

NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)

Analytical User's Manual

1987 File



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

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SECTION 1

INTRODUCTION

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

NASS provides an automated, comprehensive national traffic accident data base. Data collection began in 1979 in 10 geographic sites, called Primary Sampling Units (PSU's). The 1987 NASS file contains data from 31 PSU's. These PSU's are monitored by 4 Zone (Quality Control) Centers. These data are 'not' weighted to represent all police reported motor vehicle accidents occurring in the USA during the year. The data are for clinical analysis only.

The structure of the NASS has been changed between 1986 and 1987, therefore comparing the 1987 file with previous years is not recommended. The changes in the NASS file include: focusing on accidents involving automobiles and automobile derivatives, light trucks with gross vehicle weight less than 10,000 pounds, and vans; selecting the accident with the most serious injury having the most recent accident date from the group of accidents listed on a given day; and the elimination of most of the pedestrian and non-motorist record, the driver record and vehicle registration information.

The 1987 NASS file is available in two automated formats: a sequential data set, or a Statistical Analysis System (SAS) data set. Handcopy data collection records, sanitized to protect privacy, are available for review. These records contain photographic slides, scene diagrams, and vehicle damage diagrams.

This Manual and the NASS Data Collection, Coding and Editing Manual - 1987 Crashworthiness Data Subsystem are the primary documentation supporting the automated file. When using this file one should be careful to understand the coding conventions of all variables used thoroughly. In addition, the user may find the following documents helpful:

Injury Coding Manual 1985 (Revised Edition)

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

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

Collision Deformation Classification (SAE J224 MAR 84)

The first document is available from the DOT/Transportation Systems Center (DTS-32), Kendall Square, Cambridge, Massachusetts 02142. The next two documents are available through the National Technical Information Service (NTIS), Springfield, Virginia 22161. The last document is 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 the NASS for 1987 were based on the redesign of the NASS for 1988. The redesign specifications include reducing the number of PSU's from 50 to 36 and focusing the accident investigations to include only automobiles, automobile derivatives, light trucks and vans. The 1987 NASS provided the transition from 1986 to 1988. Of the 50 PSU's that existed in 1986, 30 were reselected as part of the redesign and 1 was carried over for three months. These 31 PSU's provided the data for the 1987 NASS.

The data collection forms used in 1986 were also used in 1987 except that almost all of the pedestrian and non-motorist record, the majority of the driver record and the vehicle registration information were eliminated.

The emphasis was on the vehicle types described above and more serious injury accidents. Due to the status of the PSU's (30 were available in 1987, the remaining six would not be available until the end of 1987), the unavailability of the redesign sample system, and the new forms being developed for the 1988 system, it was not possible to produce estimates representative of the entire country.

The selection of accidents in NASS is accomplished by the following: on specified days of the week, the police jurisdictions are contacted and all accidents that qualify for the NASS for which a police accident report has been filed since the last date that jurisdiction was contacted are listed. While being listed, each accident is classified into a stratum based on accident severity.

Accidents are stratified based on the most severe injury level in the accident and the transported and towaway status for the less severe accidents. The strata are shown in Table 2.1. For example, an accident involving a light truck whose driver was killed and a passenger car whose driver was uninjured would be classified as Stratum A. Accidents from Stratum E were not selected, therefore no data was collected in this stratum.

Under this procedure each team is assigned a fixed number of accidents to be selected on a given contact day. To select a sample, within each stratum the accidents are sorted in descending order by (1) Accident Date, (2) Accident Time, and (3) FAR Number. Beginning with Stratum A and continuing through to Stratum D, the accident with the most recent accident date, time, and FAR number is selected. This procedure is repeated until the case load is fulfilled.

Table 2.1
1987 NASS Accident Strata

	Most Severe		Police Reported		Injury
Automobile, Automobile Derivatives, Light Trucks and Vans	Fatal	Serious Injury	Minor Injury,	No Injury,	or Unknown
			Transported	Nontransported	Towaway/Nontowaway
All Types	A	B	C	D	E

Special Considerations in the 1987 Sample

The 1987 NASS provided for a transition from the 1986 NASS to the 1988 NASS. The 1987 NASS allowed for the pilot testing of the new variables, the training for the PSU's to collect the data for the new variables, the start-up of the six new PSU's, and the computer mainframe to be developed. Therefore it is not recommended that the NASS 1987 file be used to produce national estimates on the data available. Instead, it is advised that the data be used for clinical research - similar to the Multidisciplinary Accident Investigations.

SECTION 3

DERIVED VARIABLES

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

VARIABLE NAME AND LOCATION
=====

DESCRIPTION
=====

MAXIMUM TREATMENT
(A71)

This single place numeric value indicates the most intensive treatment given to any occupant in the accident, using the following order of codes:

- 1 FATAL
- 3 HOSPITALIZATION
- 4 TREATED AND RELEASED
- 5 TREATMENT AT SCENE
- 6 TREATMENT LATER
- 8 TREATMENT - OTHER
- 2 FATAL - RULED DISEASE
- 9 UNKNOWN
- 0 NO TREATMENT

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

MAXIMUM KNOWN A.I.S.
(A72)

This single place numeric value indicates the single most severe injury level reported for any occupant in the accident, using the following order of codes:

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

VARIABLE NAME AND LOCATION
=====

DESCRIPTION
=====

ALCOHOL INVOLVED
(A73)

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

- 1 YES
- 2 NO
- 9 UNKNOWN

This variable is derived by scanning the POLICE REPORTED ALCOHOL PRESENCE and ALCOHOL TEST RESULT variables on the driver form. The ALCOHOL INVOLVED codes are derived as follows:

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

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

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

NUMBER OF SERIOUSLY INJURED
PERSONS
(A74-75)

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

NUMBER OF INJURED PERSONS
(A76-77)

This two place numeric value indicates the total number of injured occupants in the accident. It is derived by totaling the number of occupant records 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
=====

DAY OF WEEK
(A78-79)

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

01 Sunday	05 Thursday
02 Monday	06 Friday
03 Tuesday	07 Saturday
04 Wednesday	

MAXIMUM KNOWN PEDESTRIAN A.I.S.
(F102)

This variable contains "0" as the PEDESTRIAN A.I.S. variables were not collected in 1987.

PEDESTRIAN I.S.S.
(F107-104)

This variable contains "0" as the PEDESTRIAN A.I.S. and PEDESTRIAN BODY REGION variables were not collected in 1987.

VIN LENGTH
(V203-204)

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

NUMBER SERIOUSLY INJURED
IN THIS VEHICLE
(V206-207)

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

NUMBER INJURED
IN THIS VEHICLE
(V208-209)

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

VARIABLE NAME AND LOCATION

=====

DESCRIPTION

=====

WHEELBASE SHORT
(V210-213)

WHEELBASE LONG
(V214-217)

These four place numeric values with one implied decimal indicate the shortest and longest number of inches between a passenger car's axles for a given make, model and model year. 9999 denotes unknown. These variables are derived from the VIN using the VINA program.

NOTE: If a model has only one length value, it will be coded in the WHEELBASE SHORT variable and the WHEELBASE LONG variable will be coded 9999 (UNKNOWN).

FRONT/REAR WHEEL DRIVE
(V218)

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

- 1 REAR WHEEL DRIVE
- 2 FRONT WHEEL DRIVE
- 8 NOT APPLICABLE. NOT A PASSENGER CAR
- 9 UNKNOWN

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
(V219)

This single place numeric value indicates the most intensive treatment given to an occupant in this vehicle. Order of coding is the same as for the accident variable MAXIMUM TREATMENT (A71).

VARIABLE NAME AND LOCATION
=====

DESCRIPTION
=====

WEIGHT OF
THE OTHER VEHICLE
(V220-222)

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

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

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

BODY TYPE OF
THE OTHER VEHICLE
(V227-224)

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

98 - NOT APPLICABLE (Most severe impact not with another vehicle or with vehicle hitting itself).

This variable is derived from the BODY TYPE as coded for the other vehicle.

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

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

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

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

VARIABLE NAME AND LOCATION

=====

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

DESCRIPTION

=====

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

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

SECTION 4
SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

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

47		STATISTICAL CENTER
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58	MAXIMUM TREATMENT	
59		MAXIMUM KNOWN AIS
60		ALCOHOL INVOLVEMENT
61		NUMBER OF SERIOUSLY INJURED PERSONS
62		
63		NUMBER OF INJURED PERSONS
64		
65		
66		
67		
68		
69		
70		
71	MAXIMUM TREATMENT	
72	MAXIMUM KNOWN AIS	
73	ALCOHOL INVOLVEMENT	
74	NUMBER OF SERIOUSLY INJURED PERSONS	
75		
76	NUMBER OF INJURED PERSONS	
77		
78	DAY OF WEEK OF ACCIDENT	
79		

1	PSU NUMBER	NONMOTORIST	48	INJURY SOURCE	2ND INJURY CONT.	93	INJURY BEVERITY	OFFICIAL RECORD NUMBER
2			49	SOURCE		94	TIME TO DEATH	
3			50	DIR./INDIR, INJ.		95		
4	CASE NUMBER-STRATIFICATION		91	SOURCE OF DATA	96	TRAFFIC VIOLATION		
5			92		97	ALCOHOL PRESENCE		
6			93		98	ALCOHOL TEST RESULT		
7	RECORD NUMBER		94		100	PEDESTRIAN RELATED FACTORS	CRITERIA	
8	////////////////////		95		101			
9	VERSION NUMBER		96		102	MAXIMUM KNOWN AIB		
10	////////////////////		97		103	INJURY BEVERITY SCORE		
11	PEDESTRIAN OR NONMOTORIST'S NUMBER	98		104				
12		99						
13	PEDESTRIAN/NONMOTORIST TYPE	100						
14	PEDESTRIAN/NONMOTORIST AGE	101						
15		102						
16	PEDESTRIAN/NONMOTORIST'S SEX	103						
17	PEDESTRIAN/NONMOTORIST'S HEIGHT	104						
18		105						
19	PEDESTRIAN/NONMOTORIST'S HEIGHT	106						
20		107						
21		108						
22	PEDESTRIAN/NONMOTORIST'S LOCATION	109						
23		110						
24	DISTANCE FROM INTER.	111						
25	PEDESTRIAN ACTIVITY	112						
26		113						
27	TREATMENT-MORTALITY	114						
28	HOSPITAL STAY	115						
29		116						
30	WORKING DAYS LOST	117						
31		118						
32	VEH. CONTACTED PED.	119						
33		120						
34	BODY REGION	121						
35	ASPECT	122						
36	LESION	123						
37	SYSTEM/ORGAN	124						
38	AIB BEVERITY	125						
39	INJURY SOURCE	126						
40	DIR./INDIR, INJ.	127						
41	SOURCE OF DATA	128						
42		129						
43	BODY REGION	130						
44	ASPECT	131						
45	LESION	132						
46	SYSTEM/ORGAN	133						
47	AIB BEVERITY	134						

MINISTRIAL/MORTALITY RECORD

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

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

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

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

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

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

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

1	PSU NUMBER	IDENTIFICATION	48	SYSTEM/ORGAN	1ST INJURY CONT.	92	DIR./INDIR, INJ.	5TH INJURY CONT.	OCCUPANT INJURY CLASSIFICATION (CONTINUED)				
2			49	AIS SEVERITY		93	SOURCE OF DATA						
3	CASE NUMBER-STRATIFICATION		50	INJURY SOURCE	2ND INJURY	94	DIR./INDIR, INJ.			6TH INJURY	OTHER		
4				51		DIR./INDIR, INJ.	95					BODY REGION	DERIVED
5				52		SOURCE OF DATA	96					ASPECT	
6				53		BODY REGION	97					LESION	
7	RECORD NUMBER		54	ASPECT	98	SYSTEM/ORGAN							
8	////////////////////////////////////		55	LESION	99	AIS SEVERITY	100			INJURY SOURCE	OCCUPANT INJURY CLASSIFICATION (CONTINUED)		
9	VERSION NUMBER		56	SYSTEM/ORGAN	101	DIR./INDIR, INJ.	102			SOURCE OF DATA			
10	////////////////////////////////////		57	AIS SEVERITY	103	BODY REGION	104			ASPECT			
11	VEHICLE NUMBER	58	LESION	105	SYSTEM/ORGAN	106	LESION						
12		59	SYSTEM/ORGAN	107	AIS SEVERITY	108	INJURY SOURCE						
13	OCCUPANT NUMBER	60	INJURY SOURCE	109	DIR./INDIR, INJ.	110	DIR./INDIR, INJ.						
14		61	DIR./INDIR, INJ.	111	SOURCE OF DATA								
15	OCCUPANT'S AGE	62	SOURCE OF DATA										
16		63	BODY REGION										
17	OCCUPANT'S SEX	64	ASPECT										
18	OCCUPANT'S HEIGHT	65	LESION										
19		66	SYSTEM/ORGAN										
20		67	AIS SEVERITY										
21	OCCUPANT'S WEIGHT	68	INJURY SOURCE										
22		69	DIR./INDIR, INJ.										
23	OCCUPANT'S ROLE	70	SOURCE OF DATA										
24	OCCUPANT'S SEAT POSITION	71	BODY REGION										
25		72	ASPECT										
26	EXTRAPRENT	73	LESION										
27	EJECTION	74	SYSTEM/ORGAN										
28	EJECTION AREA	75	AIS SEVERITY										
29	EJECTION MEDIUM	76	INJURY SOURCE										
30	MEDIUM STATUS	77	DIR./INDIR, INJ.										
31	TREATMENT - MORTALITY	78	SOURCE OF DATA										
32	HOSPITAL STAY	79	BODY REGION										
33		80	ASPECT										
34	WORKING DAYS LOST	81	LESION										
35		82	SYSTEM/ORGAN										
36	CHILD RESTRAINT MAKE/MODEL	83	AIS SEVERITY										
37		84	INJURY SOURCE										
38	TYPE OF CHILD RESTRAINT	85	DIR./INDIR, INJ.										
39	CHILD SEAT ORIENTATION	86	SOURCE OF DATA										
40	CHILD RESTRAINT HARNESS	87	BODY REGION										
41	MANUAL RESTRAINT SYSTEM AVAIL.	88	ASPECT										
42	MANUAL RESTRAINT SYSTEM USE	89	LESION										
43	AUTOMATIC RESTRAINT SYSTEM AVAIL.	90	SYSTEM/ORGAN										
44	AUTOMATIC RESTRAINT FUNCTION	91	AIS SEVERITY										
45	BODY REGION	92	INJURY SOURCE										
46	ASPECT	93	DIR./INDIR, INJ.										
47	LESION	94	SOURCE OF DATA										
		95	BODY REGION										
		96	ASPECT										
		97	LESION										
		98	SYSTEM/ORGAN										
		99	AIS SEVERITY										
		100	INJURY SOURCE										
		101	DIR./INDIR, INJ.										
		102	SOURCE OF DATA										
		103	BODY REGION										
		104	ASPECT										
		105	LESION										
		106	SYSTEM/ORGAN										
		107	AIS SEVERITY										
		108	INJURY SOURCE										
		109	DIR./INDIR, INJ.										
		110	SOURCE OF DATA										

SECTION 5

SAS FILE

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

SAS is a non-hierarchical data base. The SAS data base for NASS consists of five individual data sets, one for each of the five NASS record levels, i.e. Accident, Pedestrian, Vehicle, Driver, and Occupant. Using modified relational database concepts, SAS allows the natural hierarchical structure of NASS data to be fully explored by the analyst. An analyst can create a new SAS data set by merging data from several levels of the NASS hierarchy--e.g., vehicle and driver levels--through use of an appropriate set of SAS commands within the DATA step.

SAS Data Base Contents

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

- Numeric variables for which 9, 99, etc. represent "unknown" are recoded to the SAS special missing value .U ("dot-u") and are not included in percentage tabulations;
- The value of 95 ("test refused") for Driver Alcohol Test Results (ALCTEST) has been recoded to .B; the value of 96 ("not given") has been recoded to .C; the value of 97 ("performed, results unknown") has been recoded to .D; and the value of 99 ("unknown") has been recoded to .U; these values are not included in percentage tabulations;
- Missing data for numeric values are recoded as "." in SAS and are not included in percentage tabulations;

- Numeric variables not coded on the accident, pedestrian, vehicle, driver and occupant forms in 1987 have been recoded to .N (Not Collected);
- Hour of Day (Time) is stored as a SAS time value, and has an output format of HHMM5.

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

The remainder of this Section presents the SAS layout for the 1987 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 MASSANL.ACCIDENT

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
25	AAIS	NUM	2	56			MAXIMUM KNOWN AIS IN ACCIDENT
27	AINJSER	NUM	2	60			NUMBER OF SERIOUSLY INJURED PERSONS
28	AINJURED	NUM	2	62			TOTAL NUMBER OF INJURED PERSONS
26	ALCINV	NUM	2	58			ALCOHOL INVOLVED ACCIDENT
24	ATREAT	NUM	2	54			MAXIMUM TREATMENT IN ACCIDENT
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
29	DAYWEEK	NUM	2	64			DAY OF WEEK
23	ENVIRON	NUM	2	52			ENVIRONMENTAL DATA
19	GEOMETRY	NUM	2	44			INTERCHANGE GEOMETRY
10	HARMEV1	NUM	2	24			FIRST HARMFUL EVENT
16	LGTCOND	NUM	2	38			LIGHT CONDITIONS
11	MANCOLL	NUM	2	26			MANNER OF COLLISION (BASED ON F.H.E.)
8	MONTH	NUM	2	20			MONTH OF ACCIDENT
13	PEDFORMS	NUM	2	30			NUMBER OF PED/NONMOTOR FORMS SUBMITTED
1	PSU	NUM	2	4			PSU NUMBER
5	RECNO	NUM	2	14			RECORD NUMBER
18	RELJUNC	NUM	2	42			RELATION TO JUNCTION
14	RELROAD	NUM	2	32			RELATION TO ROADWAY (LOCATION OF F.H.E.)
21	SCHBUS	NUM	2	48			SCHOOL BUS-RELATED
20	SCHZONE	NUM	2	46			ACCIDENT OCCURENCE IN SCHOOL ZONE
4	STRATIF	CHAR	1	13			INITIAL STRATIFICATION
15	TIME	NUM	4	34			TIME OF ACCIDENT
22	TURNRED	NUM	2	50			TURN ON RED RELATED
6	TYPECASE	NUM	2	16			TYPE OF CASE
12	VEHFORMS	NUM	2	28			NUMBER OF VEHICLE FORMS SUBMITTED
7	VERSION	NUM	2	18			VERSION NUMBER
17	WEATHER	NUM	2	40			ATMOSPHERIC CONDITIONS
9	YEAR	NUM	2	22			YEAR OF ACCIDENT

MASS 1987 ANALYSIS FILE CREATION,
 CONTENTS OF SAS DATA SET MASSANL.PEDES

17:36 THURSDAY, JULY 14, 1988

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
37	AIS1	NUM	2	54			AIS SEVERITY (FIRST)
38	AIS2	NUM	2	56			AIS SEVERITY (SECOND)
39	AIS3	NUM	2	58			AIS SEVERITY (THIRD)
40	AIS4	NUM	2	60			AIS SEVERITY (FOURTH)
41	AIS5	NUM	2	62			AIS SEVERITY (FIFTH)
42	AIS6	NUM	2	64			AIS SEVERITY (SIXTH)
19	ASPECT1	CHAR	1	36			ASPECT (FIRST)
20	ASPECT2	CHAR	1	37			ASPECT (SECOND)
21	ASPECT3	CHAR	1	38			ASPECT (THIRD)
22	ASPECT4	CHAR	1	39			ASPECT (FOURTH)
23	ASPECT5	CHAR	1	40			ASPECT (FIFTH)
24	ASPECT6	CHAR	1	41			ASPECT (SIXTH)
13	BODYREG1	CHAR	1	30			OIC BODY REGION (FIRST)
14	BODYREG2	CHAR	1	31			OIC BODY REGION (SECOND)
15	BODYREG3	CHAR	1	32			OIC BODY REGION (THIRD)
16	BODYREG4	CHAR	1	33			OIC BODY REGION (FOURTH)
17	BODYREG5	CHAR	1	34			OIC BODY REGION (FIFTH)
18	BODYREG6	CHAR	1	35			OIC BODY REGION (SIXTH)
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
12	CONTACT	NUM	2	28			VEHICLE WHICH CONTACTED PEDESTRIAN
55	DIRINJ1	NUM	2	90			DIRECT/INDIRECT INJURY (FIRST)
56	DIRINJ2	NUM	2	92			DIRECT/INDIRECT INJURY (SECOND)
57	DIRINJ3	NUM	2	94			DIRECT/INDIRECT INJURY (THIRD)
58	DIRINJ4	NUM	2	96			DIRECT/INDIRECT INJURY (FOURTH)
59	DIRINJ5	NUM	2	98			DIRECT/INDIRECT INJURY (FIFTH)
60	DIRINJ6	NUM	2	100			DIRECT/INDIRECT INJURY (SIXTH)
10	DISTANCE	NUM	2	24			DISTANCE FROM INTERSECTION
43	INJSOU1	NUM	2	66			INJURY SOURCE (FIRST)
44	INJSOU2	NUM	2	68			INJURY SOURCE (SECOND)
45	INJSOU3	NUM	2	70			INJURY SOURCE (THIRD)
46	INJSOU4	NUM	2	72			INJURY SOURCE (FOURTH)
47	INJSOU5	NUM	2	74			INJURY SOURCE (FIFTH)
48	INJSOU6	NUM	2	76			INJURY SOURCE (SIXTH)
64	ISS	NUM	2	108			ISS
25	LESION1	CHAR	1	42			LESION (FIRST)
26	LESION2	CHAR	1	43			LESION (SECOND)
27	LESION3	CHAR	1	44			LESION (THIRD)
28	LESION4	CHAR	1	45			LESION (FOURTH)
29	LESION5	CHAR	1	46			LESION (FIFTH)
30	LESION6	CHAR	1	47			LESION (SIXTH)
63	MAIS	NUM	2	106			MAXIMUM KNOWN OCC/PED/NM AIS
65	PAGE	NUM	2	110			AGE OF PERSON (P)
75	PALCTEST	NUM	2	130			ALCOHOL TEST RESULTS (P)
73	PDEATH	NUM	2	126			TIME TO DEATH (P)
74	PDRINKNG	NUM	2	128			ALCOHOL PRESENCE (P)
11	PEDACT	NUM	2	26			PEDESTRIAN ACTIVITY
9	PEDLOC	NUM	2	22			PEDESTRIAN LOCATION

62	PEDRF	NUM	2	104	PEDESTRIAN RELATED FACTORS
7	PERNO	NUM	2	18	PEDESTRIAN/NONMOTORIST'S NUMBER
8	PERTYPE	NUM	2	20	PEDESTRIAN/NONMOTORIST'S TYPE
67	PHEIGHT	NUM	2	114	HEIGHT OF PERSON (P)
70	PHOSPSTY	NUM	2	120	HOSPITAL STAY (P)
72	PINJSEV	NUM	2	124	INJURY SEVERITY (POLICE RATING) (P)
66	PSEX	NUM	2	112	SEX OF PERSON (P)
1	PSU	NUM	2	4	PSU NUMBER
69	PTRETMNT	NUM	2	118	TREATMENT-MORTALITY (P)
68	PWEIGHT	NUM	2	116	WEIGHT OF PERSON (P)
71	PMORKDYS	NUM	2	122	WORKING DAYS LOST (P)
5	RECNO	NUM	2	14	RECORD NUMBER
49	SODDAT1	NUM	2	78	SOURCE OF DATA (FIRST)
50	SODDAT2	NUM	2	80	SOURCE OF DATA (SECOND)
51	SODDAT3	NUM	2	82	SOURCE OF DATA (THIRD)
52	SODDAT4	NUM	2	84	SOURCE OF DATA (FOURTH)
53	SODDAT5	NUM	2	86	SOURCE OF DATA (FIFTH)
54	SODDAT6	NUM	2	88	SOURCE OF DATA (SIXTH)
4	STRATIF	CHAR	1	13	INITIAL STRATIFICATION
31	SYSORRG1	CHAR	1	48	SYSTEM/ORGAN (FIRST)
32	SYSORRG2	CHAR	1	49	SYSTEM/ORGAN (SECOND)
33	SYSORRG3	CHAR	1	50	SYSTEM/ORGAN (THIRD)
34	SYSORRG4	CHAR	1	51	SYSTEM/ORGAN (FOURTH)
35	SYSORRG5	CHAR	1	52	SYSTEM/ORGAN (FIFTH)
36	SYSORRG6	CHAR	1	53	SYSTEM/ORGAN (SIXTH)
6	VERSION	NUM	2	16	VERSION NUMBER
61	VIOLCHG	NUM	2	102	TRAFFIC VIOLATION CHARGED - PED/NONMOTOR

CONTENTS OF SAS DATA SET MASSANL.VEHICLE

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
64	ACCSEQ1	NUM	2	132			EVENT NUMBER IN ACCIDENT (HIGHEST)
65	ACCSEQ2	NUM	2	134			EVENT NUMBER IN ACCIDENT (2ND HIGHEST)
37	AXLESP	NUM	2	86			NUMBER OF AXLES (POWER UNIT)
38	AXLEST1	NUM	2	88			NUMBER OF AXLES (1ST TRAILER)
39	AXLEST2	NUM	2	90			NUMBER OF AXLES(2ND TRAILER)
40	AXLEST3	NUM	2	92			NUMBER OF AXLES(3RD TRAILER)
17	BODYTYPE	NUM	2	92			BODY TYPE
46	BRACKETY	NUM	2	46			TYPE OF BRAKE ACTUATION
36	CABCONF	NUM	2	104			CAB CONFIGURATION
103	CARGOMGT	NUM	3	84			VEHICLE CARGO WEIGHT
2	CASEID	CHAR	4	228			VEHICLE CARGO WEIGHT - STRATIFICATION
3	CASENO	NUM	3	6			SEQUENCE NUMBER
102	CURBMGT	NUM	3	10			VEHICLE CURB WEIGHT
82	DOCCDC	NUM	2	225			DOCUMENTATION MORE THAN TWO CDC/TDC
88	DOCCMPNT	NUM	2	184			DRIVER OTHER (INTRUDING COMPONENT)
52	DOF1	NUM	2	197			DIRECTION OF FORCE (HIGHEST)
53	DOF2	NUM	2	116			DIRECTION OF FORCE(2ND HIGHEST)
89	DOINTRSN	NUM	2	118			DRIVER OTHER (MAGNITUDE OF INTRUSION)
86	DPCOMPNT	NUM	2	199			DRIVER OTHER (MAGNITUDE OF INTRUSION)
87	DPINTRSN	NUM	2	193			DRIVER PRIMARY (INTRUDING COMPONENT)
115	DRIVE	NUM	2	195			DRIVER PRIMARY (MAGNITUDE OF INTRUSION)
105	DVBASIS	NUM	2	254			FRONT/REAR WHEEL DRIVE
67	DVC1	NUM	3	233			BASIS FOR TOTAL DELTA V (HIGHEST)
68	DVC2	NUM	3	139			'CRASH' DAMAGE DATA MAX DELTA V - C1
69	DVC3	NUM	3	142			'CRASH' DAMAGE DATA MAX DELTA V - C2
70	DVC4	NUM	3	145			'CRASH' DAMAGE DATA MAX DELTA V - C3
71	DVC5	NUM	3	148			'CRASH' DAMAGE DATA MAX DELTA V - C4
72	DVC6	NUM	3	151			'CRASH' DAMAGE DATA MAX DELTA V - C5
73	DVD	NUM	3	154			'CRASH' DAMAGE DATA MAX DELTA V - C6
66	DVL	NUM	3	157			'CRASH' DAMAGE DATA MAX DELTA V - L
108	DVLAT	NUM	2	136			LATERAL COMPONENT OF DELTA V
107	DVLONG	NUM	2	237			LONGITUDINAL COMPONENT OF DELTA V
106	DVTOTAL	NUM	2	235			TOTAL DELTA V
109	ENERGY	NUM	3	241			ENERGY ABSORPTION
62	EXTENT1	CHAR	2	128			DEFORMATION EXTENT GUIDE (HIGHEST)
63	EXTENT2	CHAR	2	130			DEFORMATION EXTENT GUIDE(2ND HIGHEST)
96	FIRE	NUM	2	213			DEFORMATION EXTENT GUIDE(2ND HIGHEST)
54	GAD1	CHAR	1	120			FIRE OCCURRENCE
55	GAD2	CHAR	1	121			DEFORMATION LOCATION (HIGHEST)
47	GWMR	NUM	2	106			DEFORMATION LOCATION(2ND HIGHEST)
101	HAZCARGO	NUM	2	223			GROSS VEHICLE WEIGHT RATING
8	HITRUN	NUM	2	20			HAZARDOUS CARGO
97	IMPTYPE	NUM	2	215			HIT & RUN INVOLVEMENT
100	JACKKNIFE	NUM	2	221			TYPE OF MOST SEVERE IMPACT
32	LMIRROR	NUM	2	76			JACKKNIFE
13	MAKE	NUM	2	30			TYPE OUTSIDE MIRROR (LEFT)
45	MAXLEN	NUM	2	102			VEHICLE MAKE
44	MAXWIDTH	NUM	2	100			VEHICLE MAKE
							MAXIMUM OVERALL LENGTH
							MAXIMUM OVERALL WIDTH

MODEL	NUM	MODEL	NUM	VEHICLE MODEL	YEAR
14	MODEL	NUM	32	VEHICLE MODEL	
12	MODEL	NUM	28	VEHICLE MODEL	
50	OBJCONT1	NUM	112	OBJECT CONTACTED (HIGHEST)	
51	OBJCONT2	NUM	114	OBJECT CONTACTED(2ND HIGHEST)	
9	OCCFORMS	NUM	22	NUMBER OF OCCUPANT FORMS SUBMITTED	
84	ODOMETER	NUM	188	ODOMETER READING	
117	OTBDYTYP	NUM	259	BODY TYPE OF THE OTHER VEHICLE	
98	OTVHMG	NUM	217	ROLE OF OTHER CONTACTED VEH, OBJ, PER	
116	OTVHMG	NUM	256	WEIGHT OF THE OTHER VEHICLE	
34	OVERRIDE	NUM	80	OVERRIDE/UNDERIDE THIS VEHICLE	
85	PCINTEG	NUM	191	PASSENGER COMPARTMENT INTEGRITY	
92	POCOMPNT	NUM	205	PASSENGER OTHER (INTRUDING COMPONENT)	
93	POINTRSN	NUM	207	PASSENGER OTHER (MAGNITUDE OF INTRUSION)	
90	PPCOMPNT	NUM	201	PASSENGER PRIMARY (INTRUDING COMPONENT)	
91	PPINTRSN	NUM	203	PASSENGER PRIMARY (MAGN. OF INTRUSION)	
1	PSU	NUM	4	PSU NUMBER	
35	REARTURN	NUM	82	REAR TURN SIGNAL COLOR	
5	RECNO	NUM	14	RECORD NUMBER	
15	REGISTRA	NUM	34	REGISTRATION OF VEHICLE	
33	RMIRROR	NUM	78	TYPE OUTSIDE MIRROR (RIGHT)	
99	ROLLOVER	NUM	219	ROLLOVER	
75	SDVC1	NUM	163	*CRASH* DAMAGE DATA 2ND DELTA V - C1	
76	SDVC2	NUM	166	*CRASH* DAMAGE DATA 2ND DELTA V - C2	
77	SDVC3	NUM	169	*CRASH* DAMAGE DATA 2ND DELTA V - C3	
78	SDVC4	NUM	172	*CRASH* DAMAGE DATA 2ND DELTA V - C4	
79	SDVC5	NUM	175	*CRASH* DAMAGE DATA 2ND DELTA V - C5	
80	SDVC6	NUM	178	*CRASH* DAMAGE DATA 2ND DELTA V - C6	
81	SDVD	NUM	181	*CRASH* DAMAGE DATA 2ND DELTA V - D	
74	SDVL	NUM	160	*CRASH* DAMAGE DATA 2ND DELTA V - L	
19	SEATCAP	NUM	50	SEATING CAPACITY/TRUCK VOCATION	
56	SHL1	CHAR	122	SPECIFIC HORIZONTAL LOCATION (HIGHEST)	
57	SHL2	CHAR	123	SPECIFIC HORIZONTAL LOCATION(2ND HIGHEST)	
104	SOURCMGT	NUM	231	REPORTED SOURCE OF CARGO WEIGHT	
83	SPECUSE	NUM	186	VEHICLE SPECIAL USE (THIS TRIP)	
95	STEERDEF	NUM	211	STEERING RIM DEFORMATION	
94	STEERSEP	NUM	209	STEERING COLUMN SEPARATION	
4	STRATIF	CHAR	13	INITIAL STRATIFICATION	
58	SVL1	CHAR	124	SPECIFIC VERTICAL LOCATION (HIGHEST)	
59	SVL2	CHAR	125	SPECIFIC VERTICAL LOCATION(2ND HIGHEST)	
20	TCAXLE1	NUM	52	TIRE CONDITION (AXLE - 1)	
21	TCAXLE2	NUM	54	TIRE CONDITION (AXLE - 2)	
22	TCAXLE3	NUM	56	TIRE CONDITION (AXLE - 3)	
23	TCAXLE4	NUM	58	TIRE CONDITION (AXLE - 4)	
28	TCCOND1	NUM	68	TIRE CONDITION (CONDITION - 1)	
29	TCCOND2	NUM	70	TIRE CONDITION (CONDITION - 2)	
30	TCCOND3	NUM	72	TIRE CONDITION (CONDITION - 3)	
31	TCCOND4	NUM	74	TIRE CONDITION (CONDITION - 4)	
24	TCTIRE1	NUM	60	TIRE CONDITION (TIRE - 1)	
25	TCTIRE2	NUM	62	TIRE CONDITION (TIRE - 2)	
26	TCTIRE3	NUM	64	TIRE CONDITION (TIRE - 3)	
27	TCTIRE4	NUM	66	TIRE CONDITION (TIRE - 4)	
60	TDD1	CHAR	126	TYPE OF DAMAGE DISTRIBUTION (HIGHEST)	
61	TDD2	CHAR	127	TYPE OF DAMAGE DISTRIBUTION(2ND HIGHEST)	
11	TOWAMWAY	NUM	26	MANNER OF LEAVING SCENE	
18	TOWHITCH	NUM	48	TOWED TRAILING UNIT	
41	TRAILER1	NUM	94	LENGTH OF TRAILER - 1	

42	TRAILER2	NUM	2	96	
43	TRAILER3	NUM	2	98	
110	TRAVELSP	NUM	2	244	
118	VAIS	NUM	2	261	
7	VEHNO	NUM	2	18	
10	VEHROLE	NUM	2	24	
48	VEHSEQ1	NUM	2	108	
49	VEHSEQ2	NUM	2	110	
6	VERSION	NUM	2	16	
16	VIN	CHAR	10	36	
112	VINJUSER	NUM	2	248	
113	VINJURED	NUM	2	250	
111	VINLENGTH	NUM	2	246	
114	VTREAT	NUM	2	252	
120	WHEELLONG	NUM	8	271	5.1
119	WHEELSHT	NUM	8	263	5.1

LENGTH OF TRAILER - 2
 LENGTH OF TRAILER - 3
 TRAVEL SPEED
 MAXIMUM KNOWN AIS IN THIS VEHICLE
 VEHICLE NUMBER
 VEHICLE ROLE
 EVENT NUMBER THIS VEHICLE (HIGHEST)
 EVENT NUMBER THIS VEHICLE (2ND HIGHEST)
 VERSION NUMBER
 VEHICLE IDENTIFICATION NUMBER
 NUMBER SERIOUSLY INJURED IN THIS VEHICLE
 NUMBER INJURED IN THIS VEHICLE
 VIN LENGTH
 MAXIMUM TREATMENT(THIS VEH)
 WHEELBASE LONG
 WHEELBASE SHORT

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
41	ACCESS	NUM	2	89			ACCESS CONTROL
21	ACCTYPE	NUM	2	48			ACCIDENT TYPE
8	ALCTEST	NUM	2	20			ALCOHOL TEST RESULT
45	ALIGNMNT	NUM	2	97			ROADWAY ALIGNMENT
22	AVOIDMAN	NUM	2	50			ATTEMPTED AVOIDANCE MANEUVER
19	BMCSEID	NUM	2	44			FEDERAL SAFETY REGULATED
2	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
3	CASENO	NUM	3	10			SEQUENCE NUMBER
35	CLASTRAF	NUM	3	10			CLASS TRAFFICWAY
48	CURVE	NUM	2	76			DEGREE OF CURVATURE
20	DRCLASS	NUM	3	104			DRIVER'S CLASSIFICATION
7	DRINKING	NUM	2	46			ALCOHOL PRESENCE
11	DRPRES	NUM	2	18			DRIVER PRESENCE IN VEHICLE
15	DRTRAIN	NUM	2	26			DRIVER EDUCATION
58	ENVRF	NUM	2	36			ENVIRONMENTAL RELATED FACTORS
34	FEDAID	NUM	2	126			FEDERAL AID SYSTEM
17	FREQDRIV	NUM	2	74			FREQUENCY DRIVING ROAD
49	GRADE	NUM	3	40			GRADE MEASUREMENT
37	LANES	NUM	2	107			NUMBER OF TRAVEL LANES
38	LANEMIDT	NUM	3	80			LANE WIDTH
16	LASTRAIN	NUM	2	82			TIME SINCE LAST DRIVER EDUCATION
28	LREST	NUM	2	38			LICENSE RESTRICTION
26	LSTATUS	NUM	2	62			LICENSE TYPE COMPLIANCE
27	LTYPCOMP	NUM	2	58			DRIVER LICENSE STATUS
39	MEDIANT	NUM	2	60			LICENSE TYPE COMPLIANCE
40	MEDIANM	NUM	2	85			MEDIAN TYPE
14	MILETOT	NUM	2	87			MEDIAN WIDTH
13	MILEVEH	NUM	3	33			TOTAL MILEAGE ALL VEHICLES
12	MONDRIVE	NUM	2	30			ESTIMATED MILEAGE THIS VEHICLE
10	OCCUPANTS	NUM	2	28			MONTHS DRIVING EXP. THIS CLASS VEHICLE
33	PREVACC	NUM	2	24			NUMBER OF OCCUPANTS THIS MOTOR VEHICLE
31	PREVDWI	NUM	2	72			PREVIOUS ACCIDENTS
30	PREVOIH	NUM	2	68			PREVIOUS D.M.I. CONVICTIONS
29	PREVSPD	NUM	2	66			PREVIOUS MOVING VIOLATIONS CONVICTIONS
32	PREVSUS	NUM	2	64			PREVIOUS SPEEDING CONVICTIONS
50	PRORILE	NUM	2	70			PREVIOUS SUSPENSIONS AND REVOCATIONS
1	PSU	NUM	2	110			ROADWAY PROFILE
5	RECNO	NUM	2	4			PSU NUMBER
23	RELFAC	NUM	2	14			RECORD NUMBER
34	RESTRIC	NUM	2	52			DRIVER RELATED FACTORS
36	ROADFUNC	NUM	2	118			RESTRICTION OF ROADWAY AT SCENE
43	SHOULDLT	NUM	2	78			ROADWAY FUNCTION CLASS
44	SHOULDRT	NUM	2	93			LEFT SHOULDER TYPE
46	SLOPE	NUM	2	95			RIGHT SHOULDER TYPE
53	SPLIMIT	NUM	2	99			CROSS SLOPE
4	STRATIF	CHAR	1	116			SPEED LIMIT
47	SUPELEV	NUM	3	13			INITIAL STRATIFICATION
52	SURCOND	NUM	2	101			SUPERELEVATION
				114			ROADWAY SURFACE CONDITION

NUM	SURTYPE	NUM	2	112	ROADWAY SURFACE TYPE
51	TRAFCONT	NUM	2	120	TRAFFIC CONTROL DEVICE
55	TRAFFLIM	NUM	2	91	TRAFFICWAY FLOW DEVICE FUNCTIONING
42	TRCTLFCT	NUM	2	122	TRAFFIC CONTROL DEVICE FUNCTIONING
56	TRUCKSYS	NUM	2	124	DESIGNATED TRUCK SYSTEM
57	TRUCKSYS	NUM	2	42	TYPE OF OPERATION OR CARRIER
18	TYPEOP	NUM	2	42	VEHICLE NUMBER
9	VEHNO	NUM	2	22	VEHICLE NUMBER
6	VERSION	NUM	2	16	VERSION NUMBER
24	VIOCHAR1	NUM	2	54	VIOLATION CHARGED (FIRST)
25	VIOCHAR2	NUM	2	56	VIOLATION CHARGED (SECOND)

ALPHABETIC LIST OF VARIABLES

#	VARIABLE	TYPE	LENGTH	POSITION	FORMAT	INFORMAT	LABEL
7	AGE	NUM	2	18			AGE OF PERSON
38	AIS1	NUM	2	56			AIS SEVERITY (FIRST)
39	AIS2	NUM	2	58			AIS SEVERITY (SECOND)
40	AIS3	NUM	2	60			AIS SEVERITY (THIRD)
41	AIS4	NUM	2	62			AIS SEVERITY (FOURTH)
42	AIS5	NUM	2	64			AIS SEVERITY (FIFTH)
43	AIS6	NUM	2	66			AIS SEVERITY (SIXTH)
20	ASPECT1	CHAR	1	38			ASPECT (FIRST)
21	ASPECT2	CHAR	1	39			ASPECT (SECOND)
22	ASPECT3	CHAR	1	40			ASPECT (THIRD)
23	ASPECT4	CHAR	1	41			ASPECT (FOURTH)
24	ASPECT5	CHAR	1	42			ASPECT (FIFTH)
25	ASPECT6	CHAR	1	43			ASPECT (SIXTH)
81	AUTAVAIL	NUM	2	142			PASSIVE RESTRAINT SYSTEM - AVAILABILITY
82	AUTFNCT	NUM	2	144			PASSIVE RESTRAINT SYSTEM - FUNCTION
14	BODYREG1	CHAR	1	32			OIC BODY REGION (FIRST)
15	BODYREG2	CHAR	1	33			OIC BODY REGION (SECOND)
16	BODYREG3	CHAR	1	34			OIC BODY REGION (THIRD)
17	BODYREG4	CHAR	1	35			OIC BODY REGION (FOURTH)
18	BODYREG5	CHAR	1	36			OIC BODY REGION (FIFTH)
19	BODYREG6	CHAR	1	37			OIC BODY REGION (SIXTH)
3	CASEID	CHAR	4	6			CASE NUMBER - STRATIFICATION
5	CASENO	NUM	3	10			SEQUENCE NUMBER
63	DEATH	NUM	2	106			TIME TO DEATH
56	DIRINJ1	NUM	2	92			DIRECT/INDIRECT INJURY (FIRST)
57	DIRINJ2	NUM	2	94			DIRECT/INDIRECT INJURY (SECOND)
58	DIRINJ3	NUM	2	96			DIRECT/INDIRECT INJURY (THIRD)
59	DIRINJ4	NUM	2	98			DIRECT/INDIRECT INJURY (FOURTH)
60	DIRINJ5	NUM	2	100			DIRECT/INDIRECT INJURY (FIFTH)
61	DIRINJ6	NUM	2	102			DIRECT/INDIRECT INJURY (SIXTH)
72	EJCTAREA	NUM	2	124			EJECTION AREA
73	EJCTMED	NUM	2	126			EJECTION MEDIUM
71	EJECTION	NUM	2	122			EJECTION
70	ENTRAP	NUM	2	120			ENTRAPMENT
9	HEIGHT	NUM	2	22			HEIGHT OF PERSON
12	HOSRSTAY	NUM	2	28			HOSPITAL STAY
77	INFSEAT	NUM	2	134			INFANT SEAT ORIENTATION
78	INFUSAGE	NUM	2	136			INFANT RESTRAINT USAGE
62	INJSEV	NUM	2	104			INJURY SEVERITY (POLICE RATING)
44	INJSOU1	NUM	2	68			INJURY SOURCE (FIRST)
45	INJSOU2	NUM	2	70			INJURY SOURCE (SECOND)
46	INJSOU3	NUM	2	72			INJURY SOURCE (THIRD)
47	INJSOU4	NUM	2	74			INJURY SOURCE (FOURTH)
48	INJSOU5	NUM	2	76			INJURY SOURCE (FIFTH)
49	INJSOU6	NUM	2	78			INJURY SOURCE (SIXTH)
65	ISS	NUM	2	110			ISS
26	LESION1	CHAR	1	44			LESION (FIRST)
27	LESION2	CHAR	1	45			LESION (SECOND)

28	LESION3	CHAR	1	46
29	LESION4	CHAR	1	47
30	LESION5	CHAR	1	48
31	LESION6	CHAR	1	49
64	MAIS	NUM	2	108
79	MANAVAIL	NUM	2	138
80	MANUSE	NUM	2	140
74	MEDSTA	NUM	2	128
67	OCCNO	NUM	2	114
1	PSU	NUM	2	4
5	RECNO	NUM	2	14
75	RESTMKE	NUM	2	130
68	ROLE	NUM	2	116
69	SEATPOS	NUM	2	118
8	SEX	NUM	2	20
50	SOU DAT1	NUM	2	80
51	SOU DAT2	NUM	2	82
52	SOU DAT3	NUM	2	84
53	SOU DAT4	NUM	2	86
54	SOU DAT5	NUM	2	88
55	SOU DAT6	NUM	2	90
4	STRATIF	CHAR	1	13
32	SYSORG1	CHAR	1	50
33	SYSORG2	CHAR	1	51
34	SYSORG3	CHAR	1	52
35	SYSORG4	CHAR	1	53
36	SYSORG5	CHAR	1	54
37	SYSORG6	CHAR	1	55
11	TREATMT	NUM	2	26
76	TYPEREST	NUM	2	132
66	VEHNO	NUM	2	112
6	WEIGHT	NUM	2	16
10	WORKDAYS	NUM	2	24
13	WORKDAYS	NUM	2	30

LESION (THIRD)
LESION (FOURTH)
LESION (FIFTH)
LESION (SIXTH)
MAXIMUM KNOWN OCC/PED/AM AIS
ACTIVE RESTRAINT SYSTEM - AVAILABILITY
ACTIVE RESTRAINT SYSTEM - USE
MEDIUM STATUS
OCCUPANT NUMBER
PSU NUMBER
RECORD NUMBER
CHILD RESTRAINT MAKE/MODEL
OCCUPANT'S ROLE
OCCUPANT'S SEAT POSITION
SEX OF PERSON
SOURCE OF DATA (FIRST)
SOURCE OF DATA (SECOND)
SOURCE OF DATA (THIRD)
SOURCE OF DATA (FOURTH)
SOURCE OF DATA (FIFTH)
SOURCE OF DATA (SIXTH)
INITIAL STRATIFICATION
SYSTEM/ORGAN (FIRST)
SYSTEM/ORGAN (SECOND)
SYSTEM/ORGAN (THIRD)
SYSTEM/ORGAN (FOURTH)
SYSTEM/ORGAN (FIFTH)
SYSTEM/ORGAN (SIXTH)
TREATMENT - MORTALITY
TYPE CHILD RESTRAINT
VEHICLE NUMBER
VERSION NUMBER
WEIGHT OF PERSON
WORKING DAYS LOST

APPENDIX A
DATA COLLECTION FORMS



Accident Data

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

IDENTIFICATION

7 Type of Case	11
<input type="checkbox"/> (1) Full data collection <input type="checkbox"/> (2) Nontowaway (Stratum E) (Reduced data collection) <input type="checkbox"/> (3) Source document only	
8 Date (Month, Day Year)	12 13 14 15 16 17 8 7
9 Blank (This variable is left blank so that numbering consistency can be maintained with the 1986 CSS)	X 18
10 Number of Vehicle Forms Submitted	19 20
_____ Code the number of motor vehicles in transport for which a VEHICLE FORM was submitted	
11 Number of Pedestrian & Nonmotorist Forms Submitted	21 22
_____ Code the number of pedestrians and or non-motorists for which a PEDESTRIAN & NON-MOTORIST FORM was submitted	

12. First Harmful Event
Non-collision:
<input type="checkbox"/> (01) Fire or explosion <input type="checkbox"/> (02) Immersion <input type="checkbox"/> (03) Gas inhalation <input type="checkbox"/> (04) Fell from vehicle <input type="checkbox"/> (05) Injured in vehicle <input type="checkbox"/> (06) Other noncollision (specify). <hr/> <input type="checkbox"/> (07) Overturn <input type="checkbox"/> (08) Jackknife with intraunit damage
Collision With:
<input type="checkbox"/> (09) Pedestrian <input type="checkbox"/> (10) Pedalcyclist <input type="checkbox"/> (11) Railway train <input type="checkbox"/> (12) Animal <input type="checkbox"/> (13) Motor vehicle in transport (same roadway) <input type="checkbox"/> (14) Motor vehicle in transport (other roadway) <input type="checkbox"/> (15) Parked motor vehicle <input type="checkbox"/> (16) Other type nonmotorist (specify). <hr/> <input type="checkbox"/> (17) Thrown or falling object <input type="checkbox"/> (18) Boulder <input type="checkbox"/> (19) Other object (not fixed) (specify). <hr/> Collision with Fixed Object
<input type="checkbox"/> (20) Building <input type="checkbox"/> (21) Impact attenuator/crash cushion <input type="checkbox"/> (22) Bridge pier or abutment <input type="checkbox"/> (23) Bridge parapet end <input type="checkbox"/> (24) Bridge rail <input type="checkbox"/> (25) Guardrail <input type="checkbox"/> (26) Concrete traffic barrier <input type="checkbox"/> (27) Median barrier <input type="checkbox"/> (28) Other longitudinal barrier (specify). <hr/> <input type="checkbox"/> (29) Highway/Traffic sign post <input type="checkbox"/> (30) Overhead sign support <input type="checkbox"/> (31) Luminaire/Light support <input type="checkbox"/> (32) Utility pole <input type="checkbox"/> (33) Other post, pole, or support (specify). <hr/> <input type="checkbox"/> (34) Culvert <input type="checkbox"/> (35) Curb <input type="checkbox"/> (36) Ditch <input type="checkbox"/> (37) Embankment-earth <input type="checkbox"/> (38) Embankment-rock, stone or concrete <input type="checkbox"/> (39) Fence (wooden, wire, chain link, etc.) <input type="checkbox"/> (40) Wall (stone, rock, metal, etc.) <input type="checkbox"/> (41) Fire hydrant <input type="checkbox"/> (42) Shrubbery <input type="checkbox"/> (43) Tree <input type="checkbox"/> (44) Other fixed object (specify). <hr/> <input type="checkbox"/> (45) Pavement surface irregularity (pothole, grooved, grates) <input type="checkbox"/> (99) Unknown

13 Manner of Collision (Based on First Harmful Event)

- (0) Not collision with vehicle in transport
- (1) Rear-end
- (2) Head-on
- (3) Rear-to-rear
- (4) Angle
- (5) Sideswipe, same direction
- (6) Sideswipe, opposite direction
- (9) Unknown

25

14 Relation to Roadway (location of first harmful event)

- (1) On roadway
- (2) On shoulder
- (3) In median
- (4) On roadside
- (5) Outside right-of-way
- (6) Off roadway location unknown
- (7) In parking lane
- (8) Gore or channel island
- (9) Unknown

26

AMBIENT CONDITIONS

15. Time

- Code reported military time of accident (NOTE midnight = 2400)
- (9999) Unknown

27 28 29 30

16 Light Conditions

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

31

17 Atmospheric Conditions

- (1) No adverse atmosphere related driving conditions
- (2) Rain
- (3) Sleet
- (4) Snow
- (5) Fog
- (6) Rain and fog
- (7) Sleet and fog
- (8) Other (e.g., smog, smoke, blowing sand or dust, etc.) (specify) _____
- (9) Unknown

32

ADMINISTRATIVE ITEMS

18. Relation to Junction

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

33 34

19 Interchange Geometry

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

35

20 Accident Occurrence in School Zone

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

36

21 School Bus Related

- (0) No
- (1) Yes

37

22 Right or Left Turn on Red Related

- (0) No

Right turn related

- (1) Yes - turn permitted
- (2) Yes - turn prohibited

Left turn related

- (3) Yes - turn permitted
- (4) Yes - turn prohibited
- (9) Unknown

38

ENVIRONMENTAL DATA	SPECIAL STUDIES - INDICATORS
<p>23 Driver Level Environmental Data That Is Most Representative of this Accident Location</p> <p>_____ Code the driver level number (the vehicle number coded in variable D07) that best describes the accident's environmental conditions</p> <p style="text-align: right;"><u>39</u> <u>40</u></p>	<p>Information Collected From This Accident As A Part of the Special Studies Subsystem</p> <p><input type="radio"/> NO - Code 0 for each of questions 24 through 29</p> <p>If YES - Check (✓) each of the studies from the list below that were indicated. code 1 for the checked studies and 0 for the studies not checked</p> <p>24 <input type="checkbox"/> SS8-Longitudinal Barrier <u>41</u></p> <p>25 <input type="checkbox"/> SS9-Crash Cushion <u>42</u></p> <p>26 <input type="checkbox"/> SS12 <u>43</u></p> <p>27 <input type="checkbox"/> SS13 <u>44</u></p> <p>28 <input type="checkbox"/> SS14 <u>45</u></p> <p>29 <input type="checkbox"/> SS15 <u>46</u></p>



PEDESTRIAN AND NONMOTORIST

**NATIONAL ACCIDENT SAMPLING SYSTEM
CONTINUOUS SAMPLING SUBSYSTEM**

1. Primary Sampling Unit Number 1 2

2. Case Number - Stratification 3 4 5 6

3. Record Number 2
7

4. Transaction Code 8

5. Version Number 0
9

6. Investigator I.D. Number 10

IDENTIFICATION

7. Pedestrian or Nonmotorist's Number 11 12

8. Pedestrian or Nonmotorist's Type

(1) Pedestrian

(2) Bicyclist

(3) Other cyclist (*specify*) _____

(4) Occupant of vehicle not in transport

(8) Other nonmotorist (*specify*) _____

(9) Unknown 13

PEDESTRIAN OR NONMOTORIST INTERVIEW

9. Pedestrian or Nonmotorist's Age

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

(00) Less than one year old

(97) 97 years and older

(99) Unknown 14 15

10. Pedestrian or Nonmotorist's Sex

(1) Male

(2) Female

(9) Unknown 16

11. Pedestrian or Nonmotorist's Height

_____ inches - Code actual height to the nearest inch.

(99) Unknown 17 18

12. Pedestrian or Nonmotorist's Weight

_____ pounds - Code actual weight to the nearest pound.

(999) Unknown 19 20 21

13. Pedestrian or Nonmotorist's Location

(01) Intersection related - in crosswalk

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

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

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

(05) Intersection related - on sidewalk

(06) Intersection related - not on roadway or sidewalk

(09) Intersection related - unknown

(10) Nonintersection - in crosswalk

(11) Nonintersection - on roadway, not in crosswalk

(12) Nonintersection - on roadway, crosswalk not available

(13) Nonintersection - on roadway, crosswalk availability unknown

(14) Nonintersection - in parking lane

(15) Nonintersection - on road shoulder

(16) Nonintersection - on sidewalk

(17) Nonintersection - bike path

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

(19) Nonintersection - outside trafficway

(20) Nonintersection - unknown

(99) Unknown 22 23

14. Distance From Intersection

(0) Not on roadway

On roadway

(1) Impact within 50 feet of intersection

(2) Impact between 51 and 500 feet of intersection

(3) Impact more than 500 feet from intersection

(9) Unknown 24

15. Pedestrian Activity

- ___ (00) Not a pedestrian
- ___ (01) Near a motor vehicle (specify) _____
- ___ (02) Near a bus stop or mass transit entrance (specify) _____
- ___ (03) Near a mobile vendor (specify) _____
- ___ (04) Near an entrance (specify) _____
- ___ (05) Darting or running into roadway
- ___ (06) Crossing or attempting to cross roadway
- ___ (07) Walking in the same direction as traffic
- ___ (08) Walking in the opposite direction of traffic
- ___ (09) Walking, direction unknown
- ___ (10) Jogging or running in the same direction as traffic
- ___ (11) Jogging or running in the opposite direction of traffic
- ___ (12) Jogging or running, direction unknown
- ___ (13) Playing
- ___ (14) Working
- ___ (15) Stationary (specify) _____
- ___ (98) Other (specify) _____
- ___ (99) Unknown

25 26

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

INTERVIEW AND OFFICIAL SOURCES

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

27

<u>Inter-viewee</u>	<u>Official Sources</u>
21. Hospital Stay	
___ (00) Not hospitalized	___
___ day(s) - Code the number of days (up through 60) that the pedestrian nonmotorist stayed in hospital.	___
___ (61) 61 days or more	___
___ (99) Unknown	___
	28 29
22. Working Days Lost	
___ (00) No working days lost	
___ day(s) - Code the number of days (up through 60) that the pedestrian nonmotorist lost from work due to the accident	
___ (61) 61 days or more	
___ (62) Fatally injured	
___ (97) Not working prior to accident	
___ (99) Unknown	
	30 31
23. Vehicle Which Contacted Pedestrian or Nonmotorist	
___ (0) No injury	
___ (1) Vehicle number 01	
___ (2) Vehicle number 02	
___ (3) Vehicle number 03	
___ (4) Vehicle number 04	
___ (5) Vehicle number 05	
___ (6) Vehicle number 06	
___ (7) Multivehicle contact	
___ (8) Other vehicle number (specify) _____	
___ (9) Unknown	
	32

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

OCCUPANT INJURY CLASSIFICATION (FOR PEDESTRIAN AND NONMOTORIST)

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

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

1	2	3	4	5	6	7	8	9	10
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—

Source of Data

Official

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

Unofficial

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

Reduction Section

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
- (L) 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
- (U) Upper limb(s) (whole or unknown part)
- (O) Whole body
- (W) Wrist - hand
- (0) Not injured
- (9) Unknown if injured

Aspect of Injury

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

Lesion

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

System/Organ

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

Abbreviated Injury Scale

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

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

OCCUPANT INJURY CLASSIFICATION (FOR PEDESTRIAN AND NONMOTORIST)

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

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

Choose the injury or injuries that will enable the maximum number of different 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 33 to 42). In the additional row "No Injury" will be coded for all variables, including A I S severity.

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

I.S.S. Body Region	O I C. Body Region	Aspect	Lesion	System/ Organ	A.I.S. Severity	Injury Source	Update Candidate		Source of Data
							Direct/ Indirect Injury	Yes No	
1st	31, 33	32, 34	33, 35	34, 36	35, 37	36, 38, 39	37, 40	38, 41, 42	
2nd	39, 43	40, 44	41, 45	42, 46	43, 47	44, 48, 49	45, 50	46, 51, 52	
3rd	47, 53	48, 54	49, 55	50, 56	51, 57	52, 58, 59	53, 60	54, 61, 62	
4th	55, 63	56, 64	57, 65	58, 66	59, 67	60, 68, 69	61, 70	62, 71, 72	
5th	63, 73	64, 74	65, 75	66, 76	67, 77	68, 78, 79	69, 80	70, 81, 82	
6th	71, 83	72, 84	73, 85	74, 86	75, 87	76, 88, 89	77, 90	78, 81, 82	

OFFICIAL RECORDS	INVESTIGATOR DETERMINED
<p>79. Injury Severity (Police Rating) MAX AIE</p> <p><input type="checkbox"/> (0) No injury (O)</p> <p><input type="checkbox"/> (1) Possible injury (C)</p> <p><input type="checkbox"/> (2) Nonincapacitating injury (B)</p> <p><input type="checkbox"/> (3) Incapacitating injury (A)</p> <p><input type="checkbox"/> (4) Killed (K)</p> <p><input type="checkbox"/> (5) Injury, severity unknown</p> <p><input type="checkbox"/> (6) Died prior to accident</p> <p><input type="checkbox"/> (9) Unknown 93</p> <p>80. Time to Death</p> <p><input type="checkbox"/> (00) Not fatal</p> <p>Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note 1 day = 31, 2 days = 32, ... n days = 30 + n up through 30 days = 60)</p> <p><input type="checkbox"/> (96) Fatal - ruled disease</p> <p><input type="checkbox"/> (99) Unknown 94 95</p> <p>81. Traffic Violation Charged Against This Pedestrian or Nonmotorist</p> <p><input type="checkbox"/> (0) No</p> <p><input type="checkbox"/> (1) Yes (specify) _____</p> <p><input type="checkbox"/> (9) Unknown 96</p> <p>82. Police Reported Alcohol Presence</p> <p><input type="checkbox"/> (0) No (alcohol not present)</p> <p><input type="checkbox"/> (1) Yes (alcohol present)</p> <p><input type="checkbox"/> (8) Not reported</p> <p><input type="checkbox"/> (9) Unknown 97</p> <p>83. Alcohol Test Result</p> <p>Actual value (decimal implied before first digit) (0.xx)</p> <p><input type="checkbox"/> (95) Test refused</p> <p><input type="checkbox"/> (96) None given</p> <p><input type="checkbox"/> (97) AC test performed, results unknown</p> <p><input type="checkbox"/> (99) Unknown 98 99</p>	<p>84. Pedestrian/Nonmotorist Related Factors</p> <p><input type="checkbox"/> (00) No pedestrian/nonmotorist related factors</p> <p><input type="checkbox"/> (01) Non-physical (i.e., mental or emotional factor)</p> <p>Physical impairments</p> <p><input type="checkbox"/> (02) Blind</p> <p><input type="checkbox"/> (03) Restricted sight</p> <p><input type="checkbox"/> (04) Walking cane/crutches required</p> <p><input type="checkbox"/> (05) Deaf</p> <p><input type="checkbox"/> (06) Restricted to wheelchair</p> <p><input type="checkbox"/> (07) Paraplegic</p> <p><input type="checkbox"/> (08) Previous injury</p> <p><input type="checkbox"/> (09) Other physical impairments (specify): _____</p> <p>Drug Impairments</p> <p><input type="checkbox"/> (10) Drugs - medication (prescription, over-the-counter)</p> <p><input type="checkbox"/> (11) Other drugs (excludes alcohol, includes uncontrolled substances) (specify): _____</p> <p>Pedalcyclist Related (Includes Animal Related)</p> <p><input type="checkbox"/> (12) Inattention</p> <p><input type="checkbox"/> (13) Interference with operator by other passenger</p> <p><input type="checkbox"/> (14) Operator inexperience</p> <p><input type="checkbox"/> (15) Erratic lane changing - cutting in and out of traffic</p> <p><input type="checkbox"/> (16) Not yielding right-of-way</p> <p><input type="checkbox"/> (17) Failure to yield to an emergency vehicle</p> <p><input type="checkbox"/> (18) Disobeying stop sign</p> <p><input type="checkbox"/> (19) Disobeying traffic signal</p> <p><input type="checkbox"/> (20) Failure to obey other traffic sign or signal (specify): _____</p> <p><input type="checkbox"/> (21) Riding over or on the centerline</p> <p><input type="checkbox"/> (22) Riding over or on the median</p> <p><input type="checkbox"/> (23) Riding wrong way on 1-way street or entrance/exit ramp</p> <p><input type="checkbox"/> (24) Pulling in front of traffic from a roadway or driveway</p> <p><input type="checkbox"/> (25) Turning left or U-turning in front of oncoming traffic</p> <p><input type="checkbox"/> (26) Making right turn from left lane, or left turn from right lane</p> <p><input type="checkbox"/> (27) Making other improper turn (specify): _____</p> <p><input type="checkbox"/> (28) Proceeding despite view obstruction</p> <p><input type="checkbox"/> (29) Wrong signal given for maneuver executed</p> <p><input type="checkbox"/> (30) Turning without giving a turn signal</p> <p><input type="checkbox"/> (31) Hazard lights not used when appropriate or required</p> <p><input type="checkbox"/> (32) Operator unfamiliar with roadway</p> <p><input type="checkbox"/> (33) Overloading or improper loading of passengers and/or cargo</p> <p><input type="checkbox"/> (38) Other pedalcyclist related factors (specify): _____</p> <p><input type="checkbox"/> (99) Unknown 100 101</p>



Vehicle Data

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

Delete sequen' production number
portion of VII r case review

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

17 Body Type

Automobiles

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

Automobile Derivatives and Short Utility Vehicles

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

Motorcycles

- ___ (20) Motorcycle
- ___ (21) Mopeds (motorized bicycles)
- ___ (28) Other motorcycle (minibikes, motorscooters) (specify) _____
- ___ (29) Unknown motorcycle type

Bus (excludes van based)

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

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

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

Light Conventional Truck (Pickup style cab, $\leq 10,000$ lbs GVWR)

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

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

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

Other Vehicles

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

National Accident Sampling System – Continuous Sampling Subsystem: Vehicle Data

18 Towed Trailing Unit

___ (0) No towed unit

Yes.

towed trailing unit hitch type

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

44

19 Seating Capacity Truck Vocation

Passenger Vehicle by Designated Seating Capacity

Motorcycle Automobile Van Bus (exclude pickups)

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

Cargo Vehicle by Vocation (Cargo Configuration)

Platform

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

Open

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

Closed

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

Services Utility

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

- ___ (71) Truck-tractor - no trailer
- ___ (72) Chassis, incomplete vehicle
- ___ (88) Other cargo vehicle (specify) _____

- ___ (97) Other nontruck (e.g. construction paver, farm tractor) (specify) _____

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

National Accident Sampling System - Continuous Sampling Subsystem. Vehicle Data

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

AXLE

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

TIRE

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

CONDITION

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

	43	44	45
(20)	47	48	49
(21)	50	51	52
(22)	53	54	55
(23)	56	57	58

24 25 Type of Outside Mirror

- ___ ___ (0) Mirror not present
- ___ ___ (1) Plane mirror
- ___ ___ (2) Convex mirror
- ___ ___ (3) Plane plus stick-on convex mirror
- ___ ___ (4) Plane plus separate convex mirror
- ___ ___ (8) Other type mirror (specify) _____ 24 25
- ___ ___ (9) Unknown _____
59 60

26 Override/Underride (this vehicle)
___ (0) No override/underride or not applicable to CDC/TDC or a side impact.

Override (see specific CDC/TDC)
___ (1) 1st CDC
___ (2) 2nd CDC
___ (3) Other not automated CDC (specify) _____

Underride (see specific CDC/TDC)
___ (4) 1st CDC
___ (5) 2nd CDC
___ (6) Other not automated CDC (specify) _____

___ (7) Medium/heavy truck override/underride
___ (9) Unknown

61

27 Rear Turn Signal Color

- ___ (0) No turn signals
- ___ (1) Red
- ___ (2) Amber
- ___ (8) Other (specify) _____

___ (9) Unknown

62

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

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

Cab Over Engine (COE) [~]
 ___ (1) COE high entry
 ___ (2) COE low entry
 ___ (3) COE unknown entry

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

29 30 31 32 Number of Axes

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

33 34 35 Length of Trailing Units

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

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

71 72 73

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

74 75 76

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

77

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

78

Specify GVWR _____

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

NCI

OBJECT CONTACTED

- (00) Noncollision
- (01) through (30)
- If the object contacted by the vehicle under consideration was a motor vehicle in transport, code the Vehicle Number assigned to that vehicle
- Collision with Stationary Object**
- (31) Motor vehicle not in transport*
- (32) Tree (<6 inches in diameter)
- (33) Tree (>6 inches in diameter)
- Highway Traffic Supports**
- (34) Luminaire breakaway
- (35) Luminaire nonbreakaway
- (36) Large sign breakaway
- (37) Large sign nonbreakaway
- (38) Small sign breakaway
- (39) Small sign nonbreakaway
- (40) Utility pole
- (41) Traffic signal pole
- (42) Delineator
- (43) Other post, pole or support (specify) _____
- (44) Fence
- (45) Mail box
- (46) Other movable object (specify) _____
- (47) Culvert
- (48) Railroad tracks
- (49) Curb
- (50) Abutment
- (51) Wall (stone, rock, metal, etc.)
- (52) Embankment, earth
- (53) Embankment, rock, stone or concrete
- (54) Building, rigid
- (55) Building, nonrigid
- (56) Bridge pier or abutment

- (57) Bridge rail
- (58) Bridge parapet end
- (59) Guardrail - bridge rail transition
- (60) Guardrail end (non median)
- (61) Guardrail end (median)
- (62) Guardrail (non median)
- (63) Guardrail (median)
- (64) Concrete barrier (non median)
- (65) Concrete barrier (median)
- (66) Other median barrier (specify) _____
- (67) Other longitudinal barrier (non median) (specify) _____
- (68) Impact attenuator/Crash cushion
- (69) Ground
- (70) Train
- (71) Ditch
- (72) Other stationary fixed object (specify) _____
- Collision with Nonstationary Objects**
- (73) Animal
- (74) Trailer, disconnected in transport
- (75) Train
- (76) Other nonstationary objects (specify) _____
- (81) through (95)
- If the object contacted by the vehicle under consideration was pedestrian or nonmotorist, add eighty (80) to the assigned Pedestrian & Nonmotorist Number, and code the resultant sum
- (96) Vehicle occupant
- (97) Other object (specify) _____
- (99) Unknown

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

DEFORMATION CLASSIFICATION BY EVENT NUMBER

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

National Accident Sampling System — Continuous Sampling Subsystem: Vehicle Data

DEFORMATION CLASSIFICATION

HIGHEST DELTA Δ

Event Number (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	Event Number (in accident)
40 <u>74</u>	41 <u>80</u> <u>8</u>	42 <u>82</u> <u>83</u>	43 <u>84</u>	44 <u>85</u>	45 <u>86</u>	46 <u>87</u>	47 <u>88</u> <u>89</u>	48 <u>90</u>

Second Highest Delta Δ

49 <u>1</u>	50 <u>2</u> <u>5</u>	51 <u>92</u> <u>93</u>	52 <u>94</u>	53 <u>95</u>	54 <u>98</u>	55 <u>99</u>	56 <u>100</u> <u>101</u>	57 <u>102</u>
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CRUSH PROFILE

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

Highest

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

Second Highest

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

CODES FOR FRONT OCCUPANT AREA INTRUSION

Magnitude of Intrusion

- ___ (0) No passenger compartment or no intrusion
- ___ (1) Less than 2 inches
- ___ (2) ≥ 2 inches but < 6 inches
- ___ (3) ≥ 6 inches but < 12 inches
- ___ (4) ≥ 12 inches
- ___ (9) Unknown

Intruding Component

Primary

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

Other

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

National Accident Sampling System - Continuous Sampling Subsystem Vehicle Data

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

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

66 Odometer Reading
 ___ miles Code mileage to the nearest 1,000 miles
 ___ (000) No odometer
 ___ (001) Less than 1,500 miles
 ___ (007) 996-500 miles or more
 ___ (009) Unknown
 _____ 0 0 0
 _____ 157 158 159

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

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

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

	Intruding Component	Magnitude of Intrusion
Driver Area Primary	68 _____ 161 162	69 _____ 163
Driver Area Other	70 _____ 164 165	71 _____ 166
Passenger Area Primary	72 _____ 167 168	73 _____ 169
Passenger Area Other	74 _____ 170 171	75 _____ 172

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

77 Steering Rim Deformation
 ___ (0) No steering rim deformation
 ___ (1) Yes steering rim deformation
 ___ (9) Unknown
 _____ 174

78 Fire Occurrence
 ___ (0) No fire

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

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

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

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

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

___ (5) Rollover primarily about the lateral axis
 ___ (9) Rollover (Overturn), details unknown 178

82 Jackknife
 ___ (0) Not an articulated vehicle
 ___ (1) No jackknife
 ___ (2) Yes - prior to first impact for this vehicle
 ___ (3) Yes - after first impact but prior to last impact for this vehicle
 ___ (4) Yes - details unknown 179

83 Hazardous Cargo
 ___ (0) No hazardous cargo
 ___ (1) Load of hazardous materials only
 (specify) _____
 ___ (2) Load of hazardous and nonhazardous materials (specify) _____
 ___ (9) Unknown 180

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

VEHICLE WEIGHT ITEMS

84 Vehicle Curb Weight
 _____ pounds - Code weight to nearest 100 pounds
 ___ (001) Less than 150 pounds
 ___ (997) 99,650 lbs or more
 ___ (999) Unknown 181 182 183 0 0

Source _____

85 Vehicle Cargo Weight
 _____ pounds - Code weight to nearest 100 pounds
 ___ (000) Less than 50 pounds
 ___ (997) 99,650 lbs or more
 ___ (999) Unknown 184 185 186 0 0

86 Investigator Reported Source of Cargo Weight
 ___ (0) No cargo
 ___ (1) Measured
 ___ (2) Estimated
 ___ (3) Rated capacity
 ___ (9) Unknown source or weight 187

Source _____

RECONSTRUCTION RESULTS

87 Basis for Total Delta V (highest)

Delta V Calculated

- ____ (1) CRASH program - damage only routine
- ____ (2) CRASH program - damage and trajectory routine
- ____ (3) Missing vehicle algorithm
- ____ (4) Yielding object algorithm
- ____ (5) Other technique used (specify)

Delta V Not Calculated

- ____ (6) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program regardless of collision conditions
- ____ (7) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique regardless of adequacy of damage data
- ____ (8) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs but there is insufficient data available

188

HIGHEST Secondary HIGHEST

88 Total Delta V

- ____ nearest m p h
- (NOTE 00 means less than 0.5 m p h)
- ____ (97) 96.5 m p h and above
- ____ (99) Unknown

189 190

89. Longitudinal Component of Delta V

- ____ nearest m p h
- (NOTE 00 means greater than -0.5 and less than 0.5 m p h)
- ____ (97) 96.5 m p h and above
- ____ (99) Unknown

191
191 192 193

90 Lateral Component of Delta V

- ____ nearest m p h
- (NOTE 00 means greater than -0.5 and less than 0.5 m p h)
- ____ (97) 96.5 m p h and above
- ____ (99) Unknown

194 +
194 195 196

91 Energy Absorption

- ____ nearest 100 foot-lbs
- (NOTE 0000 means less than 50 foot-lbs)
- ____ (9997) 999.650 foot-lbs or more
- ____ (9999) Unknown

197 198 199 200 0 0

POLICE REPORT

92 Police Reported Travel Speed

- ____ nearest m p h
- (NOTE 00 means less than 0.5 m p h)
- ____ (97) 96.5 m p h and above
- ____ (99) Unknown

201 202



Driver Data

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

IDENTIFICATION

7. Vehicle Number	<u> </u> <u> </u>
8. Number of Occupants This Vehicle	<u> </u> <u> </u>
<p>_____ occupant(s) - Code the actual number of persons (including the driver if present) that were occupants of this vehicle. The number of OCCUPANT FORMS does not have to equal this value.</p> <p>_____ (97) 97 or more</p> <p>_____ (99) Unknown</p>	

<p>Driver Presence In Vehicle</p> <p>_____ (1) Driver present</p> <p>_____ (2) Driver not present</p>	<u> </u> <u> </u>
<p>(NOTE: If no driver was present in this vehicle, indicate and subsequently leave blank the remaining nonenvironmental questions (variables D10-D33) on this form. Do code the environmental elements. No OCCUPANT FORM for the driver is required. Remember, if the person who had been driving this motor vehicle prior to the accident was injured outside of this vehicle, that person is handled on the PEDESTRIAN & NON-MOTORIST FORM.)</p>	

DRIVER INTERVIEW

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

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

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

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

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

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

Category	Configuration	ACCIDENT TYPES (Includes Intent)				
I. Single Driver	A. Right Roadside Departure	01 DRIVE OFF ROAD	02 CONTROL/ TRACTION LOSS	03 AVOID COLLISION WITH VEH., PED., ANIM.	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN
	B. Left Roadside Departure	06 DRIVE OFF ROAD	07 CONTROL/ TRACTION LOSS	08 AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
	C. Forward Impact	11 PARKED VEH	12 STA OBJECT	13 PEDESTRIAN/ ANIMAL	14 END DEPARTURE	15 SPECIFICS OTHER
II. Same Trafficway Same Direction	D. Rear-End	20 STOPPED 21, 22, 23	24 SLOWER 25, 26, 27	28 DECEL. 29, 30, 31	30 SPECIFICS OTHER	(EACH • 32) (EACH • 33) SPECIFICS UNKNOWN
	E. Forward Impact	34 CONTROL/ TRACTION LOSS	36 CONTROL/ TRACTION LOSS	38 AVOID COLLISION WITH VEH.	40 AVOID COLLISION WITH OBJECT	(EACH • 42) (EACH • 43) SPECIFICS OTHER
III. Same Trafficway Opposite Direction	F. Sideswipe Angle	44 LATERAL MOVE	(EACH • 46) SPECIFICS OTHER	(EACH • 47) SPECIFICS UNKNOWN		
	G. Head-On	50 LATERAL MOVE	(EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN		
	H. Forward Impact	54 CONTROL/ TRACTION LOSS	56 CONTROL/ TRACTION LOSS	58 AVOID COLLISION WITH VEH.	60 AVOID COLLISION WITH OBJECT	(EACH • 62) (EACH • 63) SPECIFICS OTHER
IV. Change Trafficway Vehicle Turning	I. Sideswipe Angle	64 LATERAL MOVE	(EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOWN		
	J. Turn Across Path	68 INITIAL OPPOSITE DIRECTIONS	70 INITIAL SAME DIRECTIONS		(EACH • 74) (EACH • 75) SPECIFICS OTHER	SPECIFICS UNKNOWN
V. Intersecting Paths (Vehicle Damage)	K. Turn Into Path	76 TURN INTO SAME DIRECTION	78 TURN INTO OPPOSITE DIRECTIONS		(EACH • 84) (EACH • 85) SPECIFICS OTHER	SPECIFICS UNKNOWN
	L. Straight Paths	86 SPECIFICS OTHER	88 SPECIFICS UNKNOWN	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN	
I. Miscellaneous Etc	M. Backing	92 BACKING VEH	93 OTHER VEH OR OBJECT	98 Other Accident Type 99 Unknown Accident Type 00 No Impact		

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

15. Frequency Driving Road

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

TRUCK/BUS OPERATIONS

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

17. Federal Safety Regulated
 ___ (0) Noncommercial or automobile, motorcycle, or other vehicle (V17=01-29, 80-89)
 ___ (1) Motor carrier not subject to U.S. DOT (BMCS) regulations
 Motor Carrier Subject to U.S. DOT (BMCS) regulations
 ___ (2) Intercity operations
 ___ (3) Local pickup or delivery
 ___ (9) Unknown 28

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

ACCIDENT PRE-CRASH INFORMATION

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

INVESTIGATOR DETERMINED

OFFICIAL RECORDS

- 21 Driver Related Factors
- ___ (00) No impact
 - ___ (01) No driver related factors - inappropriate
 - ___ (02) Being pursued by police - police chase
 - ___ (03) Over speed limit
 - ___ (04) Too fast for conditions
 - ___ (05) Excessive or erratic acceleration
 - ___ (06) Erratic lane changing - cutting in and out of traffic
 - ___ (07) Following too closely (tailgating)
 - ___ (08) Passing in no-passing zone
 - ___ (09) Not yielding right-of-way
 - ___ (10) Failure to yield to an emergency vehicle
 - ___ (11) Disobeying stop sign
 - ___ (12) Disobeying traffic signal
 - ___ (13) Failure to obey other traffic sign or signal (specify)
-
- ___ (14) Driving over or on the centerline
 - ___ (15) Driving over or on the median
 - ___ (16) Driving on road shoulder
 - ___ (17) Driving wrong way on 1-way street or entrance exit ramp
 - ___ (18) Driving in parking lane
 - ___ (19) Pulling in front of traffic from a roadway or driveway
 - ___ (20) Turning left or U-turning in front of oncoming traffic
 - ___ (21) Improper lane change - cutting into another vehicle's path
 - ___ (22) Making right turn from left lane, or left turn from right lane
 - ___ (23) Making other improper turn (specify)
-
- ___ (24) Passing with close oncoming traffic
 - ___ (25) Proceeding despite view obstruction
 - ___ (26) Passing on blind curve or hill
 - ___ (27) Passing on wrong side of vehicle being overtaken
 - ___ (28) Illegally parked
 - ___ (29) Driving too slow or less than minimum speed
 - ___ (30) Braking rapidly and unnecessarily (slowing but not to stop)
 - ___ (31) An abrupt stop without warning
 - ___ (32) Wrong signal given for maneuver executed
 - ___ (33) Turning without giving a turn signal
 - ___ (34) Headlights not used when required
 - ___ (35) Hazard lights not used when appropriate or required
 - ___ (36) Failure to dim lights for oncoming traffic
 - ___ (37) Operator inexperience with vehicle
 - ___ (38) Operator unfamiliar with roadway
 - ___ (39) Overloading or improper loading of passengers and/or cargo
 - ___ (98) Other driver related factor (specify)
 - ___ (99) Unknown

34 35

22. 23. Traffic Violation Charged Against This Driver

- 1st 2nd
- ___ ___ (00) No violation charged
 - ___ ___ (01) Speeding
 - ___ ___ (02) Driving while intoxicated (or DUIL)
 - ___ ___ (03) Reckless driving
 - ___ ___ (04) Driving with suspended or revoked license
 - ___ ___ (05) Failure to yield right-of-way
 - ___ ___ (06) Following too closely
 - ___ ___ (07) Running a traffic signal or stop sign
 - ___ ___ (08) License restriction not complied with
 - ___ ___ (98) Other violation charged (specify): _____
 - ___ ___ (99) Unknown
- (1st) 36 37
- (2nd) 38 39

24 Police Reported Alcohol Presence

- ___ (0) No (alcohol not present)
 - ___ (1) Yes (alcohol present)
 - ___ (8) Not reported
 - ___ (9) Unknown
- 40

25 Alcohol Test Result

- ___ Actual value (decimal implied before first digital - 0 xx)
 - ___ (95) Test refused
 - ___ (96) None given
 - ___ (97) AC test performed, results unknown
 - ___ (99) Unknown
- 41 42

26 Driver License Status (Irrespective of Vehicle being Driven)

- No Valid License
- ___ (0) Not licensed
 - ___ (1) Suspended
 - ___ (2) Revoked
 - ___ (3) Expired
 - ___ (4) Canceled or denied
- Valid License
- ___ (5) Single class license (specify): _____
 - ___ (6) Multiple class license (specify): _____
 - ___ (7) Learner's permit
 - ___ (8) Temporary
 - ___ (9) Unknown
- 43

National Accident Sampling System—Continuous Sampling Subsystem: Driver Data

27. Driver License Type Compliance (For This Class Vehicle)

(0) Not licensed

(1) No license required for this class vehicle

(2) No valid license for this class vehicle

(3) Valid license for this class vehicle

(9) Unknown 44

28. Driver License Restriction

(0) No license restrictions

(1) Corrective (or contact) lenses only

(2) Corrective lenses and outside mirror

(3) Corrective lenses and limited to daylight

(4) Corrective lenses and other (specify): _____

(5) Outside mirror only

(6) Limited to daylight only

(7) Limited to employment only

(8) Other (specify) _____

(9) Unknown 45

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

29. Previous Speeding Convictions 46

30. Previous Other Harmful Moving Violations or Convictions (specify) _____ 47

31. Previous Driving While Intoxicated Convictions (or DUIL) 48

32. Previous Recorded Suspensions and Revocations 49

33. Previous Recorded Accidents 50

ADMINISTRATIVE ITEMS

34. Federal Aid System

(1) Interstate

(2) Federal-aid primary (other than interstate)

(3) Federal-aid urban

(4) Federal-aid secondary (rural only)

(5) Nonfederal-aid

(9) Unknown 51

35. Class Trafficway

(1) Interstate

(2) U.S. Highway

(3) State Highway

(4) County road

Local Street

(5) Township

(6) Municipality

(8) Other (specify): _____

(9) Unknown 52

36. Roadway Function Class

Rural

(01) Principal arterial-interstate

(02) Principal arterial-other

(03) Minor arterial

(04) Major collector

(05) Minor collector

(06) Local road or street

(09) Unknown rural

Urban

(11) Principal arterial-interstate

(12) Principal arterial-other freeways or expressways

(13) Other principal arterial

(14) Minor arterial

(15) Collector

(16) Local road or street

(19) Unknown urban

(99) Unknown 53 54

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

Yes _____
No _____

National Accident Sampling System - Continuous Sampling Subsystem: Driver Data

ENVIRONMENTAL DATA

37. Number of Travel Lanes

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

55

38. Lane Width

- ___ Code actual measured value to nearest tenth of a foot
- ___ (999) Unknown

56 57 58

39. Median Type

- ___ (0) No median
- ___ (1) Curbed with positive barrier
- ___ (2) Positive barrier
- ___ (3) Curbed
- ___ (4) Unprotected
- ___ (9) Unknown

59

40. Median Width

- ___ (00) No median
- ___ Code actual measured value up to 96 feet
- ___ (97) 96.5 feet or above
- ___ (99) Unknown

60 61

41. Access Control

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

62

42. Trafficway Flow

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

63

43. 44. Shoulder Type

L R

- ___ ___ (0) No shoulder
- ___ ___ (1) Surfaced 2-6 feet
- ___ ___ (2) Surfaced > 6 feet
- ___ ___ (3) Gravel or other granular material 2-6 feet
- ___ ___ (4) Gravel or other granular material > 6 feet
- ___ ___ (5) Natural earth, with or without turf 2-6 feet
- ___ ___ (6) Natural earth, with or without turf > 6 feet
- ___ ___ (9) Unknown

L R

64 65

45. Roadway Alignment

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

66

46. Cross Slope

- ___ (1) Flat
- ___ (2) Normal crown
- ___ (3) Superelevation
- ___ (4) Negative superelevation
- ___ (8) Other (specify). _____
- ___ (9) Unknown

67

47. Superelevation

- ___ (+00) Normal crown/flat
- ___ Code actual value to the nearest hundredth
- ___ (_ 98) Not a curve
- ___ (_ 99) Unknown

+
68 69 70

48. Degree of Curvature

- ___ (000) Not curved - straight
- ___ Code calculated value to nearest tenth of a degree (See coding manual for formula)
- ___ (997) 99.65 degrees or more
- ___ (999) Unknown

0

71 72 73

Length of chord: _____ ft

Middle ordinate: _____ inches

National Accident Sampling System—Continuous Sampling Subsystem: Driver Data

49. Grade Measurement

- ___ (+00) No grade - level
- ___ Code actual value to the nearest hundredth +
- ___ (_99) Unknown

74 75 76

slope
measurement: (v = ___)/(h = ___)

50. Roadway Profile

- ___ (1) Level
- ___ (2) Grade ($\geq 2\%$)
- ___ (3) Hillcrest
- ___ (4) Sag
- ___ (9) Unknown

77

51. Roadway Surface Type

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

78

52. Roadway Surface Condition

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

79

53. Speed Limit

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

80 81

54. 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)
- ___ (5) Vehicle stopped on roadway
- ___ (6) Snow
- ___ (8) Other roadway obstruction (specify): _____
- ___ (9) Unknown

82

(NOTE. If more than one restriction exists, choose the restriction in the order in which they are numbered)

55 Traffic Control Device

___ (00) No controls

Not at railroad grade crossing

Highway traffic signals (Active)

- ___ (01) Traffic control signal (on colors) without pedestrian signal
- ___ (02) Traffic control signal (on colors) with pedestrian signal
- ___ (03) Traffic control signal (on colors) not known whether or not pedestrian signal
- ___ (04) Flashing traffic control signal
- ___ (05) Flashing beacon
- ___ (06) Flashing highway traffic signal, type unknown or other than traffic control or beacon
- ___ (07) Lane use control signal
- ___ (08) Other highway traffic signal (specify) _____

Regulatory signs (Passive)

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

School zone signs (Passive)

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

Warning signs (Passive)

- ___ (40) Construction warning sign
- ___ (41) Other warning sign (specify) _____

Miscellaneous (Active)

- ___ (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
- ___ (65) Special warning device - watchman, flagged by crew
- ___ (68) Other active device (specify) _____
- ___ (69) Active device, type unknown

Passive Devices

- ___ (70) Crossbucks
- ___ (71) Stop sign
- ___ (72) Other railroad crossing sign (specify) _____
- ___ (78) Other passive device (specify) _____
- ___ (79) Passive device, type unknown

Miscellaneous controls

- ___ (80) Grade crossing control type unknown

Whether or Not at Railroad Grade Crossing

Pavement marking (Passive)

- ___ (90) Lane line
- ___ (91) Center line
- ___ (92) No passing line
- ___ (93) Edge line
- ___ (94) Other pavement marking (specify) _____
- ___ (95) Unknown pavement marking type
- ___ (98) Other
- ___ (99) Unknown

83 84

56 Traffic Control Device Functioning
Active Device (D55 = 01-08, 50-69)

- ___ (0) No traffic control
- ___ (1) Traffic control not functioning
- ___ (2) Traffic control functioning - functioning improperly
- ___ (3) Traffic control functioning properly

Passive Device (D55 = 20-41, 70-95)

- ___ (4) Traffic control device defaced, badly worn, etc.
- ___ (5) Traffic control device obscured (e.g., covered with snow)
- ___ (6) No abnormal condition of traffic control device
- ___ (9) Unknown

85

57. Designated Truck System

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

86

INVESTIGATOR DETERMINED

8. Environmental Related Factors

___ (00) No environmental related factors

Vision Obscured By

___ (01) Rain, snow, fog, smoke, sand, dust

___ (02) Reflected glare, bright sunlight,
headlights

___ (03) Curve, hill or other design features (in-
cluding traffic signs, embankment)

___ (04) Building, billboard, etc.

___ (05) Trees, crops, vegetation

___ (06) Moving vehicle (including load)

___ (07) Splash or spray of passing vehicle

___ (08) Parked vehicle

___ (09) Other object not classifiable above
(specify) _____

Swerving or Loss of Control Due to

___ (20) Severe crosswind

___ (21) Wind from passing truck

___ (22) Slippery surface

___ (23) Avoiding debris or objects in roadway

___ (24) Ruts, holes, bumps in roadway

___ (25) Avoiding animal(s) in roadway

___ (26) Avoiding vehicle in roadway

___ (27) Avoiding pedestrian, pedalcyclist, or
other nonmotorist in roadway

___ (28) Avoiding standing water, snow, oilslick
or ice patch on roadway

Roadway Features

___ (30) Inadequate warning of exits, lanes nar-
rowing, traffic controls, etc

___ (31) Pavement marking obscured or absent

___ (32) Surface washed out (caved in, road
slippage)

___ (33) Shoulder too low or high

___ (34) Inadequate construction or poor design
of roadway, bridge, etc

___ (35) Vehicle unattended in roadway

___ (98) Other (specify) _____

___ (99) Unknown

87 88



Occupant Data

1 Primary Sampling Unit Number	1 2	14 Occupant's Seat Position	
2 Case Number-Stratification	3 4 5 6	___ (01) Front seat - left side	
3 Record Number	5 7	___ (02) Front seat - middle	
4 Transaction Code	8	___ (03) Front seat - right side	
5 Version Number	0 9	___ (04) Second seat - left side	
6 Investigator I D Number	10	___ (05) Second seat - middle	
IDENTIFICATION		___ (06) Second seat - right side	
7 Vehicle Number	11 12	___ (07) Third seat - left side	
8 Occupant Number	13 14	___ (08) Third seat - middle	
OCCUPANT INTERVIEW		___ (09) Third seat - right side	
9 Occupant's Age		___ (10) Front seat - additional passenger	
___ years) - Code actual age at time of accident		___ (11) Second seat or beyond - additional passenger	
___ (00) Less than one year old		___ (12) Truck-tractor sleeping section	
___ (97) 97 years and older		___ (13) Other enclosed area (specify)	
___ (99) Unknown	15 16	___ (14) In or on unenclosed area (specify area type)	
10 Occupant's Sex		___ (15) In or on trailing unit (specify unit type)	
___ (1) Male		___ (99) Unknown	24 25
___ (2) Female		INVESTIGATOR DETERMINED	
___ (9) Unknown	17	(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.)	
11 Occupant's Height		Inter	Investigator
___ inches - Code actual height to the nearest inch		viewee	gator
___ (99) Unknown	18 19	15 Entrapment	
12 Occupant's Weight		(NOTE Entrapped means that part of the occupant was in the vehicle and mechanically restrained jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)	
___ pounds - Code actual weight to the nearest pound		___ (0) Not entrapped	
___ (999) Unknown	20 21 22	___ (1) Entrapped	
13 Occupant's Role		___ (9) Unknown	26
___ (1) Driver			
___ (2) Passenger			
___ (9) Unknown	23		

National Accident Sampling System - Continuous Sampling Subsystem: Occupant Data

	<u>Inter- viewee</u>	<u>Inves- tigator</u>	INTERVIEW AND OFFICIAL SOURCES	
			<u>Inter- viewee</u>	<u>Official Sources</u>
	16. Ejection		20 Treatment - Mortality	
$\sqrt{9}$	___ (0) None	___	___ (0) No treatment	___
(67)	___ (1) Complete ejection	___	___ (1) Fatal	___
	___ (2) Partial ejection	___	___ (2) Fatal - ruled disease	___
$\sqrt{10}$	___ (3) Ejection, unknown degree	___	Nonfatal	
	___ (9) Unknown	___	___ (3) Hospitalization	___
		<u>27</u>	___ (4) Transported and released	___
	17. Ejection Area		___ (5) Treatment at scene - non- transported	___
	___ (0) No ejection	___	___ (6) Treatment later	___
	___ (1) Windshield	___	___ (8) Treatment - other (specify)	___
	___ (2) Left front	___	___ (9) Unknown	<u>31</u>
	___ (3) Right front	___	21 Hospital Stay	
	___ (4) Left rear	___	___ (00) Not hospitalized	___
	___ (5) Right rear	___	___ day(s) - Code the number of days (up through 60) that the occupant stayed in hospital	___
	___ (6) Rear	___	___ (61) 61 days or more	___
	___ (7) Roof	___	___ (99) Unknown	<u>32</u> <u>33</u>
	___ (8) Other area (e.g. sidecar, back pickup, etc.) (specify)	___	22 Working Days Lost	
	___ (9) Unknown	<u>28</u>	___ (00) No working days lost	
	18. Ejection Medium		___ day(s) - Code the number of days (up through 60) that the occupant lost from work due to the accident	
	___ (0) No ejection	___	___ (61) 61 days or more	
	___ (1) Door	___	___ (62) Fatally injured	
	___ (2) Open roof structure	___	___ (97) Not working prior to accident	
	___ (3) Fixed windows	___	___ (99) Unknown	<u>34</u> <u>35</u>
$\sqrt{10}$	Operable windows		INVESTIGATOR DETERMINED	
	___ (4) Roll down type	___	<u>Inter- viewee</u>	<u>Inves- tigator</u>
	___ (5) Hinged type	___	23 Infant or Child Restraint Make/Model	
	___ (6) Sliding type	___	___ (00) No infant or child restraint	___
	___ (7) Other type (specify)	___		
	___ (8) Other medium (specify)	___	Applicable codes are found in your NASS Data Collection, Coding and Editing Manual	
	___ (9) Unknown	<u>29</u>	___ (97) Other make/model (specify)	___
	19 Medium Status		___ (98) Unknown make/model	___
	___ (0) No ejection	___	___ (99) Unknown if restraint available	<u>36</u> <u>37</u>
	___ (1) Open	___		
	___ (2) Separation	___		
	___ (3) Closed, closed when damaged	___		
	___ (4) Integral structure ripped open	___		
$\sqrt{10}$	___ (9) Unknown	<u>30</u>		

National Accident Sampling System — Continuous Sampling Subsystem: Occupant Data

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

National Accident Sampling System—Continuous Sampling Subsystem: Occupant Data

OCCUPANT INJURY CLASSIFICATION

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

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

	ISS Body Region	OIC Body Region	Aspect	Lesion	System Organ	A I S Severity	Injury Source	Direct Indirect Injury	Source of Data
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	—	—

Source of Data

Official

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

Unofficial

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

(09) Police

- (99) Unknown if injured
- (00) Not injured

ISS Body Region

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

OIC Body Region

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

Aspect of Injury

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

Lesion

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

System Organ

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

Abbreviated Injury Scale

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

National Accident Sampling System—Continuous Sampling Subsystem: Occupant Data

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

If there are six or less injuries, code in the OIC code column the code of the injuries ordered by Source of Data: 1st hospital, 2nd hospital/medical, 3rd emergency room, 4th private physician, or 5th non-medical sources; and in A I S severity within source.

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

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

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

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

Update Candidate Yes No

I S S Body Region	O I C Body Region	Aspect	Lesion	System Organ	A I S Severity	Injury Source	Direct Indirect Injury	Source of Data
1st	31 45	32 46	33 47	34 48	35 49	36 50 51	37 52	38 53 54
2nd	39 55	40 56	41 57	42 58	43 59	44 60 61	45 62	46 63 64
3rd	47 65	48 66	49 67	50 68	51 69	52 70 71	53 72	54 73 74
4th	55 75	56 76	57 77	58 78	59 79	60 80 81	61 82	62 83 84
5th	63 85	64 86	65 87	66 88	67 89	68 90 91	69 92	70 93 94
6th	71 95	72 96	73 97	74 98	75 99	76 100	77 101	78 103 104

CODING S

OFFICIAL RECORDS

79. Injury Severity (Police Rating)

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

105

80 Time to Death

- ___ (00) Not fatal

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

- ___ (96) Fatal - ruled disease
- ___ (99) Unknown

106 107

Delete Comments After Case Review

APPENDIX B

CODING INFORMATION FOR VEHICLE MAKE/MODEL

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

If the make of the vehicle is known, but if the model is not known, then Vehicle Model is coded as "99" (Unknown).

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

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

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

- 01-28, 99 - domestic passenger car (automobile)
- 21-58, 99 - foreign passenger car (automobile)
- 60-68, 99 - motored cycles (including motorcycles, mini-bikes, motor scooters, dirt bikes, and mopeds)
- 70-73, 99 - light trucks (including truck based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, van based station wagons, van based buses, van derivatives, and truck based station wagons)
- 80-90, 99 - trucks and buses [includes all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under Body Type code "50" (Pickup), and all buses except those that are van based]

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

Motored Cycles

```

-----
81  0-50cc
82  51-124cc
83  125-349cc
84  350-449cc
85  450-749cc
86  750cc or over
99  Unknown
  
```

Trucks/Buses

```

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

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

Other make (99)

```

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

Other make (99)

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-----
99  Unknown*
  
```

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

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

VEHICLE FORM

Variable Name: Vehicle Model

Format: 2 columns - numeric

Beginning column 22

Element Values:

Model Code	Vehicle Line	Includes	Model Years
American Motors (01)			
01	Rambler/American	Roque, 220, 440, Scrambler	
02	Rebel/Matador	550, 770, 660, Classic, Brougham, Barcelona X, Marlin	
03	Ambassador	880, 990, SST, DPL, Brougham	
04	Facer	DL, Limited	
05	AMX	DL, Limited	68-70
06	Javelin	SST, AMX (1971-1974)	
07	Hornet/Concord	SST, Sportabout, AMX (1975-1978), Limited DL, SC 360	
08	Spirit/Grenlin	Limited, DL, Custom, AMX (1979 On), GT (1983 on)	
09	Eagle	DL, Limited	80 on
10	Sx4/Hammack	DL, Limited	81 on
*	Alliance/Encore		
28	Other (domestic automobile)		
72	Espace (Mini-Van)		
99	Unknown		

Jeep (02)

01	CJ-2/CJ-3/CJ-4	Military	
02	CJ-5/CJ-6/CJ-7/ CJ-8	Scrambler, Golden Eagle, Renegade, Laredo	thru 86
03	Wrangler (YJ)		87 on
71	Cherokee	Wide Track Chief, Commando, Jeepster	
73	Pick-up	J-10, J-20, Honcho	
76	Wagoneer	Custom, Brougham Limited	
77	Comanche		86 on
78	Other (light truck)		
28	Other (domestic automobile)		
99	Unknown		

*See Renault

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
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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	
28	Other (domestic automobile)		
99	Unknown		

Chrysler (06)

07	LeBaron	S, Medallion, Salon,	77 on
09	Cordoba	Crown, 300, LS	
10	Newport	Custom	thru 81
		Royal, 300	thru 71
	New Yorker,		thru 82
		Imperial	81-83
	Fifth Avenue		83 on
		Town and Country, Brougham	
14	E-Class	New Yorker, Grand Lebaron, GTS	83 on
15	Laser	Turbo, XE, XT	84-86
16	Lebaron		85 on
28	Other (domestic automobile)		
31	Maserati Sport		87 on
99	Unknown		

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, XE, R/T, 440,500	
03	Polara/Monaco	Custom, Special, Police, Taxi, Crestwood, Brougham	
04	Royal Monaco		
05	Challenger	R/T, T/A, Rallye	70-74
06	Aspen	Custom, Special Edition, Police	
07	Diplomat	Medallion, "S", Salon	
08	Omni	024, De Tomaso, Miser, Charger 2.2, Custom, Shelby, GLH, America, Expo	

VEHICLE FORM

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Dodge (07) (cont'd.)</u>			
09	Mirada		
10	St. Regis		
11	Aries (K)	Custom, SE	
12	400	LS	
13	Rampage (car based pick-up)	2.2	
14	600	ES	83 on
15	Daytona	Turbo, Z, Shelby, Pacifica	84 on
16	Lancer	Pacifica	
17	Shadow	ES	86 on
33	Challenger-foreign		78 on
34	Colt	GT, Custom, Carousel, RS	
35	Conquest		86 on
43	Colt Pickup, Vista Van	Power Ram, Ram 50, D50, W50	
70	Raider		87 on
71	Ramcharger	Ram	
72	Caravan	S-Van,	84 on
73	D, W-Series Pickup	Ram, Custom, Royal, Miser	
74	Van (B Series)	Sportsman Van, Royal, Maxiwagon, Ram Mini Ram Van	
75	Van Derivative	Karivan	
77	Dakota	4 x 4	
81	Medium/Heavy: CBE		
82	Medium/Heavy: COE, low entry		
83	Medium/Heavy: COE, high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus (not van based)		
88	Other (truck)		
28	Other (domestic automobile)		
90	Medium/Heavy: COE, unk. entry position		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Imperial (08)</u>			
10	Imperial	Imperial LeBaron, Crown	thru 75
28	Other (domestic automobile)		
99	Unknown		
<u>Plymouth (09)</u>			
01	Valiant/Duster/ Scamp	100,200, Taxi, Brougham, Signet, Custom, Special 340, Special 360 340, 360	thru 76
02	Satellite/ Belvedere	Belvedere I, II, GTX, Road Runner (thru 1974), Brougham, Sebring, Sebring Plus, Superbird	
03	Fury	I, II, III, Road Runner (1975), Suburban, Salon, VIP, Sport	
04	Gran Fury	Sedan, Brougham, Custom, Sport, Suburban	
05	Barracuda	Formula "S", 340, Gran Coupe, AAR Cuda	
06	Volare	Custom, Premier, Road Runner (1976 on), Police	
07	Caravelle		
08	Horizon	TC-3, Turismo, Miser, Turismo 2.2, Custom, SE, Duster, America, Expo	
11	Reliant (K)	Custom, SE	
13	Scamp (car based pick-up)	GT	82 on
17	Sundance		86 on
31	Cricket		
32	Arrow	GS, GT, Fire Arrow	
33	Sapporo		
34	Champ/Colt	Custom	
35	Conquest	TSI	
71	Trailduster		
72	Voyager	S-Van	84 on
74	Van (Voyager)	Sport, Premier	
77	Arrow pickup (foreign)		
78	Other (light truck)		
28	Other (domestic automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Ford</u> (12)			
01	Falcon	Falcon-Futura (through 1969)	thru 70
02	Fairlane	500, 500 XL, Fairlane-Torino (1968-70)	thru 70
03	Mustang/Mustang II	Mach I, Boss, Grande, Cobra, Cobra II, Ghia, SVO, GT	
04	Thunderbird	All sizes, Town Landau, Heritage, Elan, Fila, Turbo Coupe Sport, LX	
05	LTD II	Squire, Brougham	77-79
06	LTD/Galaxy/ Custom	XL, Landau, Ranch Wagon, County Squire, S, 500, 500 XL, Brougham, Crown Victoria (81 and 82)	
07	Ranchero (car based pick-up)	500, GT, Squire, Custom	
08	Maverick	Grabber	70-77
09	Pinto	MPG, Pony, ESS	71-80
10	Torino/Gran Torino	Elite, GT, Cobra, Sport, Squire, Brougham	71-76
11	Granada	Ghia, L, GL, GLX	75 on
12	Fairmont	Fairmont-Futura (1978-1981)	78 on
13	Escort	L, GL, GLX, SS, GT	81 on
14	EXP	Turbo	82 on
15	Tempo	L, GL, GLX, Sport, 4x4	83 on
16	Crown Victoria		83 on
17	Taurus	LX, MT5	86 on
31	English Ford	(e.g., Cortina)	
32	Fiesta		78-80
33	Laser	GL Ghia, GL Sport	83 on
34	Festivia	KIA/Mazda	87 on
70	Bronco II	Ranger based	83 on
71	Bronco	Full size truck based	
72	Aerostar		
73	F-Series Pickup	F-100 to F-350	
74	Van	E-Series, Econoline, Club Wagon, Chateau, Cutaway based (e.g., box van, van bus/RV)	
75	Van derivative	Parcel	
77	Ranger	Super Cab, Courier (Import), STX	82 on
78	Other (light truck)		
81	Medium/Heavy: CBE	F-500 through F-800, L/LN/LNT/LT/LS/LTS-series, FT8000, FT800D, FT800	
82	Medium/Heavy: COE low entry	C/CT-series	
83	Medium/Heavy: COE, high entry	C/CLT-series	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Ford</u> (12) (cont'd.)			
84	Medium/Heavy: unk. engine location		
85	Medium Bus	B-series (not van based)	
88	Other (truck)		
90	Medium/Heavy: COE, unk. entry position		
28	Other (domestic automobile)		
99	Unknown		
<u>Lincoln</u> (13)			
01	Lincoln	Lincoln Continental (thru 81), Town Car (82 on)	
02	Mark	I, II, III, IV, V, VI, VII, LSC	
05	Continental		82 on
11	Versailles		77-80
28	Other (domestic automobile)		
99	Unknown		
<u>Mercury</u> (14)			
02	Cyclone	GT, CJ, Spoiler	thru 71
03	Capri-Domestic		79-86
04	Cougar	Villager, Brougham, XR7 (thru 80)	67 on
05	Cougar XR7		81 on
06	Marquis/Monterey	Marauder, X-100, Parklane, Colony Park, S-55, Custom, Brougham, Grand (thru 82), Montclair	67 on
08	Comet	Caliente, Capri (1966-1967), GT, Voyager, 202	
09	Bobcat		75-80
10	Montego	GT, MX, Villager, Brougham	67-76
11	Monarch	Ghia	75-81
12	Zephyr	Z7, GS	78 on
13	Lynx	L, LS, GS, RS, XR3	81 on
14	LN7		82-83
15	Topaz	L, LS, GS, 4 x 4	83 on
16	Grand Marquis		83 on
17	Sable		86 on

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Mercury</u> (14) (cont'd.)			
31	Capri-foreign	Capri (1970-1978), Capri II	70-78
33	Pantera		
34	Merkur	XR4Ti	
35	Scorpio		87 on
36	Tracer	Mazda	
28	Other (domestic automobile)		
99	Unknown		
<u>Buick</u> (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, T-Type	
03	Electra/Electra 225	Custom, Limited, Park Avenue, Wagon	
05	Riviera	"S" Type, "T" Type	
08	Apollo	S/R, Skylark (1975)	73-75
10	Regal	G-car, "T" Type, Grand National	82 on
12	Skyhawk	"S" Type, Road Hawk	75-81
15	Skylark	Limited, Sport, S/R, "S", Custom (see code 01), "T" Type, "T" Type Custom	76 on
16	Skyhawk	J-car, "T" Type	82 on
17	Century	A-car, "T" Type	82 on
18	Somerset	N-car, Regal	85 on
31	Opel Kadett		thru 75
32	Opel Manta/1900	Luxus, Rallye, Sports Coupe	thru 75
33	Opel GT		thru 75
34	Opel Isuzu	Deluxe, Sport	76-79
28	Other (domestic automobile)		
99	Unknown		
<u>Cadillac</u> (19)			
03	DeVille/Brougham	Calais, Fleetwood 60-Special, Coupe, Sedan	
04	Limousine	Fleetwood 75, Formal	
05	Eldorado	Touring Coupe, Biarritz	
09	Allante		87 on

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Cadillac</u> (19) (cont'd.)			
06	Commercial Series	(e.g., ambulance, hearse)	thru 81
14	Seville	Elegante	76 on
16	Cimarron	J-car, D'oro	82 on
28	Other (domestic automobile)		
99	Unknown		
<u>Chevrolet</u> (20)			
01	Malibu/Chevelle	Classic, Councours, Laguna, S-3, Nomad Greenbriar, Estate, 300, SS-396/454, Deluxe	64 on
02	Caprice/Impala	Classic, Classic Brougham, Kingswood, Townsmen, 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, LE, Concours	thru 79
09	Camaro	SS, LT, Z-28, Berlinetta, Iroc-Z	67 on
10	Monte Carlo	G-car, SS, LS, Aerocoupe	70 on
11	Vega	GT, Cosworth, Kammback	71-77
12	Monza	2 + 2, Spyder, Sport, Towne Coupe	75-80
13	Chevette	Scooter	76 on
15	Citation	X-car, X-11	80 on
16	Cavalier	J-car, CS, RS, Z24	82 on
17	Celebrity	A-car, Wagon, Eurosport	82 on
19	Baretta/Corsica		87 on
31	Spectrum (Isuzu made)		
32	Nova (Toyota)		85 on
33	Sprint		
70	Blazer	S-10 based	83 on
71	Blazer	Full size truck based	
72	Astro Van		
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	Luv Pickup	82 on
78	Other (light truck)		
81	Medium/Heavy: CBE	C50, C60 and C65 series, M60 and M65 series, H70, H80 and H90 series, J70, J80 and J90 series, Bison 90	

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Chevrolet</u> (20) (cont'd.)			
82	Medium/Heavy: COE low entry	T60 and T65 series	
83	Medium/Heavy: COE high entry	Titan 90	
84	Medium/Heavy: unk engine location	PS6500, P6T042	
85	Bus	S60 series	
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		
28	Other (domestic automobile)		
99	Unknown		
<u>Oldsmobile</u> (21)			
01	Cutlass	Supreme, Calais, Cruiser, "S", "LS", Salon, Brougham, Vista Cruiser, 442, F-85 (thru 1972), Rallye 350, Hurst Olds	
02	Delta 88	Royale, Custom, Custom Cruiser, Jetstar 88, Delmont 88, Delta, Starfire (thru 1966)	
03	Ninety-Eight	Regency, Luxury	
05	Toronado	Brougham, XSR, Custom, Trofed	
06	Commercial Series	Chassis Cowl, CKD Chassis	
12	Starfire	"SX"	75-80
15	Omega	Brougham, Salon, F-87, F-85 (1975 on), X-car (1980 on)	73 on
16	Firenza	J-car	82 on
17	Ciera	A-car, Cutlass Ciera, ES, Brougham	82 on
18	Calais	N-car, GT	85 on
28	Other (domestic automobile)		
99	Unknown		
<u>Pontiac</u> (22)			
01	LeMans/Tempest	Grand Am, Safari, T-37, Grand Sport, Luxury, Custom, GTO (thru 1973), Judge, GT-37, Sprint, Daewoo (1987 on)	
02	Bonneville/ Catalina/Parisienne	Brougham, Grand Safari, Safari, GrandVille, Executive, 2 + 2, Starchief	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Pontiac (22) (cont'd.)</u>			
05	Fiero	P-car, 2M4	84 on
08	Ventura	SJ, Custom, II, Sprint, GTO (1974 on)	71-77
09	Firebird/Trans Am	Esprit, Formula, Skybird, Redbird, Yellowbird, Spring, GTA	68 on
10	Grand Prix	LJ, SJ, Brougham, G-car	
11	Astre	Safari, Wagon, SJ, Custom	75-77
12	Sunbird	Sport, Safari, Wagon	76-80
13	T-1000/1000		81 on
15	Phoenix	LJ, SJ, X-car, (1980 on)	78 on
16	J-2000/2000	J-car, Sunbird, Convertible, LE, SE, GT	82 on
17	6000	A-car, STE	82 on
18	Grand Am	N-car, SE	85 on
28	Other (domestic automobile)		
99	Unknown		

GMC (23)

07	Caballero/Sprint		
70	Jimmy	S-15 based	83 on
71	Jimmy	Full sized truck based	
72	Safari (Mini-Van)		
73	C, K-Series Pickup		
74	G Van/Vandura, Rally Van		
75	Van Derivatives	P-series, Value Van, Magnavan	
76	Suburban		
77	S-15		82 on
78	Other (light truck)		
81	Medium/Heavy: CBE	C-5000, C-6000, C-7000 series, Brigadier 8000, Brigadier 9500, General 9500	
82	Medium/Heavy: COE low entry	W-6000, W-7000	
83	Medium/Heavy: COE high entry	Astro 95	
84	Medium/Heavy: unk. engine location	P5G500, P68042	
85	Bus	B-6000	
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>GMC</u> (23) (cont'd.)			
28	Other (domestic automobile)		
99	Unknown		
<u>Other domestic</u> (29)			
01	Studebaker/Avanti		
02	Checker		
28	Other (domestic automobile (e.g., Desoto)		
<u>Volkswagen</u> (30)			
31	Karmann Ghia		
32	Beetle		
33	Super Beetle		
34	411/412	Squareback, Fastback	
35	Squareback/ Fastback	Type 3, 1600	
36	Rabbit	L, GTI Sport, LS Custom, GL Deluxe	thru 84
37	Dasher		
38	Scirocco		
39	The Thing		
40	Jetta		
41	Quantum		
42	Golf	Syncro, GTI, Cabriolet	85 on
43	Rabbit Pickup		
44	Fox		87 on
74	Van/Vanagon/Camper		
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Alfa Romero</u> (31)			
31	Spider	Veloce, 2000/1750, all roadsters	
32	Sports Sedan	Alfetta, Berlina, 2000/1750, Giulia Super, 4 door sedans, Milano (86 on)	
33	Sprint Veloce	Alfetta GT 2000 GTV, 1750 GTV, Giulia Sprint GT, all 2 door coupes	
34	GTV-6		
58	Other (foreign automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Audi</u> (32)			
31	Super 90		
32	100	LS, GL	
33	Fox		
34	4000	Coupe GT	
35	5000	Coupe	
36	Quattro		82 on
58	Other (foreign automobile)		
99	Unknown		
<u>Austin/Austin Healey</u> (33)			
31	Marina	GT	
32	America		
33	Healey Sprite		
34	Healey 3000	Healey 100	
35	Mini		
58	Other (foreign automobile)		
99	Unknown		
<u>BMW</u> (34)			
31	1600, 2002	Tii	
32	Coupe	3.OCS, 2800 CS	
33	Bavaria Sedan	2500, 2800	
34	630, 633, 635	CSI	
35	320i, 318i, 325E		
36	524i, 528i, 530i	TD, Automatic	83 on
	533i, 535i		
37	733i, 735i		
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
58	Other (foreign automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Datsun/Nissan (35)</u>			
31	F-10		
32	200 SX		
33	B210/210/1200	Honeybee	
34	240/260/280/300	Z, ZX, 2 + 2	
35	310		
36	510	PL	
37	610	PL	
38	710	PL	
39	810/Maxima	Maxima	
40	Roadster (SPL 311/ SRL 311)	1600/2000 Convertible	thru 70
41	PL 411/RL 411		
42	Stanza	XE	82 on
43	Sentra		83 on
44	Pulsar	NX, EXA (86 on)	83 on
70	MPV		86 on
77	Pickup		
78	Other (light truck)		
58	Other (foreign automobile)		
83	Medium/Heavy COE high entry		86 on
99	Unknown		
<u>Fiat (36)</u>			
31	124 (Coupe/Sedan)	Sport	
32	124 (Spider)	Spider 2000	
33	Brava/131		
34	850 (Coupe & Spyder)		
35	128		
36	X-1/9		
37	Strada		
58	Other (foreign automobile)		
99	Unknown		
<u>Honda (37)</u>			
31	Civic	1300, 1500, CVCC	
32	Accord	LX, CVCC	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Honda</u> (37) (cont'd.)			
33	Prelude		
34	600	Coupe, Sedan	
35	Civic-CRX	2 seater	
36	Acura	HX, Integra, Climax, Legend	86 on
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
58	Other (foreign automobile)		
99	Unknown		
<u>Isuzu</u> (38)			
31	I Mark	Gemini	83 on
32	Impulse		87 on
33	Aska		84 on
70	Trooper II		
77	P'up (Pick-up)	Rodeo, Space Cab	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Jaguar</u> (39)			
31	XJ-S Coupe		
32	XJ6/XJ12 Sedan/Coupe L, XJ, C, 420/340 Sedans		
33	XK-E	2 + 2, V-12 Roadster, 120	
58	Other (foreign automobile)		
99	Unknown		
<u>Lancia</u> (40)			
31	Beta Sedan /HPE		
32	Beta Coupe/Zagato		
33	Scorpion		
58	Other (foreign automobile)		
99	Unknown		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
<u>Mazda</u> (41)			
31	RX2		
32	RX3		
33	RX4		
34	RX7	GLE, SE	
35	GLC/323		
36	Cosmo		
37	626		
38	808		thru 76
39	Mizer		thru 72
40	R-100		
41	618/616		
42	1800		86 on
43	929		
77	Pick-up	B-2200, B-2000, SE5, Cab Plus, LX	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Mercedes-Benz</u> (42)			
31	200/220/230/240/ 250/280/300/260 (Sedan and 5 passenger "C" only)	SE, CD, D, SD, TD, CE, E [excludes 280 S, 280 SE (1975 on), 300 SD Sedan (see Code 37)]	
32	230 SL/280 SL (2 passenger)		
33	350 SL/450 SL/ 380 SL/560 SL		
34	350 SLC/450 SLC/ 380 SLC/420 SLC/ 560 SLC		
35	300 SEL/280 SEL	TD-T, TD, CDT	
36	450 SEL/380 SEL/ 500 SEL/500 SEC/ 420 SEL/560 SEL/ 560 SEC		
37	450 SE/380 SE/ 280S/280 SE (1975 on)/300 SD		
38	600/6.9 Sedan	Pullman	
39	190		82 on
75	Van Derivative	Kurbstar	

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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Mercedes-Benz (42) (cont'd.)

81	Medium/Heavy: CBE		
82	Medium/Heavy: COE low entry		
83	Medium/Heavy: COE high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus		
88	Other (truck)		
90	Medium/Heavy: COE unk. entry position		
58	Other (foreign automobile)		
99	Unknown		

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		

Mitsubishi See V14 Code (52) listed after Volvo

Opel See Buick--(18)

Peugeot (44)

31	304		
32	403		
33	404		
34	505/504	STI	
35	604	SL, D	
58	Other (foreign automobile)		
61	0-50 cc		
62	51-124 cc		
99	Unknown		

VEHICLE FORM

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
------------	--------------	----------	-------------

Porsche (45)

31	911	S, E, T, SC, Carrera	
32	912/912E		
33	914	914/S	
34	924	Turbo, S	
35	928	S	
36	930/Turbo		82 on
37	944	Turbo, S	
38	959		86 on
58	Other (foreign automobile)		
99	Unknown		

Renault (46)

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

Saab (47)

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

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
<u>Subaru (48)</u>			
31	FE/GF/DL/STD/GL/G/ GLF	4 wheel drive, Turbo 4x4	
32	Star		
33	360		
43	Brat	DL, GL	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Toyota (49)</u>			
31	Corona	Custom, Deluxe, Mark II, 1900, 2000	
32	Corolla	1100,1200,1600, Deluxe, Custom, SR 5, LE	
33	Celica	1900, 2000, GTS	
34	Celica Supra	Soarer	
35	Cressida		
36	Crown	2300, 2600	
37	Carina	2000	
38	Tercel	4WD Wagon, Corolla-Tercel	
39	Starlet		
40	Camry		
41	MR2	(2-seater)	85 on
*	Nova	See Chevrolet	
70	4-Runner		
71	Landcruiser		
72	Mini-Van		
77	Pickup	Chinook, LN44, Wonder Wagon, SR5, Extra Cab Sport	
78	Other (light truck)		
58	Other (foreign automobile)		
99	Unknown		
<u>Triumph (50)</u>			
31	Spitfire	I, II, III, IV, 1500	
32	GT6		
33	TR4	TR3, TR2, TR4A	
34	TR6		
35	TR7/TR8		
36	Herald	Vitesse	

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
------------	--------------	----------	-------------

Triumph (50) (cont'd.)

37	Stag		
61	0- 50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or more		
58	Other (foreign automobile)		
99	Unknown		

Volvo (51)

31	122	S	
32	142/144/145	S, Deluxe, GL, GLS, E	
33	164	S, E	
34	242/244/245	Deluxe, DL, GLE, GLT, GL	
35	262/264/265	GL	
36	1800	E, S, ES	
37	P-544		83 on
38	760/780		
39	740	GLE	
81	Medium/Heavy: CBE		
82	Medium/Heavy: COE, low entry		
83	Medium/Heavy: COE, high entry		
84	Medium/Heavy: unk. engine location		
85	Medium: Bus		
88	Other (truck)		
90	Medium/Heavy: COE, unk. entry position		
58	Other (foreign automobile)		
99	Unknown		

Mitsubishi (52)

31	Starion	2 + 2	83 on
32	Tredia		83 on
33	Cordia		83 on

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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Mitsubishi (52) (cont'd.)

34	Galant		
35	Mirage		
70	Montero		
72	Mini-Van		83 on
77	Pickup	Mighty, Max, SPX	
58	Other (foreign automobile)		
99	Unknown		

Suzuki (53)

31	SA310	GLX	
61	0-50 cc		
62	51-124 cc		
63	125-349 cc		
64	350-449 cc		
65	450-749 cc		
66	750 cc or over		
70	SJ - 410	Samurai SJ-413	
99	Unknown		

Other Import (59)

31	Aston Martin		
32	Bricklin		
33	Citroen		
34	Delorean		
35	Ferrari		
36	Hillman		
37	Jensen		
38	Lamborghini		
39	Lotus		
40	Maserati		
41	Morris		
42	Rolls Royce/Bentley		
43	Rover		
44	Simca		
45	Sunbeam		
46	TVR		
47	Daihatsu		
48	Desto (APV-utility)		

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
------------	--------------	----------	-------------

Other Import (59) (cont'd.)

49	Reliant (British)		
50	Yugo		
51	Hyundai		
58	Other (foreign automobile) [e.g., Morgan, Singer]		

MOTORED CYCLE (60-69)

V13

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

V14

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
99	Unknown

V13

Mo-ped (70)

V14

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

Variable Name: Vehicle Model (cont'd.)

<u>Model Code</u>	<u>Vehicle Line</u>	<u>Includes</u>	<u>Model Years</u>
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TRUCKS AND BUSES (80-83, 85-88)

V13

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

V14

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

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

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) | |
| 80 | Motor Home | 1310 MHC, 1500 MHC |
| 81 | Medium/Heavy: CBE | Loadstar/Fleetstar, Paystar, CBE Transstar (4200), S-Series, Mixer |
| 82 | Medium/Heavy: COE, low entry | CO, VCO, DCO (190-1950), Cargostar, LFM 5370 (Garbage) |
| 83 | Medium/Heavy: COE, high entry | DCO, DCOT, UCO, VCOT, (405 Series), COE Transstar, Unistar, Conco 707B, 9600 Series |
| 84 | Medium/Heavy: unk. engine location | |

Variable Name: Vehicle Model (cont'd.)

Model Code	Vehicle Line	Includes	Model Years
------------	--------------	----------	-------------

International Harvester (84) (cont'd.)

85	Bus: Conventional	R153-1853, Loadstar 1603-1853	
86	Bus: flat front, front engine	173 FC, 183 FC	
87	Bus: flat front, rear engine	183RE, 193RE, (transit)	
88	Other (truck)	Fire Truck - R140-R306, CO 8190	
90	Medium/Heavy: COE, unk. entry position		
99	Unknown		

Other (Truck or Bus) (95)

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

Other make (98)

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

- * Use code "88" (other (truck)) if the vehicle's GVWR is unknown.
- ** Occurs when make is not explicitly listed and it is unknown whether make is domestic or import.
- + Truck as used here includes (1) any truck of unknown GVWR, (2) medium or heavy trucks, and (3) buses.
- ++ Farm tractors must be coded as make "98" and model "97" regardless of whether the model is known

ACCIDENT FORM

Variable	Flat File	SAS File
A16 - A17	"9"	".N"
A18	"99"	".N"
A19 - A20	"9"	".N"
A22	"9"	".N"
A23	"01"	".N"

PEDESTRIAN AND NONMOTORIST FORM

Variable	Flat File	SAS File
P09	"99"	".N"
P10	"9"	".N"
P11	"99"	".N"
P12	"999"	".N"
P13	"99"	".N"
P14	"9"	".N"
P15	"00"	"00"
	"99"	".N"
P20	"9"	".N"
P21 - P22	"99"	".N"
P23	"9"	".N"
P31 - P35	"0"	"0"
P36	"00"	"00"
P37	"0"	"0"
P38	"00"	"00"
P39 - P78	"Blank"	". " or "Blank"
P79	"9"	".N"
P80	"00"	"00"
P81 - P82	"5"	".N"
P83 - P84	"99"	".N"
MAIS. ISS	"0"	"0"

APPENDIX C

FILE ADJUSTMENTS

Number of Teams and Data Collection Period:

A total of 31 PSU's investigated cases and collected data during 1987. Six of them collected 1987 data for nine months, eight collected data for eight months, eight collected for seven months and nine for three months. The remainder of the time was spent in training for the 1988 system, testing forms and procedures and investigating cases according to the 1988 protocol.

Data Elements not Encoded in 1987:

The 1987 Crashworthiness Data Subsystem used forms from the 1986 Continuous Sampling Subsystem on which only the date had been changed. However, due to the change in focus under the new system, many existing variables were no longer collected. These included environmental variables on the accident form, almost all variables on the pedestrian-nonmotorist form, all variables on the vehicle form dealing with vehicle types other than passenger cars, light trucks or vans and almost all variables on the driver form. In most cases the investigators were instructed to code a "9" in these variables and a "0" in the pedestrian injury (OIC) variables. The numeric variables which were coded "9" were recoded as ".N" (Not Collected) on the SAS file. Coding conventions for all "Not Collected" or partially collected variables are included on the following pages:

VEHICLE FORM

Variable	Flat File	SAS File
V15	"9"	".N"
V19	"71"	"71"
	"99"	".N"
V20 - V23	"0"	".N"
	"9"	".N"
V24, V25, V27	"9"	".N"
V28	"0"	"0"
	"8"	"8"
	"9"	".N"
V29 - V35	"C"	"0"
	"9"	".N"
V36, V37	"000"	"000"
	"999"	".N"
V38, V39	"0"	"0"
	"9"	".N"
V65, V83	"9"	".N"

DRIVER FORM

Variable	Flat File	SAS File
D10	"Blank"	."
	"99"	".N"
D11, D12	"Blank"	."
	"990"	".N"
D13 - D18	"Blank"	."
	"9"	".N"
D21 - D23	"Blank"	."
	"99"	".N"
D26 - D33	"Blank"	."
	"9"	".N"
D34, D35	"0"	".N"
D36	"99"	".N"
D37	"9"	".N"
D38	"999"	".N"
D39	"9"	".N"
D40	"09"	".N"
D41 - D46	"9"	".N"
D47	"_99"	".N"
D48	"_999"	".N"
D49	"_99"	".N"
D50 - D52	"9"	".N"
D54	"9"	".N"
D55	"99"	".N"
D56, D57	"9"	".N"
D58	"99"	".N"

APPENDIX D

CDC/TDC AND DELTA-V

This section gives an overview of the Collision Deformation Classification (C.D.C.) for cars, vans, and light trucks, per SAE J224 MAR 84 in the 1987 NASS. The C.D.C. codes contain eight characters. If there is no C.D.C., these codes are left blank. If there is a C.D.C., these codes are as follows:

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

Clock Direction is coded as follows:

00	Non-horizontal force	07	7 o'clock
01	1 o'clock	08	8 o'clock
02	2 o'clock	09	9 o'clock
03	3 o'clock	10	10 o'clock
04	4 o'clock	11	11 o'clock
05	5 o'clock	12	12 o'clock
06	6 o'clock	99	Unknown

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

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

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

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

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

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

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

Vertical - Front, Rear, or Side Impacts
=====

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

Lateral - top and Undercarriage Impacts
=====

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

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

W	Wide impact area	E	Corner
N	Narrow impact area	k	Conversion in impact type-
S	Sideswipe	U	No residual deformation
O	Rollover (including side	R	Override
A	Overhanging structure	9	Unknown

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

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

Delta V.

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

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

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

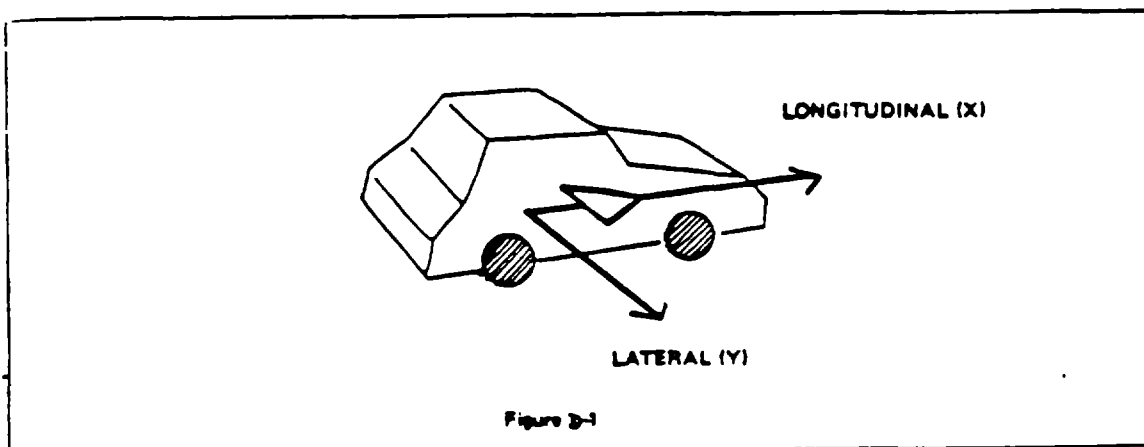


Figure D-1

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

APPENDIX E
SELECTED COUNTS

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

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

- . Total Number of Accident Records - 2,706
- . Total Number of Pedestrian Records - 26
- . Total Number of Vehicle Records - 4,633
- . Total Number of Driver Records - 4,633
- . Total Number of Occupant Records - 7,430
- . Total Number of Accident Records with neither Occupants nor Pedestrians -
- . Total Number of Accident Records with at least One Pedestrian but no Occupants -
- . Total Number of Vehicle Records with at least One Occupant but no Driver - 12
- . Total Number of Vehicle records with no Occupant Record -

APPENDIX F - PSU DEMOGRAPHIC DATA

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

Demographics data on the 31 PSU's are included to give researchers supplementary information on the nature of the PSU's when analyzing NASS data. The 1980 and 1970 population figures are from the decennial censuses. The land area figures are from the County and City Data Book - 1977. The figures on age distribution of the population in 1980 are from Tables 115 and 171, entitled "General Social and Economic Characteristics". The figures pertaining to means of transportation and travel time to work are from Tables 119 and 174 of the same report.

PRIMARY SAMPLING UNIT (FSU) CODES AND DESCRIPTION

VALUES =====	STRATA =====	DESCRIPTION =====
01, 31, 34	1	Central City, one of the 10 largest 1970 SMSA's
51, 63, 78, 85	2	Central city, one of the 11th - 60th largest 1970 SMSA's
09, 28, 32, 79	3	Suburban, one of the 17 largest 1970 SMSA's: low gas sales
06, 37, 33, 61	4	Suburban, one of the 17 largest 1970 SMSA's: high gas sales
10, 33, 52, 56, 80	5	Suburban, one of the 18th - 60th largest 1970 SMSA's, or FSU within 61st - 119th largest SMSA's not containing a central city
04, 57, 87	6	FSU within 61st - 119th largest SMSA's containing a central city
02, 30, 55, 58	7	FSU containing towns with 1977 population over 19,718: low gas sales
11, 26, 81	8	FSU containing towns with 1977 population over 19,718: high gas sales
54	9	FSU with no town with 1977 population over 19,718: low gas sales

POPULATION

FSU	1980	1970	LAND AREA
F01	3005078	3369357	223
F02	157589	157426	501
F04	450449	445589	642
F06	522965	546253	513
F09	1134552	1156305	467
F10	280326	231335	554
F11	264748	234103	771
F25	158158	141241	1141
F28	555007	603456	184
F30	227908	243131	454
F31	1688210	1949996	129
F32	1026147	1085044	673
F33	81974	83120	197
F34	2230936	2602012	70
F37	643621	624080	496
F38	737822	708760	944
F51	274602	246463	56
F52	107503	65993	1438
F54	137222	119893	1031
F55	137541	116029	1333
F56	1278916	932933	2008
F57	319694	276293	508
F58	301327	229006	858
F61	652316	483294	589
F63	904074	844401	270
F78	397038	389455	335
F79	656380	555805	735
F80	374194	236572	931
F81	90554	60827	9983
F85	493846	530831	84
F87	531443	351667	9240

POPULATION BY AGE GROUP (1980)

FSU	UNDER 5	5 TO 9	10 TO 14	15 TO 19	20 TO 24
P01	231181	224889	237173	268201	294060
P02	12460	12664	13504	15949	13839
P04	35990	37931	41977	45907	43818
P06	44372	43382	45081	51082	48654
P09	76380	83347	94403	107570	105764
P10	20048	22879	27981	29561	20640
P11	17143	17053	18338	27587	43336
P26	9584	10276	13384	14979	13805
P28	32902	33554	42946	53879	51317
P30	13169	14188	16910	19730	18592
P31	107673	109479	131006	151503	162120
P32	56862	62913	78991	88524	84170
P33	4550	5638	7153	7232	4974
P34	174080	161804	175955	192855	192876
P37	36137	40527	50219	58755	54051
P38	52204	55492	67716	76732	79478
P51	12615	17539	16056	19154	22455
P52	8981	9298	9332	9976	9298
P54	9484	10719	12117	12653	10672
P55	9729	10599	10137	15116	18277
P56	74216	81200	91897	109826	104576
P57	19651	21140	23551	30217	35757
P58	18599	20931	23829	30119	35003
P61	52279	56302	59510	61574	59057
P63	66645	64556	67227	77012	102616
P78	30863	30083	32184	37568	39195
P79	44078	45079	54279	60086	52500
P80	26465	29978	33718	35310	30815
P81	8158	7779	7980	8235	9023
P85	24139	21106	24208	35215	59233
P87	37779	37586	39853	48720	56920

POPULATION BY AGE GROUP (1980) CONT.

PSU	25 TO 29	30 TO 44	45 TO 64	65 & OVER
P01	276035	542471	589789	341279
P02	12982	27824	31523	16844
P04	37978	86480	84554	35814
P06	43884	93060	107884	45556
P09	98794	213262	250933	104099
P10	20151	63151	55008	20907
P11	32757	53693	38149	16692
P26	12569	31325	31739	20497
P28	44024	94170	130934	71231
P30	16138	37177	54780	37224
P31	141378	284943	363157	236951
P32	82228	187039	253672	131748
P33	5372	16325	20461	10269
P34	186722	415705	452338	278601
P37	50129	122915	149962	80926
P38	72495	169743	123628	40334
P51	21679	47637	61779	59638
P52	9210	23139	18801	9468
P54	10705	26654	28330	16288
P55	12174	23615	24540	13354
P56	99885	246046	273887	195383
P57	28818	62342	62441	35777
P58	30744	67390	52626	22086
P61	57128	157083	108001	35382
P63	99279	175177	166351	85211
P78	37978	74655	73099	41408
P79	53584	148568	137244	60562
P80	36126	93142	66394	22246
P81	7332	15451	16772	9824
P85	59383	96696	97826	76040
P87	49294	97917	100880	61894

MEANS OF TRANSPORTATION TO WORK

PSU	PRIVATE CAR	TRUCK OR VAN	MOTOR-CYCLE	PUBLIC TRANSIT	BI-CYCLE	WALKING	OTHER	WORK AT HOME
F01	661571	30691	492	385792	2114	93590	6067	11037
F02	45826	9209	176	542	158	2013	295	908
F04	131665	24404	202	1781	137	4258	610	1502
F06	163295	21959	205	6506	261	8499	731	1709
F09	394306	46325	228	9937	993	11630	1661	3443
F10	110643	12811	330	1246	428	4732	544	2737
F11	89936	11546	195	4848	1127	13732	673	2890
F26	48344	7289	218	1305	236	5090	669	2007
F28	176075	14386	320	31823	662	13537	1153	3358
F30	69585	6576	46	3375	43	7909	398	1384
F31	327866	19725	698	183432	2531	64005	2840	7294
F32	317743	37129	360	51635	237	21941	1791	4730
F33	29419	3385	107	9188	139	1051	84	499
F34	212075	10761	440	483236	1894	72149	3702	7997
F37	240110	20784	545	19097	1080	15560	1191	5959
F38	281626	31894	1263	36697	1035	12007	1726	4286
F51	93207	12015	920	3782	1420	4853	1184	1950
F52	31266	9469	149	147	21	1129	250	453
F54	45568	11119	100	278	18	1845	430	820
F55	39462	9820	160	423	183	1892	284	444
F56	463193	47749	3108	27127	4236	17699	3195	6916
F57	107340	18351	405	4742	167	5045	538	1745
F58	122422	15836	587	4044	582	5330	984	2409
F61	261114	55952	2304	3870	507	5390	1730	4186
F67	349802	46521	1468	37771	688	10846	2232	5739
F78	141623	19250	520	11255	268	8050	660	3137
F79	217141	35731	2294	25794	1625	6851	3684	5634
F80	141541	27475	723	7909	537	4380	1025	3738
F81	19860	8098	851	583	554	2893	582	547
F85	149979	17874	1595	47695	3120	19562	1742	5142
F87	151229	40899	3107	6691	3928	8733	1773	4549

TRAVEL TIME TO WORK (IN MINUTES)

PSU	LESS THAN 10	10 TO 19	20 TO 29	30 TO 44	45 AND OVER
F01	82020	227900	215965	329788	323755
F02	10908	26382	12891	5823	2453
F04	22460	62152	46992	25037	6884
F06	27311	62180	48837	41782	21004
F09	62112	145299	114940	103940	38361
F10	24013	41526	32681	24727	9022
F11	23121	49791	25439	15066	9382
F26	17550	21932	12080	9153	6450
F28	29314	66496	47815	53325	42254
F30	17218	38529	17233	9595	5216
F31	48031	129282	116974	159984	145474
F32	54103	126140	92373	96893	60846
F33	5267	13576	7901	6022	2020
F34	40190	101641	78442	180685	384253
F37	51374	102725	58015	50663	36077
F38	31050	76667	76133	98693	85650
F51	13128	43635	24463	21497	9960
F52	6793	9502	6685	10812	9155
F54	11308	24295	12363	7593	4137
F55	8726	23546	9690	5378	4041
F56	60751	166707	135519	140383	64132
F57	15980	48441	33451	28795	10971
F58	21024	56965	39393	24927	7966
F61	43847	100570	78269	76310	32532
F63	42477	122579	116744	111585	47360
F78	30774	74814	47999	21901	6911
F79	36139	87471	53667	57732	62725
F80	20725	49990	46967	45334	20639
F81	10777	17735	3851	3281	1482
F85	29350	82550	61333	46972	21055
F87	31065	75085	52118	40649	17205