975 on), 300 SD Sedan	
38	600/6.9 Sedan	Pullman	
39	190		
75	Van Derivative	Kurbstar	82 on
81	Medium/Heavy: CBE		
82	Medium/Heavy: COE low entry		
83	Medium/Heavy: COE high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus		
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		
58	Other (foreign automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>MG (43)</u>			
31	MG Midget		
32	MGB		
33	MGB GT		
34	MGA		
35	TA/TC/TD/TF		
36	MGC	MGC/GT	
58	Other (foreign automobile)		
99	Unknown		
<u>Mitsubishi</u>	See V14 Code (52) listed after Volvo		
<u>Opel</u>	See Buick--(18)		
<u>Peugeot (44)</u>			
31	304		
32	403		
33	404		
34	505/504	STI	
35	604	SL, D	
58	Other (foreign automobile)		
61	0-50 cc		
62	51-124 cc		
99	Unknown		
<u>Porsche (45)</u>			
31	911	S, E, T, SC, Carrera	
32	912/912E		
33	914	914/S	
34	924	Turbo	
35	928	S	
36	930/Turbo		82 n
37	944		
38	959		86 on
58	Other (foreign automobile)		
99	Unknown		

## Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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Renault (46)

31	LeCar	5	
32	10/Dauphine/ Caravelle/R-8		
33	12	R12	
34	15	R15TL	
35	16		
36	17	R17, Gordini Coupe	
37	R18i		
38	Fuego	TL, TS, GTL, GTS	
39	Alliance	L, DL, Limited	83 on
40	Encore		
41	Alpine GT		87 on
58	Other (foreign automobile)		
99	Unknown		

Saab (47)

31	99/99E/900/9000	Turbo	
32	Sonnet	Sonnet III, Sonnet 97	
33	95/96/97		
58	Other (foreign automobile)		
99	Unknown		

Subaru (48)

31	FE/GF/DL/STD/GL/G/ GLF	4 wheel drive, Turbo 4x4	
32	Star		
33	360		
43	Brat	DL, GL	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		

Toyota (49)

31	Corona	Custom, Deluxe, Mark II, 1900, 2000	
32	Corolla	1100, 1200, 1600, Deluxe, Custom, SR 5, LE	
33	Celica	1900, 2000, GTS	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Toyota</u> (49) (cont'd.)			
34	Celica Supra	Soarer	
35	Cressida		
36	Crown	2300, 2600	
37	Carina	2000	
38	Tercel	4WD Wagon, Corolla-Tercel	
39	Starlet		
40	Cambry		
41	MR2	(2-seater)	85 on
*	Nova	See Chevrolet	
70	4-Runner		
71	Landcruiser		
72	Mini-Van		
77	Pickup	Chinook, LN44, Wonder Wagon, SR5, Extra Cab Sport	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		

Triumph (50)

31	Spitfire	I, II, III, IV, 1500	
32	GT6		
33	TR4	TR3, TR2, TR4A	
34	TR6		
35	TR7/TR8		
36	Herald	Vitesse	
37	Stag		
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or more		
58	Other (foreign automobile)		
99	Unknown		

Volvo (51)

31	122	S	
32	142/144/145	S, Deluxe, GL, GLS, E	
33	164	S, E	

## Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Volvo</u> (51) (cont'd.)			
34	242/244/245	Deluxe, DL, GLE, GLT, GL	
35	262/264/265	GL	
36	1800	E, S, ES	
37	P-544		
38	760/780		83 on
39	740	GLE	
81	Medium/Heavy: CBE		
82	Medium/Heavy: COE, low entry		
83	Medium/Heavy: COE, high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus		
88	Other (truck)		
90	Medium/Heavy: COE, unk. entry position		
58	Other (foreign automobile)		
99	Unknown		
<u>Mitsubishi</u> (52)			
31	Starion	2 + 2	83 on
32	Tredia		83 on
33	Cordia		83 on
34	Galant		
70	Montero		
72	Mini-Van		83 on
77	Pickup		
58	Other (foreign automobile)		
99	Unknown		
<u>Suzuki</u> (53)			
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
70	SJ - 410	Samurai SJ-413	
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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Other Import (59)

31	Aston Martin		
32	Bricklin		
33	Citroen		
34	Delorean		
35	Ferrari		
36	Hillman		
37	Jensen		
38	Lamborghini		
39	Lotus		
40	Maserati		
41	Morris		
42	Rolls Royce/Bentley		
43	Rover		
44	Simca		
45	Sunbeam		
46	TVR		
47	Daihatsu		
48	Desta (APV-utility)		
49	Reliant (British)		
50	Yugo		
51	Hyundai		
58	Other (foreign automobile) [e.g., Morgan, Singer]		

## MOTORED CYCLE (60-69)

V13

<u>BMW</u>	(34)
<u>BSA</u>	(60)
<u>Ducati</u>	(61)
<u>Harley-Davidson</u>	(62)
<u>Honda</u>	(37)
<u>Kawasaki</u>	(63)
<u>Moto-Guzzi</u>	(64)
<u>Norton</u>	(65)
<u>Suzuki</u>	(53)
<u>Triumph</u>	(50)
<u>Yamaha</u>	(67)
<u>Other Motored Cycle</u>	(69)

V14

61	0- 50 cc
62	51-124 cc

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
	<u>V14 (cont'd.)</u>		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
99	Unknown		

V13Mo-ped (70)V14

61	0- 50 cc
62	51-124 cc
99	Unknown

TRUCKS AND BUSES (80-83, 85-88)

V13Brockway (80)Diamond Reo or Reo (81)Freightliner or White Freightliner (82)FWD (83)Kenworth (85)Mack (86)Peterbilt (87)White (88)V14

80	Motor Home
81	Medium/Heavy: CBE
82	Medium/Heavy: COE, low entry
83	Medium/Heavy: COE, high entry
84	Medium/Heavy: unknown engine location
+85	Bus: conventional (engine out front)
86	Bus: flat front, front engine
87	Bus: flat front, rear engine
88	Other (truck)
90	Medium/Heavy: COE, unk. entry position
99	(Unknown Model)

+Use code "85" (Bus) if the frontal plane or the engine location is unknown.

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>International Harvester (84)</u>			
71	Scout	Scout II, Utility Pickup, SS-2, Roadstar, Terra Traveltop, 800 Series, Traveler	
73	Pickup/Panel	R100, 900A-1500C, 1000D-1500D, 1010-1510, 100-500	
75	Multistop	Metro RM 120-160, MS1210, MS1510	
76	Travellall	1010-1210, 100-200	
78	Other (light truck)		
80	Motor Home	1310 MHC, 1500 MHC	
81	Medium/Heavy: CBE	Loadstar/Fleetstar, Paystar, CBE Transstar (4200), S-Series, Mixer	
82	Medium/Heavy: COE, low entry	CO, VCO, DCO (190-1950), Cargostar, LFM 5370 (Garbage)	
83	Medium/Heavy: COE, high entry	DCO, DCOT, UCO, VCOT, (405 Series), COE Transstar, Unistar, Conco 707B, 9600 Series	
84	Medium/Heavy: unk. engine location		
85	Bus: Conventional	R153-1853, Loadstar 1603-1853	
86	Bus: flat front, front engine	173 FC, 183 FC	
87	Bus: flat front, rear engine	183RE, 193RE, (transit)	
88	Other (truck)	Fire Truck - R140-R306, CO 8190	
90	Medium/Heavy: COE, unk. entry position		
99	Unknown		

Other (Truck or Bus) (95)

01	Autocar		
02	Auto-Union-DKW		
03	Divco		
04	Western Star		
05	IVECO/MAGIRUS		
78	Other (light truck)*		
88	Other (truck+) (e.g., Oshkosh, Grumman)		

Other make (98)

97	Other (e.g., snowmobile, go-cart)		
99	Unknown**		

\* Use code "88" (other (truck)) if the vehicle's GVWR is unknown.

\*\* Occurs when make is not explicitly listed and it is unknown whether make is domestic or import.

+ Truck as used here includes (1) any truck of unknown GVWR, (2) medium or heavy trucks, and (3) buses.

## APPENDIX C

### FILE ADJUSTMENTS

#### Decrease in the Number of Teams:

In September 1986, 20 of the 50 NASS PSU's were closed due to budget cuts. The closure of these teams adversely affected the the sampling scheme. Consequently, estimates from the file after August should not be interpreted as nationally representative. Chapter 2 on sampling discusses the meaning of the weights assigned to the cases in 1986.

#### Source Documents Only (SDO):

Occasionally some accident investigation teams have had personnel turnovers or other staffing problems which temporarily reduced their data collection capacity. Reducing the number of cases they investigate would contribute to more variation in the national and ratio weights. Since more credible national estimates are possible from weights with less variation, the number of cases these teams investigate has not been reduced. Instead, they collect less data for some cases.

These cases with less data were coded from official records only i.e., Source Documents Only (SDO). To prevent potential bias, scene measurement, vehicle inspections and interviews were not performed for SDO cases. If part but not all of a team's data collection capacity were lost, then only less severe cases were designated as SDO cases. The potential bias introduced by this practice has not been examined. SDO cases are identified by code "3" in the variable "Type of Case". The numeric variables which have been coded "9" (Unknown) because the case was SDO, have been recoded as ".N" (Not Collected) on the SAS file. The character variables which have been coded " "(Blank) or "9" (Unknown) because the case was SDO, have been recoded as "8" or "98" (Not Collected) on the SAS file. Coding conventions for all variables in SDO cases are included on the following pages:

ACCIDENT FORM

Variable	Source	Or	Code
A01 - A06 A07	Coding Manual		"3" (Source Document Only)
A08 A09	PAR Leave Blank		
A10 - A18 A19	PAR PAR Maps		
A20, A22 A21	PAR		(Unknowns)
A23 A24 - A29	Coding Manual		Driver Form - Var. D07 "0" (No)

PEDESTRIAN AND NONMOTORIST FORM

Variable	Source	Or	Code
P01 - P06 P07	Coding Manual Assigned by Investigator		
P08 P09, P10 P11, P12	PAR PAR/Medical Report		(Unknowns)
P13 - P15 P16 - P19	PAR Omitted		
P20 P21	PAR/Medical Report Medical report		"00" (Not hospitalized) If P20= 0,4-6, or 8
P22	Coding Manual		"97" (No working days lost) for persons over age 65 or under 17 unless fatally injured then code "62" "99" (unknown) for all others unless fatally injured
P23 P24 - P30	Coding Manual Omitted		
P31 - P78 P79, P81, P82 P80, P83, P84	Medical Report/PAR PAR PAR/Medical Report		

VEHICLE FORM

Variable	Source or Code
V01 - V06	Coding Manual
V07	Assigned by Investigator
V08 - V11	PAR
V12 - V14, V17	PAR Vehicle Registration Reference Manuals
V15, V16	PAR Vehicle Registration
V18, V19	PAR
V20 - V27	(Unknowns)
V28	PAR Reference Manuals Vehicle Registration
V29 - V32	PAR Vehicle Registration Reference Manuals
V33 - V35	"8" (no trailer) If V30-V32 ="8", otherwise.
V36 - V37	(Unknown) If V17 (Body Type) = 30-39, 70-78 (Zeros) for all others
V38	Vehicle Registration Reference Manuals
V39	PAR Reference Manuals Vehicle Registration
Page 6	Annotate with phrase, "SDO, no inspection" (Blanks)
Pages 6A-6P	
V40, V41, V48	PAR
V49, V50, V57	PAR
V42 - V47	Coding Manual (Blanks or Unknowns)
V51 - V56	Coding Manual (Blanks or Unknowns)
V58 - V63	(Blanks)
V64	"1"
V65	PAR
V66	(Unknown)
V67 - V77	(Zeros) If V17 (Body Type) = 20-29 (Motorcycles) (Unknowns) for all others
V78 - V83	PAR
Pages 10-11	Annotate with phrase, "SDO, no inspection"
V84	Reference Manuals
V85, V86	(Unknowns)
V87	"6, 7 or 8" (Delta V not calculated) as appropriate (Unknowns)
V88 - V91	
V92	PAR

DRIVER FORM

Variable	Source	Or	Code
D01 - D06	Coding Manual		
D07	Assigned by Investigator		
D08, D09	PAR		
D10 - D15			(Unknowns) (Blanks) if driver not present (D09="2")
D16 - D18	PAR		(Blanks) if D09="2"
D19	Coding Manual		(Blank) if D09="2"
D20			(Unknown) (Blank) if D09="2"
D21	PAR/Medical Report		(Blank) if D09="2"
D22 - D24	PAR		(Blanks) if D09="2"
D25	PAR/Medical Report		(Blank) if D09="2"
D26 - D28	Driver Record/PAR		(Blanks) if D09="2"
D29 - D33	Driver Record		(Blanks) if D09="2"
D34	FHWA state maps		
D35	PAR/FHWA state maps		
D36	FHWA state maps		
D37 - D51			(Unknowns)
D52	PAR		
D53	Statutory law		
D54	PAR		
D55, D56			(Unknowns)
D57	FHWA state maps		
D58	PAR		

OCCUPANT FORM

Variable	Source	Or	Code
001 - 006	Coding Manual		
007, 008	Assigned by Investigator		
009, 010	PAR/Medical Report		
	Driver Record		
011, 012			(Unknowns)
013, 014	PAR		
015 - 019	Coding Manual		(Zeros) If V17 (Body Type) = 20-29 (Motorcycles) (Unknowns) for all others
020	PAR/Medical Report		
021	Medical Report		"00" (Not hospitalized) if D20=0, 4-6, or 8
022	Coding Manual		"97" (No working days lost) for persons over age 65 or under 17 unless fatally injured then code "62" "99" (Unknown) for all others unless fatally injured
023 - 030	PAR		
031 - 078	Medical Report/PAR		
079	PAR		
080	PAR/Medical Report		

## APPENDIX D

### CDC/TDC 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 and the Truck Deformation Classification (T.D.C.) for heavy trucks, per SAE J1301, in the 1986 NASS. The C.D.C. and T.D.C. codes contain eight characters. If there is no C.D.C./T.D.C., these codes are left blank. If there is a C.D.C./T.D.C. these codes are as follows:

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

Clock Direction (C.D.C. or T.D.C.) is coded as follows:

00	Non-horizontal force	08	8 o'clock
01	1 o'clock	09	9 o'clock
02	2 o'clock	10	10 o'clock
03	3 o'clock	11	11 o'clock
04	4 o'clock	12	12 o'clock
05	5 o'clock	13	intra-unit force
06	6 o'clock		(T.D.C. only)
07	7 o'clock	99	Unknown

Incremental Value of Shift (C.D.C. only) 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:

C.D.C.

=====

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

T.D.C.

=====

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

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

C.D.C.

=====

D Distributed--side or end  
L Left--front or rear  
C Center--front or rear  
R Right--front or rear  
F Side front--left or right  
  
P Side center section--L or R  
B Side rear--left or right  
  
Y Side (F + P) or end (L + C)  
Z Side (P + B) or end (C + R)  
9 Unknown

T.D.C

=====

D Distributed--side or end  
L Left--front or rear  
C Center--front or rear  
R Right--front or rear  
F Side front (forward of windshield)  
P Side cab  
W Side rear of cab to rear of tractor  
K Side (P + W)  
S Side (F + P + W)  
B Side rear of cab to rear of trailer or cargo area  
T Side trailer (rear of tractor to rear of trailer)  
Y Side (F + P) or end (L + C)  
Z Side (B + P) or end (R + C)  
9 Unknown

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

C.D.C. (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

T.D.C. (Vertical - Front, Rear, or Side Impacts)  
=====

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

C.D.C. or T.D.C. (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 (C.D.C. only)
S Sideswipe	U No residual deformation
O Rollover (including side)	R Override (T.D.C. only)
A Overhanging structure	
9 Unknown	

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

01	One	08	Eight
02	Two	09	Nine
03	Three	0A	(T.D.C. only) - minor
04	Four	0B	(T.D.C. only) - moderate
05	Five	0C	(T.D.C. only) - severe
06	Six	0D	(T.D.C. only) - extremely severe
07	Seven	0X	(T.D.C. only) - cargo/impacts
		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:

$$\text{DELTA-V} = V \text{ separation} - V \text{ approach}$$

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 axis of that vehicle.

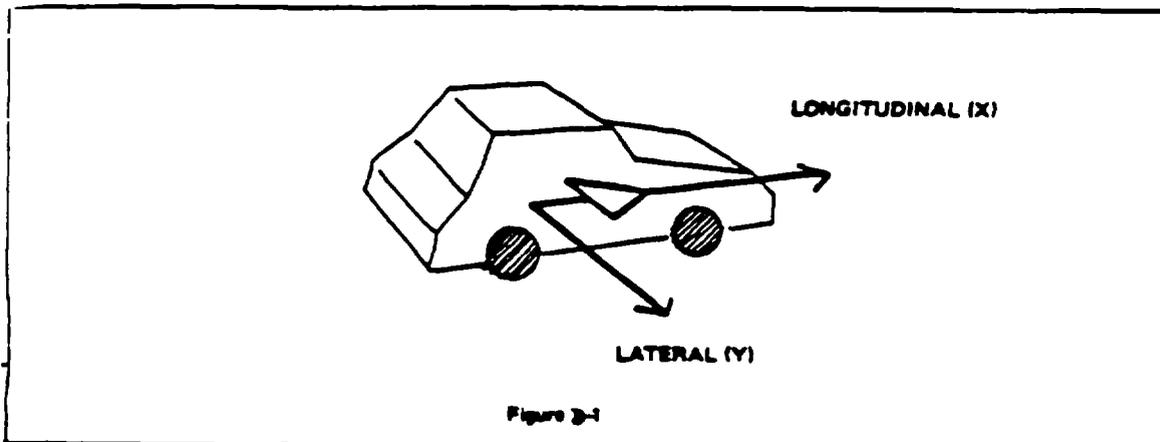


Figure D-1 shows the positive direction of the longitudinal and lateral components of Delta-V. For example, in a head-on collision, a vehicle is decelerated and the initial high positive longitudinal velocity is reduced; thus it will have a negative longitudinal Delta-V.

## 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 - 10,218
- . Total Number of Pedestrian Records - 1,161
- . Total Number of Vehicle Records - 16,919
- . Total Number of Driver Records - 16,919
- . Total Number of Occupant Records - 26,701
- . Total Number of Accident Records with neither Occupants nor Pedestrians - 8
- . Total Number of Accident Records with at least One Pedestrian but no Occupants - 7
- . Total Number of Vehicle Records with at least One Occupant but no Driver - 12
- . Total Number of Vehicle records with no Occupant Record - 85

## 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 50 PSU's are included to give researchers supplementary information on the nature of the PSU's when analyzing NASS data. The 1980 and 1970 population figures are from the decennial censuses. The land area figures are from the County and City Data Book, 1977. The figures on age distribution of the population in 1980 are from Tables 115 and 171, entitled "General Social and Economic Characteristics". The figures pertaining to means of transportation and travel time to work are from Tables 118 and 174 of the same report.

PRIMARY SAMPLING UNIT (PSU) CODES AND DESCRIPTION

<u>VALUES</u>	<u>STRATA</u>	<u>DESCRIPTION</u>
01, 03, 31, 34, 35	1	Central City, one of the 10 largest 1970 SMSA's
36, 51, 63, 78, 85	2	Central city, one of the 11th - 60th largest 1970 SMSA's
08, 09, 28, 32, 79	3	Suburban, one of the 17 largest 1970 SMSA's; low gas sales
06, 29, 37, 38, 61	4	Suburban, one of the 17 largest 1970 SMSA's; high gas sales
10, 33, 39, 52, 56, 80	5	Suburban, one of the 18th - 60 largest 1970 SMSA's, or PSU within 61st - 119th largest SMSA's not containing a central city
04, 27, 57, 82, 87	6	PSU within 61th - 119th largest SMSA's containing a central city
02, 30, 55, 58	7	PSU containing towns with 1977 population over 19,718; low gas sales
07, 11, 26, 59, 81	8	PSU containing towns with 1977 population over 19,718; high gas sales
12, 53, 54, 60, 62	9	PSU with no town with 1977 population over 19,718; low gas sales
05, 13, 14, 76, 83	10	PSU with no town with 1977 population over 19,718; high gas sales

Each of the ten strata comprises approximately one tenth of the 1977 U.S. population. they are not exactly the same size. Consequently when the ten strata are subdivided into fifty substrata, greater equality among the fifty is possible without requiring each of the ten strata to be divided into the same number of substrata. In the fifty PSU design one PSU has been selected from each of these approximately equal substrata.

POPULATION

PSU	1980	1970	LAND AREA
P01	3005078	3369357	223
P02	157589	157426	501
P03	453085	622236	61
P04	450449	445589	642
P05	171276	163940	580
P06	522965	546253	513
P07	102926	97250	678
P08	2248577	2124405	731
P09	1134552	1156305	467
P10	280326	231335	554
P11	264748	234103	771
P12	67226	63476	1990
P13	75067	64292	1881
P14	61638	60250	2883
P26	158158	141241	1141
P27	279780	263654	813
P28	555007	603456	184
P29	845385	897148	234
P30	227908	243131	454
P31	1688210	1949996	129
P32	1026147	1085044	673
P33	81974	83120	197
P34	2230936	2602012	70
P35	562994	641071	46
P36	357870	462768	41
P37	643621	624080	496
P38	737822	708760	944
P39	93317	85706	321
P51	274602	246463	56
P52	107503	65993	1438
P53	95370	89971	3702
P54	137222	119893	1031
P55	137541	116029	1333
P56	1278916	932933	2008
P57	319694	276293	508
P58	301327	229006	858
P59	107377	96303	2045
P60	74437	67551	2824
P61	652316	483294	589
P62	65528	50751	6200
P63	904074	844401	270
P76	116024	83248	2126
P78	397038	389455	335
P79	656380	555805	735
P80	374194	236572	931
P81	90554	60827	9983
P82	454499	333266	4883
P83	66698	61307	18859
P85	493846	530831	84
P87	531443	351667	9240

POPULATION BY AGE GROUP (1980)

PSU	UNDER 5	5 TO 9	10 TO 14	15 TO 19	20 TO 24
P01	231181	224889	237173	268201	294060
P02	12460	12664	13504	15949	13839
P03	32252	30235	32667	39773	44586
P04	35990	37931	41977	45907	43818
P05	13055	14102	15207	16474	14107
P06	44372	43382	45081	51082	48654
P07	8342	8145	9138	10131	9289
P08	144239	152381	183059	204372	199470
P09	76380	83347	94403	107570	105764
P10	20048	22879	27981	29561	20640
P11	17143	17053	18338	27587	43336
P12	5402	5211	5867	6545	5369
P13	6308	6171	6533	7183	6219
P14	4360	3975	4751	5434	4716
P26	9584	10276	13384	14979	13805
P27	20596	21428	23355	27411	27254
P28	32902	33554	42946	53879	51317
P29	41972	47920	63313	72612	67470
P30	13169	14188	16910	19730	18592
P31	107673	109479	131006	151503	162120
P32	56862	62913	78991	88524	84170
P33	4550	5638	7153	7232	4974
P34	174080	161804	175955	192855	19287
P35	29982	29133	36363	55677	81187
P36	23395	22620	26449	31345	39199
P37	36137	40527	50219	58755	54051
P38	52204	55492	67716	76732	79478
P39	6204	6366	7710	9983	10366
P51	12615	13539	16056	19154	22455
P52	8981	9298	9332	9976	9298
P53	8240	8245	8543	9661	7675
P54	9484	10719	12117	12653	10672
P55	9729	10599	10137	15116	18277
P56	74216	83200	91897	109826	104576
P57	19651	21140	23551	30217	35757
P58	18599	20931	23829	30119	35003
P59	8624	8654	9110	10364	9436
P60	6238	5971	6407	7593	6803
P61	52279	56302	59510	61574	59057
P62	6554	6683	7338	7255	4972
P63	66645	64556	67227	77012	102616
P76	8804	8502	8504	9616	9936
P78	30863	30088	32184	37568	39195
P79	44078	45079	54279	60086	52500
P80	26465	29978	33718	35310	30815
P81	8158	7779	7980	8235	9023
P82	35332	34190	37466	45052	46632
P83	6430	5442	5573	7018	6438
P85	24139	21106	24208	35215	59237
P87	37779	37586	39853	48720	5692

POPULATION BY AGE GROUP (1980) CONT.

PSU	25 TO 29	30 TO 44	45 TO 64	65 & OVER
P01	276035	542471	589789	341279
P02	12982	27824	31523	16844
P03	37872	64179	91594	79927
P04	37978	86480	84554	35814
P05	13602	31526	34306	18897
P06	43884	93060	107884	45566
P07	8271	18858	19640	11112
P08	187767	449567	497899	229823
P09	98794	213262	250933	104099
P10	20151	63151	55008	20907
P11	32757	53693	38149	16692
P12	5254	11424	13013	9141
P13	5783	13534	14280	9056
P14	4122	9681	12965	11634
P26	12569	31325	31739	20497
P27	23123	48695	57389	30529
P28	44024	94170	130934	71281
P29	61808	166438	218986	104866
P30	16138	37177	54780	37224
P31	141378	284943	363157	236951
P32	82228	187039	253672	131748
P33	5372	16325	20461	10269
P34	186722	415705	452338	278601
P35	63325	97346	98914	71065
P36	31527	54631	74977	53727
P37	50129	122915	149962	80926
P38	72495	169743	123628	40334
P39	8521	18132	16445	9590
P51	21679	47637	61779	59688
P52	9210	23139	18801	9468
P53	6834	16201	16906	13065
P54	10305	26654	28330	16288
P55	12174	23615	24540	13354
P56	99885	246046	273887	195383
P57	28818	62342	62441	35777
P58	30744	67390	52626	22086
P59	8423	18126	20284	14356
P60	5744	11506	13747	10428
P61	63128	157083	108001	35382
P62	4370	10071	11288	6997
P63	99279	175177	166351	85211
P76	10362	22325	23028	14947
P78	37978	74655	73099	41408
P79	53984	148568	137244	60562
P80	36126	93142	66394	22246
P81	7332	15451	16772	9824
P82	44802	91971	81880	37174
P83	5778	11125	11628	7266
P85	59383	96696	97826	76040
P87	49894	97917	100880	61894

MEANS OF TRANSPORTATION TO WORK

PSU	PRIVATE CAR	TRUCK OR VAN	MOTOR-CYCLE	PUBLIC TRANSIT	BI-CYCLE	WALKING	OTHER	WORK AT HOME
P01	661571	30691	492	385792	2114	93590	6067	11037
P02	45826	9209	176	542	158	2013	295	908
P03	115855	8597	156	31342	372	9366	892	1619
P04	131665	24404	202	1781	137	4258	610	1502
P05	49968	11308	98	262	358	3437	474	1717
P06	163295	21959	205	6506	261	8499	731	1709
P07	31763	5619	44	215	120	1893	233	1000
P08	841817	58241	603	123817	2944	45846	3866	12868
P09	394306	46325	228	9937	993	11630	1661	3443
P10	110643	12811	330	1246	428	4732	544	2737
P11	89936	11546	195	4848	1127	13732	673	2890
P12	16225	4089	94	39	125	4129	187	4944
P13	18986	6886	66	94	70	2084	181	1956
P14	13140	4836	72	61	100	2486	302	2702
P26	48344	7289	218	1305	236	5090	669	2007
P27	84377	13491	208	4298	323	8663	551	2121
P28	176075	14386	320	31823	662	13537	1153	3358
P29	321314	19144	621	43364	830	19177	1583	5752
P30	69585	6576	46	3375	43	7909	398	1384
P31	327866	19725	698	183432	2531	64005	2840	7294
P32	317743	37189	360	51635	237	21941	1791	4730
P33	29419	3385	103	9188	139	1051	84	499
P34	212075	10761	440	483236	1894	72149	3702	7997
P35	112405	5951	331	84211	1629	41472	1362	2689
P36	84084	5551	119	21534	462	12620	497	1491
P37	240110	20784	545	19097	1080	15560	1191	5959
P38	281626	31894	1263	36697	1035	12007	1726	4286
P39	32132	5246	152	521	283	2118	355	626
P51	93207	12015	920	3782	1420	4853	1184	1950
P52	31266	9469	149	147	21	1129	250	453
P53	17144	10721	102	159	42	1859	420	524
P54	45568	11119	100	278	18	1845	430	820
P55	39462	9820	160	423	183	1892	284	444
P56	463193	47749	3108	27127	4236	17699	3195	6816
P57	107340	18351	405	4742	167	5045	538	1745
P58	122422	15836	587	4044	582	5330	984	2409
P59	29136	8559	137	692	53	2414	293	533
P60	15039	6895	100	282	23	1174	287	344
P61	261114	55952	2304	3870	507	5390	1730	4186
P62	10653	6265	70	212	31	1200	215	422
P63	349802	46521	1468	37771	688	10846	2232	5739
P76	29108	9674	383	246	316	3437	573	1628
P78	141623	19250	520	11255	268	8050	660	3137
P79	217141	35731	2294	25794	1625	6851	3684	5634
P80	141541	27475	723	7909	537	4380	1025	3738
P81	19860	8098	851	583	554	2893	582	547
P82	139134	35880	2113	4934	2103	7848	1567	3556
P83	12776	6154	171	200	149	4323	502	3253
P85	149979	17874	1595	47695	3120	19562	1742	5142
P87	151229	40899	3107	6691	3928	8733	1773	4549

PSU	TRAVEL TIME TO WORK (IN MINUTES)				45 AND OVER
	LESS THAN 10	10 TO 19	20 TO 29	30 TO 44	
P01	82020	227900	215965	329788	323755
P02	10908	26382	12891	5823	2453
P03	16084	54697	42654	36643	17511
P04	22400	62152	46992	25037	6884
P05	16374	26022	13466	6358	3007
P06	27311	62180	48837	41782	21004
P07	8860	17233	6868	4034	3148
P08	140781	298183	192209	224367	221639
P09	62112	145299	114940	103940	38361
P10	24013	41526	32681	24727	9022
P11	23121	49791	25439	15066	9382
P12	10717	7050	2666	2308	2187
P13	9370	7375	3741	3572	4289
P14	9083	6470	2506	1866	1511
P26	13550	21932	12080	9153	6450
P27	22518	47509	23719	13644	4605
P28	29314	66498	47815	53325	42254
P29	60077	127639	75668	66818	76359
P30	17218	38529	17233	9595	5216
P31	48031	129282	116974	159984	145474
P32	54103	126240	92373	96883	60846
P33	5267	13678	7901	6022	2020
P34	40190	101641	78442	180685	384253
P35	27481	67744	51335	60578	40579
P36	15774	47881	33036	20517	7484
P37	51334	102725	58015	50663	36077
P38	31050	76663	76133	98693	85650
P39	8901	13178	7679	6759	4110
P51	18138	43635	24463	21497	9960
P52	6393	9502	6685	10812	9155
P53	10291	11296	3476	3606	1820
P54	11308	24299	12363	7593	4137
P55	8726	23546	9690	6378	4041
P56	60751	166303	135519	140383	64132
P57	15980	48441	33451	28795	10971
P58	21024	56965	39393	24927	7966
P59	7511	17665	7574	5877	2690
P60	6521	8404	3253	2949	3023
P61	43847	100670	78269	76310	32532
P62	5771	6836	1646	2361	2061
P63	42477	132539	116744	111585	47360
P76	12723	17939	5576	3369	4340
P78	30774	74814	47999	21901	6811
P79	36189	83431	53667	57732	62725
P80	20725	49990	46967	45334	20639
P81	10337	13705	3851	3281	1482
P82	29097	77834	49870	26664	9330
P83	11147	7384	2171	2109	1397
P85	29060	82550	61333	46972	21055
P87	31065	75086	52118	40649	17205