NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)

Analytical User's Manual

1982 File

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

TABLE OF CONTENTS

SECTION 1

INTRODUCTION

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

NASS was developed to provide an automated, comprehensive national traffic accident data base. Data collection began in 1979 in 10 geographic sites, also called Primary Sampling Units (PSU's). The 1982 NASS file contains data for a full year from 30 sites and for six months from an additional 20 sites. These data are weighted to represent all police reported motor vehicle accidents occurring in the USA during the full year.

Some data element definitions have been revised over the years to meet changing analytical requirements. Care should be exercised to assure consistent definitions if this 1982 file is to be used in conjuntion with NASS files from prior years.

The 1982 NASS file is available in two automated formats: either as a sequential data set, or as a Statistical Analysis System (SAS) data set. Hardcopy data collection records, sanitized to protect privacy, are also available for review. These records contain photographic slides, scene diagrams, and other noncomputerized data.

This Manual and the NASS Data Collection, Coding and Editing Manual - 1982 Continuous Sampling System are the primary documentation supporting the automated files. In addition, the user may find the following documents helpful:

Injury Coding Manual 1980 (DOT-HS-805-298)

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 80)

Truck Deformation Classification (SAE J1301)

The first three documents are available through the National Technical Information Service (NTIS), Springfield, Virginia 22161; the latter 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 is divided into 1279 geographic areas called Primary Sampling Units (PSU's). Each PSU consists either of a large city, a county, a group of contiguous counties, a central city, the balance of a county which is not part of a central city, or a group of cities. The PSU's were defined so that their minimum population was approximatly 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. These 75 sample PSU's are the first stage in the selection of NASS sample accidents. The inverse of the probability of selecting the PSU is the first stage expansion factor for all accidents in that PSU.

NASS was designed to be implemented in stages; that is, three probability subsamples were defined which would provide valid estimates during a period of staged implementation. Thus, not all 75 PSU's became operational at once.

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 stage of sampling is performed. Each PSU contains a number of police jurisdictions which process reports for accidents that occur within the PSU's boundaries. This list of police jurisdictions within a PSU constitutes the frame of the second stage of selection. A measure of size based on the number, severity, and vehicle type involved in accidents is assigned to each jurisdiction. 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 from all accidents recorded in the sample jurisdictions. A simple random sample of all accidents is impractical because it would result in a large percentage of sample accidents with minor property damage and little or no injury. These types of accidents constitute the largest fraction of the accident population. A sample with such a large percentage of low property damage and minor injury accident outcomes would not be effective in providing detailed and accurate information on the mitigation of serious accident consequences. For this reason, a substantial sample of serious injury accidents is required for NASS.

The procedure used to capture the desired sample sizes by accident type and severity is a form of unequal probability selection. Each listed accident is categorized by: (1) the most severe injury level reported (fatal, incapacitating, nonincapacitating, no injury); (2) disposition of accident victims (i.e., transported to a medical facility or not); (3) vehicle type (motorcycle, light truck or van, medium or heavy truck, etc.), or involvement of a pedestrian, and; (4) towing required or not. A probability of selection is assigned to each category so that high severity and rare vehicle type accidents (pedestrian, motorcycle, truck) are oversampled (See Table 2.1).

The number of accident types changed from 14 in 1979 thru 1981 to 22 in 1982. The additional accident types allowed medium-heavy truck accidents with at most a minor

injury to be sampled at a higher rate than similar light truck accidents. Also accidents whose highest police injury severity was minor were subdivided by whether or not anyone was transported to a medical facility.

ACCIDENT TYPE		Most Severe Police Reported Injury			
		K	A	B, C, O or U	
				TRANS-PORTED	NONTRANS-PORTED
Ped or Nonmotorist		A	B	C	D
Motorcycle		E	F	G	H
Medium or Heavy Truck		J	K	L	M
Light Truck or Van	TOWAWAY	N	P	Q	R
	NONTOWAWAY	N	P	Y	Y
Other Motor Vehicle	TOWAWAY	S	T	V	W
	NONTOWAWAY	S	T	Z	Z

TABLE 2.1

Probabilities of selection vary by accident type within the PSU. Other factors also affect the selection probabilities at this stage. For example, some PSU's only select from even-numbered cases and some jurisdictions within a PSU are visited on a rotating schedule.

A dual sampling system was started to deemphasize minor injury, non-towaway accidents involving cars and light trucks (accident types Y and Z). Every few days the selected police jurisdictions are contacted and all accidents reported since the previous contact day are listed. The accidents to be investigated by NASS are selected from these lists. A minor injury, non-towaway accident is selected on periodic contact days, with the period between these contact days fixed for each PSU.

PSU and National Inflation Factors

The sample accidents from a PSU have a unique selection probability associated with them as a result of selecting a particular jurisdiction and accident. The inverse of this probability is called the PSU Inflation Factor. If sample accidents in a given PSU are multiplied by this factor, an unbiased stimat of the number of NASS accidents in the PSU is obtained.

The inverse of the probability of selecting a PSU

(Stage 1 of the sampling procedure) multiplied by the PSU Inflation Factor provides the National Inflation Factor. Using the National Inflation Factor, an unbiased estimate of the national frequency of the specific type of accident is obtained.

Ratio Adjustments

Ratio adjustments use auxiliary information to adjust the inflation factors. Twice a year accidents in each PSU are tabulated from the non-sampled jurisdictions. Thus within each PSU the accidents for each type are totaled from all jurisdictions. The inflation factors are multiplied by a ratio that will cause sample estimates to equal these PSU totals. In some cases, small samples of accident types may produce unstable ratio adjustments. In these situations, accident types may be combined prior to producing a single ratio adjustment.

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. Twenty-three 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 th specific data elements, gives their location in the Sequential File Record Layout, and explains their derivation:

VARIABLE NAME AND LOCATION	DESCRIPTION
PSU INFLATION FACTOR (A77-84)	This eight character numeric valu has two implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.
NATIONAL INFLATION FACTOR (A85-92)	This eight character numeric va.ue has two implied decimal places. Its purpose and derivaion are described in Section 2 of this Manual.
RATIO ADJUSTMENT (A93-100)	This eight character numeric value has two implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.
MAXIMUM TREATMENT (A101)	This single character 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 - OTHER 2 FATAL - RULED DISEASE 9 UNKNOWN 6 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. (A102)	This single character 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 SERIOUS INJURY 3 SEVERE 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 (A103)	This single character 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 RESULTS variables on the driver and pedestrian/non-motorist form and the TRAFFIC VIOLATION CHARGED-DWI 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 RESULTS equal 01-94 (positive result) or TRAFFIC VIOLATION CHARGED-DWI equals 1. (NO) 2 - If POLICE REPORTED ALCOHOL PRESENCE equals 0 (NO) and ALCOHOL TEST RESULT equals 00 (NONE) or 96 (NONE GIVEN) and TRAFFIC VIOLATION CHARGED-DWI equals 0. (UNKNOWN) 9 - IF

POLICE REPORTED ALCOHOL PRESENCE EQUALS	AND	ALCOHOL TEST RESULTS EQUALS	AND	TRAFFIC VIOLATION CHARGED - DWI EQUALS
0		95, 97, 99		0, 9
8, 9		00, 95, 96 97, 99		0, 9
0		00, 96		9

VARIABLE NAME AND LOCATION	DESCRIPTION
NUMBER OF SERIOUSLY INJURED PERSONS (A104-105)	This two character 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-motorists 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 (A106-107)	This two character 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 (A108-109)	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 08 Unknown

VARIABLE NAME AND LOCATION	DESCRIPTION
MAXIMUM KNOWN PEDESTRIAN A.I.S. (P99)	This single character 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. (A102).
PEDESTRIAN I.S.S. (P100-101)	This two character 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 severe 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.

VARIABLE NAME AND LOCATION	DESCRIPTION
VIN LENGTH (V170-171)	This two character numeric value indicates the number of characters in the Vehicle Identification Number (VIN) as orginally recorded. 99 denotes unknown.
VEHICLE SHORT FORM (V172)	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., accident types 'Y' or 'Z', investigators use an abbreviated version of the data collection form for the vehicle level records. This one character numeric value indicates the use or nonuse of this "Vehicle Short Form" 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 (V173-174)	This two character 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 (V175-176)	This two character 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 (V177-180) WHEELBASE LONG (V181-184)	These four character 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. 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 "UNKNOWN".
FRONT/REAR WHEEL DRIVE (V185)	This single character 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 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.
MAXIMUM TREATMENT IN THIS VEHICLE (V186)	This single character 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 (A101).

VARIABLE NAME AND LOCATION	DESCRIPTION
WEIGHT OF THE OTHER VEHICLE (V187-189)	This three character 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.
MAXIMUM KNOWN A.I.S. in this Vehicle (V190)	This single character 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 (A102).
MAXIMUM KNOWN OCCUPANT A.I.S. (098)	This single character 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. (A102).
OCCUPANT I.S.S. (099-100)	This two character 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

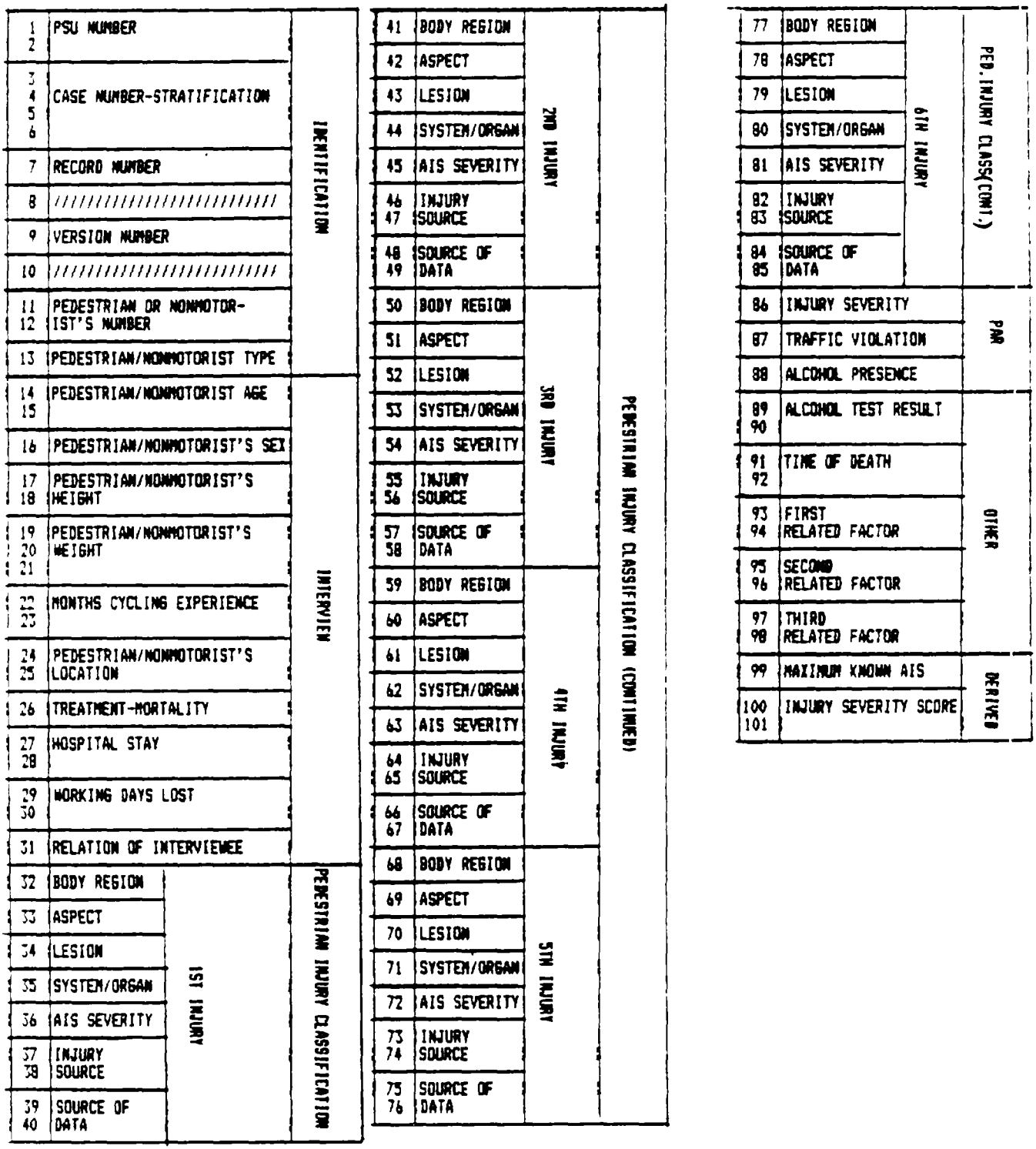
SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

1 2	PSU NUMBER	IDENTIFICATION
3 4 5 6	CASE NUMBER	
7	RECORD NUMBER	
8	//////////////////////////	
9	VERSION NUMBER	
10	//////////////////////////	
11 12	MONTH OF ACCIDENT	
13 14	//////////////////////////	
15 16	YEAR OF ACCIDENT	
17	FINAL STRATIFICATION	
18 19 20 21 22	//////////////////////////	
23 24	FIRST HARMFUL EVENT	
25	MANNER OF COLLISION	
26	RELATION TO ROADWAY	
27 28	NUMBER OF VEHICLE FORMS SUBMITTED	
29 30	NO. OF PEDESTRIAN & NON-MOTORIST FORMS SUBMITTED	
31	PAR SEVERITY	
32	HIT AND RUN INVOLVEMENT	
33 34 35 36	TIME OF DAY OF ACCIDENT	AMBIENT CONDITIONS
37	LIGHT CONDITIONS	
38	ATMOSPHERIC CONDITIONS	

39	LAND USE (URBAN/RURAL)	ADMINISTRATIVE ITEMS
40	FEDERAL AID SYSTEM	
41	CLASS TRAFFICWAY	
42	ROADWAY FUNCTION CLASS	
43 44	RELATION TO JUNCTION	
45	SCHOOL BUS RELATED	
46	RIGHT OR LEFT TURN ON RED	
47	NUMBER OF TRAVEL LANES	ENVIRONMENTAL DATA
48	MEDIAN TYPE	
49 50	MEDIAN WIDTH	
51	ACCESS CONTROL	
52	TRAFFICWAY FLOW	
53	INTERCHANGE GEOMETRY	
54	SHOULDER PRESENCE	
55	ROADWAY ALIGNMENT	
56	ROADWAY PROFILE	
57	ROADWAY SURFACE TYPE	
58	ROADWAY SURFACE CONDITION	
59 60	TRAFFIC CONTROL DEVICE	
61	TRAF. CNTL. FUNCTION	
62	SCHOOL ZONE	
63 64	SPEED LIMIT	
65	RESTR. TO ROADWAY AT SCENE	
66	ADDITIONAL RESTR. AT SCENE	

67	//////////////////////////	SPECIAL STUDIES
68	POLE SPECIAL STUDY	
69	LONGITUDINAL BARRIER	
70	CRASH CUSHION SPEC.STUDY	
71	//////////////////////////	
72	HONDA SPECIAL STUDY	
73 74 75 76	//////////////////////////	
77 78 79 80 81 82 83 84	PSU INFLATION FACTOR	INFLATION FACTORS
85 86 87 88 89 90 91 92	NATIONAL INFLATION FACTOR	
93 94 95 96 97 98 99 100	RATIO ADJUSTMENT	
101	MAXIMUM TREATMENT	DERIVED VARIABLES
102	MAXIMUM KNOWN AIS	
103	ALCOHOL INVOLVEMENT	
104 105	NUMBER OF SERIOUSLY INJURED PERSONS	
106 107	NUMBER OF INJURED PERSON	
108 109	DAY OF WEEK OF ACCIDENT	

ACCIDENT RECORD


1 2 PSU NUMBER
3 4 5 6 CASE NUMBER-STRATIFICATION
7 RECORD NUMBER
8 //////////////////////////
9 VERSION NUMBER
10 //////////////////////////
11 12 PEDESTRIAN OR NONMOTOR-IST'S NUMBER
13 PEDESTRIAN/NONMOTORIST TYPE
IDENTIFICATION
14 15 PEDESTRIAN/NONMOTORIST AGE
16 PEDESTRIAN/NONMOTORIST'S SEX
17 18 PEDESTRIAN/NONMOTORIST'S HEIGHT
19 20 21 PEDESTRIAN/NONMOTORIST'S WEIGHT
22 23 MONTHS CYCLING EXPERIENCE
24 25 PEDESTRIAN/NONMOTORIST'S LOCATION
26 TREATMENT-MORTALITY
27 28 HOSPITAL STAY
29 30 WORKING DAYS LOST
31 RELATION OF INTERVIEWEE
INTERVIEW
32 BODY REGION
33 ASPECT
34 LESION
35 SYSTEM/ORGAN
36 AIS SEVERITY
37 38 INJURY SOURCE
39 40 SOURCE OF DATA
1ST INJURY
PEDESTRIAN INJURY CLASSIFICATION
41 BODY REGION
42 ASPECT
43 LESION
44 SYSTEM/ORGAN
45 AIS SEVERITY
46 47 INJURY SOURCE
48 49 SOURCE OF DATA
2ND INJURY
50 BODY REGION
51 ASPECT
52 LESION
53 SYSTEM/ORGAN
54 AIS SEVERITY
55 56 INJURY SOURCE
57 58 SOURCE OF DATA
3RD INJURY
59 BODY REGION
60 ASPECT
61 LESION
62 SYSTEM/ORGAN
63 AIS SEVERITY
64 65 INJURY SOURCE
66 67 SOURCE OF DATA
4TH INJURY
68 BODY REGION
69 ASPECT
70 LESION
71 SYSTEM/ORGAN
72 AIS SEVERITY
73 74 INJURY SOURCE
75 76 SOURCE OF DATA
5TH INJURY
PEDESTRIAN INJURY CLASSIFICATION (CONTINUED)
77 BODY REGION
78 ASPECT
79 LESION
80 SYSTEM/ORGAN
81 AIS SEVERITY
82 83 INJURY SOURCE
84 85 SOURCE OF DATA
6TH INJURY
PED. INJURY CLASS(CONT.)
86 INJURY SEVERITY
87 TRAFFIC VIOLATION
88 ALCOHOL PRESENCE
PAR
89 90 ALCOHOL TEST RESULT
91 92 TIME OF DEATH
93 94 FIRST RELATED FACTOR
95 96 SECOND RELATED FACTOR
97 98 THIRD RELATED FACTOR
OTHER
99 MAXIMUM KNOWN AIS
100 101 INJURY SEVERITY SCORE
DERIVED

1 2	PSU NUMBER	IDENTIFICATION
3 4 5 6	CASE NUMBER-STRATIFICATION	
7	RECORD NUMBER	
8	//////////////////////////////	
9	VERSION NUMBER	
10	//////////////////////////////	
11 12	VEHICLE NUMBER	
13 14	NUMBER OF OCCUPANT FORMS SUBMITTED	
15	VEHICLE ROLE	
16	MANNER OF LEAVING SCENE	
17 18	VEHICLE MODEL YEAR	EXTERIOR ITEMS
19 20	VEHICLE MAKE	
21 22	VEHICLE MODEL	
23 24	VEHICLE BODY TYPE	
25	TOWED TRAILING UNIT	
26	CAB CONFIGURATION	
27 28	SEATING CAPACITY/TRUCK VOCATION	
29	TRACTOR WITH DROMEDARY	
30	NUMBER OF AXLES-POWER UNIT	
31	NUMBER OF AXLES-1ST TRAILER	
32	NUMBER OF AXLES-2ND TRAILER	
33	NUMBER OF AXLES-3RD TRAILER	
34	TYPE OF BRAKES	

35	GROSS VEHICLE WEIGHT RATING (GVWR)		EXTERIOR ITEMS (CONTINUED)
36	VEHICLE SEQUENCE NUMBER	CDC/TDC HIGHEST DELTA "v"	
37 38	OBJECT CONTACTED		
39 40	DIRECTION OF FORCE		
41	DEFORMATION LOCATION		
42	LONG./LATERAL LOCATION		
43	VERT./LATERAL LOCATION		
44	TYPE OF DAMAGE DISTRIBUTION		
45 46	DEFORMATION EXTENT GUIDE		
47	ACCIDENT SEQUENCE NUMBER		
48	VEHICLE SEQUENCE NUMBER	CDC/TDC SECOND HIGHEST DELTA "v"	
49 50	OBJECT CONTACTED		
51 52	DIRECTION OF FORCE		
53	DEFORMATION LOCATION		
54	LONG./LATERAL LOCATION		
55	VERT./LATERAL LOCATION		
56	TYPE OF DAMAGE DISTRIBUTION		
57 58	DEFORMATION EXTENT GUIDE		
59	ACCIDENT SEQUENCE NUMBER		
60	VEHICLE SEQUENCE NUMBER	CDC/TDC THIRD HIGHEST DELTA "v"	
61 62	OBJECT CONTACTED		
63 64	DIRECTION OF FORCE		
65	DEFORMATION LOCATION		
66	LONG./LATERAL LOCATION		
67	VERT./LATERAL LOCATION		

VEHICLE RECORD

68	TYPE OF DAMAGE DISTRIBUTION	CDC/TDC FOURTH HIGHEST DELTA "V"	EXTERIOR ITEMS CONT.
69 70	DEFORMATION EXTENT GUIDE		
71	ACCIDENT SEQUENCE NUMBER		
72	VEHICLE SEQUENCE NUMBER		
73 74	OBJECT CONTACTED		
75 76	DIRECTION OF FORCE		
77	DEFORMATION LOCATION		
78	LONG./LATERAL LOCATION		
79	VERT./LATERAL LOCATION		
80	TYPE OF DAMAGE DISTRIBUTION		
81 82	DEFORMATION EXTENT GUIDE		
83	ACCIDENT SEQUENCE NUMBER		
84 85 86 87 88 89 90 91 92 93	VEHICLE IDENTIFICATION NUMBER		INTERIOR ITEMS
94 95 96 97 98 99 100	////////////////////////////// ////////////////////////////// ////////////////////////////// ////////////////////////////// ////////////////////////////// ////////////////////////////// //////////////////////////////		
101	REGISTRATION OF VEHICLE		
102	VEHICLE SPECIAL USE		
103 104 105	ODOMETER READING		
106	PASSENGER COMPARTMENT INTEGRITY		
107	PASSENGER COMPARTMENT INTRUSION		

108	MAGNITUDE OF INTRUSION		
109	FIRE OCCURRENCE		
110	MOST SEVERE IMPACT ROLL	SUPPLEMENTAL ITEMS	
111	ROLE OF OTHER CONTACTED PARTY		
112	ROLLOVER		
113	JACKKNIFE		
114	SAFETY PROB. BULLETIN SUBMITTED?		
115	HAZARDOUS CARGO		
116 117 118	VEHICLE CURB WEIGHT		
119 120 121	VEHICLE CARGO WEIGHT		
122	CARGO WEIGHT INFO SOURCE		
123	BASIS FOR TOTAL DELTA "V"	CRASH PROGRAM	
124 125	TOTAL DELTA "V"		
126 127 128	LONGITUDINAL COMPONENT OF DELTA "V"		
129 130 131	LATERAL COMPONENT OF DELTA "V"		
132 133 134 135	ENERGY ABSORPTION		
136 137 138 139	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - L		
140 141 142	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - C1		
143 144 145	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - C2		
146 147 148	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - C3		

149 150 151	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - C4	CRASH PROGRAM (CONTINUED)
152 153 154	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - C5	
155 156 157	CRASH DAMAGE DATA FOR HIGHEST DELTA "V"- C6	
158 159 160 161	CRASH DAMAGE DATA FOR HIGHEST DELTA "V" - D	
162 163	TRAVEL SPEED	PAR
164 165	FIRST VEHICLE RELATED FACTOR	
166 167	SECOND VEHICLE RELATED FACTOR	
168 169	THIRD VEHICLE RELATED FACTOR	
170 171	VIN LENGTH	DERIVED
172	VEHICLE SHORT FORM	
173 174	NUMBER OF SERIOUSLY INJURED IN THIS VEHICLE	
175 176	NUMBER INJURED IN THIS VEHICLE	
177 178 179 180	WHEELBASE - SHORT	
181 182 183 184	WHEELBASE - LONG	
185	FRONT/REAR WHEEL DRIVE	
186	MAXIMUM TREATMENT	
187 188 189	WEIGHT OF THE OTHER VEHICLE	
190	MAXIMUM KNOWN AIS	

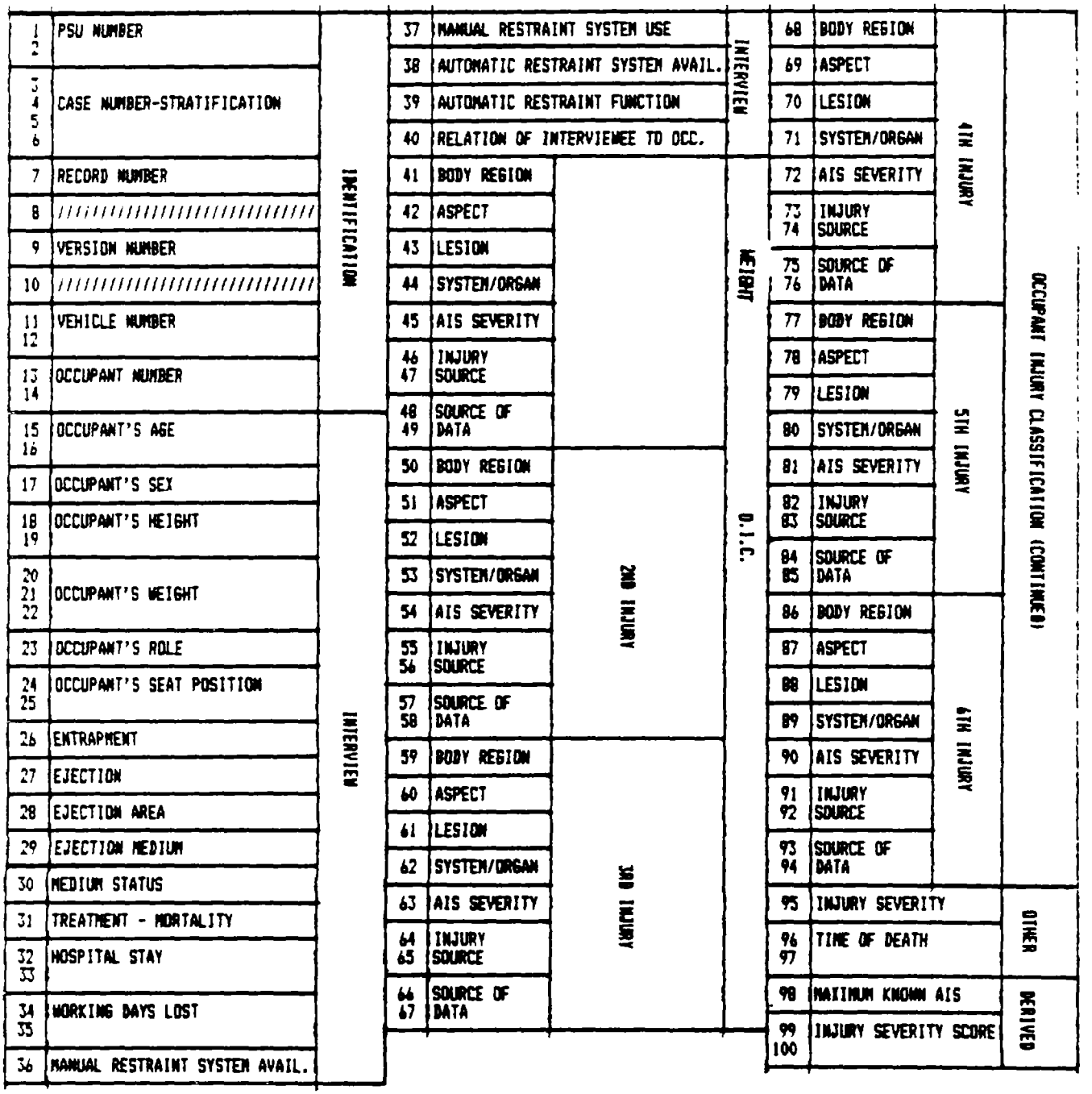
VEHICLE RECORD (CONTINUED)

1 2	PSU NUMBER	IDENTIFICATION
3 4 5 6	CASE NUMBER-STRATIFICATION	
7	RECORD NUMBER	
8	//////////////////////////	
9	VERSION NUMBER	
10	//////////////////////////	
11 12	VEHICLE NUMBER	
13 14	NUMBER OF OCCUPANTS THIS MOTOR VEHICLE	
15	DRIVER PRESENCE IN VEHICLE	
16 17	MONTHS DRIVING EXPERIENCE THIS CLASS OF VEHCILE	INTERVIEW
18 19 20	ESTIMATED MILEAGE THIS VEHICLE	
21 22 23	TOTAL MILEAGE ALL VEHICLES	
24	TYPE OF OPERATION/CARRIER	
25	FEDERAL SAFETY REGULATED	
26	DRIVER'S CLASSIFICATION	
27	DRIVER EDUCATION	
28	FREQUENCY DRIVING ROAD	
29 30	LAST ACTION PRIOR TO AVIODANCE MANEUVERS	
31 32	SECOND TO LAST ACTION PRIOR TO AVOIDANCE MANEUVERS	
33 34	THIRD TO LAST ACTION PRIOR TO AVOIDANCE MANEUVERS	
35 36	ATTEMPTED AVOIDANCE MANEUVER (PRE-CRASH)	
37	ACCIDENTS IN PAST 12 MTHS.	

38	SPEEDING	PMV
39	DRIVING WHILE INTOXICATED	
40	RECKLESS DRIVING	
41	SUSPENDED/REVOKED LICENSE	
42	FAILURE TO YIELD	
43	FOLLOWING TOO CLOSELY	
44	RUNNING SIGNAL/STOP SIGN	
45	OTHER VIOLATION CHARGED	
46	UNKNOWN VIOLATION CHARGED	
47	ALCOHOL PRESENCE	
48 49	ALCOHOL TEST RESULTS	RECORDS
50	LICENSE SOURCE	
51	LIC. COMPLIANCE W/RESTRIC.	
52	DRIVER LICENSE STATUS	
53	DRIVER LIC. TYPE COMPLIANCE	
54	DRIVER LIC. RESTRICTIONS	
55	ADDITONAL DRV. LIC. RESTR.	
56	PREVIOUS SPEEDING CONVICTION	
57	PREVIOUS OTHER HARMFUL MOVING	
58	PREVIOUS DWI CONVICTIONS	
59	PREVIOUS SUSPENSION/REVOC.	
60	PREVIOUS RECORDED ACCIDENTS	

61	NUMBER OF TRAVEL LANES	ENVIRONMENTAL DATA
62	MEDIAN TYPE	
63 64	MEDIAN WIDTH	
65	ACCESS CONTROL	
66	TRAFFICWAY FLOW	
67 68 69 70 71 72 73 74 75 76 77 78 79	HIGHWAY PERFORMANCE MONITORING SYSTEM SAMPLE NUMBER	
80	LEFT SHOULDER TYPE	
81	RIGHT SHOULDER TYPE	
82	ROADWAY ALIGNMENT	
83	ROADWAY PROFILE	
84	ROADWAY SURFACE TYPE	
85	ROADWAY SURFACE CONDITION	
86 87	SPEED LIMIT	
88	TRAF. CNTL. FUNC.	
89 90	TRAFFIC CONTROL DEVICE	
91 92	FIRST OTHER DRIVER RELATED FACTORS	RELATED FACTORS
93 94	SECOND OTHER DRIVER RELATED FACTORS	
95 96	THIRD OTHER DRIVER RELATED FACTORS	
97 98	FIRST OTHER ENVIRONMENTAL RELATED FACTORS	
99 100	SECOND OTHER ENVIRONMENTAL RELATED FACTORS	
101 102	THIRD OTHER ENVIRONMENTAL RELATED FACTORS	

DRIVER RECORD



OCCUPANT RECORD

SECTION 5

SAS FILE

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

SAS is a non-hierarchial data base. The SAS data base for NASS consists of 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 hierarchial structure of NASS data to be fully explored by the analyst. An analyst can create a new SAS data set by merging data from several levels of the NASS hierarchy--e.g., vehicle and 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");

- The value of 95 ("test refused") for Pedestrian/non-motorists and Driver Alcohol Test Results (ALCTEST) has been recoded to .T; the value of 96 ("not given") has been recoded .C;

- The value of 97 ("performed, results unknown") for ALCOHOL TESTS has been recoded .D; and the value 99 ("unknown") has been recoded .U;

- Missing data for numeric values are recoded as "." in SAS and are not included in percentage tabulations;

- 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 manage 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 1982 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:

CONTENTS OF SAS DATA SET NASSANL.ACCIDENT

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
52	AAIS	NUM	2	109			MAXIMUM KNOWN AIS IN ACCIDENT
30	ACCESS	NUM	2	65			ACCESS CONTROL
15	ACCSEVP	NUM	2	33			POLICE REPORTED ACCIDENT SEVERITY
50	AINJSER	NUM	2	105			NUMBER OF SERIOUSLY INJURED PERSONS
49	AINJURED	NUM	2	103			TOTAL NUMBER OF INJURED PERSONS
51	ALCINV	NUM	2	107			ALCOHOL INVOLVED ACCIDENT
34	ALIGNMNT	NUM	2	73			ROADWAY ALIGNMENT
53	ATREAT	NUM	2	111			MAXIMUM TREATMENT IN ACCIDENT
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
22	CLTWAY	NUM	2	49			CLASS TRAFFICWAY
48	DAYWEEK	NUM	2	101			DAY OF WEEK
21	FEDAID	NUM	2	47			ROAD TA-1 CLASSIFICATION
9	FINSTRT	CHAR	1	22			FINAL STRATIFICATION
32	GEOMETRY	NUM	2	69			INTERCHANGE GEOMETRY
35	GRADE	NUM	2	75			ROADWAY PROFILE
10	HARMEV1	NUM	2	23			FIRST HARMFUL EVENT
16	HITRUN	NUM	2	35			INVOLVEMENT OF HIT & RUN IN ACCIDENT
20	LANDUSE	NUM	2	45			LAND USE
27	LANES	NUM	2	59			NUMBER OF TRAVEL LANES
18	LGTCOND	NUM	2	41			LIGHT CONDITIONS
11	MANCOLL	NUM	2	25			MANNER OF COLLISION (BASED ON F.H.E.)
28	MEDIANT	NUM	2	61			MEDIAN TYPE
29	MEDIANW	NUM	2	63			MEDIAN WIDTH
7	MONTH	NUM	2	18			MONTH OF ACCIDENT
55	NATWGT	NUM	4	117	9.2		NATIONAL INFLATION FACTOR
14	PEDFORMS	NUM	2	31			NUMBER OF PED/NONMOTOR FORMS SUBMITTED
1	PSU	NUM	2	4			PSU NUMBER
54	PSUWGT	NUM	4	113	9.2		PSU INFLATION FACTOR
56	RATWGT	NUM	4	121	9.2		RATIO ADJUSTMENT
5	RECNO	NUM	2	14			RECORD NUMBER
24	RELJUNC	NUM	2	53			RELATION TO JUNCTION
12	RELROAD	NUM	2	27			RELATION TO ROADWAY (LOCATION OF F.H.E.)
23	ROADFUNC	NUM	2	51			ROADWAY FUNCTION CLASS
43	ROWADD	NUM	2	91			ADDITIONAL RDWY RESTRICTIONS AT SCENE
42	ROWPRI	NUM	2	89			RESTRICTION OF ROADWAY AT SCENE
25	SCHBUS	NUM	2	55			SCHOOL BUS-RELATED
40	SCHZONE	NUM	2	85			ACCIDENT OCCURRENCE IN SCHOOL ZONE
33	SHOULDER	NUM	2	71			SHOULDER PRESENCE
41	SPLIMIT	NUM	2	87			SPEED LIMIT
46	SSCC	NUM	2	97			CRASH CUSHION (S.S. INDICATOR)
47	SSHONDA	NUM	2	99			HONDA (S.S. INDICATOR)
45	SSLB	NUM	2	95			LONGITUDINAL BARRIER (S.S. INDICATOR)
44	SSPOLE	NUM	2	93			POLE (S.S. INDICATOR)
4	STRATIF	CHAR	1	13			INITIAL STRATIFICATION
37	SURCOND	NUM	2	79			ROADWAY SURFACE CONDITION
36	SURTYPE	NUM	2	77			ROADWAY SURFACE TYPE
17	TIME	NUM	4	37	HHMM5.		TIME OF ACCIDENT

38	TRAFCONT	NUM	2	81	TRAFFIC CONTROLS
31	TRAFFLOW	NUM	2	67	TRAFFICWAY FLOW
39	TRCTLFCT	NUM	2	83	TRAFFIC CONTROL DEVICE FUNCTIONING
26	TURNRED	NUM	2	57	RIGHT OR LEFT TURN ON RED RELATED
13	VEHFORMS	NUM	2	29	NUMBER OF VEHICLE FORMS SUBMITTED
6	VERSION	NUM	2	16	VERSION NUMBER
19	WEATHER	NUM	2	43	ATMOSPHERIC CONDITIONS
8	YEAR	NUM	2	20	YEAR OF ACCIDENT

CONTENTS OF SAS DATA SET NASSANL.PEDES

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
9	AGE	NUM	2	22			AGE OF PERSON
43	AIS1	NUM	2	68			AIS SEVERITY (FIRST)
44	AIS2	NUM	2	70			AIS SEVERITY (SECOND)
45	AIS3	NUM	2	72			AIS SEVERITY (THIRD)
46	AIS4	NUM	2	74			AIS SEVERITY (FOURTH)
47	AIS5	NUM	2	76			AIS SEVERITY (FIFTH)
48	AIS6	NUM	2	78			AIS SEVERITY (SIXTH)
64	ALCTEST	NUM	2	110			MEASURED BLOOD ALCOHOL LEVEL
25	ASPECT1	CHAR	1	50			ASPECT (FIRST)
26	ASPECT2	CHAR	1	51			ASPECT (SECOND)
27	ASPECT3	CHAR	1	52			ASPECT (THIRD)
28	ASPECT4	CHAR	1	53			ASPECT (FOURTH)
29	ASPECT5	CHAR	1	54			ASPECT (FIFTH)
30	ASPECT6	CHAR	1	55			ASPECT (SIXTH)
19	BODYREG1	CHAR	1	43			OIC BODY REGION (FIRST)
20	BODYREG2	CHAR	1	44			OIC BODY REGION (SECOND)
21	BODYREG3	CHAR	1	45			OIC BODY REGION (THIRD)
22	BODYREG4	CHAR	2	46			OIC BODY REGION (FOURTH)
23	BODYREG5	CHAR	1	48			OIC BODY REGION (FIFTH)
24	BODYREG6	CHAR	1	49			OIC BODY REGION (SIXTH)
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
13	CYCLEEX	NUM	2	31			MONTHS CYCLING EXPERIENCE
65	DEATHDT	NUM	2	112			TIME OF DEATH
63	DRINKING	NUM	2	108			ALCOHOL INVOLVEMENT
11	HEIGHT	NUM	2	26			HEIGHT OF PERSON
16	HOSPSTAY	NUM	2	37			HOSPITAL STAY
61	INJSEV	NUM	2	104			INJURY SEVERITY (POLICE RATING)
49	INJSOU1	NUM	2	80			INJURY SOURCE (FIRST)
50	INJSOU2	NUM	2	82			INJURY SOURCE (SECOND)
51	INJSOU3	NUM	2	84			INJURY SOURCE (THIRD)
52	INJSOU4	NUM	2	86			INJURY SOURCE (FOURTH)
53	INJSOU5	NUM	2	88			INJURY SOURCE (FIFTH)
54	INJSOU6	NUM	2	90			INJURY SOURCE (SIXTH)
18	INTREL	NUM	2	41			RELATION OF INTERVIEWEE TO OCC/PED/NM
69	ISS	NUM	2	120			ISS
31	LESION1	CHAR	1	56			LESION (FIRST)
32	LESION2	CHAR	1	57			LESION (SECOND)
33	LESION3	CHAR	1	58			LESION (THIRD)
34	LESION4	CHAR	1	59			LESION (FOURTH)
35	LESION5	CHAR	1	60			LESION (FIFTH)
36	LESION6	CHAR	1	61			LESION (SIXTH)
70	MAIS	NUM	2	122			MAXIMUM KNOWN OCC/PED/NM AIS
72	NATWGT	NUM	4	128	9.2		NATIONAL INFLATION FACTOR
14	PEDLOC	NUM	2	33			LOCATION
66	PEDRF1	NUM	2	114			1ST OTHER PED/NM RELATED FACTOR
67	PEDRF2	NUM	2	116			2ND OTHER PED/NM RELATED FACTOR
68	PEDRF3	NUM	2	118			3RD OTHER PED/NM RELATED FACTOR

7	PERNO	NUM	2	18		PEDESTRIAN/NONMOTORIST'S NUMBER
8	PERTYPE	NUM	2	20		PEDESTRIAN/NONMOTORIST'S TYPE
1	PSU	NUM	2	4		PSU NUMBER
71	PSUWGT	NUM	4	124	9.2	PSU INFLATION FACTOR
73	RATWGT	NUM	4	132	9.2	RATIO ADJUSTMENT
5	RECNO	NUM	2	14		RECORD NUMBER
10	SEX	NUM	2	24		SEX OF PERSON
55	SOUDAT1	NUM	2	92		SOURCE OF DATA (FIRST)
56	SOUDAT2	NUM	2	94		SOURCE OF DATA (SECOND)
57	SOUDAT3	NUM	2	96		SOURCE OF DATA (THIRD)
58	SOUDAT4	NUM	2	98		SOURCE OF DATA (FOURTH)
59	SOUDAT5	NUM	2	100		SOURCE OF DATA (FIFTH)
60	SOUDAT6	NUM	2	102		SOURCE OF DATA (SIXTH)
4	STRATIF	CHAR	1	13		INITIAL STRATIFICATION
37	SYSORG1	CHAR	1	62		SYSTEM/ORGAN (FIRST)
38	SYSORG2	CHAR	1	63		SYSTEM/ORGAN (SECOND)
39	SYSORG3	CHAR	1	64		SYSTEM/ORGAN (THIRD)
40	SYSORG4	CHAR	1	65		SYSTEM/ORGAN (FOURTH)
41	SYSORG5	CHAR	1	66		SYSTEM/ORGAN (FIFTH)
42	SYSORG6	CHAR	1	67		SYSTEM/ORGAN (SIXTH)
15	TREATMNT	NUM	2	35		TREATMENT - MORTALITY
6	VERSION	NUM	2	16		VERSION NUMBER
62	VIOLCHG	NUM	2	106		TRAFFIC VIOLATION CHARGED - PED/NONMOTOR
12	WEIGHT	NUM	3	28		WEIGHT OF PERSON
17	WORKDAYS	NUM	2	39		WORKING DAYS LOST

CONTENTS OF SAS DATA SET NASSANL.VEHICLE

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
57	ACCSEQ1	NUM	2	102			1ST SEQUENCE NUMBER OF EVENT(THIS ACC)
58	ACCSEQ2	NUM	2	104			2ND SEQUENCE NUMBER OF EVENT(THIS ACC)
59	ACCSEQ3	NUM	2	106			3RD SEQUENCE NUMBER OF EVENT(THIS ACC)
60	ACCSEQ4	NUM	2	108			4TH SEQUENCE NUMBER OF EVENT(THIS ACC)
19	AXLESP	NUM	2	42			NUMBER OF AXLES (POWER UNIT)
20	AXLEST1	NUM	2	44			NUMBER OF AXLES (1ST TRAILER)
21	AXLEST2	NUM	2	46			NUMBER OF AXLES(2ND TRAILER)
22	AXLEST3	NUM	2	48			NUMBER OF AXLES(3RD TRAILER)
14	BODYTYPE	NUM	2	32			BODY TYPE
23	BRAKETY	NUM	2	50			TYPE OF BRAKES
16	CABCONF	NUM	2	36			CAB CONFIGURATION
76	CARGOWGT	NUM	3	150			VEHICLE CARGO WEIGHT
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
75	CURBWGT	NUM	3	147			VEHICLE CURB WEIGHT
33	DOF1	NUM	2	70			DIRECTION OF FORCE (HIGHEST)
34	DOF2	NUM	2	72			DIRECTION OF FORCE(2ND HIGHEST)
35	DOF3	NUM	2	74			DIRECTION OF FORCE(3RD HIGHEST)
36	DOF4	NUM	2	76			DIRECTION OF FORCE(4TH HIGHEST)
95	DRIVE	NUM	2	198			FRONT/REAR WHEEL DRIVE
18	DROMEDRY	NUM	2	40			TRACTOR/DROMEDARY
78	DVBASIS	NUM	2	155			BASIS FOR TOTAL DELTA V (HIGHEST)
84	DVC1	NUM	3	169			'CRASH' DAMAGE DATA MAX DELTA V - C1
85	DVC2	NUM	3	172			'CRASH' DAMAGE DATA MAX DELTA V - C2
86	DVC3	NUM	3	175			'CRASH' DAMAGE DATA MAX DELTA V - C3
87	DVC4	NUM	3	178			'CRASH' DAMAGE DATA MAX DELTA V - C4
88	DVC5	NUM	3	181			'CRASH' DAMAGE DATA MAX DELTA V - C5
89	DVC6	NUM	3	184			'CRASH' DAMAGE DATA MAX DELTA V - C6
90	DVD	NUM	3	187			'CRASH' DAMAGE DATA MAX DELTA V - D
83	DVL	NUM	3	166			'CRASH' DAMAGE DATA MAX DELTA V - L
81	DVLAT	NUM	2	161			LATERAL COMPONENT OF DELTA V
80	DVLONG	NUM	2	159			LONGITUDINAL COMPONENT OF DELTA V
79	DVTOTAL	NUM	2	157			TOTAL DELTA V
82	ENERGY	NUM	3	163			ENERGY ABSORPTION
53	EXTENT1	CHAR	2	94			DEFORMATION EXTENT GUIDE (HIGHEST)
54	EXTENT2	CHAR	2	96			DEFORMATION EXTENT GUIDE(2ND HIGHEST)
55	EXTENT3	CHAR	2	98			DEFORMATION EXTENT GUIDE(3RD HIGHEST)
56	EXTENT4	CHAR	2	100			DEFORMATION EXTENT GUIDE(4TH HIGHEST)
68	FIRE	NUM	2	133			FIRE OCCURRENCE
37	GAD1	CHAR	1	78			DEFORMATION LOCATION (HIGHEST)
38	GAD2	CHAR	1	79			DEFORMATION LOCATION(2ND HIGHEST)
39	GAD3	CHAR	1	80			DEFORMATION LOCATION(3RD HIGHEST)
40	GAD4	CHAR	1	81			DEFORMATION LOCATION(4TH HIGHEST)
24	GVWR	NUM	2	52			GROSS VEHICLE WEIGHT RATING
74	HAZCARGO	NUM	2	145			HAZARDOUS CARGO
69	IMPTYPE	NUM	2	135			TYPE OF MOST SEVERE IMPACT
72	JACKNIFE	NUM	2	141			JACKKNIFE INVOLVEMENT
67	MAGINTRU	NUM	2	131			MAGNITUDE OF INTRUSION

12	MAKE	NUM	2	28		VEHICLE MAKE
13	MODEL	NUM	2	30		VEHICLE MODEL
11	MODELYR	NUM	2	26		VEHICLE MODEL YEAR
104	NATWGT	NUM	4	219	9.2	NATIONAL INFLATION FACTOR
29	OBJCONT1	NUM	2	62		OBJECT CONTACTED (HIGHEST)
30	OBJCONT2	NUM	2	64		OBJECT CONTACTED(2ND HIGHEST)
31	OBJCONT3	NUM	2	66		OBJECT CONTACTED(3RD HIGHEST)
32	OBJCONT4	NUM	2	68		OBJECT CONTACTED(4TH HIGHEST)
8	OCCFORMS	NUM	2	20		NUMBER OF OCCUPANT FORMS SUBMITTED
64	ODOMETER	NUM	3	124		ODOMETER READING
70	OTHROLE	NUM	2	137		ROLE OF OTHER CONTACTED VEH, OBJ, PER
97	OTVEHWGT	NUM	3	202		WEIGHT OF THE OTHER VEHICLE
65	PCINTEG	NUM	2	127		PASSENGER COMPARTMENT INTEGRITY
66	PCINTRU	NUM	2	129		PASSENGER COMPARTMENT INTRUSION
1	PSU	NUM	2	4		PSU NUMBER
103	PSUWGT	NUM	4	215	9.2	PSU INFLATION FACTOR
105	RATWGT	NUM	4	223	9.2	RATIO ADJUSTMENT
5	RECNO	NUM	2	14		RECORD NUMBER
62	REGISTRA	NUM	2	120		REGISTRATION OF VEHICLE
71	ROLLOVER	NUM	2	139		ROLLOVER INVOLVEMENT
73	SAFETYB	NUM	2	143		SUBMISSION OF POT. SAFETY PROB. BULLETIN
17	SEATCAP	NUM	2	38		SEATING CAPACITY/TRUCK VOCATION
41	SHL1	CHAR	1	82		SPECIFIC HORZONTAL LOCATION (HIGHEST)
42	SHL2	CHAR	1	83		SPECIFIC HORZONTAL LOCATION(2ND HIGHEST)
43	SHL3	CHAR	1	84		SPECIFIC HORZONTAL LOCATION(3RD HIGHEST)
44	SHL4	CHAR	1	85		SPECIFIC HORZONTAL LOCATION(4TH HIGHEST)
98	SHORT	NUM	2	205		VEHICLE SHORT FORM
77	SOURCWGT	NUM	2	153		REPORTED SOURCE OF CARGO WEIGHT
63	SPECUSE	NUM	2	122		VEHICLE SPECIAL USE (THIS TRIP)
4	STRATIF	CHAR	1	13		INITIAL STRATIFICATION
45	SVL1	CHAR	1	86		SPECIFIC VERTICAL LOCATION (HIGHEST)
46	SVL2	CHAR	1	87		SPECIFIC VERTICAL LOCATION(2ND HIGHEST)
47	SVL3	CHAR	1	88		SPECIFIC VERTICAL LOCATION(3RD HIGHEST)
48	SVL4	CHAR	1	89		SPECIFIC VERTICAL LOCATION(4TH HIGHEST)
49	TDD1	CHAR	1	90		TYPE OF DAMAGE DISTRIBUTION (HIGHEST)
50	TDD2	CHAR	1	91		TYPE OF DAMAGE DISTRIBUTION(2ND HIGHEST)
51	TDD3	CHAR	1	92		TYPE OF DAMAGE DISTRIBUTION(3RD HIGHEST)
52	TDD4	CHAR	1	93		TYPE OF DAMAGE DISTRIBUTION(4TH HIGHEST)
10	TOWAWAY	NUM	2	24		POLICE INDICATED MANNER OF LEAVING SCENE
15	TOWHITCH	NUM	2	34		TOWED TRAILING UNIT
91	TRAVELSP	NUM	2	190		TRAVEL SPEED
96	VAIS	NUM	2	200		MAXIMUM KNOWN AIS IN THIS VEHICLE
7	VEHNO	NUM	2	18		VEHICLE NUMBER
92	VEHRF1	NUM	2	192		1ST OTHER VEHICLE RELATED FACTOR
93	VEHRF2	NUM	2	194		2ND OTHER VEHICLE RELATED FACTOR
94	VEHRF3	NUM	2	196		3RD OTHER VEHICLE RELATED FACTOR
9	VEHROLE	NUM	2	22		VEHICLE ROLE
25	VEHSEQ1	NUM	2	54		1ST SEQUENCE NUMBER OF EVENT(THIS VEH)
26	VEHSEQ2	NUM	2	56		2ND SEQUENCE NUMBER OF EVENT(THIS VEH)
27	VEHSEQ3	NUM	2	58		3RD SEQUENCE NUMBER OF EVENT(THIS VEH)
28	VEHSEQ4	NUM	2	60		4TH SEQUENCE NUMBER OF EVENT(THIS VEH)
6	VERSION	NUM	2	16		VERSION NUMBER
61	VIN	CHAR	10	110		VEHICLE IDENTIFICATION NUMBER
99	VINJSER	NUM	2	207		NUMBER OF SERIOUS INJ THIS VEHICLE
100	VINJURED	NUM	2	209		TOTAL NUMBER INJURIES THIS VEHICLE
101	VINLNGTH	NUM	2	211		VIN LENGTH

102	VTREAT	NUM	2	213		MAXIMUM TREATMENT(THIS VEH)
107	WHEELLNG	NUM	8	235	5.1	WHEELBASE LONG
106	WHEELSHT	NUM	8	227	5.1	WHEELBASE SHORT

CONTENTS OF SAS DATA SET NASSANL.DRIVER

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
48	ACCESS	NUM	2	102			ACCESS CONTROL
22	ACC12MO	NUM	2	50			HOW MANY ACCIDENTS WITHIN PAST 12 MONTHS
33	ALCTEST	NUM	2	72			MEASURED BLOOD ALCOHOL LEVEL
53	ALIGNMNT	NUM	2	123			ROADWAY ALIGNMENT
21	AVOIDMAN	NUM	2	48			ATTEMPTED AVOIDANCE MANEUVER
14	BMCSREG	NUM	2	34			BUREAU OF MOTOR CARRIER SAFETY REGULATED
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
15	DRCLASS	NUM	2	36			DRIVER'S CLASSIFICATION
32	DRINKING	NUM	2	70			ALCOHOL INVOLVEMENT
60	DRIRF1	NUM	2	137			1ST OTHER DRIVER RELATED FACTOR
61	DRIRF2	NUM	2	139			2ND OTHER DRIVER RELATED FACTOR
62	DRIRF3	NUM	2	141			3RD OTHER DRIVER RELATED FACTOR
9	DRPRES	NUM	2	22			DRIVER PRESENCE IN VEHICLE
16	DRTRAIN	NUM	2	38			DRIVER EDUCATION
63	ENVRF1	NUM	2	143			1ST OTHER ENVIRONMENTAL RELATED FACTOR
64	ENVRF2	NUM	2	145			2ND OTHER ENVIRONMENTAL RELATED FACTOR
65	ENVRF3	NUM	2	147			3RD OTHER ENVIRONMENTAL RELATED FACTOR
17	FREQDRIV	NUM	2	40			FREQUENCY DRIVING ROAD
54	GRADE	NUM	2	125			ROADWAY PROFILE
50	HPMS	CHAR	13	106			HPMS SAMPLE NUMBER
45	LANES	NUM	2	96			NUMBER OF TRAVEL LANES
35	LCOMPL	NUM	2	76			COMPLIANCE WITH LICENSE RESTRICTIONS
38	LREST	NUM	2	82			LICENSE RESTRICTION
39	LRESTADD	NUM	2	84			ADDITIONAL LICENSE RESTRICTION
34	LSOURCE	NUM	2	74			LICENSE SOURCE
36	LSTATUS	NUM	2	78			LICENSE STATUS THIS CLASS OF VEHICLE
37	LTYPCOMP	NUM	2	80			DRIVER LISENCE TYPE COMPLAINCE
46	MEDIANT	NUM	2	98			MEDIAN TYPE
47	MEDIANW	NUM	2	100			MEDIAN WIDTH
12	MILETOT	NUM	3	29			TOTAL MILAGE ALL VEHICLES
11	MILEVEH	NUM	3	26			ESTIMATED MILEVEH THIS VEHICLE
10	MONDRIVE	NUM	2	24			MONTHS DRIVING EXP. THIS CLASS VEHICLE
67	NATWGT	NUM	4	153	9.2		NATIONAL INFLATION FACTOR
8	OCUPANTS	NUM	2	20			NUMBER OF OCCUPANTS THIS MOTOR VEHICLE
44	PREVACC	NUM	2	94			PREVIOUS ACCIDENTS
42	PREVDWI	NUM	2	90			PREVIOUS D.W.I. CONVICTIONS
41	PREVOTH	NUM	2	88			PREVIOUS MOVING VIOLATIONS CONVICTIONS
40	PREVSPD	NUM	2	86			PREVIOUS SPEEDING CONVICTIONS
43	PREVSUS	NUM	2	92			PREVIOUS SUSPENSIONS AND REVOCATIONS
20	PRIOREAR	NUM	2	46			3RD TO LAST ACTION PRIOR TO AVOID. MAN.
18	PRIORLAT	NUM	2	42			LAST ACTION PRIOR TO AVOIDANCE MANEUVERS
19	PRIORMID	NUM	2	44			2ND TO LAST ACTION PRIOR TO AVOID. MAN.
1	PSU	NUM	2	4			PSU NUMBER
66	PSUWGT	NUM	4	149	9.2		PSU INFLATION FACTOR
68	RATWGT	NUM	4	157	9.2		RATIO ADJUSTMENT
5	RECNO	NUM	2	14			RECORD NUMBER
51	SHOULDLT	NUM	2	119			LEFT SHOULDER TYPE

52	SHOULDRT	NUM	2	121	RIGHT SHOULDER TYPE
59	SPLIMIT	NUM	2	135	SPEED LIMIT
4	STRATIF	CHAR	1	13	INITIAL STRATIFICATION
56	SURCOND	NUM	2	129	ROADWAY SURFACE CONDITION
55	SURTYPE	NUM	2	127	ROADWAY SURFACE TYPE
57	TRAFCONT	NUM	2	131	TRAFFIC CONTROLS
49	TRAFFLOW	NUM	2	104	TRAFFICWAY FLOW
58	TRCTLFCT	NUM	2	133	TRAFFIC CONTROL DEVICE FUNCTIONING
13	TYPEOP	NUM	2	32	TYPE OF OPERATION OR CARRIER
7	VEHNO	NUM	2	18	VEHICLE NUMBER
6	VERSION	NUM	2	16	VERSION NUMBER
28	VIOLCLOS	NUM	2	62	FOLLOWING TOO CLOSELY VIOLATION
24	VIOLDWI	NUM	2	54	D.W.I. VIOLATION CHARGED
30	VIOLOTH	NUM	2	66	OTHER VIOLATION CHARGED
25	VIOLRECK	NUM	2	56	RECKLESS DRIVING VIOLATION CHARGED
27	VIOLROW	NUM	2	60	FAILURE TO YIELD R-O-W VIOLATION
29	VIOLSIGN	NUM	2	64	RUNNING TRAFFIC SIG./STOP SIGN VIOLATION
23	VIOLSP	NUM	2	52	SPEEDING VIOLATION CHARGED
26	VIOLSUSP	NUM	2	58	DRIVING W/SUSP./REV. LICENSE CHARGED
31	VIOLUNK	NUM	2	68	UNKNOWN VIOLATION CHARGED

CONTENTS OF SAS DATA SET NASSANL.OCCUPANT

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
9	AGE	NUM	2	22			AGE OF PERSON
52	AIS1	NUM	2	86			AIS SEVERITY (FIRST)
53	AIS2	NUM	2	88			AIS SEVERITY (SECOND)
54	AIS3	NUM	2	90			AIS SEVERITY (THIRD)
55	AIS4	NUM	2	92			AIS SEVERITY (FOURTH)
56	AIS5	NUM	2	94			AIS SEVERITY (FIFTH)
57	AIS6	NUM	2	96			AIS SEVERITY (SIXTH)
34	ASPECT1	CHAR	1	68			ASPECT (FIRST)
35	ASPECT2	CHAR	1	69			ASPECT (SECOND)
36	ASPECT3	CHAR	1	70			ASPECT (THIRD)
37	ASPECT4	CHAR	1	71			ASPECT (FOURTH)
38	ASPECT5	CHAR	1	72			ASPECT (FIFTH)
39	ASPECT6	CHAR	1	73			ASPECT (SIXTH)
25	AUTAVAIL	NUM	2	55			PASSIVE RESTRAINT SYSTEM - AVAILABILITY
26	AUTFNCT	NUM	2	57			PASSIVE RESTRAINT SYSTEM - FUNCTION
28	BODYREG1	CHAR	1	61			OIC BODY REGION (FIRST)
29	BODYREG2	CHAR	1	62			OIC BODY REGION (SECOND)
30	BODYREG3	CHAR	1	63			OIC BODY REGION (THIRD)
31	BODYREG4	CHAR	2	64			OIC BODY REGION (FOURTH)
32	BODYREG5	CHAR	1	66			OIC BODY REGION (FIFTH)
33	BODYREG6	CHAR	1	67			OIC BODY REGION (SIXTH)
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
71	DEATHDT	NUM	2	124			TIME OF DEATH
17	EJCTAREA	NUM	2	39			EJECTION AREA
18	EJCTMED	NUM	2	41			EJECTION MEDIUM
16	EJECTION	NUM	2	37			EJECTION
15	ENTRAP	NUM	2	35			ENTRAPMENT
11	HEIGHT	NUM	2	26			HEIGHT OF PERSON
21	HOSPSTAY	NUM	2	47			HOSPITAL STAY
70	INJSEV	NUM	2	122			INJURY SEVERITY (POLICE RATING)
58	INJSOU1	NUM	2	98			INJURY SOURCE (FIRST)
59	INJSOU2	NUM	2	100			INJURY SOURCE (SECOND)
60	INJSOU3	NUM	2	102			INJURY SOURCE (THIRD)
61	INJSOU4	NUM	2	104			INJURY SOURCE (FOURTH)
62	INJSOU5	NUM	2	106			INJURY SOURCE (FIFTH)
63	INJSOU6	NUM	2	108			INJURY SOURCE (SIXTH)
27	INTREL	NUM	2	59			RELATION OF INTERVIEWEE TO OCC/PED/NM
72	ISS	NUM	2	126			ISS
40	LESION1	CHAR	1	74			LESION (FIRST)
41	LESION2	CHAR	1	75			LESION (SECOND)
42	LESION3	CHAR	1	76			LESION (THIRD)
43	LESION4	CHAR	1	77			LESION (FOURTH)
44	LESION5	CHAR	1	78			LESION (FIFTH)
45	LESION6	CHAR	1	79			LESION (SIXTH)
73	MAIS	NUM	2	128			MAXIMUM KNOWN OCC/PED/NM AIS
23	MANAVAIL	NUM	2	51			ACTIVE RESTRAINT SYSTEM - AVAILABILITY
24	MANUSE	NUM	2	53			ACTIVE RESTRAINT SYSTEM - USE

19	MEDSTA	NUM	2	43		MEDIUM STATUS
75	NATWGT	NUM	4	134	9.2	NATIONAL INFLATION FACTOR
8	OCCNO	NUM	2	20		OCCUPANT NUMBER
1	PSU	NUM	2	4		PSU NUMBER
74	PSUWGT	NUM	4	130	9.2	PSU INFLATION FACTOR
76	RATWGT	NUM	4	138	9.2	RATIO ADJUSTMENT
5	RECNO	NUM	2	14		RECORD NUMBER
13	ROLE	NUM	2	31		OCCUPANT'S ROLE
14	SEATPOS	NUM	2	33		OCCUPANT'S SEAT POSITION
18	SEX	NUM	2	24		SEX OF PERSON
64	SOUDAT1	NUM	2	110		SOURCE OF DATA (FIRST)
65	SOUDAT2	NUM	2	112		SOURCE OF DATA (SECOND)
66	SOUDAT3	NUM	2	114		SOURCE OF DATA (THIRD)
67	SOUDAT4	NUM	2	116		SOURCE OF DATA (FOURTH)
68	SOUDAT5	NUM	2	118		SOURCE OF DATA (FIFTH)
69	SOUDAT6	NUM	2	120		SOURCE OF DATA (SIXTH)
4	STRATIF	CHAR	1	13		INITIAL STRATIFICATION
46	SYSORG1	CHAR	1	80		SYSTEM/ORGAN (FIRST)
47	SYSORG2	CHAR	1	81		SYSTEM/ORGAN (SECOND)
48	SYSORG3	CHAR	1	82		SYSTEM/ORGAN (THIRD)
49	SYSORG4	CHAR	1	83		SYSTEM/ORGAN (FOURTH)
50	SYSORG5	CHAR	1	84		SYSTEM/ORGAN (FIFTH)
51	SYSORG6	CHAR	1	85		SYSTEM/ORGAN (SIXTH)
20	TREATMNT	NUM	2	45		TREATMENT - MORTALITY
7	VEHNO	NUM	2	18		VEHICLE NUMBER
6	VERSION	NUM	2	16		VERSION NUMBER
12	WEIGHT	NUM	3	28		WEIGHT OF PERSON
22	WORKDAYS	NUM	2	49		WORKING DAYS LOST

APPENDIX A

DATA COLLECTION FORMS

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

NATIONAL ACCIDENT SAMPLING SYSTEM — CONTINUOUS SAMPLING SUBSYSTEM

Accident Data

1. Primary Sampling Unit Number — (1–2)
2. Case Number – Stratification — (3–6)
3. Record Number — 1 (7)
4. Transaction Code — (8)
5. Version Number — 5 (9)
6. Investigator I.D. Number — (10)

IDENTIFICATION

7. Date (Month, Day, Year) — __/__/8 2 (11–16)

8. Final Stratification
Mark the box which indicates this accident's final stratum.
Code the box's letter in the space provided.

ACCIDENT TYPE		Most Severe Police Reported Injury			
		K	A	B, C, O or U	
				TRANSPORTED	NONTRANSPORTED
Ped or Nonmotorist		A	B	C	D
Motorcycle		E	F	G	H
Medium or Heavy Truck		J	K	L	M
Light Truck or Van	TOWAWAY	N	P	Q	R
	NONTOWAWAY	N	P	Y	Y
Other Motor Vehicle	TOWAWAY	S	T	V	W
	NONTOWAWAY	S	T	Z	Z

9. Sampling Interval — (17)
(NOTE: Code the result from the computer sampling program.)
(18–22)

10. First Harmful Event

Non-Collision
___(01) Overturn
___(02) Fire or explosion
___(03) Immersion
___(04) Gas inhalation
___(05) Fell from vehicle
___(06) Injured in vehicle
___(07) Other non-collision

Collision With:
___(08) Pedestrian
___(09) Pedalcyclist
___(10) Railway train
___(11) Animal
___(12) Motor vehicle in transport (same roadway)
___(13) Motor vehicle in transport (other roadway)
___(14) Parked motor vehicle
___(15) Other type nonmotorist
___(16) Thrown or falling object
___(17) Boulder
___(18) Other object (not fixed)

Collision with Fixed Object:
___(19) Building
___(20) Impact attenuator
___(21) Bridge pier or abutment
___(22) Bridge parapet end
___(23) Bridge rail
___(24) Guardrail
___(25) Concrete traffic barrier
___(26) Other longitudinal barrier
___(27) Highway/Traffic sign post
___(28) Overhead sign support
___(29) Light support
___(30) Utility pole
___(31) Other post, pole, or support
___(32) Culvert
___(33) Curb
___(34) Ditch
___(35) Embankment – earth
___(36) Embankment – rock, stone or concrete
___(38)* Fence (wooden, wire, chain link, etc.)
___(39) Wall (stone, rock, metal, etc.)
___(40) Fire hydrant
___(41) Shrubbery
___(42) Tree
___(43) Other fixed object
___(44) Pavement surface irregularity (pothole, grooved, grates)
___(99) Unknown

(23–24)

*Code 37 is omitted to maintain consistency with the Fatal Accident Reporting System (FARS).

11. 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

12. 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
___ (9) Unknown
26

13. Number of Vehicle Forms Submitted

_____ Code only the number of motor vehicles in transport for which a VEHICLE FORM was submitted.
27 28

14. Number of Pedestrian & Nonmotorist Forms Submitted

_____ Code only the number of pedestrians and/or non-motorists for which a PEDESTRIAN & NONMOTORIST FORM was submitted.
29 30

15. Police Reported Accident Severity

___ (0) No injury (0)
___ (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
31

16. Hit and Run

___ (0) No hit-and-run
___ (1) Hit motor vehicle (in transport)
___ (2) Hit pedestrian or nonmotorist
___ (3) Hit parked vehicle or object
32

AMBIENT CONDITIONS

17. Time

___:___ Code reported military time of accident.
(NOTE: midnight = 2400)
___ (9999) Unknown
33 34 35 36

18. Light conditions

___ (1) Daylight
___ (2) Dark
___ (3) Dark, but lighted
___ (4) Dawn
___ (5) Dusk
___ (9) Unknown
37

19. Atmospheric Conditions

___ (1) No adverse atmospheric 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.): _____
___ (9) Unknown
38

ADMINISTRATIVE ITEMS

20. Land Use
(NOTE: Use FHWA required individual state defintions for the roadway segment on which the accident occurred.)
___ (1) Urban
___ (2) Rural
___ (9) Unknown
39

21. Federal Aid System

___ (1) Interstate
___ (2) Other federal aid primary
___ (3) Federal aid secondary
___ (4) Federal aid urban arterial
___ (5) Federal aid urban collector
___ (6) Nonfederal aid arterial
___ (7) Nonfederal aid collector
___ (8) Nonfederal aid local
___ (9) Unknown
40

22. Class Trafficway

___ (1) Interstate
___ (2) Other U.S. Route
___ (3) Other State Route
___ (4) County Road
___ (5) Local Street
___ (8) Other: _____
___ (9) Unknown
41

23. Roadway Function Class

___(1) Principal arterial-interstate
___(2) Principal arterial-other urban freeway or expressway
___(3) Principal arterial-other
___(4) Minor arterial
___(5) Urban Collector
___(6) Major rural collector
___(7) Minor rural collector
___(8) Local road or street
___(9) Unknown

42

24. 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 mergence/divergence related
___(09) Entrance or exit ramp
___(10) Interchange area
___(11) Driveway, alley access related
___(12) Railroad grade crossing
___(13) Crossover related
___(99) Unknown

43 44

25. School Bus Related

___(0) No
___(1) Yes

45

26. 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

46

ENVIRONMENTAL DATA

27. Number of Travel Lanes

___(1) One
___(2) Two
___(3) Three
___(4) Four
___(5) Five
___(6) Six
___(7) Seven or more
___(9) Unknown

47

28. Median Type

___(0) No Median
___(1) Curbed
___(2) Positive Barrier
___(3) Unprotected
___(9) Unknown

48

29. Median Width

___(00) No median
_____Code actual measured value up to 96 feet.
___(97) 97 feet and above
___(99) Unknown

49 50

30. Access Control

___(1) Full
___(2) Partial
___(3) Uncontrolled
___(9) Unknown

51

31. Trafficway Flow

___(0) Not physically divided (two way traffic)
___(1) Divided trafficway – median strip without traffic barrier
___(2) Divided trafficway – median strip with traffic barrier
___(3) One way trafficway
___(9) Unknown

52

32. Interchange Geometry

___(0) No interchange
___(1) Full diamond
___(2) Partial diamond
___(3) Full cloverleaf
___(4) Partial cloverleaf
___(5) Trumpet
___(6) Directional
___(8) Other:_____
___(9) Unknown

53

33. Shoulder Presence

___(0) No shoulder
___(1) One shoulder
___(2) Two shoulders
___(9) Unknown

54

34. Roadway Alignment

___(1) Straight
___(2) Curve
___(9) Unknown

55

35. Roadway Profile

___(1) Level
___(2) Grade (≥ 2%) slope measurement:_____%
___(3) Hillcrest
___(4) Sag
___(9) Unknown

56

36. Roadway Surface Type

___(1) Concrete
___(2) Bituminous
___(3) Brick or block
___(4) Slag, gravel or stone
___(5) Dirt
___(8) Other: _____
___(9) Unknown

57

37. Roadway Surface Condition

___(1) Dry
___(2) Wet
___(3) Snow or slush
___(4) Ice
___(5) Sand, dirt or oil
___(8) Other: _____
___(9) Unknown

58

38. Traffic Control Device

___(00) No controls

Not at railroad grade crossing

Highway traffic signals
___(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
___(09) Unknown highway traffic signal

Regulatory signs
___(20) Stop sign
___(21) Yield sign
___(28) Other regulatory sign
___(29) Unknown type regulatory sign

School Zone Signs
___(30) School speed limit sign
___(31) School advance or crossing sign
___(38) Other school related sign
___(39) Unknown type school zone sign

Warning Signs
___(40) Warning sign

Miscellaneous Controls
___(50) Officer, crossing guard, flagman, etc.

At railroad grade crossing

Active Devices
___(60) Gates
___(61) Flashing lights
___(62) Traffic control signal
___(63) Wigwags
___(64) Bells
___(68) Other train activated device
___(69) Active device, type unknown

Passive Devices
___(70) Crossbucks
___(71) Stop sign
___(72) Other railroad crossing sign
___(73) Special warning device – watchman, flagged by crew.
___(78) Other passive device
___(79) Passive device, type unknown

Miscellaneous Controls
___(80) Grade crossing controlled type unknown

Whether or not at railroad grade crossing

___(98) Other
___(99) Unknown

59 60

39. Traffic Control Device Functioning

___(0) No traffic Control
___(1) Traffic control not functioning
___(2) Traffic control functioning – functioning improperly
___(3) Traffic control functioning properly
___(9) Unknown

61

40. Accident Occurrence in School Zone

___(0) No
___(1) Yes
___(9) Unknown

62

41. Speed Limit

___(00) No statutory limit
_____ m.p.h – Code actual posted or statutory speed limit.
___(99) Unknown

63 64

42. Restriction of Roadway at Scene (NOTE: The Restriction must have existed prior to this accident.)

___(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)
___(8) Other roadway obstruction:
_____
___(9) Unknown

65

(NOTE: If more than one restriction exists they should be coded in the order in which they are numbered.)

43. Additional Restriction of Roadway at Scene
(NOTE: See question 42 note above.)

___ (0) No additional Restrictions
___ (2) Previous accident on roadway
___ (3) Maintenance, repair, or construction activity on roadway
___ (4) Roadway immersion (e.g., standing water)
___ (5) More than two restrictions
___ (8) Other roadway restriction: _____
___ (9) Unknown

66

SPECIAL STUDIES – INDICATORS

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

◯ NO – Code 0 for each of questions 44 through 53

If YES – Check (✓) each of the studies from the list to the right that were indicated; code 1 for the checked studies and 0 for the studies not checked.

44. ___ SS6-Emergency Medical Service 67
45. ___ SS7-Pole 68
46. ___ SS8-Longitudinal Barrier 69
47. ___ SS9-Crash Cushion 70
48. ___ SS10-Pedestrian Typing 71
49. ___ SS11 72
50. ___ SS12 73
51. ___ SS13 74
52. ___ SS14 75
53. ___ SS15 76

NOTE: Leave blank any special studies which are not in effect at the time this case is sampled.

NATIONAL ACCIDENT SAMPLING SYSTEM

CONTINUOUS SAMPLING SUBSYSTEM

Accident L g

FORMS: For Team Use

	Accident	Collision Diagram	Pedestrian & Nonmotorist	Vehicle	Driver	Occupant	Medical	CRASH Summary	Slides (Number)
Police: ____									
Required:	1								
Include:									

COMPLETED BY TEAM

Duplicate columns 1 through 8 from the first page of this form.

5. Card Number 1 (9)

6. Final Stratification (10)

	Month	Day	Year
7. Date of Accident	(11)(12)	(13)(14)	8 (15) 2 (16)
8. Date Sampled (listed)	(17)(18)	(19)(20)	8 (21) 2 (22)
9. Date Assigned to Investigator(s)	(23)(24)	(25)(26)	8 (27) 2 (28)
10. Date Scene Field Work Completed	(29)(30)	(31)(32)	8 (33) 2 (34)
11. Completing Person (Initials)		(35)	(36) (37)
12. Date Case Reviewed and Approved for Submission to ZC	(38)(39)	(40)(41)	8 (42) 2 (43)
13. Completing Person (Initials)		(44)	(45) (46)
14. Date Data Entered (RDE)	(47)(48)	(49)(50)	8 (51) 2 (52)
15. Completing Person (Initials)		(53)	(54) (55)

16. ☐ (1) Case Complete – No Updates Required

☐ (2) Case to be Updated

☐ (3) Case Dropped – Reason (56)

17. Date Case Released to Zone Center (57)(58)(59)(60) 8 (61) 2 (62)

COMPLETED BY ZONE CENTER (Optional)

18. Type of Review

___ (1) All variables ___ (2) Key variables (63)

19. Case Status

___ (1) Complete ___ (2) Not complete (64)

	Month	Day	Year	Initials
20. Date Received at Zone			8 (69) 2 (70)	
21. Center GO TO 2 (9)	(65)(66)	(67)(68)		(71)(72)(73)
22. Date Review Number			8 (14) 2 (15)	
23. One Completed	(10)(11)	(12)(13)		(16)(17)(18)
24. Date Review Number Two			8 (23) 2 (24)	
25. Completed	(19)(20)	(21)(22)		(25)(26)(27)
26. Date Review Number.			8 (32) 2 (33)	
27. Three Completed	(28)(29)	(30)(31)		(34)(35)(36)
28. Date Review Number			8 (41) 2 (42)	
29. Four Completed	(37)(38)	(39)(40)		(43)(44)(45)
30. Date Medical Record			8 (50) 2 (51)	
31. Updates Received	(46)(47)	(48)(49)		(52)(53)(54)
32. Date Official Record			8 (59) 2 (60)	
33. Updates Received	(55)(56)	(57)(58)		(61)(62)(63)
34. Date Case Corrections			8 (68) 2 (69)	
35. Entered into Data Base GO To 3 (9)	(64)(65)	(66)(67)		(70)(71)(72)
36. Date Update Corrections			8 (14) 2 (15)	
37. Entered into Data Base	(10)(11)	(12)(13)		(16)(17)(18)
38. Date Case released to			8 (23) 2 (24)	
39. Master File	(19)(20)	(21)(22)		(25)(26)(27)

COMPLETED BY ZONE CENTER

NOTE: Duplicate Columns 1 through 8 and go to Card: 4 (9).

- – Not in error, not to be updated, and not missing
- 1 – To be updated
- 2 – Error (not correctable)
- 3 – Error (correctable)
- 4 – Questionable
- 5 – Updated and corrected
- 6 – Sequencing error in CDC's or injury data
- 7 – Error incorrectly noted
- 8 – Data entry in error
- 9 – Unknown coded on field form
- 0 – RDE system error

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Response	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
Variable	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Response	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)
Variable	51	52	53	54	55	56	57	5	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Response	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)				

NATIONAL ACCIDENT SAMPLING SYSTEM

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

CONTINUOUS SAMPLING SUBSYSTEM

PEDESTRIAN AND NONMOTORIST

Form Approved:
O.M.B. No. 2127-0021

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 — 5 / 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:
_____
___(4) Occupant of an animal related nonmotor vehicle transport device
___(5) Occupant of vehicle not in transport
___(8) Other nonmotorist:
_____
_____
___(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 reported height to the nearest inch.
___(99) Unknown — 17 18

12. Pedestrian or Nonmotorist's Weight

_____ pounds – Code actual reported weight to the nearest pound.
___(999) — 19 20 21

13. Months Cycling Experience

_____ months – Code actual months of previous cycling experience up to 60.
(NOTE: 44 days or less equals 1 month; a month and a half equals 2 months.)
___(00) Non-cyclist
___(61) Greater than 60 months (5 years)
___(99) Unknown — 22 23

ACCIDENT DESCRIPTION INSTRUCTIONS

Do not interrupt person during general description (narrative), unless he/she requests your assistance. Attempt to summarize the narrative while minimizing any disruptions of the person's internal logic. Specific questions may be asked later. Write these questions down in the space below or on the other side of the page, prior to the interview.

SPECIFIC QUESTION: _____

_____

_____

_____

_____

_____

GENERAL DESCRIPTION OF ACCIDENT SEQUENCE

(This represents a synopsis of an uninterrupted narrative by the pedestrian or nonmotorist.)

 This report is authorized by P.L. 89-563, Title 1, Sections 106, 108, and 112. While you are not required to respond, your cooperation is

ACCIDENT DIAGRAM

Draw a rough sketch of the accident sequence as described by the pedestrian or nonmotorist. Note impact and final rest positions carefully. If possible, relate these to some identifiable object in the area, and record vehicle and pedestrian or nonmotorist headings relative to an object, as well.

Indicate North

14. Pedestrian or Nonmotorist's Location

___(01) Intersection – in crosswalk
___(02) Intersection – on roadway, not in crosswalk
___(03) Intersection – on roadway, crosswalk not available
___(04) Intersection – on roadway, crosswalk availability unknown
___(05) Intersection – not on roadway
___(09) Intersection – unknown
___(10) 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 – bike path
___(17) Nonintersection – outside trafficway
___(18) Nonintersection – other, not on roadway
___(19) Nonintersection – unknown
___(99) Unknown

24 25

15. – 19. Blank (These variables are left blank so that numbering consistency can be maintained with compatible variables on the Occupant Data form.)

20. Treatment – Mortality

Interviews	Official Sources
___(1) Fatal	_____
___(2) Fatal – ruled disease	_____
Nonfatal	
___(3) Hospitalization	_____
___(4) Transported and released	_____
___(5) Treatment – other: _____	_____
___(6) No treatment	_____
___(9) Unknown	_____

26

21. Hospital Stay

___(00) Not hospitalized
___day(s) – Code the number of days (*up through 60*) that the pedestrian or nonmotorist stayed in hospital. _____
___(61) 61 days or more _____
___(99) Unknown _____

27 28

22. Working Days Lost

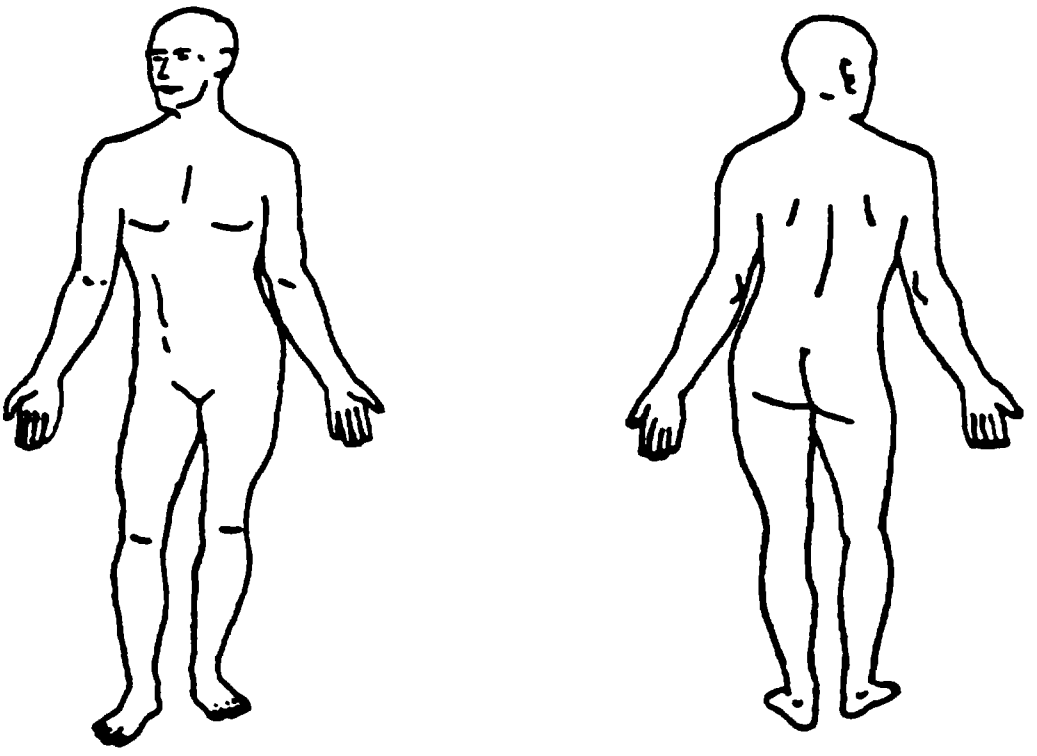
___(00) No working days lost
___day(s) – Code the number of days (*up through 60*) that the pedestrian or nonmotorist lost from work due to the most [illegible]
___(61) 61 days or more
___(62) Fatally injured
___(99) Unknown

29 30

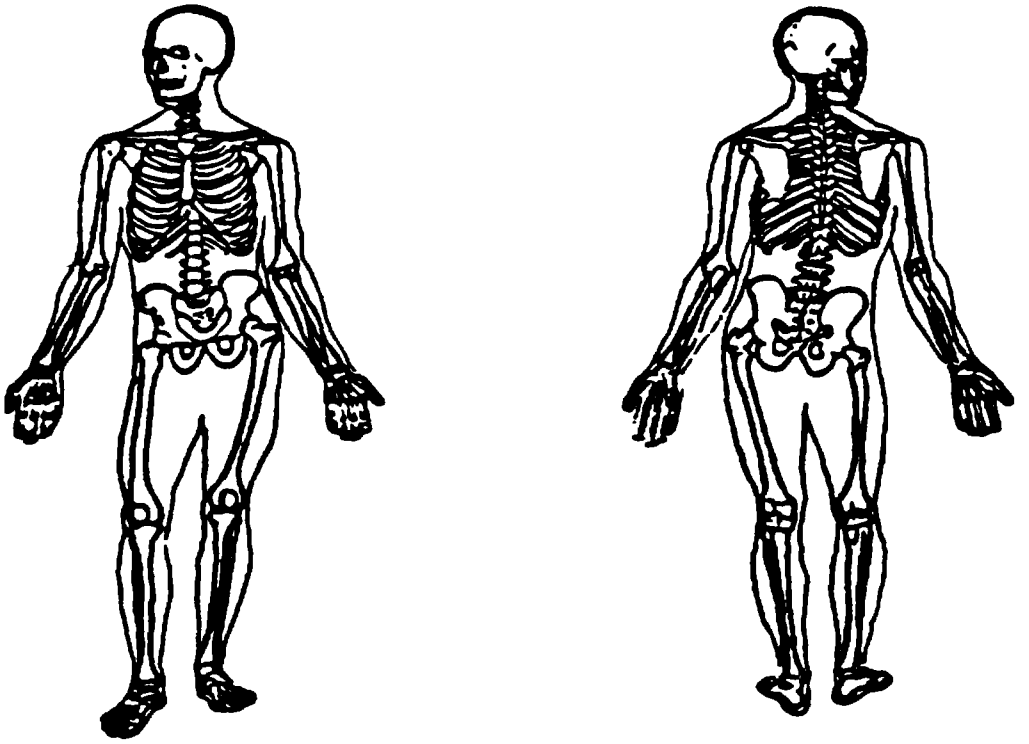
INJURY DATA FROM INTERVIEWEE

Indicate the *Nature*, *Location*, and injury *Source* of all injuries.

Soft Tissue Injuries



Skeletal Injuries



23. – 26. Blank (These variables are left blank so that numbering consistency can be maintained with compatible variables on the Occupant Data form.)

27. Relation of Interviewee to Pedestrian or Nonmotorist

___(0) No interview
___(1) Same person
___(2) Other accident involved person:

_____

Uninvolved Person
___(3) Relative or friend
___(4) Other uninvolved person:

_____

Combination of Persons
___(5) One of which was accident involved
___(6) None of which were accident involved
___(9) Unknown

___
31

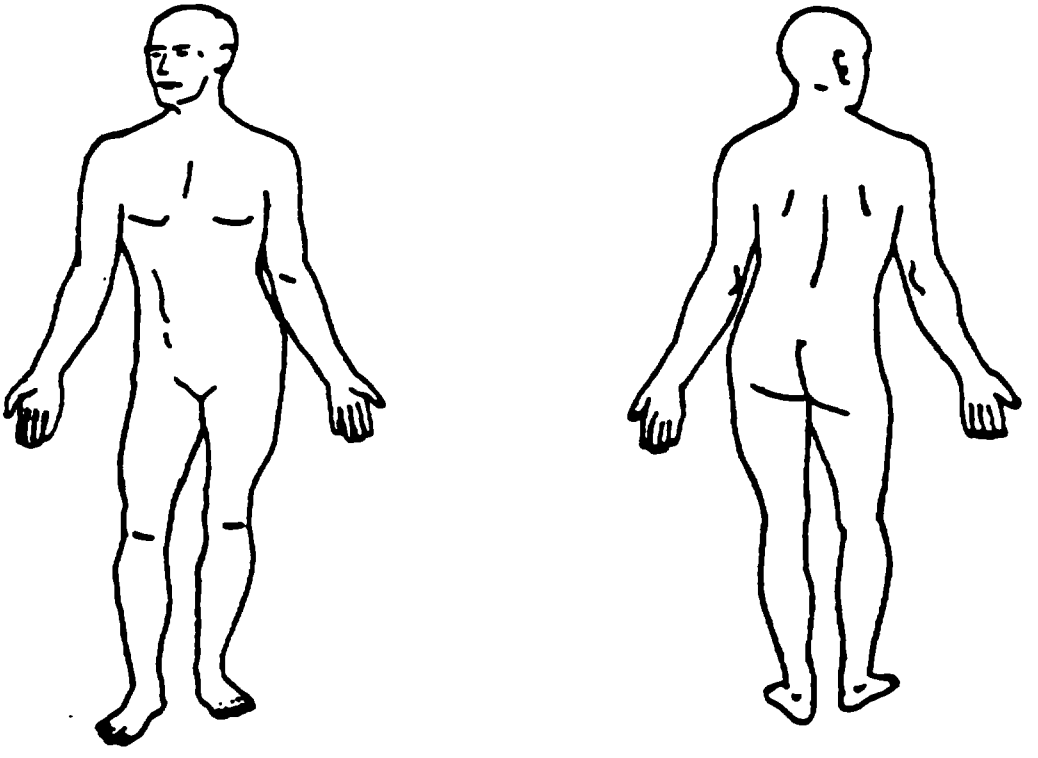
THIS COMPLETES THE INTERVIEW

COMMENTS:

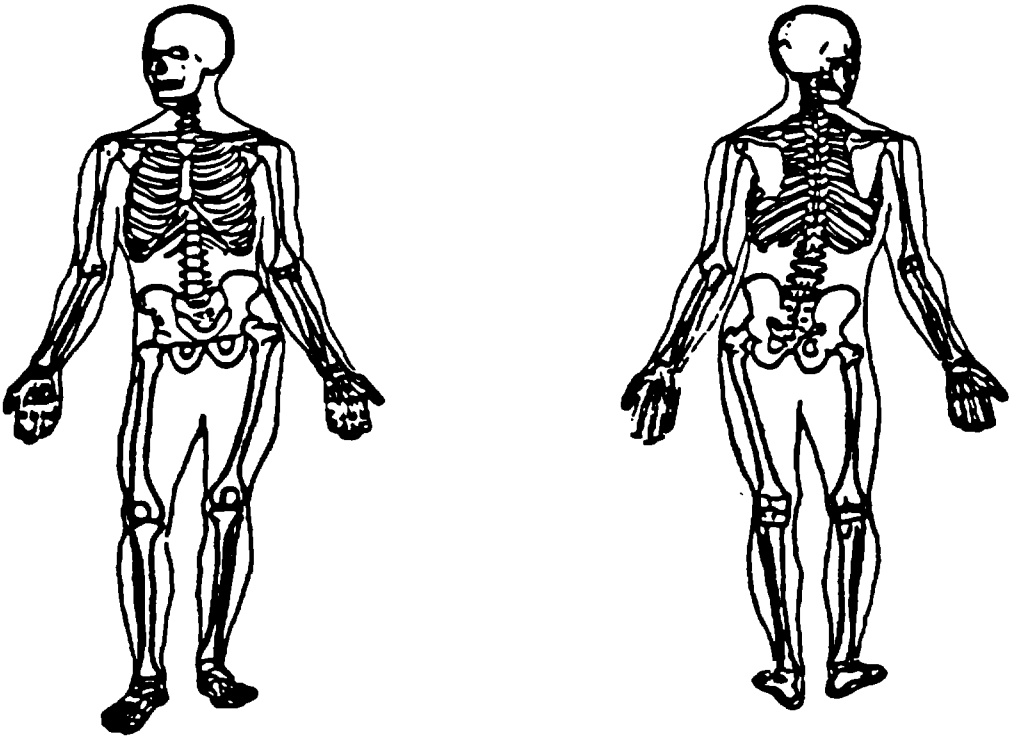
OFFICIAL INJURY DATA

Indicate the *Nature* and *Location* of *All* injuries.

Soft Tissue Injuries



Skeletal Injuries



Write additional medical record injury information on reverse of this page.

ADDITIONAL MEDICAL RECORD INJURY DATA USED IN CODING OIC/AIS

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; 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.I.S. Severity	Injury Source	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

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
(B) Bilateral
(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) Abrasions
(M) Amputation
(V) Avulsion
(B) Burn
(K) Concussion
(C) Contusion
(N) Crushing
(G) Detachment, separation
(D) Dislocations
(F) Fractures
(Z) Fracture and dislocation
(U) Injured unknown lesion
(L) Laceration
(O) Other
(P) Perforation, puncture
(R) Rupture
(S) Sprains
(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) Severe injury
(4) Serious injury
(5) Critical injury
(6) Maximum (*unsurvivable*)
(7) Injured, unknown severity
(0) Not injured
(9) Unknown if injured

Reduction Section

Injury Source

(00) No injury

FRONT
(01) Windshield
(02) Mirror
(03) Steering assembly, including transmission selector lever when column mounted
(04) Add-on equipment (*e.g., CB, tape deck, air conditioner*)
(05) Instrument panel and below, excluding foot controls and parking brake
(06) Survivor
(09) Other front object

SIDE
(11) Side interior surface, excluding hardware or armrests
(12) Side hardware or armrests
(13) A pillar
(14) B pillar
(15) Other pillar
(16) Window glass or frame
(19) Other side object

INTERIOR
(21) Seat, back support
(22) Belt restraint system
(23) Head restraint
(24) Air cushion
(25) Other occupants
(26) Interior loose objects
(29) Other interior object

ROOF
(31) Front header
(32) Rear header
(33) Roof side rails
(34) Roof or convertible top

FLOOR
(41) Floor
(42) Floor or console mounted transmission lever, including console
(43) Parking brake handle
(44) Foot controls including parking brake

REAR
(51) Backlight (*rear window*)
(52) Backlight storage rack, door, etc.
(59) Other rear objects

EXTERIOR of NONMOTORIST'S VEHICLE
(61) Hood
(62) Outside hardware (*e.g., outside mirror, antenna*)
(63) Other exterior surface or tires
(69) Unknown exterior objects

EXTERIOR of OTHER MOTOR VEHICLE
(71) Bumper
(72) Hood edge
(73) Other front of vehicle
(74) Hood
(75) Hood ornament
(76) Windshield, roof rail, A-pillar
(77) Side surface
(78) Side mirrors
(79) Other side protrusions
(80) Rear surface
(81) Undercarriage
(82) Tires and wheels
(83) Other exterior of other motor vehicle
(84) Unknown exterior of other motor vehicle

OTHER VEHICLE or OBJECT in the ENVIRONMENT
(86) Ground
(87) Other vehicle or object
(89) Unknown vehicle or object

NONCONTACT INJURY
(90) Noncontact injury source (*impact force*)
(97) Injured, unknown source
(99) Unknown if injured

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 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 32 to 40*). In the additional row "no injury" will be coded for all variables including A.I.S. severity.

Update Candidate: ◯ *Yes* ◯ *No*

	I.S.S. Body Region		O.I.C. Body Region		Aspect		Lesion		System/ Organ		A.I.S. Severity		Injury Source		Source of Data	
1ST		28.		29.		30.		31.		32.		33.		34.		
	—		32		33		34		35		36		37 38		39 40	
2ND		35.		36.		37.		38.		39.		40.		41.		
	—		41		42		43		44		45		46 47		48 49	
3RD		42.		43.		44.		45.		46.		47.		48.		
	—		50		51		52		53		54		55 56		57 58	
4TH		49.		50.		51.		52.		53.		54.		55.		
	—		59		60		61		62		63		64 65		66 67	
5TH		56.		57.		58.		59.		60.		61.		62.		
	—		68		69		70		71		72		73 74		75 76	
6TH		63.		64.		65.		66.		67.		68.		69.		
	—		77		78		79		80		81		82 83		84 85	

Coding Section

LOG RESPONSES

11. 16. 21. 26. 31. 36. 41. 46. Manner

(1) Telephone
(2) Personal visit to home, work, etc.
(3) Letter (*questionnaire*)
(4) Other (*specify*)

a. _____

b. _____

c. _____

12. 17. 22. 27. 32. 37. 42. 47. Result

(01) No answer (*to phone call, no one home, etc.*)
(02) Other person at home, work, etc.—interviewee to contact investigator
(03) Other person at home, work, etc.—investigator to repeat call, visit, leave questionnaire, or try elsewhere
(04) Must obtain permission of attorney or insurance company
(05) Attorney or insurance company provided permission
(06) No return of letter questionnaire
(07) Partial or complete interview

(TO BE CODED AS THE RESULT FOR THE LAST CONTACT RECORD IF A DECISION IS MADE NOT TO FURTHER ATTEMPT A SURROGATE OR DIRECT INTERVIEW.)

(08) Unable to contact or locate
(09) Hit and run
(10) Fatal—surrogate not available
(11) In intensive care—surrogate not available
(12) Out of State resident
(13) Refused interview for other than on advice of attorney or insurance company (*specify or write "unknown reason"*)

_____

(14) Insurance company refusal
(15) Attorney refusal or litigation
(16) Other (*specify*)

a. _____

b. _____

c. _____

52. REASONS MEDICAL DATA NOT OBTAINABLE

(0) Record obtained
(1) No record of treatment at medical facility
(2) Medical release required — not obtained
(3) Not medically treated
(4) Nonaccident related injury
(5) Noncooperative hospital
(6) Hospital out of study area
(7) Private physician would not release information
(8) To be updated
(9) Unknown if medically treated

If any of the coded injury Sources have "other" codes, i.e., 09, 15, 19, 29, 59, 63, 73, 79, 83 or 87; describe the injury source below in the space provided. Clearly indicate each description by numerical value.

_____

_____

_____

_____

_____

POLICE REPORT

70. 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 — 86

71. Traffic Violation Charged Against This Pedestrian or Nonmotorist

___(0) No
___(1) Yes (*specify*): _____
___(9) Unknown — 87

72. Police Reported Alcohol Presence

___(0) No (alcohol not present)
___(1) Yes (alcohol present)
___(8) Not reported
___(9) Unknown — 88

POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL

73. Alcohol Test Result

_____Actual value (*decimal implied before first digit*) (0.xx) — 89 90
___(95) Test refused
___(96) None given
___(97) AC test performed, results unknown
___(99) Unknown

74. Time of 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) — 91 92
___(99) Unknown

75. 76. 77. Other Pedestrian/Nonmotorist Related Factors

___(00) No other pedestrian/nonmotorist related factors

Physical/Mental Condition:
___(01) Non physical (i.e., mental or emotional factor)

Physical Impairments
___(02) Blind
___(03) Restricted sight
___(04) Walking cane/crutches required
___(05) Deaf
___(06) Restricted to wheelchair
___(07) Paraplegic
___(08) Previous injury
___(09) Other physical impairments: _____
_____

Drug Impairments
___(10) Drugs-medication (prescription, over-the-counter)
___(11) Other drugs (excludes alcohol, includes uncontrolled substances): _____

Operator Related Factors:
Pedalcyclist Related (Includes Animal Related)
___(20) Inattention
___(21) Interference with operator by other passenger
___(22) Operator inexperience
___(23) Unfamiliar with roadway
___(24) Overloading or improper loading of vehicles with passengers or cargo
___(25) Operating vehicle in erratic, reckless, careless or negligent manner
___(26) Improper or erratic lane changing
___(27) Failure to keep in proper lane or running off roadway
___(28) Making improper entry to or exit from trafficway
___(29) Failure to yield right-of-way
___(30) Failure to obey traffic signs, traffic control devices or traffic officers, failure to observe Safety Zones
___(31) Failure to signal intentions
___(32) Giving wrong signal
___(33) Making right turn from left lane, making left turn from right lane
___(34) Making other improper turn
___(35) Driving wrong way on one-way roadway
___(36) Driving on wrong side of roadway
___(37) Failure to have lights on when required
Pedestrian Related (Includes Other Nonmotorist)
___(38) Not seen by driver
___(39) Darting or running into roadway
___(40) Improper crossing of roadway or intersection
___(41) Walking with or against traffic, playing, working, sitting, lying, standing, etc. in roadway
___(42) Holding onto vehicle
___(98) Other: _____
___(99) Unknown

(75) — 93 94
(76) — 95 96
(77) — 97 98

ATTACH TO THIS FORM ANY SUPPORTING MEDICAL DOCUMENTATION FOR THIS PEDESTRIAN OR NONMOTORIST

COMPLETED BY TEAM

Duplicate columns 1 through 8 from the *first* page of this form.

5. Card Number 1/9

Duplicate columns 10, 11 and 12 from the *first* page of this form.

COMMENTS:

(For response to Manner and Result see back of page 7)

INTERVIEW CONTACT RECORD

Contact Sequence	Month	Day	Year	Time of Contact	Contacting Investigator	Manner	Result
1ST	8. 13 14	15 16	17 18 = 8 2	9. 19 20 21 22	10. 23 24 25	11. 26	12. 27 28
2ND	13. 29 30	31 32	33 34 = 8 2	14. 35 36 37 38	15. 39 40 41	16. 42	17. 43 44
3RD	18. 45 46	47 48	49 50 = 8 2	19. 51 52 53 54	20. 55 56 57	21. 58	22. 59 60
4TH	23. 61 62	63 64	65 66 = 8 2	24. 67 68 69 70	25. 71 72 73	26. 74	27. 75 76

GO TO 2/9

5TH	28.	10	11	12	13	8	2	29.	16	17	18	19	30.	20	21	22	31.	23	32.	24	25
6TH	33.	26	27	28	29	8	2	34.	32	33	34	35	35.	36	37	38	36.	39	37.	40	41
7TH	38.	42	43	44	45	8	2	39.	48	49	50	51	40.	52	53	54	41.	55	42.	56	57
8TH	43.	58	59	60	61	8	2	44.	64	65	66	67	45.	68	69	70	46.	71	47.	72	73

GO TO 3/9

48. Date decision was made not to further attempt to obtain a direct or surrogate interview regarding the general data elements (*variables P09 through P27*). 10 11 12 13 = 8 14 2 15

49. Deciding person (*initials*) 16 17 18

50. Date official medical data requested 19 20 21 22 = 8 23 2 24

51. ☐ (1) Official medical injury data received before first submission.
☐ (2) Official medical injury data inapplicable (*no medically diagnosed treatment*).
☐ (3) Official medical injury data applicable but not obtainable.
☐ (4) Official medical injury data requested but not received at time of this submission.
☐ (9) Unknown if medically treated. 25

52. Reason official medical data not obtainable (*responses are on back of page 7*). 26

53. Completing Person (*initials*). This task is applicable even if only 0s, 9s, 00s, or 99s are the codes used. 27 28 29

COMPLETED BY ZONE CENTER

- Not in error, not to be updated, and not missing
1 - To be updated
2 - Error (not correctable)
3 - Error (correctable)
4 - Questionable
5 - Updated and corrected
6 - Sequencing error in CDC's or injury data
7 - Error incorrectly noted
8 - Data entry in error
9 - Unknown coded on field form
0 - R DE system error

NOTE: DUPLICATE COLUMNS 1 THROUGH 8 and GO TO CARD: 4/9

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	21	22	[illegible]	[illegible]	[illegible]
Response	10	11	12	13	14	15	16	17	18	19	20	21	22	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	30	31	[illegible]	[illegible]	[illegible]
Variable	[illegible]	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Response	[illegible]	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	5	59
Variable	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Response	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
	76	77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	85	86	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

NATIONAL ACCIDENT SAMPLING SYSTEM

CONTINUOUS SAMPLING SUBSYSTEM

Vehicle Data

1. Primary Sampling Unit Number — 1 2

2. Case Number – Stratification — 3 4 5 6

3. Record Number — 3 / 7

4. Transaction Code — 8

5. Version Number — 5 / 9

6. Investigator I.D. Number — 10

IDENTIFICATION

7. Vehicle Number — 11 12

8. Number of Occupant Forms Submitted

___ Code only the number of occupants in this vehicle for which an OCCUPANT FORM was submitted.
___ (97) 97 or more — 13 14

9. Vehicle Role
___ (0) Noncollision
___ (1) Striking unit
___ (2) Struck unit
___ (3) Both striking and struck
___ (9) Unknown
— 15

10. Manner of Leaving Scene (Determined by Investigator)

___ (1) Driven
___ (2) Towed – due to vehicle damage
___ (3) Towed – not due to vehicle damage
___ (4) Abandoned
___ (9) Unknown
— 16

EXTERIOR ITEMS

11. Vehicle Model Year

_____ Code the last two digits of the model year.
___ (99) Unknown — 17 18

12. Vehicle Make

_____

Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.
___ (99) Unknown — 19 20

13. Vehicle Model

_____

Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.
___ (00) Unknown
___ (69) Unknown (motorcycle)
___ (79) Unknown (light truck)
___ (89) Unknown (truck)
___ (99) Unknown (automobile) — 21 22

14. 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
___ (09) Unknown automobile type

Automobile Derivatives and Short Utility Vehicles
___ (10) Auto based pickup (includes El Camino, Caballero, Ranchero, 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):
_____
___ (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):
_____
___ (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
___ (49) Unknown van type

Light Conventional Truck (Pickup style cab, < 10,000 lbs GVWR)
___ (50) Pickup (includes open box and cabs)
___ (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)
___ (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)
___ (89) Unknown other vehicle:
_____
___ (99) Unknown body type — 23 24

15. Towed Trailing Unit (V14≠75,77)

___ (0) No towed unit (or V14=75,77)

Yes,
towed trailing unit hitch type
___ (1) Clamp on (temporary)
___ (2) Bumper hitch (bolted)
___ (3) Frame
___ (4) Fifth wheel
___ (5) Other: _____
___ (6) Unknown hitch type

25

16. Cab Configuration

___ (0) Not a truck (e.g., automobile, motorcycle)

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: _____
___ (9) Unknown

26

17. Seating Capacity/Truck Vocation

Passenger Vehicles 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, flat bed
___ (21) Platform with device (e.g., self-loader, spreader)
___ (22) Stake
___ (23) Drop frame, low bed, lowboy
___ (24) Livestock Carrier
___ (28) Other platform: _____

Open
___ (30) Pickup box (non-dump)
___ (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 (includes boat)
___ (36) Van-open top
___ (38) Other open: _____

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: _____

Service/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: _____

___ (71) Truck-tractor – no trailer
___ (72) Chassis, incomplete vehicle
___ (88) Other cargo vehicle: _____
___ (97) Other nontruck (e.g., construction paver, farm tractor)

___ (98) Unknown cargo configuration
___ (99) Unknown if passenger or cargo vehicle

27 28

HEAVY TRUCK DATA (TRUCKS OVER 10,000 LBS GVWR – V14=70–78)

18. Tractor with Dromedary
___ (0) No
___ (1) Yes
___ (9) Unknown

29

19. 20. 21. 22. Number of Axles

Power Unit	Trailer 1st	Trailer 2nd	Trailer 3rd	
___	___	___	___	(0) Not truck over 10,000 lbs. GVWR (V14≠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
				30 31 32 33

23. Type of Brakes
___ (0) Not truck over 10,000 lbs GVWR (V14≠70–78)
___ (1) Air
___ (2) Hydraulic
___ (3) Electric
___ (4) Other: _____
___ (9) Unknown

34

24. Gross Vehicle Weight Rating (GVWR)
___ (0) Not truck over 10,000 lbs. GVWR (V14≠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

35

National Accident Sampling System — Continuous Sampling Subsystem: Vehicle Data

FIELD MEASUREMENTS

Complete When Applicable	
End Damage	**Side Damage**
Undeformed end width _____	Bowing: B1 _____ X1 _____
Corner shift: A1 _____	B2 _____ X2 _____
A2 _____	Bowing constant
End shift at frame (CDC) (check one)	$\frac{X1 + X2}{2}$ = _____
< 4 inches _____	
≥ 4 inches _____	

Note: Measure C1 to C6 from Driver to Passenger side in Front or Rear impacts—
Rear to Front in Side impacts.

Specific Impact Number	Plane* of C-Measurements	Direct Damage		Field L**	C_1	C_2	C_3	C_4	C_5	C_6	±D
		Width** (CDC)	Max*** Crush								

*Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, at beltline, etc.) or label adjustments (e.g., free space).

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

**Measure and document on the vehicle diagram the beginning or end of the direct damage width and field L (e.g., side damage with respect to undamaged axle).

***Measure and document on the vehicle diagram the location of the maximum crush.

Note: Use as many lines/columns as necessary to describe each damage profile.

NATIONAL ACCIDENT SAMPLING SYSTEM—CONTINUOUS SAMPLING SUBSYSTEM: VEHICLE

DAMAGE DESCRIPTION

Tire—Wheel Damage

a. Rotation physically restricted
RF____
LF____
RR____
LR____

b. Tire deflated
RF____
LF____
RR____
LR____

(1) Yes, (2) No, (8) NA, (9) Unk.

TYPE F TRANSMISSION

____Manual ____Automatic

Average Track: _____.

Maximum Width: _____.

Curb Weight: _____.

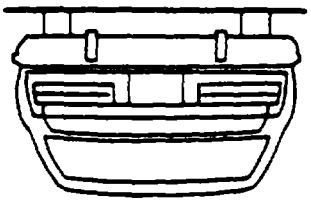
Overall Length: _____.

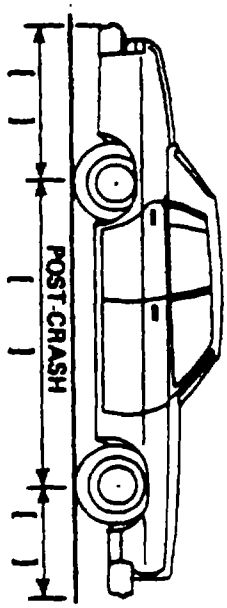
WHEEL STEER ANGLES

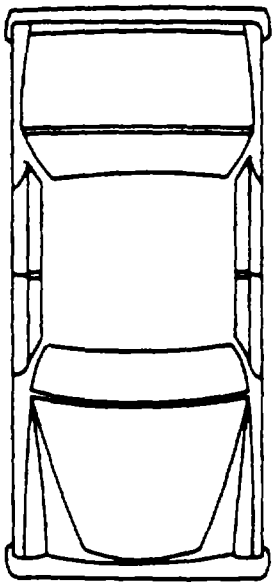
(For locked front wheels or displaced rear axles only)

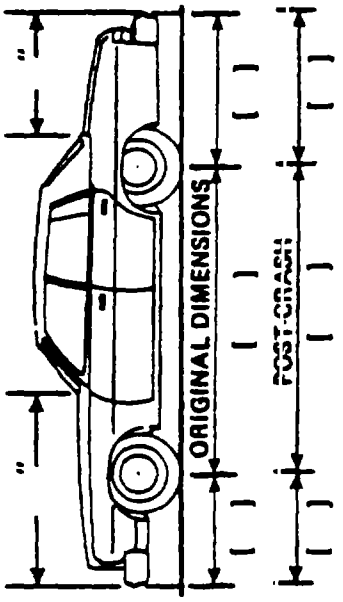
RF ±___ ___°
LF ±___ ___°
RR ±___ ___°
LR ±___ ___°

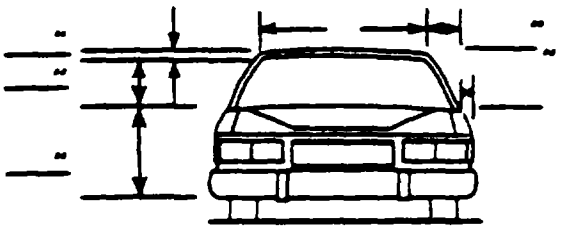
Within ± 5 degrees











Note: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.)

If pulling trailer sketch type of trailer and damage received on reverse side.

Annotate any damage caused by extrication such as component removal by torching, prying or hydraulic shears.

DEFORMATION CLASSIFICATION by IMPACT NUMBER

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

OBJECT CONTACTED

(00) Noncollision

(01) through (30)

If the object contacted by the vehicle under consideration was another 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) Other post, pole, or support
(42) Traffic signal pole
(43) Fence
(44) Mail box
(45) Delineator
(46) Other movable object: _____
(47) Culvert
(48) Railroad tracks
(49) Curb
(50) Abutment
(51) Wall (stone, rock, metal, etc.)
(52) Bridge Support
(53) Embankment–earth
(54) Embankment–rock, stone or concrete
(55) Building, rigid
(56) Building, nonrigid
(57) Bridge rail
(58) Guard rail
(59) Impact attenuator
(60) Ground
(61) Median barrier
(62) Train
(63) Ditch
(64) Other stationary objects

Collision with *Nonstationary Objects*

(65) Animal
(66) Trailer, disconnected in transport
(67) Train
(68) Other nonstationary objects
(71) through (95)

If the object contacted by the vehicle under consideration was pedestrian or nonmotorist, add seventy (70) to the assigned Pedestrian & Nonmotorist Number, and code the resultant sum.

(96) Vehicle occupant
(97) Other object
(99) Unknown

NOTE: For coding of 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

HIGHEST DELTA "V"

Sequence Number of Impact (this vehicle)	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent Guide	Sequence Number of Impact (in accident)
25. — 36	26. — 37 38	27. — — 39 40	28. — 41	29. — 42	30. — 43	31. — 44	32. — — 45 46	33. — 47
Second								
34. — 48	35. — 49 50	36. — — 51 52	37. — 53	38. — 54	39. — 55	40. — 56	41. — — 57 58	42. — 59
Third								
43. — 60	44. — 61 62	45. — — 63 64	46. — 65	47. — 66	48. — 67	49. — 68	50. — — 69 70	51. — 71
F urth								
52. — 72	53. — 73 74	54. — — 75 76	55. — 77	56. — 78	57. — 79	58. — 80	59. — — 81 82	60. — 83

Reduction Section

INTERIOR ITEMS

61. Vehicle Identification Number
___ No VIN-Code all Zeros
___ Unknown-Code all nine's
Left justify:
Slash zeros Ø

84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

62. Registration of Vehicle

___ (0) Not registered
___ (1) In-state (at least)
___ (2) Out-of-state (only)
___ (8) Other registration (e.g., federal, foreign, military):
___ (9) Unknown

101

63. 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

102

64. Odometer Reading

_____ miles – Code mileage to the nearest 1,000 miles.
___ (000) No odometer
___ (001) Less than 1,500 miles
___ (999) Unknown

103 104 105

65. 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) Other combination of above:

_____

___ (9) Unknown

106

66. Passenger Compartment Intrusion (NOTE: Code the area in terms of the most severe intrusion.)

___ (0) No passenger compartment
___ (1) No intrusion
___ (2) Front (i.e., steering column, dash)
___ (3) Right side (i.e., door [s] with or without sill override)
___ (4) Left side (i.e., door [s] with or without sill override)
___ (5) Rear (i.e., trunk, rear seat intruded upon)
___ (6) Bottom (i.e., floor)
___ (7) Top (i.e., windshield, "A", "B", "C", or "D" pillar [s] roof)
___ (8) Two or more areas
___ (9) Unknown

107

67. Magnitude of Intrusion

___ (0) No intrusion
___ (1) Less than five centimeters
___ (2) Between five and fifteen centimeters
___ (3) Greater than fifteen centimeters
___ (9) Unknown

108

68. 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

109

RESTRAINT SYSTEM		Front Seat: Left	Front Seat: Middle	Front Seat: Right	Second Seat: Left	Second Seat: Middle	Second Seat: Right	Third Seat: Left	Third Seat: Middle	Third Seat: Right	Other Position or Unit*
MANUAL	Availability	____	____	____	____	____	____	____	____	____	____
	Indication of Usage	____	____	____	____	____	____	____	____	____	____
AUTOMATIC	Availability	____	____	____	____	____	____	____	____	____	____
	Function	____	____	____	____	____	____	____	____	____	____

Manual Restraint System –Availability–

___ (0) None available
___ (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 – properly installed)
___ (7) Child safety seat (designed with tether – improperly installed)
___ (8) Restraint available type unknown or other: _____
___ (9) Unknown

Manual Restraint System –Indication of Usage

___ (0) None used
___ (1) Shoulder belt
___ (2) Lap belt
___ (3) Lap and shoulder belt
___ (4) Motorcycle helmet
___ (5) Child safety seat – used properly
___ (6) Child safety seat – used improperly
___ (7) Child safety seat – unknown if used properly
___ (8) Restraint used-type unknown or other: _____
___ (9) Unknown

Automatic (Passive) Restraint System –Availability–

___ (0) Not equipped
___ (1) Airbag
___ (2) Airbag disconnected
___ (3) Airbag not reinstalled
___ (4) Two point automatic belts
___ (5) Three point automatic belts
___ (6) Automatic belts destroyed
___ (9) Unknown

Automatic (Passive) Restraint System –Function–

___ (0) Not equipped
___ (1) Automatic belt in use
___ (2) Automatic belt not in use
___ (3) Deployed airbag
___ (4) Non-deployed airbag
___ (9) Unknown

*Specify the Other Position or Unit referenced: _____

INDICATIONS of EJECTION

___ No ejection

If ejection is suspected or reported, indicate the avenue; for multiple avenues number them and utilize the same numbers consistently throughout.

Ejection Area
___ Windshield
___ Left front
___ Right front
___ Left rear
___ Right rear
___ Rear
___ Roof
___ Other area (e.g., sidecar, back of pickup, etc.)
___ Unknown

Ejection Medium
___ Door (side)
___ Door (rear)
___ Open roof structure
___ Fixed windows
___ Other medium type
___ Unknown

Medium Status
___ Open
___ Separation
___ Closed, closed when damaged
___ Integral structure ripped opened
___ Status unknown

Operable windows
___ Roll down type
___ Hinged typed
___ Sliding type
___ Other type window

CHECK ALL AREAS of SUSPECTED OCCUPANT CONTACT

FRONT
___ Windshield
___ Mirror
___ Steering assembly, including transmission selector level when column mounted
___ Add-on equipment (e.g., CB, tape deck, air conditioner)
___ Instrument panel and below, excluding foot controls and parking brake
___ Sunvisor
___ Other front object

SIDE
___ Side interior surface, excluding hardware or armrests
___ Side hardware or armrests
___ A pillar
___ B pillar
___ Other pillar
___ Window glass or frame
___ Other side object

INTERIOR
___ Seat, back support
___ Belt restraint system
___ Head restraint
___ Air cushion
___ Other occupants
___ Interior loose objects
___ Other interior object

ROOF
___ Front header
___ Rear header
___ Roof side rails
___ Roof or convertible top

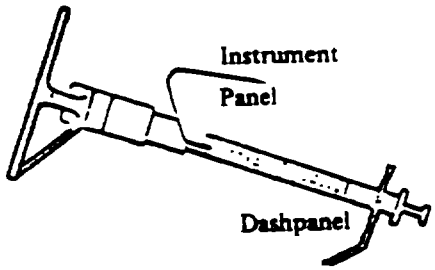
FLOOR
___ Floor
___ Floor or console mounted transmission lever, including console
___ Parking brake handle
___ Foot controls including parking brake

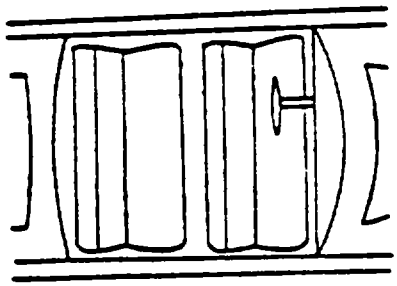
REAR
___ Backlight (rear window)
___ Backlight storage rack, door, etc.
___ Other rear objects

EXTERIOR of OCCUPANT'S VEHICLE
___ Hood
___ Outside hardware (e.g., outside mirror, antenna)
___ Other exterior surface or tires
___ Unknown exterior objects

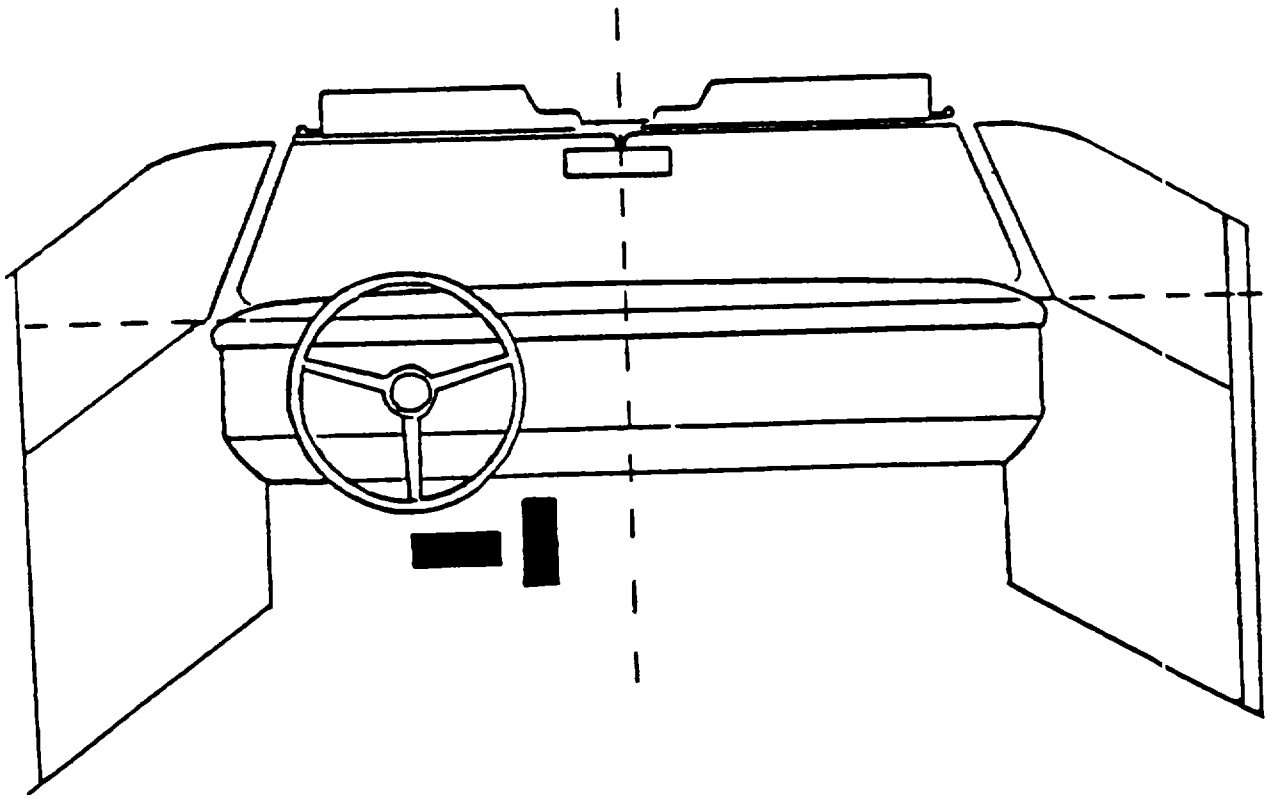
VEHICLE INTERIOR

POINTS OF OCCUPANT CONTACT





INTERIOR SKETCH



Sketch controls in appropriate positions, if contacted. Sketch and describe all occupant contact points (i.e., dents, skin transfer, etc.)and code on preceding page. Dash lines indicate center of instrument panel-windshield area and top of panel for reference purposes.

SUPPLEMENTAL ITEMS

69. 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
__(9) Unknown impact type

110

70. 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) Sideswiped or endswiped by other vehicle
__ (5) Other location on other vehicle
__ (6) Object (stationary and non stationary)
__ (7) Pedestrian or nonmotorist
__ (8) Motorcycle or moped
__ (9) Unknown impact type

111

71. Rollover

__ (0) No rollover
__ (1) Rollover, less than 4 quarter turns
__ (2) Rollover, 4 or more quarter turns
__ (3) Rollover, details unknown

112

72. Jackknife

__ (0) Not an articulated vehicle
__ (1) No
__ (2) Yes

113

73. Submission of Potential Safety Problem Bulletin

__(0) No
__(1) Yes

114

74. Hazardous Cargo

__(0) No hazardous cargo
__(1) Load of hazardous materials only
__(2) Load of hazardous and nonhazardous materials
__(9) Unknown

115

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

VEHICLE WEIGHT ITEMS

75. Vehicle Curb Weight

_____pounds – Code weight to nearest 100 pounds.
__(001) Less than 150 pounds.
__(997) 99,650 lbs or more
__(999) Unknown

116 117 118

Source: _____

76. Vehicle Cargo Weight

_____pounds – Code weight to nearest 100 pounds.
__(000) Less than 50 pounds
__(997) 99,650 lbs or more
__(999) Unknown

119 120 121

77. Investigator Reported Source of Cargo Weight

__ (0) No cargo
__ (1) Measured
__ (2) Estimated
__ (3) Rated capacity
__ (9) Unknown: source or weight

122

COMMENTS:

LOG RESPONSES

14. REASON VEHICLE INSPECTION NOT COMPLETED

(01) Inspection completed
(02) Vehicle can not be located
(03) Vehicle repaired or destroyed
(04) Vehicle outside of study area
(05) Vehicle impounded
(06) Vehicle sold
(07) Hit and run vehicle
(08) Owner could not be located
(09) Owner refusal
(10) Insurance company refusal
(11) Attorney refusal or litigation
(12) Repair or tow facility refusal
(13) Stolen
(14) Wrong name and address on PAR
(15) Interstate truck
(16) Commercial vehicle unavailable
(17) Other: _____

17. REASON HIGHEST TOTAL DELTA V UNKNOWN

(1) Highest total delta V known – based on damage data only
(2) Highest total delta V known – based on damage and trajectory data
(3) Rollover
(4) Other nonhorizontal force (e.g., vaulting)
(5) Sideswipe type damage/severe overrides
(6) Vehicle out of scope/pedestrian
(7) Yielding object
(8) Other (e.g., animal): _____
(9) Insufficient data

18. DATA OBTAINED FOR THIS VEHICLE'S MOST SEVERE IMPACT: REGARDLESS OF USAGE

(00) No data obtained
(01) CDC only
(02) TDC only
(03) Crush profile* only (outside scope of CDC/TDC)
(04) Trajectory data only
(05) CDC and crush profile only
(06) TDC and crush profile only
(07) CDC and trajectory
(08) TDC and trajectory
(09) Crush profile* (outside scope of CDC/TDC) and trajectory
(10) CDC, crush profile and trajectory
(11) TDC, crush profile and trajectory

*For vehicles outside the scope of CDC/TDC, crush profile means damage sketch and applicable measurements.

19. CDC/TDC DATA SOURCE

(0) No data obtained
(1) Unaltered damage
(2) Altered damage
(3) Photographs of damage only
(4) Descriptive damage drawing
(8) Not applicable – outside scope of CDC/TDC

20. Confidence in CRASH Results (for Highest Delta V)

(0) No CRASH
(1) Collision fits model-results appear reasonable
(2) Collision fits model-results appear high
(3) Collision fits model-results appear low
(4) Borderline reconstruction-results appear reasonable

CRASH PROGRAM

78. Basis for Total Delta V (highest)

CRASH program used
___ (1) Damage data only
___ (2) Damage and trajectory data
CRASH program not used
___ (3) At least one vehicle (which may include this vehicle) is beyond the scope of the CRASH program: regardless of collision conditions.
___ (4) All vehicles within scope (applicable to CDC) of CRASH program but one of the collision conditions is beyond the scope of the program: regardless of adequacy of damage data.
___ (5) All vehicles and collision conditions are within scope of the CRASH program but the damage data on at least one involved vehicle is not available.

123

	HIGHEST	Secondary	HIGHEST	
79.	Total Delta V ___ nearest k.p.h. (NOTE: 00 means less than 0.5 k.p.h.) ___ (97) 97 k.p.h. and above ___ (99) Unknown	___	124	125
80.	Longitudinal Component of Delta V ___ nearest k.p.h. (NOTE: 00 means greater than -0.5 and less than 0.5 k.p.h.) ___ (97) 97 k.p.h. and above ___ (99) Unknown	___	± 126	127 128
81.	Lateral Component of Delta V ___ nearest k.p.h. (NOTE: 00 means greater than -0.5 and less than 0.5 k.p.h.) ___ (97) 97 k.p.h. and above ___ (99) Unknown	___	± 129	130 131
82.	Energy Absorption ___ nearest 100 newton•meters (joules) (NOTE: 0000 means less than 50 newton•meters) ___ (9997) 99,650 Newton•meters or more ___ (9999) Unknown	___	132 133	134 135

CRASH Damage Data for Highest Delta V (metric values)

83. L

136 137 138 139

84. (C-measurements)

C1: 140 141 142 — C2: 143 144 145 — C3: 146 147 148

C4: 149 150 151 — C5: 152 153 154 — C6: 155 156 157

85. +D

± 158 159 160 161

(metric values – centimeters)

POLICE REPORT

86. Travel Speed

___ Nearest m.p.h.
(Note: 00 means less than 0.5 m.p.h.)
___ (97) 97 m.p.h. and above
___ (99) Unknown

162 163

87. 88. 89. Other Vehicle Related Factors

___ (00) No other vehicle related factors

Defective:
___ (01) Tires
___ (02) Wheels
___ (03) Brake system
___ (04) Steering system
___ (05) Suspension
___ (06) Power train
___ (07) Exhaust system
___ (08) Headlights
___ (09) Signal lights
___ (10) Other lights: _____
___ (11) Horn
___ (12) Mirrors
___ (13) Wipers
___ (14) Body, doors
___ (15) Driver seating and control
___ (16) Trailer hitch

___ (98) Other: _____
___ (99) Unknown

(87)	164	165
(88)	166	167
(89)	168	169

NATIONAL ACCIDENT SAMPLING SYSTEM — Vehicl Log — CONTINUOUS SAMPLING SUBSYSTEM

COMPLETED BY TEAM

Duplicate columns 1 through 8 from the first page of this form.

5. Card Number 1 (9)

Duplicate columns 10, 11 and 12 from the first page of this form.

8. Source of Vehicle Data

___ (1) Inspection at repair/tow facility
___ (2) Inspection at home/work place
___ (3) Inspection other: _____
___ (4) Not inspected (photos or repair data obtained)
___ (5) Not inspected (no data)
___ (7) Not required
___ (9) Unknown (13)

9. Vehicle Inspection

___ (1) Inspected on first visit
___ (2-5) Code the actual number of locations visited (including follow-ups to the same location)
___ (6) Six or more visits
___ (7) Not required
___ (8) Not inspected
___ (9) Unknown (14)

	Month	Day	Year	Initials
10. Date initial vehicle inspection attempted (always filled in by investigators) (15-23)			8 2	11.
12. Date decision was made not to further attempt to inspect vehicle (24-32)			8 2	13.
14. Reason vehicle inspection not completed (See back of page 8 for responses) (33-34)				
15. Date vehicle inspected and field data elements obtained (35-43)			8 2	16.

17. Reason highest total delta V unknown (44)

18. Data obtained for this vehicle's most severe impact: regardless of usage (45-46)

19. CDC/TDC data source

20. Confidence in CRASH Results (for Highest Delta V) (47)

21. CRASH output on other than Highest Delta V(No=0, Yes=1) (48)
(See back of page 8 for responses to questions 17-20) (49)

COMPLETED BY ZONE CENTER

Not in error, not to be updated, and not missing
1– To be updated
2– Error (not correctable)
3—Error (correctable)
4– Questionable
5– Updated and corrected
6– Sequencing error in CDC's or injury data
7– Error incorrectly noted
8– Data entry in error
9– Unknown coded on field form
0– RDE system error

NOTE: Duplicate columns 1 through 8 and GO TO CARD: 2 (9).

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Response	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
Variable	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Response	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)
Variable	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Response	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(1)	(2)	(3)	(4)
Variable	76	77	78	79	80	81	82	83	84	85	86	87	88	89											
Response	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)											

• U S GOVERNMENT PRINTING OFFICE 1981 523-258/135

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

NATIONAL ACCIDENT SAMPLING SYSTEM — CONTINUOUS SAMPLING SUBSYSTEM

Driver Data

Form Approved
O M B No 2127-0021

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

IDENTIFICATION

7. Vehicle Number — 11 12

8. Number of Occupants This Motor Vehicle

_____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.
- (99) Unknown

13 14

9. Driver Presence In Vehicle

- (1) Driver Present
- (2) Driver Not Present

15

(NOTE: If *no* driver was present *in* this vehicle, indicate and subsequently leave blank the remaining non-environmental questions 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 & NONMOTORIST FORM.)

DRIVER INTERVIEW

10. Months Driving Experience This Class of Vehicle (e.g., passenger car, light truck, motorcycle, etc.)

____ m nths — Code actual months of previous driving experience up to 60.
(NOTE: days or less equals 1 month; a month and a half equals 2 months.)
- (61) Greater than five years
- (99) Unknown

16 17

11. Estimated Mileage This Vehicle
(Estimated total mileage that driver has driven in this specific accident involved vehicle.)

_____miles to the nearest 100
- (001) Less than 150 miles
- (997) 99,650 miles or more
- (999) Unknown

18 19 20

12. Total Mileage All Vehicles
(Past Twelve Months)

_____ miles to the nearest 100
- (001) Less than 150 miles
- (997) 99,650 miles or more
- (999) Unknown

21 22 23

13. Type of Operation or Carrier
(vehicle over 10,000 lbs GVWR)
- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR
- (1) For hire / common carrier
- (2) For hire / contract carrier
- (3) Private carrier of property or passengers
- (4) Carrier of ICC exempt commodities
- (5) Foreign carrier
- (6) Carrier of migrant workers
- (7) U.S. mail carrier
- (8) Other:_____
- (9) Unknown

24

14. Federal Safety Regulated
- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR
- (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

25

15. Driver's Classification
- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR
- (1) Full time employee
- (2) Part Time employee
- (3) Owner operator
- (4) Leased (from labor contractor)
- (8) Other:_____
- (9) Unknown

26

This report is authorized by P L 89-561 Title I, Section 106, 108 and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely

ACCIDENT DESCRIPTION INSTRUCTIONS

Do not interrupt person during general description (narrative), unless he/she requests your assistance. Attempt to summarize the narrative while minimizing any disruptions of the person's internal logic. Specific questions may be asked later. Write these questions down in the space below or on the other side of the paper, prior to the interview.

SPECIFIC QUESTION: _____

_____

_____

_____

_____

GENERAL DESCRIPTION OF ACCIDENT SEQUENCE

(This represents a synopsis of an uninterrupted narrative by the driver.)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Estimated Travel Speed
(NOTE: Record as obtained from interviewee in increments of 5 m.p.h.; note information source e.g., speedometer, estimate, etc.)

___ Stopped ___ Less than 5 m.p.h.

____ Actual speed (in increments)

___ Not applicable ___ Unknown

Estimated Impact Speed
(NOTE: Record as obtained from interviewee in increments of 5 m.p.h.; note information source e.g., speedometer, estimate, etc.)

___ Stopped ___ Less than 5 m.p.h.

____ Actual speed (in increments)

___ Not applicable ___ Unknown

INFORMATION SOURCE:

PRE-CRASH

Direction of Travel
(NOTE: If interviewee does not know, insert from other sources when determinable.)

- __ N rth
- __ East
- __ S uth
- __ West
- __ Northeast
- __ Southeast
- __ Northwest
- __ Southwest
- __ Not applicable
- __ Unknown

Travel Lane
(NOTE: Lane one is the curb r shoulder lane; lane two is the next lane, etc. to the median or centerline. Opposing lanes are numbered similarly and distinguished by direction of travel.)

- __ 1st lane
- __ 2nd lane
- __ 3rd lane
- __ 4th lane
- __ 5th or additional lane
- __ On shoulder
- __ On trafficway
- __ Off road
- __ Outside trafficway
- __ Not applicable
- __ Unknown

[1] Object Contacted
(✓) Motor vehicle
(0) Guardrail
(1) Ditch
(2) Gr und
(3) Tree
(4) P le
(5) Sign
(6) Pedacyclist
(7) Pedestrian
(8) Other:_____
(9) Unknown

[2] Vehicle Impact Location
(1) Front
(2) Right side
(3) Rear
(4) Left side
(5) Top
(6) Undercarriage
(7) Other:_____
(8) Not applicable
(9) Unknown

[3] Vehicle Orientation
(1) Tracking, no skidding (includes controlled turn)
(2) Tracking, skidding
(3) Rotated clockwise to path of travel
(4) Rotated counterclockwise to path of travel
(5) Rolling over
(6) Jackknifed
(7) Other:_____
(8) Not applicable
(9) Unknown

DRIVER VIEW of TOTAL ACCIDENT CONTACT SEQUENCE

Did More Than Six Impacts Occur? __ Unknown, __ No, __ Yes: code the six severest impacts.

Impact Sequence (Driver)	Final Impact Sequence (Investigator)	Object Contacted[1]	One Vehicle			Other Vehicle—if applicable		
			Vehicle Number	Impact Location[2]	Vehicle Orientation[3]	Vehicle Number	Impact Location[2]	Vehicle Orientati n[3]
1	__	__	__	__	__	__	__	__
2	__	__	__	__	__	__	__	__
3	__	__	__	__	__	__	__	__
4	__	__	__	__	__	__	__	__
5	__	__	__	__	__	__	__	__
6	__	__	__	__	__	__	__	__

POST-CRASH

Final Rest Position

- __ On roadway
- __ On shoulder
- __ In parking lane
- __ In median
- __ Off road (beyond shoulder area)
- __ Other:

_____

- __ Not applicable
- __ Unknown

Driver Inputs Between Last Point-of-Impact and Final Rest Position

- __ None
- __ Steering left
- __ Braking and steering left
- __ Braking and steering right
- __ Acceleration followed by braking
- __ Acceleration followed by braking and steering
- __ Releasing brake
- __ Other:

_____

- __ Braking
- __ Steering right
- __ Not applicable
- __ Unknown

If multiple impacts occurred, describe driver inputs between initial and last point-of-impact.

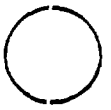
_____

_____

ACCIDENT DIAGRAM

Draw a rough sketch of the accident sequence as described by the driver. Note impact and final rest positions carefully. If possible, relate these to some identifiable object in the area, and record vehicle and pedestrian or nonmotorist headings relative to an object, as well.

Indicate North



Any luggage or other cargo in vehicle when accident occurred? Estimated Weight:_____ lbs.

Describe:_____

Hazardous cargo in vehicle? ☐ No ☐ Yes If yes, specify:_____

Present location of vehicle (if not yet inspected)? _____

Did any of the Following Restrictions of the Road Exist Prior to the Accident

__ None
__ Narrow bridge (as defined)
__ Previous accident
__ Maintenance, repair, or construction activity n roadway
__ Roadway immersion (standing water)
__ Unknown

Road Surface Condition

__ Dry
__ Snow or slush
__ Wet
__ Ice
__ Sand, dirt or oil
__ Unknown

16. Driver Education

Automobile or Light Truck Driver Training
__ (0) No formal driver training
__ (1) In training at time of accident
__ (2) High school driver training
__ (3) Commercial driver training
__ (8) Other formal driver training (e.g., college, military, etc.)
__ (9) Unknown

Motorcycle Driver Training
__ (0) No formal driver training
__ (1) In training at time of accident
__ (6) Motorcycle driver training
__ (9) Unknown

Heavy Vehicle Driver Training (>10,000 lbs. GVWR)
__ (0) No formal driver training
__ (1) In training at time of accident
__ (4) Truck driver training school
__ (5) Motor carrier pr gram – On-the-Job-Training
__ (7) Vocational training (CETA, Job Corp, other government sponsored training, etc.)
__ (8) Other formal driver training (e.g., college, military, etc.)
__ (9) Unknown

27

17. Frequency Driving Road
__ (1) Daily
__ (2) Weekly
__ (3) Monthly
__ (4) Less than once a month
__ (5) First time on road
__ (9) Unknown

28

18. 19. 20. Actions Prior to Avoidance Maneuvers

(Code what the vehicle was doing prior to accident. See coding manual for list of attribute codes.)

	Interviewee	Investigator		
(18)	__ __	__ __	29	30
(19)	__ __	__ __	31	32
(20)	__ __	__ __	33	34

Inter-viewee / Investi-gator

21. Attempted Avoidance Maneuver (Pre-Crash)

__	(00) No avoidance actions	__
__	(01) Braking (no lockup)	__
__	(02) Braking (lockup)	__
__	(03) Pumping brakes (modulation)	__
__	(04) Releasing brakes	__
__	(05) Steering left	__
__	(06) Steering right	__
__	(07) Braking and steering left	__
__	(08) Braking and steering right	__
__	(09) Accelerating	__
__	(10) Accelerating and steering left	__
__	(11) Accelerating and steering right	__
__	(98) Other action: _____	__
____	(99) Unknown	__ 35 36

22. How Many Accidents Within Past Twelve Months (as Driver)

____ Code actual value up through 7
__ (8) 8 or more
__ (9) Unknown 37

POLICE REPORT

Traffic Violation Charged Against This Driver

◯ NO – Code 0 for each of questions 23 through 31.

If YES – Check (✓) each of the violations below that were indicated; code 1 for the checked violations and 0 for the violations not checked.

__ Unknown – Code 9 for each of questions 23 through 31

23. __ Speeding 38
24. __ Driving While Intoxicated 39
25. __ Reckless Driving 40
26. __ Driving With Suspended or Revoked License 41
27. __ Failure to Yield Right-of-Way 42
28. __ Following too Closely 43
29. __ Running a Traffic Signal or Stop Sign 44
30. __ Other Violation Charged 45
31. __ Unknown Violation Charged 46
32. Police Reported Alcohol Presence

__ (0) No (alcohol not present)
__ (1) Yes (alcohol present)
__ (8) Not reported
__ (9) Unknown 47

POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL

33. Alcohol Test Results

__ Actual value (decimal implied before first digit) (0.xx)
__ (95) Test refused
__ (96) None given
__ (97) AC test performed, results unknown
__ (99) Unknown 48 49

34. License Source

__ (0) No license
__ (1) Domestic
__ (2) Foreign
__ (9) Unknown 50

35. Compliance With License Restrictions

__ (0) No restrictions
__ (1) Restrictions complied with
__ (2) Restrictions not complied with
__ (3) Restrictions, compliance unknown
__ (9) Unknown 51

OFFICIAL RECORDS

36. Driver License Status

__ (0) No license required
__ (1) Not licensed
__ (2) Valid
__ (3) Suspended
__ (4) Revoked
__ (5) Expired
__ (6) Canceled or denied
__ (7) Learner's permit
__ (8) Temporary
__ (9) Unknown 52

37. Driver License Type Compliance

__ (0) No license required
__ (1) No license, license required
__ (2) Valid license (for this class vehicle only)
__ (3) One (single class) valid license (but not for this class vehicle)
__ (4) Multiple class license – valid license for this class vehicle
__ (5) Multiple class license – no valid license for this class vehicle
__ (9) Unknown 53

38. Driver License Restrictions

__ (0) No restrictions
__ (1) Corrective or contact lenses
__ (2) Mechanical aid
__ (3) Limited to daylight only
__ (4) Automatic transmission
__ (5) Outside mirror
__ (6) Prosthetic aid
__ (7) Limited to employment
__ (8) Other restrictions: _____
__ (9) Unknown

84

39. Additional Driver License Restrictions

__ (0) No additional restriction
__ (2) Mechanical aid
__ (3) Limited to daylight only
__ (4) Automatic transmission
__ (5) Outside mirror
__ (6) Prosthetic aid
__ (7) Limited to employment
__ (8) Other restrictions: _____
__ (9) Unknown

85

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).

__ 8 or more – Code 8

(NOTE: The coded value: 8, indicates that the actual recorded value was eight or more; be sure that the actual value is recorded in the space provided near the question number.)

__Unknown–Code 9 for each of questions 40 through 44.

40. __ Previous Speeding Convictions

56

41. __ Previous Other Harmful Moving Violation Convictions

57

42. __ Previous Driving While Intoxicated Convictions

58

43. __ Previous Recorded Suspensions and Revocations

59

44. __ Previous Recorded Accidents

60

WAS THE DRIVER'S VEHICLE IN A SCHOOL ZONE?
(FOR USE IN CODING A40)

Yes _____
No _____

ENVIRONMENTAL DATA

45. Number of Travel Lanes

__ (1) One
__ (2) Two
__ (3) Three
__ (4) Four
__ (5) Five
__ (6) Six
__ (7) Seven or more
__ (9) Unknown

61

46. Median Type

__ (0) No Median
__ (1) Curbed
__ (2) Positive Barrier
__ (3) Unprotected
__ (9) Unknown

62

47. Median Width

__ (00) No median
_____ Code actual measured value up to 96 feet.
__ (97) 97 feet and above
__ (99) Unknown

63 64

48. Access Control

__ (1) Full
__ (2) Partial
__ (3) Uncontrolled
__ (9) Unknown

65

49. Trafficway Flow

__ (0) Not physically divided (two way traffic)
__ (1) Divided trafficway – median strip without traffic barrier
__ (2) Divided trafficway – median strip with traffic barrier
__ (3) One way trafficway
__ (9) Unknown

66

50. Highway Performance Monitoring System (HPMS) Sample Number

Code actual alphanumeric values. The first column identifies the county within the PSU. See coding manual for designated codes.

_____

__ (000 0000000000) Not in HPMS sample
__ (9999999999999) Unknown

67 68 69 70 71 72 73 74 75 76 77 78 79

51. 52. Shoulder Type

Left	Right		L	R
___	___	(0) No shoulder		
___	___	(1) Surfaced 2-6 ft.		
___	___	(2) Surfaced > 6 ft.		
___	___	(3) Gravel or other granular material 2-6 ft.		
___	___	(4) Gravel or other granular material > 6 ft.		
___	___	(5) Natural earth, with or without turf 2-6 ft.		
___	___	(6) Natural earth, with or without turf > 6 ft.		
___	___	(9) Unknown	80	81

53. Roadway Alignment

___ (1) Straight
___ (2) Curve right
___ (3) Curve left
___ (9) Unknown

82

54. Roadway Profile

___ (1) Level (< 2% grade)
___ (2) Positive grade
___ (3) Negative grade
___ (4) Hillcrest
___ (5) Sag
___ (9) Unknown

slope measurement: _____ %

83

55. Roadway Surface Type

___ (1) Concrete
___ (2) Bituminous
___ (3) Brick or block
___ (4) Slag, gravel or stone
___ (5) Dirt
___ (8) Other: _____
___ (9) Unknown

84

56. Roadway Surface Condition

___ (1) Dry
___ (2) Wet
___ (3) Snow or slush
___ (4) Ice
___ (5) Sand, dirt or oil
___ (8) Other: _____
___ (9) Unknown

85

57. Speed Limit

___ (00) No statutory limit
___ m.p.h. – Code actual posted or statutory speed limit
___ (99) Unknown

86 87

58. Traffic Control Device Functioning

___ (0) No traffic control
___ (1) Traffic control not functioning
___ (2) Traffic control functioning – functioning improperly
___ (3) Traffic control functioning properly
___ (9) Unknown

88

59. Traffic Control Device

___ (00) No controls

Not at railroad grade crossing

Highway traffic signals

___ (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
___ (09) Unknown highway traffic signal

Regulatory signs

___ (20) Stop sign
___ (21) Yield sign
___ (28) Other regulatory sign
___ (29) Unknown type regulatory sign

School Zone Signs

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

Warning Signs

___ (40) Warning sign

Miscellaneous Controls

___ (50) Officer, crossing guard, flagman, etc.

At railroad grade crossing

Active Devices

___ (60) Gates
___ (61) Flashing lights
___ (62) Traffic control signal
___ (63) Wigwags
___ (64) Bells
___ (68) Other train activated device
___ (69) Active device, type unknown

Passive Devices

___ (70) Crossbucks
___ (71) Stop sign
___ (72) Other railroad crossing sign
___ (73) Special warning device – watchman, flagged by crew.
___ (78) Other passive device
___ (79) Passive device, type unknown

Miscellaneous Controls

___ (80) Grade crossing controlled type unknown

Whether or not at railroad grade crossing

___ (98) Other
___ (99) Unknown

89 90

LOG RESPONSES

14. Reason that Official Driver Records are not Obtainable

(0) Records Obtained
(1) Hit and run driver
(2) Records not found
(3) Driver not licensed
(4) License number incorrect
(5) No information on driver
(6) Out of state and foreign drivers
(7) No driver
(8) To be updated

15. Type of Driver Interview Data Obtained

(0) No driver data obtained
(1) Driver history only
(2) Accident circumstances only
(3) Driver history and accident circumstances

16. Source of Driver Data

(0) No data obtained
(1) Driver
(2) Other occupant
(3) Relative or friend
(4) Eyewitness
(5) Combination of 2, 3 or 4

POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL

60. 61. 62. Other Driver Related Factors

___ (00) No other driver related factors

Physical/Mental Condition:

___ (01) Nonphysical (i.e., mental or emotional factor)
___ (02) Drowsy, sleepy, asleep, fatigued
___ (03) Depression
___ (04) Illness, disease, blackout

Physical Impairments

___ (05) Deaf
___ (06) Restricted to wheelchair
___ (07) Paraplegic
___ (08) Previous injury
(09) Other physical impairments: _____

_____

Drug Impairments

___ (10) Drugs-medication (prescription, over-the-counter)
___ (11) Other drugs (excludes alcohol, includes uncontrolled substances): _____

Operator Related Factors:

___ (20) Inattention
___ (21) Interference with driver by other passenger
___ (22) Operator inexperience
___ (23) Unfamiliar with roadway
___ (24) Overloading or improper loading of vehicles with passengers or cargo
___ (25) Operating vehicle in erratic, reckless, careless or negligent manner
___ (26) Improper or erratic lane changing
___ (27) Failure to keep in proper lane or running off roadway
___ (28) Making improper entry to or exit from trafficway
___ (29) Failure to obey traffic signs, traffic control devices or traffic officers, failure to observe Safety Zones
___ (30) Failure to signal intentions
___ (31) Giving wrong signal
___ (32) Making right turn from left lane, making left turn from right lane
___ (33) Making other improper turn
___ (34) Driving wrong way on one-way roadway
___ (35) Driving on wrong side of roadway
___ (36) Failure to dim lights or to have lights on when required
___ (37) Operating without required equipment
___ (38) Creating unlawful noise or using equipment prohibited by law
___ (39) Passing where prohibited by posted signs, pavement markings, hill, curve or school bus displaying warning not to pass
___ (40) Passing on wrong side
___ (41) Passing with insufficient distance or inadequate visibility or failing to yield to overtaking vehicle
___ (42) Passing through or around barrier positioned to prohibit or channel traffic
___ (43) Failure to observe warnings or instructions on vehicles displaying them
___ (44) Driving less than posted minimum
___ (45) Operating at erratic or suddenly changing speeds
___ (46) High speed chase with police in pursuit
___ (47) Illegal driving on road shoulder, in ditch, on roadside, or on sidewalk or path
___ (48) Starting or backing improperly
___ (49) Stopping in roadway (vehicle not abandoned)
___ (50) Opening vehicle door into moving traffic or while vehicle is in motion
___ (51) Towing or pushing vehicle improperly

___ (98) Other: _____
___ (99) Unknown

(60) ___ (91) ___ (92)
(61) ___ (93) ___ (94)
(62) ___ (95) ___ (96)

63. 64. 65. Other Environmental Related Factors

___ (00) No other 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) Parked vehicle
___ (08) Other object not classifiable above

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 animals in roadway
___ (26) Avoiding vehicle in roadway
___ (27) Avoiding pedestrian, pedalcyclist, 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: _____
___ (99) Unknown

(63) ___ (97) ___ (98)
(64) ___ (99) ___ (100)
(65) ___ (101) ___ (102)

COMPLETED BY TEAM

Duplicate columns 1 through 8 from the first page of this form

5. Card Number 1/9

Duplicate columns 10, 11 and 12 from the first page of this form.

	Month	Day	Year	Initials
8. Date environmental data (variables D45 through D59) applicable to this driver (traffic unit) were collected from the field.	8	2	9	

10. ☐ (1) Driver was not present; therefore, interview was not applicable for this form. STOP Log Complete!

☐ (2) Driver was present. CONTINUE!

11. Date official driver records requested. 12. 8 2

13. ☐ (1) Official driver records received before first submission.

☐ (2) Official driver records applicable but not obtainable.

☐ (3) Official driver records requested but not received at time of case submission.

14. Reason that official driver records are not obtainable.

15. Type of Driver Interview Data Obtained

16. Source of Driver Data

17. Date official driver record data entered on Driver Form (variables D36 through D44).
NOTE: This task is applicable even if only 9s are coded. 18. 8 2

(See back of page 7 for responses to questions 14-16)

COMPLETED BY ZONE CENTER

- Not in error, not to be updated, and not missing
1 - To be updated
2 - Error (not correctable)
3 - Error (correctable)
4 - Questionable
5 - Updated and corrected
6 - Sequencing error in CDC's or injury data
7 - Error incorrectly noted
8 - Data entry in error
9 - Unknown coded on field form
0 - RDE system error

NOTE: Duplicate columns 1 through 8 and GO TO CARD: 2/9

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Response																									
Variable	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Response																									
Variable	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	
Response																									

• U. S. GOVERNMENT PRINTING OFFICE 1981 523-226/130

U.S. DEPARTMENT F TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

NATIONAL ACCIDENT SAMPLING SYSTEM

CONTINUOUS SAMPLING SUBSYSTEM
Form Approved:
O.M.B. No. 2127-0021

Occupant 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. 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: _____
__ (14) In or on unenclosed area
area type: _____
__ (15) In or on trailing unit
unit type: _____
__ (99) Unknown — 24 25

(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.)

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 n t sufficient to constitute entrapment.)

Interviewee		Investigator
__	(0) Not entrapped	__
__	(1) Entrapped	__
__	(9) Unknown	__ — 26

16. Ejection

__	(0) None	__
__	(1) Complete ejection	__
__	(2) Partial ejection	__
__	(3) Ejection, unknown degree	__
__	(9) Unknown	__ — 27

HS Form 433 (Rev. 12/84)

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

Interviewee	Investigator	
17. Ejection Area		
__ (0) No ejection	__	
__ (1) Windshield	__	
__ (2) Left front	__	
V6 __ (3) Right front	__	
__ (4) Left rear	__	
__ (5) Right rear	__	
__ (6) Rear	__	
__ (7) Roof	__	
__ (8) Other area (e.g., sidecar, back of pick-up, etc.)	__	
__ (9) Unknown	__	__ 28
18. Ejection Medium		
__ (0) No ejection	__	
__ (1) Door	__	
__ (2) Open roof structure	__	
__ (3) Fixed windows	__	
Operable windows		
__ (4) Roll down type	__	
V6 __ (5) Hinged type	__	
__ (6) Sliding type	__	
__ (7) Other type: _____	__	
__ (8) Other medium: _____	__	
__ (9) Unknown	__	__ 29

Interviewee	Investigator	
19. Medium Status		
__ (0) No ejection	__	V6
__ (1) Open	__	
__ (2) Separation	__	
__ (3) Closed, closed when damaged	__	
__ (4) Integral structure ripped open	__	
__ (9) Unknown	__	__ 30

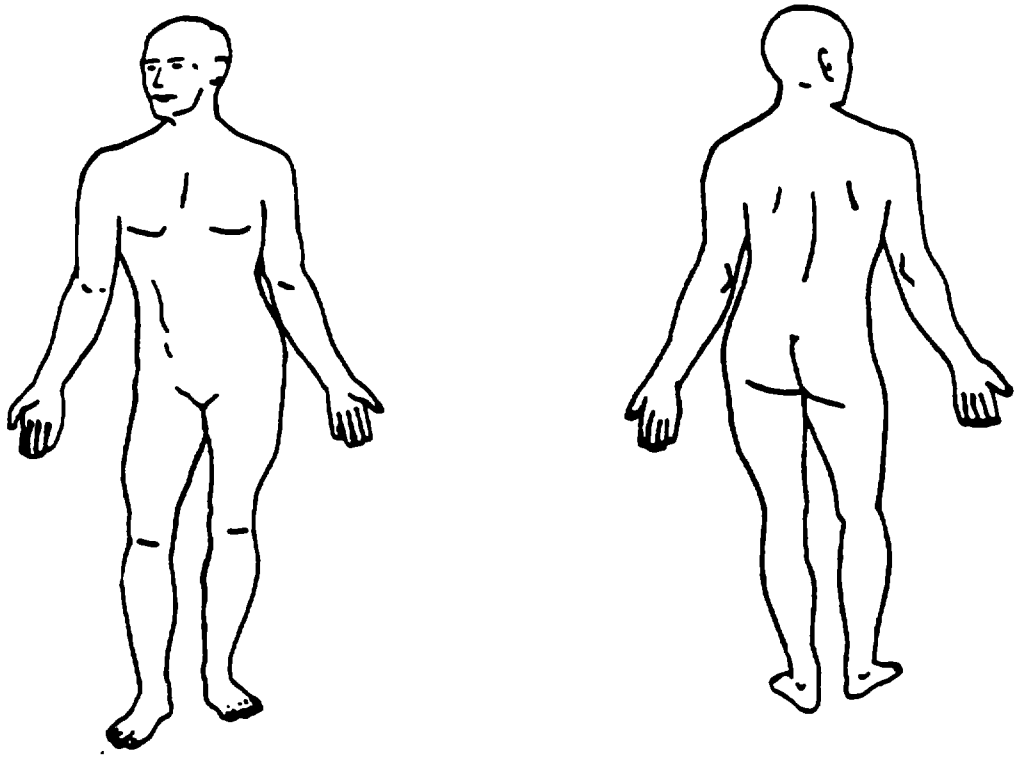
Interviewee	Official Sources	
20. Treatment – Mortality		
__ (1) Fatal	__	
__ (2) Fatal – ruled disease	__	
Nonfatal		
__ (3) Hospitalization	__	
__ (4) Transported and released	__	
__ (5) Treatment-other: _____	__	
__ (6) No treatment	__	
__ (9) Unknown	__	__ 31

COMMENTS:

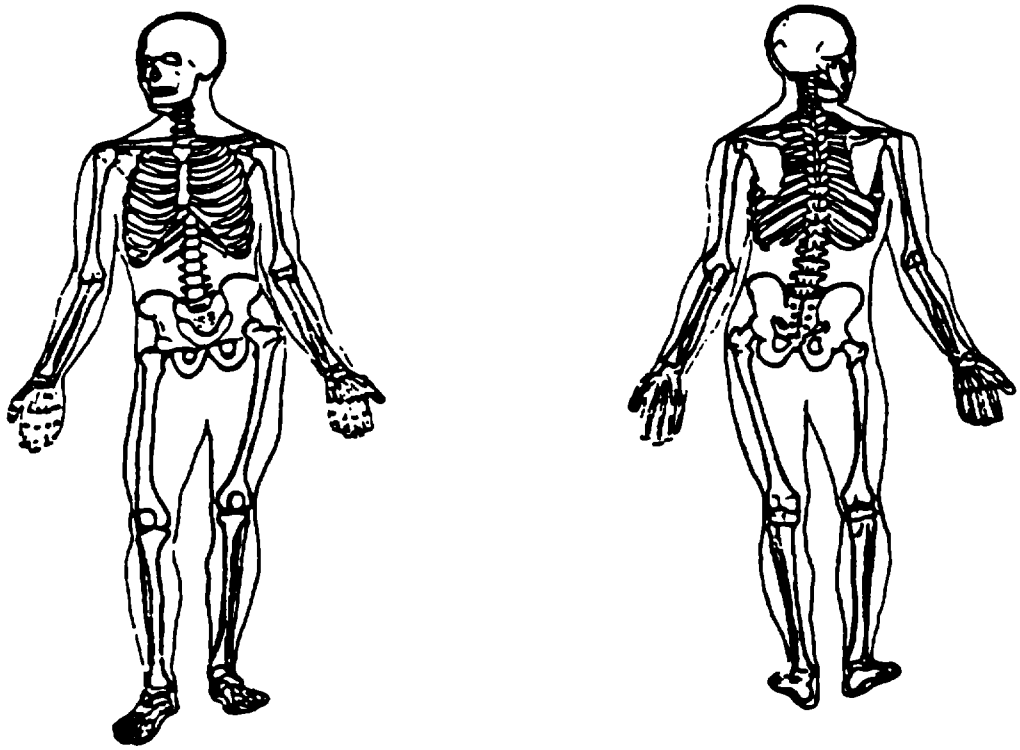
INJURY DATA FROM INTERVIEWEE

Indicate the *Nature*, *Location*, and injury *Source* of all injuries

Soft Tissue Injuries



Skeletal Injuries



Inter-viewee | Official Sources

21. Hospital Stay

___ (00) Not Hospitalized ___

_____ day(s) – Code the number of days (up through 60) that the occupant stayed in hospital. ___

___ (61) 61 days or more ___

___ (99) Unknown ___

32 33

22. Working Days Lost

___ (00) No working days lost

_____ day(s) – Code the number f days (up through 60) that the occupant lost from work due to the accident

___ (61) 61 days or more

___ (62) Fatally Injured

___ (99) Unknown

34 35

Inter-viewee | Investigator

23. Manual (Active) Restraint System Availability

___ (0) None available ___

___ (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 – properly installed) ___

___ (7) Child safety seat (designed with tether – improperly installed) ___

___ (8) Restraint available – type unknown or other: _____ ___

___ (9) Unknown ___

36

V6

Inter-viewee | Investigator

24. Manual (Active) Restraint System Use

___ (0) None used ___

___ (1) Shoulder belt ___

___ (2) Lap belt ___

___ (3) Lap and shoulder belt ___

___ (4) Motorcycle helmet ___

___ (5) Child safety seat – used properly ___

___ (6) Child safety seat – used improperly ___

___ (7) Child safety seat – unknown if used properly ___

___ (8) Restraint used – type unknown or other: _____ ___

___ (9) Unknown ___

37

V6

25. Automatic (Passive) Restraint System Availability

___ (0) Not equipped ___

___ (1) Airbag ___

___ (2) Airbag disconnected ___

___ (3) Airbag not reinstalled ___

___ (4) 2 point automatic belts ___

___ (5) 3 point automatic belts ___

___ (6) Automatic belts destroyed ___

___ (9) Unknown ___

38

V4

26. Automatic (Passive) Restraint Function

___ (0) Not equipped ___

___ (1) Automatic belt in use ___

___ (2) Automatic belt not in use ___

___ (3) Deployed airbag ___

___ (4) Nondeployed airbag ___

___ (9) Unknown ___

39

V7

27. Relation of Interviewee to Occupant

___ (0) No interview

___ (1) Same person

___ (2) Other accident involved person:

_____

Uninvolved Person

___ (3) Relative or friend

___ (4) Other uninvolved person:

_____

Combination of Persons:

___ (5) One of which was accident involved

___ (6) None of which were accident involved

___ (9) Unknown

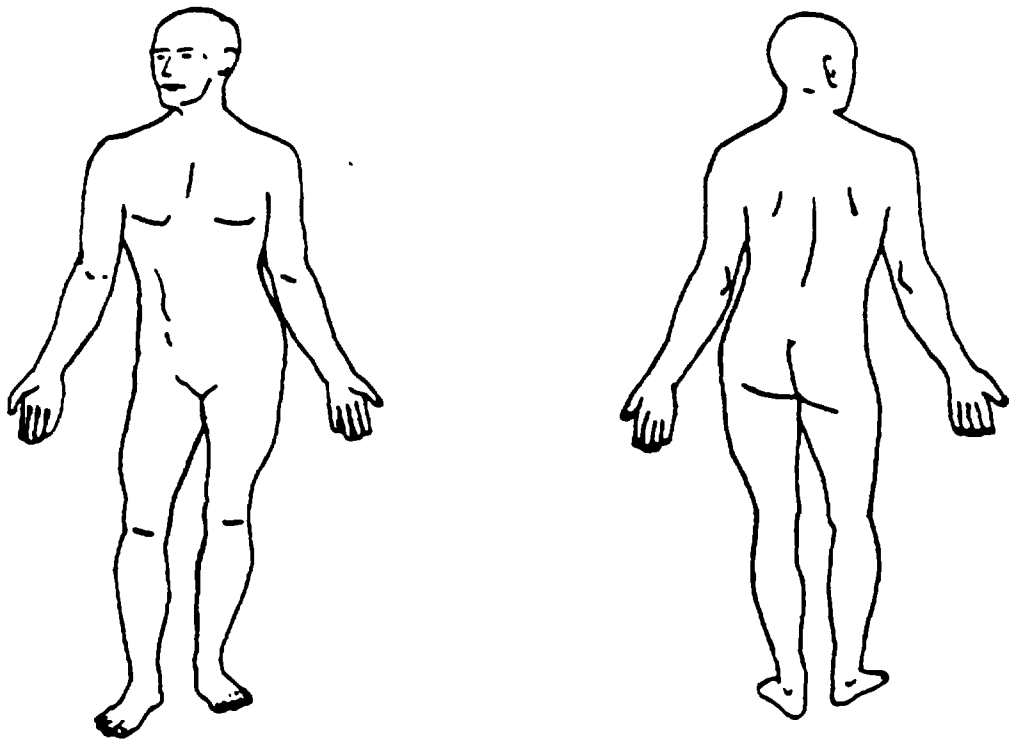
40

THIS COMPLETES THE INTERVIEW

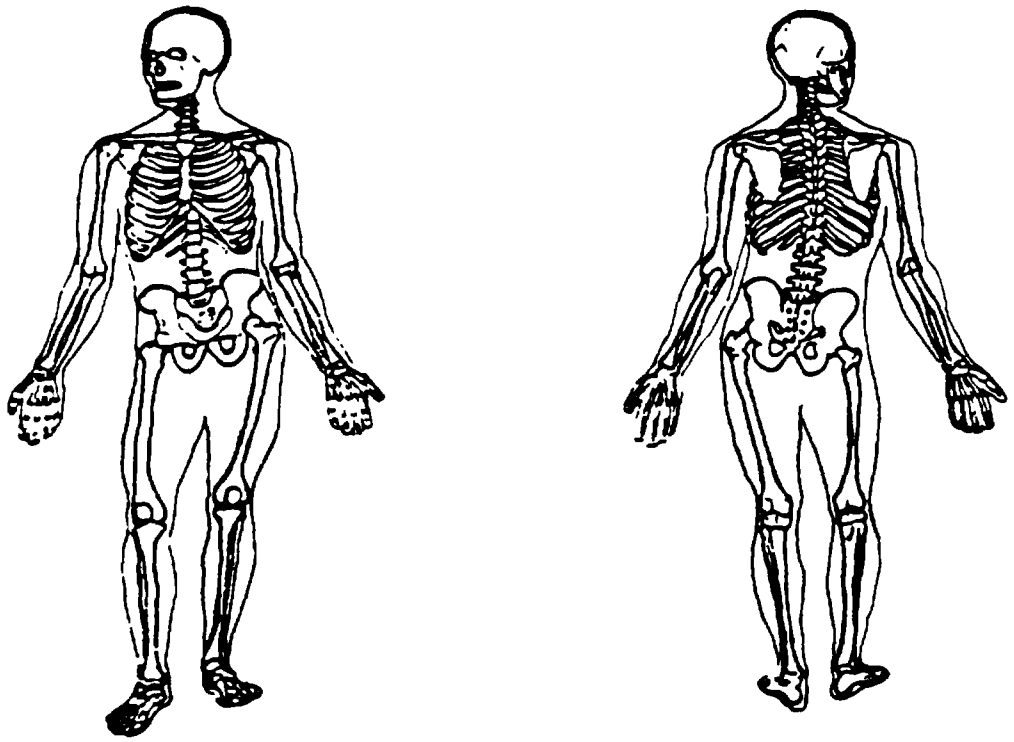
OFFICIAL INJURY DATA

Indicate the *Nature* and *Location* of *All* injuries.

Soft Tissue Injuries



Skeletal Injuries



Write additional medical record injury information on reverse of this page.

ADDITIONAL MEDICAL RECORD INJURY DATA USED IN CODING OIC/AIS

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; 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 m re 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.

	L.S.S. Body Region	O.I.C. Body Region	Aspect	Lesion	System/ Organ	A.I.S. Severity	Injury Source	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

Unofficial
(05) Lay coroner report
(06) E.M.S. personnel
(07) Interviewee
(08) Other source:

(09) Police
(99) Unknown if injured
(00) Not injured

L.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
(B) Bilateral
(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) Abrasions
(M) Amputation
(V) Avulsion
(B) Burn
(K) Concussion
(C) Contusion
(N) Crushing
(G) Detachment, separation
(D) Dislocations
(F) Fractures
(Z) Fracture and dislocation
(U) Injured unknown lesion
(L) Laceration
(O) Other
(P) Perforation, puncture
(R) Rupture
(S) Sprains
(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) Severe injury
(4) Serious injury
(5) Critical injury
(6) Maximum (untreatable)
(7) Injured, unknown severity
(0) Not injured
(9) Unknown if injured

REDUCTION SECTION

Injury Source

(00) No injury

FRONT

(01) Windshield
(02) Mirror
(03) Steering assembly, including transmission selector level when column mounted
(04) Add-on equipment (e.g., CB, tape deck, air conditioner)
(05) Instrument panel and below, excluding foot controls and parking brake
(06) Sunvisor
(09) Other front object

SIDE

(11) Side interior surface, excluding hardware or armrests
(12) Side hardware or armrests
(13) A pillar
(14) B pillar
(15) Other pillar
(16) Window glass or frame
(19) Other side object

INTERIOR

(21) Seat, back support
(22) Belt restraint system
(23) Head restraint
(24) Air cushion
(25) Other occupants
(26) Interior loose objects
(29) Other interior object

ROOF

(31) Front header
(32) Rear header
(33) Roof side rails
(34) Roof or convertible top

FLOOR

(41) Floor
(42) Floor or console mounted transmission lever, including console
(43) Parking brake handle
(44) Foot controls including parking brake

REAR

(51) Backlight (rear window)
(52) Backlight storage rack, door, etc.
(59) Other rear objects

EXTERIOR of OCCUPANTS VEHICLE

(61) Hood
(62) Outside hardware (e.g., outside mirror, antenna)
(63) Other exterior surface or tires
(69) Unknown exterior objects

EXTERIOR of OTHER MOTOR VEHICLE

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

OTHER VEHICLE or OBJECT in the ENVIRONMENT

(86) Ground
(87) Other vehicle or object
(89) Unknown vehicle or object

NONCONTACT INJURY

(90) Noncontact injury source (impact force)
(97) Injured, unknown source
(99) Unknown if injured

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 41 to 49). In the additional row "No injury" will be coded for all variables including A.I.S. severity.

Update Candidate: ◯ *Yes* ◯ *No*

	I.S.S. Body Region		O.I.C. Body Region		Aspect		Lesion		System/ Organ		A.I.S. Severity		Injury Source		Source of Data
1st		28.	41	29.	42	30.	43	31.	44	32.	45	33.	46 47	34.	48 49
2nd		35.	50	36.	51	37.	52	38.	53	39.	54	40.	55 56	41.	57 58
3rd		42.	59	43.	60	44.	61	45.	62	46.	63	47.	64 65	48.	66 67
4th		49.	68	50.	69	51.	70	52.	71	53.	72	54.	73 74	55.	75 76
5th		56.	77	57.	78	58.	79	59.	80	60.	81	61.	82 83	62.	84 85
6th		63.	86	64.	87	65.	88	66.	89	67.	90	68.	91 92	69.	93 94

CODING SECTION

LOG RESPONSES

12. 17. 22. 27. 32. 37. 42. 47. MANNER

(1) Telephone
(2) Personal visit to home, work, etc.
(3) Letter (questionnaire)
(4) Other (specify)

a. _____

b. _____

c. _____

13. 18. 23. 28. 33. 38. 43. 48. RESULT

(01) No answer (to phone call, no one home, etc.)
(02) Other person at home, work, etc.–interviewee to contact investigator.
(03) Other person at home, work, etc.–investigator to repeat call, visit, leave questionaire, or try elsewhere.
(04) Must obtain permission of attorney or insurance company.
(05) Attorney or insurance company provided permission.
(06) No return of letter questionaire
(07) Partial or complete interview

(TO BE CODED AS THE RESULT FOR THE LAST CONTACT RECORD IF A DECISION IS MADE NOT TO FURTHER ATTEMPT A SURROGATE OR DIRECT INTERVIEW.)

(08) Unable to contact or locate.
(09) Hit and run
(10) Fatal – surrogate not available
(11) In intensive care – surrogate not available
(12) Out of State resident
(13) Refused interview for other than on advice of attorney or insurance company (specify or write "unknown reason")

_____

(14) Insurance company refusal
(15) Attorney refusal or litigation
(16) Other (specify)

a. _____

b. _____

c. _____

53. REASONS MEDICAL DATA NOT OBTAINABLE

(0) Record obtained
(1) No record of treatment at medical facility
(2) Medical release required – not obtained
(3) Not medically treated
(4) Non – accident related injury
(5) Non – cooperative hospital
(6) Hospital out of study area
(7) Private physician would not release information.
(8) To be updated
(9) Unknown if medically treated

If any of the coded Injury Sources have "other" codes, i.e. 09, 15, 19, 29, 59, 63, 73, 79, 83 or 87; describe the injury source below in the space provided. Clearly indicate each description by numerical value.

_____

_____

_____

_____

_____

POLICE REPORT

70. Injury Severity (Police Rating)

___ (0) No injury (0)
___ (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

95

POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL

71. Time of 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)

_____(99) Unknown

96 97

COMMENTS:

Attach to This Form ANY Supporting Medical Documentation for This Occupant

Occupant Log

COMPLETED BY TEAM

Duplicate columns 1 through 8 from the first page of this form.

5. Card number 1/9

Duplicate columns 10 through 14 from the first page of this form.

COMMENTS:

For responses to Manner and Result see back of page 7.

INTERVIEW CONTACT RECORD

Contact Sequence	Month	Day	Year	Time of Contact	Contacting Investigator	Manner	Result
1st	9.		8 2 10.		11.	12	13.
2nd	14.		8 2 15.		16.	17.	18.
3rd	19.		8 2 20.		21.	22.	23.
4th	24.		8 2 25.		26.	27.	28.

GO to 2/9

5th	29.		8 2 30.		31.	32.	33.
6th	34.		8 2 35.		36.	37.	38.
7th	39.		8 2 40.		41.	42.	43.
8th	44.		8 2 45.		46.	47.	48.

GO TO 3/9

49. Date decision was made not to further attempt to obtain a direct or surrogate interview regarding the general data elements (variables 009 through 027). — 8 2

50. Deciding person (initials)

51. Date official medical data requested — 8 2

52. ☐ (1) Official medical injury data received before first submission.
☐ (2) Official medical injury data inapplicable (no medically diagnosed treatment).
☐ (3) Official medical injury data applicable but not obtainable.
☐ (4) Official medical injury data requested but not received at time of this submission.
☐ (9) Unknown if medically treated

53. Reason official medical data not obtainable (responses are on back of page 7)

54. Completing Person (Initials). This task is applicable even if only 0s, 9s, 00s, or 99s are the codes used.

COMPLETED by ZONE CENTER

Not in error, not to be updated, and not missing
1 – To be updated
2 – Error (not correctable)
3 – Error (correctable)
4 – Questionable
5 – Updated and corrected
6 – Sequencing error in CDC's or injury data
7 – Error incorrectly noted
8 – Data entry in error.
9 – Unknown coded on field form.
0 – RDE system error

NOTE: Duplicate columns 1 through 8 and Go to Card 4/9.

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Response	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Variable	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Response	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	–
Variable	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Response	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	—	—	—	—

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APPENDIX B

PRIMARY SAMPLING UNIT (PSU) CODES

VALUES	STRATA	DESCRIPTION
01, 03, 31, 34, 35	1	Central city, one of the 10 largest 1970 SMSA'S
36, 51, 78, 85, 86	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, 77	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-60th 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 61st-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, 84	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.

APPENDIX C

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 it is not known whether or not the vehicle was a passenger car, a truck, or motorcycle, then Vehicle Model is coded as "00" (Unknown).

If the make of the vehicle is not known (e.g., a hit-and-run vehicle), then Vehicle Make is "99" (Unknown), and Vehicle Model is coded "00" (Unknown). However, if the make of the vehicle is not known but the vehicle is known to be an automobile (e.g., from police report or interviewees), Vehicle Model is coded "99" (Unknown (automobile)).

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

01-28, 99 - domestic passenger car (automobile)
31-58, 99 - foreign passenger car (automobile)
60-69 - motored cycles (including motorcycles, mini-bikes motor scooters, dirt bikes, and mo-peds)
70-79 - 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 - trucks and buses [includes all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under Body Type (V14) 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 Cycle

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

Vehicle Make

Element Values:

Automobile

01 American Motors
02 Jeep (includes AMC-Jeep, Kaiser)
03 AM General

06 Chrysler
07 Dodge
08 Imperial
09 Plymouth

12 Ford
13 Lincoln
14 Mercury

18 Buick (includes Opel)
19 Cadillac
20 Chevrolet
21 Oldsmobile
22 Pontiac
23 GMC

29 Other domestic
V13
01 Studebaker/Avanti
02 Checker
28 Other domestic (e.g., Desoto)

30 Volkswagen (domestic and foreign)
31 Alfa Romeo
32 Audi
33 Austin/Austin Healey
34 BMW
35 Datsun
36 Fiat
37 Honda
38 Isuzu
39 Jaguar
40 Lancia
41 Mazda
42 Mercedes Benz
43 MG
[18] Opel
44 Peugeot
45 Porsche
46 Renault
47 Saab
48 Subaru
49 Toyota
50 Triumph
51 Volvo

59 Other foreign
V13
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
58 Other foreign (e.g., Morgan, Singer)

Motored Cycles

[34] BMW
60 BSA
61 Ducati
62 Harley-Davidson
[37] Honda
63 Kawasaki
64 Moto-Guzzi
65 Norton
66 Suzuki
[50] Triumph
67 Yamaha
69 Other

70 Mo-ped (all mo-peds whose manufacturer is not specifically listed above)

[ ] The brackets mean that the make's number has been previously listed.

Vehicle Model Year

Element Values:

Level 2 Range: 60 through 83

Code the last two digits of the model year for which the vehicle was manufactured.

99 Unknown

Source: Primary source is the VIN during vehicle inspection; secondary sources include registration, police report, and interviewees.

Remarks:

A vehicle manufactured as a 1983 model is to be coded as "83".

Vehicle Make (cont'd.)

Trucks and Busses

[03] AM General
80 Brockway
[20] Chevrolet
81 Diamond Reo or Reo
[35] Datsun
[07] Dodge
[12] Ford
82 Freightliner or White Freightliner
83 FWD
[23] GMC
84 International Harvester
[38] Isuzu
[02] Jeep
85 Kenworth
86 Mack
[41] Mazda
[42] Mercedes Benz
87 Peterbilt
[09] Plymouth
[48] Subaru
[49] Toyota
[30] Volkswagen
[51] Volvo
88 White

95 Other
V13
01 Autocar
02 Auto-Union-DKW
03 Divco
04 Western Star
88 Other truck or bus (e.g., Oshkosh, IVECO)

Other make

98 Other make (use codes 29, 59, 69, 70, or 95 if applicable)

Unknown make

99 Unknown make

Alphabetical Listing of Makes

31	Alfa Romeo	83	FWD	21	Oldsmobile
03	AM General	23	GMC	18	Opel
01	American Motors	62	Harley-Davidson	87	Peterbilt
5931	Aston Martin	5936	Hillman	44	Peugeot
32	Audi	37	Honda	09	Plymouth
33	Austin	84	International Harvester	22	Pontiac
34	BMW	38	Isuzu	45	Porsche
5932	Bricklin	39	Jaguar	46	Renault
80	Brockway	02	Jeep	5942	Rolls Royce/Bentley
60	BSA	5937	Jensen	5943	Rover
18	Buick	63	Kawasaki	47	Saab
19	Cadillac	85	Kenworth	5944	Simca
2902	Checker	5938	Lamborghini	2901	Studebaker/Avanti
20	Chevrolet	40	Lancia	48	Subaru
06	Chrysler	13	Lincoln	5945	Sunbeam
5933	Citroen	5939	Lotus	66	Suzuki
35	Datsun	86	Mack	50	Triumph
5934	Delorean	5940	Maserati	49	Toyota
81	Diamond Reo or Reo	41	Mazda	5946	TVR
07	Dodge	42	Mercedes-Benz	30	Volkswagen
61	Ducati	14	Mercury	51	Volvo
5935	Ferrari	43	MG	88	White
36	Fiat	5941	Morris	67	Yamaha
12	Ford	64	Moto-Guzzi		
82	Freightliner or White Freightliner	65	Norton		

Vehicle Make (cont'd.)

Source: Primary source is the VIN during vehicle inspection; secondary sources include the police report, interviewees, and vehicle registration files.

Remarks:

Please write the Vehicle Make of the vehicle in the available space for ready visual reference, even though the information is incorporated in th Make code.

The Make codes are organized into general groups. These groups are:

01-29 - Domestic automobiles
30-59 - Foreign automobiles
60-70 (34, 37, 50) - Motored cycles
80-88 (02, 03, 07, 09, 12, 20, 23, 30, 35, 38, 41, 42, 48, 49, 51) - Trucks and Buses
29, 59, 69, 70, 95, 98 - Other
99 - Unknown

If the make of the vehicle is known and is not listed as one of the specific attributes, select an "other" code based upon the vehicle's body type (V14). Reference table below:

V12 Vehicle Make		V13 Vehicle Model	V14 Body Type
29	Other domestic automobile	01, 02, 28	01-13
59	Other foreign automobile	31-46, 58	01-13
69	Other motored cycle (except Moped)	61-69	20, 28, 29
70	Other Moped	61, 62, 69	21
95	Other Truck/Bus	01-04, 78, 88	30-79
98	Other	97, 00	80-89, 99

If the make of the vehicle is known (i.e., codes "01"-"03", "06"-"09", "12"-"14", "18"-"23", "29"-51", "59"-"67", "69"-"70", "80"-"88", or "95" or "98") but it is unknown whether or not the vehicle was a passenger car, a truck, or motorcycle, then code Vehicle Model (V13) as "00" (Unknown).

If the make of the vehicle is not known (e.g., hit-and-run vehicle), then code "99" (Unknown make), and code Vehicle Model (V13) as "00" (Unknown). However, if the make of the vehicle is not known but it is known to be an automobile (V14, Body Type, equals "01"-"09"), then code Vehicle Model (V13) as "99" [Unknown (automobile)].

V12, Vehicle Make, and V13, Vehicle Model, have to be used in conjunction; therefore, refer to remarks for V13.

Vehicle Model

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	
05	AMX	(2-Seater)	68-70
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)	
09	Eagle	DL, Limited	80 on
10	SX4/Kammback	DL, Limited	81 on
28	Other (domestic automobile)		
99	Unknown (automobile)		
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	
78	Other (light truck)		
79	Unknown (light truck)		
28	Other (domestic automobile)		
99	Unknown (automobile)		
00	Unknown [Jeep]		
AM General (03)			
01	Dispatcher	Post Office (Jeep)	
75	Dispatcher	DJ-Series, Post Office Delivery (Van)	
87	Bus (rear engine)	Transit	
88	Other (truck)	Military off-road	
89	Unknown (truck)		
28	Other (domestic automobile)		
99	Unknown (automobile)		
00	Unknown [AM General]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Chrysler (06)			
07	LeBaron	S, Medallion, Salon	77 on
09	Cordoba	Crown, 300, LS	
10	Newport/New Yorker	Town and Country, Brougham, Custom, Royal, 300 (through 1971)	
28	Other (domestic automobile)		
99	Unknown (automobile)		
Dodge (07)			
01	Dart	170, 270, Custom, GT, Swinger, Sport, Demon, 340, 360, Special, Special Edition	
02	Coronet/Charger/ Magnum	Brougham, Custom, Super Bee, Crestwood, Deluxe, SE, R/T, 440, 500	
03	Polara/Monaco	Custom, Special, Police, Taxi, Crestwood, Brougham	
04	Royal Monaco		70-74
05	Challenger	R/T, T/A, Rallye	
06	Aspen	Custom, Special Edition, Police	
07	Diplomat	Medallion, "S", Salon	
08	Omni	024, De Tomaso, Miser	
09	Mirada		
10	St. Regis		
11	Aries	Custom, SE	
12	400	LS	
13	Rampage		78 on
33	Challenger-foreign		
34	Colt	GT, Custom, Carousel, RS	
71	Ramcharger	Ram	
72	D50/Colt Pickup (foreign)		
73	D, W-Series Pickup	Ram, Custom, Royal	
74	Van	Sportsman Van, Royal, Maxiwagon, Ram	
75	Van Derivative	Karivan	
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)		
89	Unknown (truck)		
28	Other (domestic automobile)		
90	Medium/Heavy: COE, unk. entry position		
99	Unknown (automobile)		
00	Unknown [Dodge]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Imperial (08)			
10	Imperial	Imperial LeBaron	thru 75
28	Other (domestic automobile)		
99	Unknown (automobile)		
Plymouth (09)			
01	Valiant/Duster/Scamp	100, 200, Taxi, Brougham, Signet, Custom, Special 340, Special 360, 340, 360	thru 76
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	
11	Reliant	Custom, SE	
13	Scamp		82 on
31	Cricket		
32	Arrow	GS, GT, Fire Arrow	
33	Sapporo		
34	Champ	Custom	
71	Trailduster		
72	Arrow pickup (foreign)		
74	Van (Voyager)	Sport, Premier	
78	Other (light truck)		
79	Unknown (light truck)		
28	Other (domestic automobile)		
99	Unknown (automobile)		
00	Unknown [Plymouth]		
Ford (12)			
01	Falcon	Falcon-Futura (through 1969)	thru 70
02	Fairlane	500, 500 XL, Fairlane-Torino (1968-1970)	thru 70
03	Mustang/Mustang II	Mach I, Boss, Grande, Cobra, Cobra II, Ghia	
04	Thunderbird	All sizes, Town Landau, Heritage	
05	LTD II	Squire, Brougham	77-79
06	LTD/Galaxy/Custom	XL, Landau, Ranch Wagon, Country Squire, S, 500, 500 XL, Br ugham, Crown Vict ria	
07	Ranchero	500, GT, Squire, Custom	
08	Maverick	Grabber	70-77
09	Pinto	MPG, Pony, RSS	71-80

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Ford (12) (cont'd.)			
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	81 on
14	EXP		82 on
31	English Ford	(e.g, Cortina)	78-80
32	Fiesta		
71	Bronco		
72	Courier Pickup (foreign)		
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	P-Series, parcel	82 on
77	Ranger		
78	Other (light truck)		
79	Unknown (light truck)		
81	Medium/Heavy: CBE	F-500 through F-800, L/LN/LNT/LT/LS/LTS-series	
82	Medium/Heavy: COE, low entry	C/CT-series	
83	Medium/Heavy: COE, high entry	CL/CLT-series	
84	Medium/Heavy: unk. engine location		
85	Medium Bus	B-series (not van based)	
88	Other (truck)		
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
28	Other (domestic automobile)		
99	Unknown (automobile)		
00	Unknown [Ford]		
Lincoln (13)			
01	Lincoln	Lincoln Continental (thru 81), Town Car (82 on)	
02	Mark	I, II, III, IV, V, VI	thru 82
05	Continental		82 on
11	Versailles		77-80
28	Other (domestic automobile)		
99	Unknown (automobile)		
Mercury (14)			
02	Cyclone	GT, CJ, Spoiler	thru 71
03	Capri-Domestic		79 on
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	67 on
08	Comet	Caliente, Capri (1966-1967), GT, Voyager,	

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Mod 1 Years
Mercury (14) (cont'd.)			
09	Bobcat		75-80
10	Montego	GT, MX, Villager, Brougham	67-76
11	Monarch	Ghia	75-81
12	Zephyr	Z7	78 on
13	Lynx		81 on
14	LN7		82 on
31	Capri-foreign	Capri (1970-1978), Capri II	70-78
33	Pantera		
28	Other (domestic automobile)		
99	Unknown (automobile)		
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/ Centurion	Estate wagon, Custom, Luxus, Sport Coupe, Wagon, Limited, Invicta	
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	82 on
12	Skyhawk	"S" Type, Road Hawk	75-81
15	Skylark	Limited, Sport, S/R, "S", Custom (see code 01)	76 on
16	Skyhawk	J-car	82 on
17	Century	A-car	82 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 (automobile)		
Cadillac (19)			
03	DeVille/Brougham	Calais, 60-Special, Coupe, Sedan, Fleetwood	
04	Limousine	Fleetwood 75, Formal	
05	Eldorado		
06	Commercial Series	(e.g., ambulance/hearse)	thru 81
14	Seville	Elegante	76 on
16	Cimarron	J-car	82 on
28	Other (domestic automobil)		
99	Unknown (automobil)		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Chevrolet (20)			
01	Malibu/Chevelle	Classic, Councours, Laquna, 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
08	Nova	Chevy II, Chevy Nova, LN, Concours	thru 79
09	Camaro	SS, LT, Z-28, Berlinetta	67 on
10	Monte Carlo	G-car	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	82 on
17	Celebrity	A-car	82 on
71	Blazer		
72	LUV pickup (foreign)		
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 on
78	Other (light truck)		
79	Unknown (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		
85	Bus	S60 series	
88	Other (truck)		
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
28	Other (domestic automobile)		
99	Unknown (automobile		
00	Unknown [Chevrolet]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Oldsmobile (21)			
01	Cutlass	Supreme, Calais, Cruiser, "S", "LS", Salon, Brougham, Vista Cruiser, 442, F-85 (thru 1972), Rallye 350	
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	82 on
28	Other (domestic automobile)		
99	Unknown (automobile)		
Pontiac (22)			
01	LeMans/Tempest	Grand Am, Safari, T-37, Grand Sport, Luxury, Custom, GTO (thru 1973), Judge, GT-37, Sprint	
02	Bonneville/Catalina	Brougham, Grand Safari, Safari, GrandVille, Executive, 2 + 2, Starchief	
05	P-Car		
08	Ventura	SJ, Custom, II, Sprint, GTO (1974 on)	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		81 on
15	Phoenix	LJ, SJ, X-car (1980 on)	78 on
16	J-2000	J-car	82 on
17	6000	A-car	82 on
28	Other (domestic automobile)		
99	Unknown (automobile)		
GMC (23)			
07	Caballero/Sprint		
71	Jimmy		
73	C, K-Series Pickup		
74	G Van/Vandura, Rally Van		
75	Van Derivativ s	P-Series, Value Van, Magnavan	
76	Suburban		
77	S-15		82 on

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
GMC (23) (cont'd.)			
78	Other (light truck)		
79	Unknown (light truck)		
81	Medium/Heavy: CBE	C-5000, C-6000, and 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		
85	Bus	B-6000	
88	Other (truck)		
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
28	Other (domestic automobile)		
99	Unknown (automobile)		
00	Unknown [GMC]		
Oth r 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	
35	Squareback/Fastback	Type 3, 1600	
36	Rabbit		
37	Dasher		
38	Scirocco		
39	The Thing		
40	Jetta		
41	Quantum		
43	Rabbit Pickup		
74	Van/Vanagon/Camper		
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Volkswagen]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Alfa Romeo (31)			
31	Spider	Veloce, 2000/1750, all roadsters	
32	Sports Sedan	Alfetta, Berlina, 2000/1750, Giulia Super, 4 door sedans	
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 (automobile)		
Audi (32)			
31	Super 90		
32	100	LS, GL	
33	Fox		
34	4000		
35	5000		
36	Quattro		82 on
58	Other (foreign automobile)		
99	Unknown (automobile)		
Austin/Austin Healey (33)			
31	Marina	GT	
32	America		
33	Healey Sprite		
34	Healey 3000	Healey 100	
35	Mini		
58	Other (foreign automobile)		
99	Unknown (automobile)		
BMW (34)			
31	1600, 2002	Tii	
32	Coupe	3.0CS, 2800 CS	
33	Bavaria Sedan	2500, 2800	
34	630, 633		
35	320i		
36	524i, 528i, 530i	TD	
07	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		
69	Unknown (cc)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [BMW]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Datsun/Nissan (35)			
31	F-10		
32	200 SX		
33	B210/210/1200	Honeybee	
34	240/260/280	Z, ZX, 2 + 2	
35	310		
36	510	PL	
37	610	PL	
38	710	PL	
39	810		
40	Roadster (SPL 311/ SRL 311)	1600/2000 Convertible	thru 70
41	PL 411/RL 411		
42	Stanza		82 on
72	Pickup		
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Datsun]		
Fiat (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 (automobile)		
Honda (37)			
31	Civic	1300, 1500, CVCC	
32	Accord	LX, CVCC	
33	Prelude		
34	600	Coupe, Sedan	
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		
69	Unknown (cc)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Honda]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Isuzu (38)			
31	I Mark	Gemini	
72	P'up (Pick-up)	Rodeo	
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Isuzu]		
Jaguar (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 (automobile)		
Lancia (40)			
31	Beta Sedan/HPE		
32	Beta Coupe/Zagato		
33	Scorpion		
58	Other (foreign automobile)		
99	Unknown (automobile)		
Mazda (41)			
31	RX2		
32	RX3		
33	RX4		
34	RX7		
35	GLC		
36	Cosmo		
37	626		
38	808		thru 76
39	Mizer		thru 72
40	R-100		
41	618/616		
42	1800		
72	Pick-up		
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Mazda]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Mercedes-Benz (42)			
31	200/220/230/240/250/280/300 (Sedan and 5 passenger Coupe "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	SL, SLC	
37	450 SE	280 S, 280 SE (1975 on), 300 SD Sedan	
38	600/6.9 Sedan	Pullman	
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)		
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Mercedes-Benz]		
MG (43)			
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 (automobile)		

Opel See Buick--(18)

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Peugeot (44)			
31	304		
32	403		
33	404		
34	505/504		
35	604	SL, D	
58	Other (foreign automobile)		
99	Unknown (automobile)		
Porsche (45)			
31	911	S, E, T, SC, Carrera	
32	912/912E		
33	914	914/6	
34	924	Turbo	
35	928		
36	930/Turbo		
37	944		82 on
58	Other (foreign automobile)		
99	Unknown (automobile)		
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	
58	Other (foreign automobile)		
99	Unknown (automobile)		
Saab (47)			
31	99/99E/900	Turbo	
32	Sonnet	Sonnet III, Sonnet 97	
33	95/96/97		
58	Other (foreign automobile)		
99	Unknown (automobile)		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Subaru (48)			
31	FE/GF/DL/STD/GL/G/GLF	4 wheel drive	
32	Star		
33	360		
43	Brat	DL, GL	
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Subaru]		
Toyota (49)			
31	Corona	Custom, Deluxe, Mark II, 1900, 2000	
32	Corolla	1100, 1200, 1600, Deluxe, Custom, SR 5	
33	Celica	1900, 2000	
34	Celica Supra	Soarer	
35	Cressida		
36	Crown	2300, 2600	
37	Carina	2000	
38	Tercel		
39	Starlet		
71	Landcruiser		
72	Pick-up	Chinooks	
78	Other (light truck)		
79	Unknown (light truck)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Toyota]		
Triumph (50)			
31	Spitfire	I, II, III, IV, 1500	
32	GT6		
33	TR4	TR3, TR2, TR4A	
34	TR6	TR 250	
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		
69	Unknown (cc)		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Triumph]		

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
Volvo (51)			
31	122	S	
32	142/144/145	S, Deluxe, GL, GLS, E	
33	164	S, E	
34	242/244/245	Deluxe, DL, GLE, GLT, GL	
35	262/264/265	GL	
36	1800	E, S, ES	
37	P-544		
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)		
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
58	Other (foreign automobile)		
99	Unknown (automobile)		
00	Unknown [Volvo]		
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		
58	Other (foreign automobile) [e.g., Morgan, Bugatti]		

Vehicle Model (cont'd.)

MOTORED CYCLE (60-69)

V12

- BSA (60)
- Ducati (61)
- Harley-Davidson (62)
- Kawasaki (63)
- Moto-Guzzi (64)
- Norton (65)
- Suzuki (66)
- Yamaha (67)
- Other Motored Cycle (69)

V13	
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
69	Unknown (cc)

V12

- Mo-ped (70)

V13	
61	0- 50 cc
62	51-124 cc
69	Unknown (cc)

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

V12

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

V13	
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	Oth r (truck)
89	Unknown (truck)
90	Medium/Heavy: COE, unk. entry position

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

Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
International Harvester (84)			
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)		
79	Unknown (light truck)		
80	Motor Home	1310 MHC, 1500 MHC	
81	Medium/Heavy: CBE	Loadstar/Fleetstar, Paystar, CBE Transtar (4200), S-Series, Mixer	
82	Medium/Heavy: COE, low entry	CO, VCO, DCO (190-1950), Cargostar, LPM 5370 (Garbage)	
83	Medium/Heavy: COE, high entry	DCO, DCOT, DCO, VCOT, (405 Series), COE Transtar, 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	
89	Unknown (truck)		
90	Medium/Heavy: COE, unk. entry position		
00	Unknown [International Harvester]		
Other (Truck or Bus) (95)			
01	Autocar		
02	Auto-Union-DKW		
03	Divco		
04	Western Star		
78	Other (light truck)*		
88	Other (truck†)	[e.g., Oshkosh, IVECO, Grumman]	
Other make (98)			
00	Unknown		
97	Other (e.g., snowmobile, go-cart)		
99	Unknown (automobile)**		

*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.

Unknown make (99)

00	Unknown (as to automobile, motored cycle, light truck, or truck)
69	Unknown (motored cycle)*
79	Unknown (light truck)*
89	Unknown (truck†)*
98	Other automobile (unknown if domestic or foreign)*
99	Unknown (automobile)*

*Use these codes even if you know more detail about the model than these codes indicate (e.g., unknown pickup truck, unknown CBE tractor semi-trailer, unknown bus, or unknown car pickup body). V14, Body Type, is available to code th additional information.

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

Source: Primary source is the VIN during vehicle inspection; secondary sources include police report, interviewees, and vehicle registration.

Remarks:

The model codes are organized into general groups. These groups are:

01-28, 99	- domestic passenger car (automobile)
31-58, 99	- foreign passenger car (automobile)
60-69	- motored cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mo-peds)
70-79	- 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	- trucks and buses [includes all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under Body Type (V14) 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 Cycle

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

Vehicle Model (cont'd.)

These codes should be used to indicate the manufacturer's model size, rather than the actual piston displacement. For example, a 1980 Honda CB 750 has an original piston displacement of 749cc. This would be coded as "66" (750 or over).

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)
89	Unknown (truck)
90	Medium/Heavy: COE, unk. entry position

†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, go-cart)

Unknown make (99)

00	Unknown (as to automobile, motored cycle, light truck, or truck)
69	Unknown (motored cycle)*
79	Unknown (light truck)*
89	Unknown (truck**)*
98	Other automobile (unknown if domestic or foreign)*
99	Unknown (automobile)*

*Use these codes even if you know more detail about the model than these codes indicate (e.g., unknown pickup truck, unknown CBE tractor semi-trailer, unknown bus, or unknown car pickup body). V14, Body Type, is available to code the additional information.

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

V12, Vehicle Make, and V13, Vehicle Model, have to be used in conjunction; therefore, refer to remarks for V12.

Body Type

Element Values:

Automobiles

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

Automobile Derivatives and Short Utility Vehicles

10 Auto based pickup (includes El Camino, Caballero, Ranchero, 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)
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 motor home)
39 Unknown bus type

Van Based Light Truck ($\leq$ 10,000 lbs. GVWR)

40 Van (includes VW bus, Vanagon, Kombi, Beauville, Chateau, Club Wagon, Sportman; excludes moving van)
41 Van-commercial cutaway (includes box van, multi-stop, parcel, van pickups)
42 Van based motor home
48 Other van type
49 Unknown van type

APPENDIX D

FILE ADJUSTMENTS

Imputation (PSU 29) :

PSU 29 did not operate from March 29, 1982 until July 16, 1982. To obtain National Estimates their accidents for these weeks were imputed, or 'filled in'. Sampling revisions, made to obtain fewer minor accidents, precluded copying these weeks directly from PSU 29 in 1981. Also, additional information - a list of accidents occurring in PSU 29 during the missing weeks - was available. Two Systematic Random Samples, one of five Y or Z type accidents and one of 83 others, were selected from this list (see Table 2.1 for Accident Types). The selected accidents simulated continued sampling at the same level as before operations ceased. Since this list excluded the last week, six of the eighty-eight accidents were chosen randomly and moved to the last week, keeping the same day of the week.

This list contained the initial accident strata, accident date, and time, but more data was needed to form NASS cases. Accidents matching those selected provided the missing data. These matching accidents were taken from PSU 29 in 1981, and from 1982 PSU's with similar demography. PSU's 06, 08, 09, 28, 32, 37, 38, and 77 were used from 1982. For each selected accident, ones with the same initial accident strata and similar date, day of week, and time of day were recorded. The one that best matched the selected accident, both on these criteria and on the geography of the PSU, was used.

The 1981 matching accidents were recoded into 1982 format by hand from the hard copies. Several variables were adjusted in both the 1981 and 1982 matching accidents:

1. The PSU number became 29.

2. The case numbers became 601-688. Only imputed cases have case numbers in the 600's.

3. The initial accident strata on the 1982 matching and selected accidents were identical. The 1981 matching accidents were translated into the 1982 scheme.

4. The Special Study indicators were set to their "NO SPECIAL STUDY" values for PSU 29.

5. National and PSU Inflation Factors, as well as Ratio weights, were taken from the selected accidents.

6. The month was taken from the selected accidents. To form a match an accident may be used with a similar date but outside of the missing weeks. If the original dates were kept, the surrounding months would appear to have too many accidents. Table D.1 indicates the potential bais.

	March	April	May	June	July	August	Total
March	2	1	0	0	0	1	4
April	2	10	6	1	1	0	20
May	0	3	17	11	2	0	33
June	0	1	2	12	6	1	22
July	0	0	0	0	7	2	9
Total	4	15	25	24	16	4	88

NOTE: The columns are the months of the matching accidents and the rows are the months of the selected accidents.

TABLE D.1

Imputation (PSU 31) :

The police accident reports from which NASS accidents are selected did not include any fatals in PSU 31, but the Fatal Accident Reporting System (FARS) indicated 104 fatal accidents there. To impute for the missing fatals, five cases where chosen from PSU's in either 1981 or 1982 with demographic and geographic characteristics similar to PSU 31. The accident strata were represented with probability proportional to their frequency in the 104 FARS cases. Each accident strata was given a weight equal to the inverse of its probability of selection times a constant factor forcing their total to 104. The weight of each accident strata was divided equally among the cases representing it. The variables were modified like those for PSU 29. Their case numbers are 689-693.

Split File

Interim NASS designs include phases with 30 and 50 PSU's. The 30 PSU design was used from January 1, 1982 to June 30, 1982; the 50 PSU design, after July 1, 1982. Thus cases with accident dates in the first half of the year are weighted from the 30 PSU design and those from the second half of the year, from the 50 PSU design. The 30 PSU's operating during the first half were 1-7, 26-33, 51-55, and 76-85. This modification is transparent to the users.

APPENDIX E

CDC/TDC

This section gives an overview of the Collision Deformation Classification (C.D.C.) for cars, vans, and light trucks, and the Truck Deformation Classification (T.D.C.) for heavy trucks, as implemented in the 1982 NASS. The C.D.C. and T.D.C. take the form of an eight character code in the following order (NOTE: If there is no C.D.C./T.D.C., the eight character code is left blank):

Direction of Force (2-character numerical). Sum of Clock Direction and Incremental Value of Shift if both are known. An unknown value for 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 (T.D.C. only)
06	6 o'clock		
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.		T.D.C	
D	Distributed--side or end	D	Distributed--side or end
L	Left--front or rear	L	Left--front or rear
C	Center--front or rear	C	Center--front or rear
R	Right--front or rear	R	Right--front or rear
F	Side front--left or right	F	Side front (forward of windshield)
P	Side center section--L or R	P	Side cab
B	Side rear--left or right	W	Side rear of cab to rear of tractor
Y	Side (F + P) or end (L + C)	K	Side (P + W)
Z	Side (P + B) or end (C + R)	S	Side (F + P + W)
9	Unknown	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
N Narrow impact area
S Sideswipe
O Rollover (including side)
H Overhanging structure
9 Unknown
E Corner
K Conversion in impact type (C.D.C. only)
U No residual deformation
R Override (T.D.C. only)

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) - moderat
05	Five	0C	(T.D.C. only) - severe
06	Six	0D	(T.D.C. only) - extremely severe
07	Seven	99	Unknown

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

DELTA-V = V separation - V approach

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

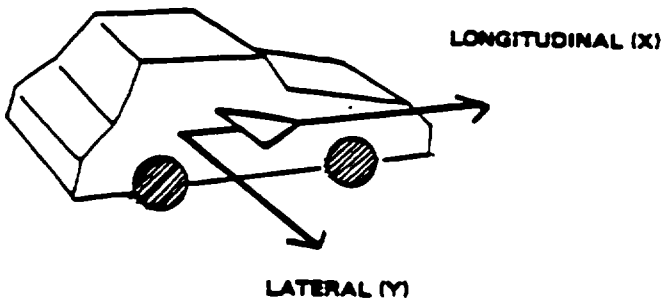

Figure E-1

Figure E-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 F

SELECTED COUNTS

Users of the NASS Analysis file have occasionally requested that the manual include total counts for certain general statistics generated by NASS. These counts are perceived as helping the user determine that he or she accessed 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 - 8718
- Total Number of Pedestrian Records - 1017
- Total Number of Vehicle Records - 13,982
- Total Number of Driver Records - 13,982
- Total Number of Occupant Records - 21,225
- Total Number of Accident Records with neither Occupants nor Pedestrians - 14
- Total Number of Accident Records with at least One Pedestrian but no Occupants - 6
- Total Number of Vehicle Records with at least One Occupant but no Driver (i.e., driver not present in vehicle) - 8
- Total Number of Vehicle records with no Occupant Records - 128