U. S. Department of Transportation

1988 - 1996 NASS CDS
Variable-Attribute Structure Manual

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Natonal Highway Traffic Safety Administration
National Center for Statistics and Analysis
Crash Investigation Division

30 YEARS

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INTRODUCTION

The purpose of this manual is to identify all the NASS data collection variables along with their attributes that have been used in the Crashworthiness Data System (CDS) during 1988-1996. The appropriate SAS name also accompanies each CDS variable name. This manual can be used as a reference tool to identify variables that have had attribute changes over the years. However, it is the appropriate NASS CDS Coding and Editing Manual for each year that should be used to define the meanings for those attributes in relation to the data collection variable. This manual serves as a preliminary reference tool to identify attribute changes to data collection variables over the nine year period.

In addition to the CDS Coding and Editing Manuals, the NASS Analytical User's Manuals should also serve as a major reference tool in supporting the automated file. These manuals provides information about the automated files that is not available from the other manuals. These manuals review the sampling system and design used, outline the derived variables and provides other useful information about the SAS data base contents including instructions as to when " .U" and " .N " is coded, how missing data for numeric values are recorded, etc.. Please note that beginning in 1995, a formerly coded non-automated data collection record, the Case Summary, began to be automated, from which four new records were created, the Type Accident, Accident Description, Vehicle Profile and Person Profile.

The manual is divided into sections based on the data collection forms used in the NASS CDS from 1988-1996. These forms are the Accident, Event, General Vehicle, Exterior Vehicle, Interior Vehicle, Occupant Assessment and Occupant Injury Form. Within each section the data collection variables have been identified and listed as they have evolved over the years on their respective forms. Hence, the later year NASS CDS data collection forms follow the variable order more closely.

Since it is intended for this manual to be helpful to the analytical user, the SAS name for each data collection variable has also been provided. There are instances, where one or more data collection variable has had one or more SAS name attached to it. This is most evident when examining the automatic (passive) restraint variables.

Variables that have been identified as being common to each data collection form or are commonly used for merging data sets have been placed in the front of this manual and labeled Administrative Variables. These include such variables as PSU number, the case number, the case stratification, vehicle number, the occupant number, etc. These are the variables that the analytic user generally uses to match different data sets within a calendar year.

The derived variables with their listed attributes are at the conclusion of each data collection form section. The derived variables are those that are not on any data collection form but are constructed from other information and/or data sources and are placed on the analytic file. Like the CDS Coding and Editing Manuals, the source documents, if appropriate, should be used to decipher attribute definitions in relation to the variable.

ADMINISTRATIVE VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS PSU Number SAS PSU									
01	x	x	x	-	-	-	-	-	-
02	x	x	x	x	x	x	x	x	x
03	x	x	x	x	x	x	x	x	x
04	x	x	x	x	x	x	x	x	x
05	x	x	x	x	x	x	x	x	x
06	x	x	x	x	x	x	x	x	x
07	x	x	x	-	-	-	-	-	-
08	x	x	x	x	x	x	x	x	x
09	x	x	x	x	x	x	x	x	x
10	x	x	x	-	-	-	-	-	-
11	x	x	x	x	x	x	x	x	x
12	x	x	x	x	x	x	x	x	x
13	x	x	x	x	x	x	x	x	x
41	x	x	x	x	x	x	x	x	x
42	x	x	x	-	-	-	-	-	-
43	x	x	x	x	x	x	x	x	x
45	x	x	x	x	x	x	x	x	x
46	x	x	x	-	-	-	-	-	-
47	x	x	x	-	-	-	-	-	-
48	x	x	x	x	x	x	x	x	x
49	x	x	x	x	x	x	x	x	x
50	x	x	x	-	-	-	-	-	-
51	x	x	x	-	-	-	-	-	-
71	x	x	x	-	-	-	-	-	-
72	x	x	x	x	x	x	x	x	x
73	x	x	x	x	x	x	x	x	x
74	x	x	x	x	x	x	x	x	x
75	x	x	x	x	x	x	x	x	x
76	x	x	x	x	x	x	x	x	x
77	x	x	x	-	-	-	-	-	-
78	x	x	x	x	x	x	x	x	x
79	x	x	x	x	x	x	x	x	x
80	x	x	x	-	-	-	-	-	-
81	x	x	x	x	x	x	x	x	x
82	x	x	x	x	x	x	x	x	x
NASS Case Number - Stratification SAS CASEID									
Case number - stratification	x	x	x	x	x	x	x	x	x
NASS Vehicle Number SAS VEHNO									
Vehicle number	x	x	x	x	x	x	x	x	x
NASS Occupant Number SAS OCCNO									
Occupant number	x	x	x	x	x	x	x	x	x

ACCIDENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Number of General Vehicle Forms Submitted SAS VEHFORMS									
Code number of vehicle forms submitted (AN = actual number of forms)	AN	AN	AN	AN	AN	AN	AN	AN	AN
NASS Year of Accident SAS YEAR									
Code the year of the accident	88	89	90	91	92	93	94	95	96
NASS Month of Accident SAS MONTH									
January	01	01	01	01	01	01	01	01	01
February	02	02	02	02	02	02	02	02	02
March	03	03	03	03	03	03	03	03	03
April	04	04	04	04	04	04	04	04	04
May	05	05	05	05	05	05	05	05	50
June	06	06	06	06	06	06	06	06	06
July	07	07	07	07	07	07	07	07	07
August	08	08	08	08	08	08	08	08	08
September	09	09	09	09	09	09	09	09	09
October	10	10	10	10	10	10	10	10	10
November	11	11	11	11	11	11	11	11	11
December	12	12	12	12	12	12	12	12	12
NASS Time of Accident SAS TIME									
Code reported military time of crash	AT	AT	AT	AT	AT	AT	AT	AT	AT
Unknown (AT = actual time)	9999	9999	9999	9999	9999	9999	9999	9999	9999
NASS SS-12 Anti Lacerative Windshield - Special Study SAS SS12									
No - not applicable	0	-	-	-	-	-	-	-	-
Yes - applicable	1	-	-	-	-	-	-	-	-

ACCIDENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS AOPS Special Study Case SAS AOPSCASE									
No - not applicable	-	0	-	-	-	-	-	-	-
Yes - applicable	-	1	-	-	-	-	-	-	-
NASS Fatal AOPS Special Study (SS14) SAS AOPSFAT									
No - not applicable	-	-	-	0	0	0	-	-	-
Yes - applicable	-	-	-	1	1	1	-	-	-
NASS Impact Fires Special Study SAS FIRESTDY									
No - not applicable	-	-	-	-	-	-	0	0	0
Yes - applicable	-	-	-	-	-	-	1	1	1
NASS Administrative Use - Special Study SAS ADMINSS									
No - not applicable	-	-	-	-	-	-	-	0	0
Yes - applicable	-	-	-	-	-	-	-	1	1
NASS Pedestrian Crash Data Study - Special Study SAS PEDSTUDY									
No - not applicable	-	-	-	-	-	-	-	0	0
Yes - applicable	-	-	-	-	-	-	-	1	1
NASS Unsafe Driver Actions - Special Study SAS DRVRACT									
No - not applicable	-	-	-	-	-	-	-	0	0
Yes - applicable	-	-	-	-	-	-	-	1	1
NASS Number of Events SAS EVENTS									
Code number of events that occurred in this crash (AN = actual number of events)	AN	AN	AN	AN	AN	AN	AN	AN	AN

ACCIDENT FORM DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS PSU Inflation Factor SAS PSUWGT	x	x	x	x	-	-	-	-	-
NASS National Inflation Factor SAS NATWGT	x	x	x	x	-	-	-	-	-
NASS Ratio Inflation Factor SAS RATWGT	-	-	x	x	x	x	x	x	x
NASS Case Sequence Number SAS CASENO	x	x	x	x	x	x	x	x	x
NASS Case Stratum SAS STRATIF	x	x	x	x	x	x	x	x	x
NASS Version Number SAS VERSION									
Version number	1	2	3	4	5	6	7	8	9
NASS PSU Stratum SAS PSUSTRAT	-	-	-	-	x	x	x	x	x
NASS Case Stratum SAS STRATIF									
A	x	x	x	x	x	x	x	x	x
B	x	x	x	x	x	x	x	x	x
C	x	x	x	x	x	x	x	x	x
D	x	x	x	x	x	x	x	x	x
E	x	x	x	x	x	x	x	x	x
F	x	x	x	x	x	x	x	x	x
G	x	x	x	x	x	x	x	x	x
H	x	x	x	x	x	x	x	x	x
J	-	-	-	x	x	x	x	x	x
K	-	-	-	x	x	x	x	x	x
Y	x	-	-	-	-	-	-	-	-
Z	x	-	-	-	-	-	-	-	-

ACCIDENT FORM DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Maximum Known AIS in Accident SAS AAIS									
Not injured	0	0	0	0	0	0	0	0	0
Minor injury	1	1	1	1	1	1	1	1	1
Moderate injury	2	2	2	2	2	2	2	2	2
Serious injury	3	3	3	3	3	3	3	3	3
Severe injury	4	4	4	4	4	4	4	4	4
Critical injury	5	5	5	5	5	5	5	5	5
Maximum (untreatable) injury	6	6	6	6	6	6	6	6	6
Injury, unknown severity	7	7	7	7	7	7	7	7	7
Unknown if injured	9	9	9	9	9	9	9	9	9
Not collected	.	.	.	.	.	.	.	.	.
NASS Number of Seriously Injured Occupants SAS AINJSER									
Code number of seriously injured occupants in a case (SI) (AIS$3, or Treatment=Fatal)	SI	SI	SI	SI	SI	SI	SI	SI	SI
NASS Total Number of Injured Occupants SAS AINJURED									
Code number of injured occupants in a case (IO) (Where Rec. Inj./OA43 = 01-97)	IO	IO	IO	IO	IO	IO	IO	IO	IO
NASS Maximum Treatment in this Accident SAS ATREAT									
No treatment	0	0	0	0	0	0	0	0	0
Fatal	1	1	1	1	1	1	1	1	1
Fatal - ruled disease	2	2	2	2	2	2	2	2	2
Hospitalized	3	3	3	3	3	3	3	3	3
Transported and Released	4	4	4	4	4	4	4	4	4
Treatment at scene	5	5	5	5	5	5	5	5	5
Treatment later	6	6	6	6	6	6	6	6	6
Treatment - other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
Not collected	.	.	.	.	.	.	.	.	.
NASS Alcohol or Drug Involvement SAS ALC DRUG									
Yes	1	1	1	-	-	-	-	-	-
No	2	2	2	-	-	-	-	-	-
Unknown	9	9	9	-	-	-	-	-	-

ACCIDENT FORM DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Alcohol Involved in Accident SAS ALCINV									
Yes	-	-	-	1	1	1	1	1	1
No	-	-	-	2	2	2	2	2	2
Unknown	-	-	-	9	9	9	9	9	9
NASS Drug Involvment in Accident SAS DRGINV									
Yes	-	-	-	1	1	1	1	1	1
No	-	-	-	2	2	2	2	2	2
Unknown	-	-	-	3	3	3	3	3	3
NASS Day of Week of Accident SAS DAYWEEK									
Sunday	01	01	01	01	01	01	01	01	01
Monday	02	02	02	02	02	02	02	02	02
Tuesday	03	03	03	03	03	03	03	03	03
Wednesday	04	04	04	04	04	04	04	04	04
Thursday	05	05	05	05	05	05	05	05	05
Friday	06	06	06	06	06	06	06	06	06
Saturday	07	07	07	07	07	07	07	07	07
NASS Manner of Collision SAS ANCOLL									
Not collsion with vehicle in transport	-	-	-	0	0	0	0	0	0
Rear-end	-	-	-	1	1	1	1	1	1
Head-on	-	-	-	2	2	2	2	2	2
Angle	-	-	-	4	4	4	4	4	4
Sideswipe, same direction	-	-	-	5	5	5	5	5	5
Sideswipe, opposite direction	-	-	-	6	6	6	6	6	6
Unknown	-	-	-	9	9	9	9	9	9

EVENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Accident Event Sequence Number SAS ACCSEQ									
Pre-coded accident event sequence number (EN = event number)	EN	EN	EN	EN	EN	EN	EN	EN	EN
NASS Vehicle Number SAS VEHNUM									
Code lowest numbered vehicle (AN = actual number)	AN	AN	AN	AN	AN	AN	AN	AN	AN
NASS Class of Vehicle SAS CLASS1, CLASS2									
Not a motor vehicle (CLASS2 only)	00	00	00	00	00	00	00	00	00
Subcompact/mini wheelbase <100"(254cm)	01	01	01	01	01	01	01	01	01
Compact wheelbase 100-104"($254-<265cm)	02	02	02	02	02	02	02	02	02
Intermediate wheelbase 105-109"($265-<278cm)	03	03	03	03	03	03	03	03	03
Full size wheelbase 110-114"($278-<291cm)	04	04	04	04	04	04	04	04	04
Largest wheelbase $115" ($291cm)	05	05	05	05	05	05	05	05	05
Unknown passenger car size	09	09	09	09	09	09	09	09	09
Short or compact utility vehicle	11	11	11	11	11	11	11	14	14
Truck based or large utility #10,000lbs GVWR (#4,500kgs)	12	12	12	12	12	12	12	15	15
Passenger van #10,000lbs GVWR (#4,500kgs)	13	13	13	13	13	13	13	-	-
Other van #10,000lbs GVWR (#4,500kgs)	14	14	14	14	14	14	14	28	28
Pickup truck #10,000lbs GVWR (#4,500kgs)	15	15	15	15	15	15	15	-	-
Other truck #10,000lbs GVWR (#4,500kgs)	18	18	18	18	18	18	18	38	38
Unknown light truck type	19	19	19	19	19	19	19	48	48
School bus	20	20	20	20	20	20	20	-	-
Other bus	21	21	21	21	21	21	21	-	-
Truck >10,000lbs GVWR (>4,500kgs)	22	22	22	22	22	22	22	60	60
Tractor without trailer	23	23	23	23	23	23	23	67	67
Tractor trailer	24	24	24	24	24	24	24	68	68
Motored cycle	25	25	25	25	25	25	25	80	80
Other vehicle	28	28	28	28	28	28	28	90	90
Unknown	99	99	99	99	99	99	99	99	99
Utility station wagon #4,500kgs GVWR	-	-	-	-	-	-	-	16	16
Unknown utility type	-	-	-	-	-	-	-	19	19
Minivan #4,500kgs GVWR	-	-	-	-	-	-	-	20	20
Large van #4,500kgs GVWR	-	-	-	-	-	-	-	21	21

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Van based school bus #4,500kgs GVWR	-	-	-	-	-	-	-	24	24
Unknown van type #4,500kgs GVWR	-	-	-	-	-	-	-	29	29
Compact pickup truck #4,500kgs GVWR	-	-	-	-	-	-	-	30	30
Large pickup truck #4,500kgs GVWR	-	-	-	-	-	-	-	31	31
Unknown pickup type #4,500kgs GVWR	-	-	-	-	-	-	-	39	39
Other light truck #4,500kgs GVWR	-	-	-	-	-	-	-	45	45
Unknown light vehicle type	-	-	-	-	-	-	-	49	49
School bus >4,500kgs GVWR	-	-	-	-	-	-	-	50	50
Other bus >4,500kgs GVWR	-	-	-	-	-	-	-	58	58
Unknown bus type	-	-	-	-	-	-	-	59	59
Unknown medium/heavy truck type	-	-	-	-	-	-	-	78	78
Unknown light/medium/heavy truck type	-	-	-	-	-	-	-	79	79

NASS SAS General Area of Damage
GAD1, GAD2 (1988 only)
GADEV1, GADEV2 (1989-96)

CDC Applicable Vehicles									
Not a motor vehicle	0	0	0	0	0	0	0	0	0
Noncollision	N	N	N	N	N	N	N	N	N
Front	F	F	F	F	F	F	F	F	F
Right side	R	R	R	R	R	R	R	R	R
Left side	L	L	L	L	L	L	L	L	L
Back	B	B	B	B	B	B	B	B	B
Top	T	T	T	T	T	T	T	T	T
Undercarriage	U	U	U	U	U	U	U	U	U
Unknown	9	9	9	9	9	9	9	9	9

TDC Applicable Vehicles									
Not a motor vehicle	0	0	0	0	0	0	0	0	0
Noncollision	N	N	N	N	N	N	N	N	N
Front	F	F	F	F	F	F	F	F	F
Right side	R	R	R	R	R	R	R	R	R
Left side	L	L	L	L	L	L	L	L	L
Back (rear of trailer)	B	B	B	B	B	B	B	B	B
Back (rear of tractor)	D	D	D	D	D	D	D	D	D
Rear of cab	C	C	C	C	C	C	C	C	C
Front of cargo area	V	V	V	V	V	V	V	V	V
Top	T	T	T	T	T	T	T	T	T
Undercarriage	U	U	U	U	U	U	U	U	U
Unknown	9	9	9	9	9	9	9	9	9

EVENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Vehicle Number or Object Contacted									
SAS OBJCONT									
Vehicle number	01-30	01-30	01-30	01-30	01-30	01-30	01-30	01-30	01-30
Noncollision									
Overturn - rollover	31	31	31	31	31	31	31	31	31
Rollover -- end-over-end	-	-	-	-	-	-	-	32	32
Fire or explosion	32	32	32	32	32	32	32	33	33
Jackknife	33	33	33	33	33	33	33	34	34
Other intraunit damage	34	34	34	34	34	34	34	35	35
Noncollision injury	35	35	35	35	35	35	35	36	36
Other noncollision	38	38	38	38	38	38	38	38	38
Noncollision - details unknown	39	39	39	39	39	39	39	39	39
Collision With Fixed Object									
Tree #4" diameter (#10cm)	41	41	41	41	41	41	41	41	41
Tree >4" diameter (>10cm)	42	42	42	42	42	42	42	42	42
Shrubbery or bush	43	43	43	43	43	43	43	43	43
Embankment	44	44	44	44	44	44	44	44	44
Breakaway pole or post	45	45	45	45	45	45	45	45	45
Nonbreakaway Pole or Post									
Pole or post #4" diameter (#10cm)	50	50	50	50	50	50	50	50	50
Pole or post >4 but #12" in diameter (>10 but #30cm)	51	51	51	51	51	51	51	51	51
Pole or post >12" in diameter (>30cm)	52	52	52	52	52	52	52	52	52
Pole or post diameter unknown	53	53	53	53	53	53	53	53	53
Concrete traffic barrier	54	54	54	54	54	54	54	54	54
Impact attenuator	55	55	55	55	55	55	55	55	55
Other traffic barrier	56	56	56	56	56	56	56	56	56
Fence wall building	57	57	57	57	57	57	57	57	57
Ditch or culvert	60	60	60	60	60	60	60	60	60
Ground	61	61	61	61	61	61	61	61	61
Fire Hydrant	62	62	62	62	62	62	62	62	62
Curb	63	63	63	63	63	63	63	63	63
Bridge	64	64	64	64	64	64	64	64	64
Other fixed object	68	68	68	68	68	68	68	68	68
Unknown fixed object	69	69	69	69	69	69	69	69	69
Collision with nonfixed object									
Passenger car, light truck, van or other vehicle not in transport	-	-	-	-	-	-	-	70	70
Medium/heavy truck not in transport	-	-	-	-	-	-	-	71	71
Motor vehicle not in transport	71	71	71	71	71	71	71	-	-
Pedestrian	72	72	72	72	72	72	72	72	72
Cyclist or cycle	73	73	73	73	73	73	73	73	73
Other nonmotorist or conveyance	74	74	74	74	74	74	74	74	74
Vehicle occupant	75	75	75	75	75	75	75	75	75
Animal	76	76	76	76	76	76	76	76	76
Train	77	77	77	77	77	77	77	77	77
Trailer disconnected in transport	78	78	78	78	78	78	78	78	78

EVENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Other nonfixed object	88	88	88	88	88	88	88	88	88
Unknown nonfixed object	89	89	89	89	89	89	89	89	89
Other event	98	98	98	98	98	98	98	98	98
Unknown event or object	99	99	99	99	99	99	99	99	99
Object fell from vehicle in transport	-	-	-	-	-	-	-	79	79

EVENT FORM DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS SAS	PSU Inflation Factor PSUWGT	x	x	x	x	-	-	-	-	-
NASS SAS	National Inflation Factor NATWGT	x	x	x	x	-	-	-	-	-
NASS SAS	Ratio Inflation Factor RATWGT	-	-	x	x	x	x	x	x	x
NASS SAS	Case Sequence Number CASENO	x	x	x	x	x	x	x	x	x
NASS SAS	Case Stratum STRATIF									
A		x	x	x	x	x	x	x	x	x
B		x	x	x	x	x	x	x	x	x
C		x	x	x	x	x	x	x	x	x
D		x	x	x	x	x	x	x	x	x
E		x	x	x	x	x	x	x	x	x
F		x	x	x	x	x	x	x	x	x
G		x	x	x	x	x	x	x	x	x
H		x	x	x	x	x	x	x	x	x
J		-	-	-	x	x	x	x	x	x
K		-	-	-	x	x	x	x	x	x
Y		x	-	-	-	-	-	-	-	-
Z		x	-	-	-	-	-	-	-	-
NASS SAS	Version Number VERSION	1	2	3	4	5	6	7	8	9
NASS SAS	PSU Stratum PSUSTRAT	-	-	-	-	x	x	x	x	x

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Vehicle Model Year SAS MODELYR									
Last two digits of the model year	MY	MY	MY	MY	MY	MY	MY	MY	MY
Unknown	99	99	99	99	99	99	99	99	99
NASS Vehicle Make SAS MAKE									
American Motors	1	1	1	1	1	1	1	1	1
Jeep	2	2	2	2	2	2	2	2	2
AM General	3	3	3	3	3	3	3	3	3
Chrysler	6	6	6	6	6	6	6	6	6
Dodge	7	7	7	7	7	7	7	7	7
Imperial	8	8	8	8	8	8	8	8	8
Plymouth	9	9	9	9	9	9	9	9	9
Eagle	-	10	10	10	10	10	10	10	10
Ford	12	12	12	12	12	12	12	12	12
Lincoln	13	13	13	13	13	13	13	13	13
Mercury	14	14	14	14	14	14	14	14	14
Buick	18	18	18	18	18	18	18	18	18
Cadillac	19	19	19	19	19	19	19	19	19
Chevrolet	20	20	20	20	20	20	20	20	20
Oldsmobile	21	21	21	21	21	21	21	21	21
Pontiac	22	22	22	22	22	22	22	22	22
GMC	23	23	23	23	23	23	23	23	23
Saturn	24	24	24	24	24	24	24	24	24
Gruman	-	-	-	-	25	25	25	25	25
Other Domestic	29	29	29	29	29	29	29	29	29
Volkswagen	30	30	30	30	30	30	30	30	30
Alfa Romeo	31	31	31	31	31	31	31	31	31
Audi	32	32	32	32	32	32	32	32	32
Austin/Austin Healy	33	33	33	33	33	33	33	33	33
BMW	34	34	34	34	34	34	34	34	34
Nissan/Datsun	35	35	35	35	35	35	35	35	35
Fiat	36	36	36	36	36	36	36	36	36
Honda	37	37	37	37	37	37	37	37	37
Isuzu	38	38	38	38	38	38	38	38	38
Jaguar	39	39	39	39	39	39	39	39	39
Lancia	40	40	40	40	40	40	40	40	40
Mazda	41	41	41	41	41	41	41	41	41
Mercedes Benz	42	42	42	42	42	42	42	42	42
MG	43	43	43	43	43	43	43	43	43
Peugeot	44	44	44	44	44	44	44	44	44
Porsche	45	45	45	45	45	45	45	45	45
Renault	46	46	46	46	46	46	46	46	46
Saab	47	47	47	47	47	47	47	47	47
Subaru	48	48	48	48	48	48	48	48	48
Toyota	49	49	49	49	49	49	49	49	49
Triumph	50	50	50	50	50	50	50	50	50
Volvo	51	51	51	51	51	51	51	51	51
Mitsubishi	52	52	52	52	52	52	52	52	52
Suzuki	53	53	53	53	53	53	53	53	53
Acura	54	54	54	54	54	54	54	54	54
Hyundai	55	55	55	55	55	55	55	55	55

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Merkur	56	56	56	56	56	56	56	56	56
Yugo	57	57	57	57	57	57	57	57	57
Infiniti	-	-	58	58	58	58	58	58	58
Lexus	-	-	59	59	59	59	59	59	59
Daihatsu	-	-	-	60	60	60	60	60	60
Sterling	-	-	-	-	61	61	61	61	61
Land Rover	-	-	-	-	-	-	-	62	62
KIA	-	-	-	-	-	-	-	63	63
Other foreign	69	69	69	69	69	69	69	69	69
BSA	70	70	70	70	70	70	70	70	70
Ducati	71	71	71	71	71	71	71	71	71
Harley Davidson	72	72	72	72	72	72	72	72	72
Kawasaki	73	73	73	73	73	73	73	73	73
MotoGuzzi	74	74	74	74	74	74	74	74	74
Norton	75	75	75	75	75	75	75	75	75
Yamaha	76	76	76	76	76	76	76	76	76
Other make moped	78	78	78	78	78	78	78	78	78
Other motorcycle	79	79	79	79	79	79	79	79	79
Brockway	80	80	80	80	80	80	80	80	80
Diamond Reo	81	81	81	81	81	81	81	81	81
Freightliner/White	82	82	82	82	82	82	82	82	82
FWD	83	83	83	83	83	83	83	83	83
International Harvester	84	84	84	84	84	84	84	84	84
Kenworth	85	85	85	85	85	85	85	85	85
Mack	86	86	86	86	86	86	86	86	86
Peterbilt	87	87	87	87	87	87	87	87	87
Iveco/Magirus	88	88	88	88	88	88	88	88	88
Other make	89	89	89	89	89	89	89	89	89
Unknown	99	99	99	99	99	99	99	99	99

NASS Vehicle Model
SAS MODEL

Applicable codes are found in the NASS CDS Data Collection, Coding and Editing Manual

NOTE: Model codes for utiltiy vehicles, vans and pickup trucks changed significantly in 1992.

NASS Body Type
SAS BODYTYPE

Automobile									
Convertible	1	1	1	1	1	1	1	1	1
2 Door sedan, hardtop, coupe	2	2	2	2	2	2	2	2	2
2/3 Door Hatchback	3	3	3	3	3	3	3	3	3
4 Door seadan, hardtop	4	4	4	4	4	4	4	4	4
4/5 Door Hatchback	5	5	5	5	5	5	5	5	5
Station wagon	6	6	6	6	6	6	6	6	6
Hatchback, # doors unknown	-	-	-	-	7	7	7	7	7
Other automobile	8	8	8	8	8	8	8	8	8
Unknown automobile type	9	9	9	9	9	9	9	9	9
Automobile Deriatives									
Auto based pickup	10	10	10	10	10	10	10	10	10
Auto based panel	11	11	11	11	11	11	11	11	11

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Large limousine	12	12	12	12	12	12	12	12	12
Three-wheel auto or deriative	-	-	-	-	13	13	13	13	13
Utility Vehicles									
Short Utility	13	13	13	13	-	-	-	-	-
Truck based utility	14	14	14	14	-	-	-	-	-
Compact utility	-	-	-	-	14	14	14	14	14
Large utility	-	-	-	-	15	15	15	15	15
Utility station wagon	-	-	-	-	16	16	16	16	16
Utility, unknown body type	-	-	-	-	19	19	19	19	19
Van Based Light Truck									
Minivan	20	20	20	20	20	20	20	20	20
Large van	21	21	21	21	21	21	21	21	21
Step van or walk-in van	-	-	-	-	22	22	22	22	22
Van based motorhome	-	-	-	-	23	23	23	23	23
Van based school bus	-	-	-	-	-	24	24	24	24
Van based other bus	-	-	-	-	-	25	25	25	25
Other van type	28	28	28	28	28	28	28	28	28
Unknown van type	29	29	29	29	29	29	29	29	29
Light conventional trucks									
Compact pickup	30	30	30	30	30	30	30	30	30
Standard or large pickup	31	31	31	31	31	31	31	31	31
Pickup with slide-in camper	32	32	32	32	32	32	32	32	32
Truck based station wagon	33	33	33	33	-	-	-	-	-
Convertible pick-up	-	-	35	35	33	33	33	33	33
Light truck suburban limousine	34	34	34	34	-	-	-	-	-
Unknown type	39	39	39	39	39	39	39	39	39
Other light trucks									
Cab chasis based	40	40	40	40	40	40	40	40	40
Truck based panel	41	41	41	41	41	41	41	41	41
Light truck based motorhome	42	42	42	42	42	42	42	42	42
Other light conventional truck type	47	47	47	47	45	45	45	45	45
Unknown light truck type	48	48	48	48	48	48	48	48	48
Unknown light vehicle type	49	49	49	49	49	49	49	49	49
Other vehicles									
Buses									
School bus	50	50	50	50	50	50	50	50	50
Other bus	58	58	58	58	58	58	58	58	58
Unknown bus type	59	59	59	59	59	59	59	59	59
Medium/Heavy trucks									
Step van	60	60	60	60	60	60	60	60	60
Single unit straight truck	61	61	61	61	61	61	61	61	61
SUST Middle weight	-	-	-	-	62	62	62	62	62
Single unit straight truck>11.8GVWR	62	62	62	62	63	63	63	63	63
Single unit straight truck GVWR unk	-	-	-	-	64	64	64	64	64
Medium/heavy truck motorhome	63	63	63	63	65	65	65	65	65
Truck-tractor no cargo trailer	64	64	64	64	67	67	67	67	67
Truck-tractor pulling one trailer	65	65	65	65	68	68	68	68	68
Turck-tractor pulling 2 or more trailers	66	66	66	66	69	69	69	69	69
Truck-tractor unknown pulling trailer	67	67	67	67	70	70	70	70	70

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Unknown medium/heavy truck type	68	68	68	68	78	78	78	78	78
Unknown truck type	69	69	69	69	79	79	79	79	79
Motorcycles									
Motorcycle	70	70	70	70	80	80	80	80	80
Moped	71	71	71	71	81	81	81	81	81
Three wheel motorcycle/moped	-	-	-	-	-	82	82	82	82
Other motored cycle	78	78	78	78	88	88	88	88	88
Unknown motored cycle type 79	79	79	79	79	89	89	89	89	
Other vehicles									
ATV	80	80	80	80	90	90	90	90	90
Snowmobile	-	-	-	-	91	91	91	91	91
Farm equipment	-	-	-	-	92	92	92	92	92
Construction equipment	-	-	-	-	93	93	93	93	93
Other vehicle type	88	88	88	88	97	97	97	97	97
Unknown body type	99	99	99	99	99	99	99	99	99

NASS Vehicle Identification Number
SAS VIN

Coded VIN	C O D E A C T U A L 1 7 D I G I T C O D E
No VIN	C O D E A L L Z E R O S
Unknown	C O D E A L L N I N E S

NASS Vehicle Special Use (This Trip)
SAS VEHUSE

No special use	-	-	-	-	0	0	0	0	0
Taxi	-	-	-	-	1	1	1	1	1
Vehicle used as school bus	-	-	-	-	2	2	2	2	2
Vehicle used as other bus	-	-	-	-	3	3	3	3	3
Military	-	-	-	-	4	4	4	4	4
Police	-	-	-	-	5	5	5	5	5
Ambulance	-	-	-	-	6	6	6	6	6
Fire truck or car	-	-	-	-	8	7	7	7	7
Other	-	-	-	-	-	8	8	8	8
Unknown	-	-	-	-	9	9	9	9	9
Hearse	-	-	-	-	7	-	-	-	-

NASS Police Reported Vehicle Disposition
SAS TOWPAR

Not towed due to vehicle damage	0	0	0	0	0	0	0	0	0
Towed due to vehicle damage	1	1	1	1	1	1	1	1	1
Unknown	9	9	9	9	9	9	9	9	9

GENERAL VEHICLE FORM

NASS Police Reported Travel Speed
SAS TRAVELSP

Coded travel speed	1988 mph	1989 mph	1990 mph	1991 mph	1992 mph	1993 kph	1994 kph	1995 kph	1996 kph
Less than 0.5 mph	00	00	00	00	00	-	-	-	-
Less than 0.5 kph	-	-	-	-	-	000	000	000	000
96.5 mph and above	97	97	97	97	97	-	-	-	-
159.5 kph and above	-	-	-	-	-	160	160	160	160
Unknown	99	99	99	99	99	999	999	999	999

mph x 1.6093=kph

NASS	Police Reported Alcohol Or Drug Presence		Police Reported Alcohol Alcohol Presence			Police Reported Other Drug Presence			
SAS	DRINKDRG		DRINKING			DRUGS			
	1988	To 1990	1991		To 1996	1991		To 1996	
Neither alcohol or drugs present		0			0			0	
Yes - alcohol present		1			1			-	
Yes - drugs present		2			-			1	
Yes - alcohol and drugs present		3			-			-	
Yes - alocho or drugs present		4			-			-	
Not reported		7			7			7	
No driver present		8			8			8	
Unknown		9			9			9	

NASS Alcohol Test Result for Driver
SAS ALCTEST

Coded actual value	1988 AV	1989 AV	1990 AV	1991 AV	1992 AV	1993 AV	1994 AV	1995 AV	1996 AV
Test refused	95	95	95	95	95	95	95	95	95
None given	96	96	96	96	96	96	96	96	96
AC test performed, results unknown.	97	97	97	97	97	97	97	97	97
No driver present	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Police Reported Observation Perception Test Type for Driver									
SAS OBSTEST									
No observation/perception test given	-	-	-	0	0	-	-	-	-
DRT determination	-	-	-	1	1	-	-	-	-
Behavioral	-	-	-	2	2	-	-	-	-
Other determination	-	-	-	3	3	-	-	-	-
Other observation/perception test	-	-	-	7	7	-	-	-	-
No driver present	-	-	-	8	8	-	-	-	-
Unknown if test given	-	-	-	9	9	-	-	-	-
DEC available, unk determination	-	-	-	-	4	-	-	-	-
DEC not available, unk othe test	-	-	-	-	5	-	-	-	-
NASS Other Drup Specimen Test Type for Driver									
SAS SPECTEST									
No specimen test given	-	-	-	0	0	0	0	-	-
Blood test	-	-	-	1	1	1	1	-	-
Urine test	-	-	-	2	2	2	2	-	-
Other specimen test	-	-	-	3	3	3	3	-	-
Unspecified specimen test	-	-	-	7	7	7	7	-	-
No driver present	-	-	-	8	8	8	8	-	-
Unknown if test given	-	-	-	9	9	9	9	-	-
NASS Police Reported Drug Evaluation Classification (DEC) Test for Driver									
SAS EVALCLAS									
No DEC process available or given	-	-	-	-	-	0	0	-	-
DEC process given, results known	-	-	-	-	-	1	1	-	-
DEC process given, results unknown	-	-	-	-	-	2	2	-	-
DEC available, unknown if given	-	-	-	-	-	3	3	-	-
No driver present	-	-	-	-	-	8	8	-	-
NASS Driver's Zip Code									
SAS DRZIP									
Driver not present	-	-	-	-	00000	00000	00000	99998	99998
Driver non US resident	-	-	-	-	00001	00001	00001	00001	00001
Coded Zip Code	-	-	-	-	ZC	ZC	ZC	ZC	ZC
Unknown	-	-	-	-	99999	99999	99999	99999	99999

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996

NASS 1988-1990 No information collected.
1991 - Other Drug Test Results for Driver by Observation/Perception and Specimen Test Results
1992 - Drug Evaluation Classification
1993-1994 - Drug Evaluation Classification
1995 - 1996 - Other Drug Specimen Test Results for Driver
SAS 1991-1994- SPECOTH SPECPCP SPECSTIM SPECCNAB SPECDEPR SPECHLUC SPECINHL SPECNARC OBSCNAB OBSDEPR OBSHLUC OBSINHL OBSNARC OBSOTH OBSPCP OBSSTIM
1995-1996- SPECOTH

Observation/perception test results									
No observation/perception test given	-	-	-	0	0	-	-	-	-
Passed observation/perception test	-	-	-	1	1	-	-	-	-
Failed observation/perception test	-	-	-	2	2	-	-	-	-
Test given - results unknown	-	-	-	3	3	-	-	-	-
Specimen test results									
No specimen test given	-	-	-	0	0	0	0	0	0
Drug not found in specimen	-	-	-	1	1	1	1	1	1
Drug found in specimen	-	-	-	2	2	2	2	2	2
Specimen test given, results unknown	-	-	-	-	7	7	7	3	3
No driver present	-	-	-	8	8	8	8	8	8
Unknown if test given	-	-	-	9	9	9	9	9	9
DEC test results									
No DEC test given	-	-	-	-	-	0	0	-	-
Passed DEC test	-	-	-	-	-	1	1	-	-
Failed DEC test	-	-	-	-	-	2	2	-	-
DEC test given - results unknown	-	-	-	-	-	3	3	-	-

NASS Driver's Race/Ethnic Origin
SAS DRRACE

Driver not present	-	-	-	-	0	0	0	8	8
White (non-Hispanic)	-	-	-	-	1	1	1	1	1
Black (non-Hispanic)	-	-	-	-	2	2	2	2	2
White (Hispanic)	-	-	-	-	3	3	3	3	3
Black (Hispanic)	-	-	-	-	4	4	4	4	4
American Indian, Eskimo or Aleut	-	-	-	-	5	5	5	5	5
Asian or Pacific Islander	-	-	-	-	6	6	6	6	6
Other	-	-	-	-	8	8	8	7	7
Unknown	-	-	-	-	9	9	9	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Speed Limit SAS SPLIMIT									
No statutory limit	00	00	00	00	00	000	000	000	000
Posted or statutory limit	mph	mph	mph	mph	mph	kmph	kmph	kmph	kmph
Unknown	99	99	99	99	99	999	999	999	999
mph x 1.6093=kmph									
NASS Attempted Avoidance Maneuver SAS MANEUVER									
No impact	00	00	00	00	00	00	-	-	-
No avoidance action	01	01	01	01	01	01	01	01	01
Braking (no lockup)	02	02	02	02	02	02	02	02	02
Braking (lockup)	03	03	03	03	03	03	03	03	03
Braking (lockup unknown)	04	04	04	04	04	04	04	04	04
Releasing brakes	05	05	05	05	05	05	05	05	05
Steering left	06	06	06	06	06	06	06	06	06
Steering right	07	07	07	07	07	07	07	07	07
Braking & steering left	08	08	08	08	08	08	08	08	08
Braking & steering right	09	09	09	09	09	09	09	09	09
Accelerating	10	10	10	10	10	10	10	10	10
Accelerating & steering left	11	11	11	11	11	11	11	11	11
Accelerating & steering right	12	12	12	12	12	12	12	12	12
Other action	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99
No driver present	-	97	97	97	97	97	97	00	00
NASS Accident Type SAS ACCTYPE									
No impact	00	00	00	00	00	00	00	00	00
Diagram code (see coding form)	code	code	code	code	code	code	code	code	code
Other accident type	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99
NASS Driver Presence in Vehicle SAS DRPRES									
Driver not present	0	0	0	0	0	0	0	0	0
Driver present	1	1	1	1	1	1	1	1	1
Unknown	9	9	9	9	9	9	9	9	9
NASS Number of Occupants This Vehicle SAS OCUPANTS									
Number of vehicle occupants	00-96	00-96	00-96	00-96	00-96	00-96	00-96	00-96	00-96
97 or more	97	97	97	97	97	97	97	97	97
Unknown	99	99	99	99	99	99	99	99	99

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Number of Occupant Forms Submitted									
SAS OCCFORMS									
Number of forms submitted	#	#	#	#	#	#	#	#	#
NASS Vehicle Curb Weight									
SAS CURBWGT									
Curb weight	LBS	LBS	LBS	LBS	LBS	KGS	KGS	KGS	KGS
Less than 50 pounds	000	-	-	-	-	-	-	-	-
13,500 pounds or more	135	135	135	135	135	-	-	-	-
Less than 1,050 pounds	-	010	010	010	010	-	-	-	-
Less than 450 kilograms	-	-	-	-	-	045	045	045	-
Less than 454 kilograms	-	-	-	-	-	-	-	-	045
6,100 kilograms or more	-	-	-	-	-	610	610	610	-
6,124 kilograms or more	-	-	-	-	-	-	-	-	612
Unknown	999	999	999	999	999	999	999	999	999
pounds x .4536=kilograms									
NASS Vehicle Cargo Weight									
SAS CARGOWGT									
Cargo weight	LBS	LBS	LBS	LBS	LBS	KGS	KGS	KGS	KGS
Less than 50 pounds	00	00	00	00	00	-	-	-	-
Less than 5 kilograms	-	-	-	-	-	000	000	000	000
9,650 pounds or more	97	97	97	97	97	-	-	-	-
4,500 kilograms or more	-	-	-	-	-	450	450	450	-
4,536 kilograms or more	-	-	-	-	-	-	-	-	454
Unknown	99	99	99	99	99	999	999	999	999
pounds x .4536=kilograms									
NASS Towed Trailing Unit									
SAS TOWHITCH									
No towed unit	0	0	0	0	0	0	0	0	0
Yes, towed trailing unit	1	1	1	1	1	1	1	1	1
Unknown	9	9	9	9	9	9	9	9	9
NASS Documentation of Trajetory Data For This Vehicle									
SAS DOCTRAJ									
No	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Rollover									
SAS ROLLOVER									
No rollover	0	0	0	0	0	0	0	00	00
Rollover, 1 quarter turn	1	1	1	1	1	1	1	-	-
Rollover, 2 quarter turns	2	2	2	2	2	2	2	-	-
Rollover, 3 quarter turns	3	3	3	3	3	3	3	-	-
Rollover, 4 or more quarter turns	4	4	4	4	4	4	4	-	-
Rollover, number of quarter turns	-	-	-	-	-	-	-	01-16	01-16
Rollover, 17 or more quarter turns	-	-	-	-	-	-	-	17	17
Rollover, end over end	5	5	5	5	5	5	5	98	98
Rollover, details unknown	9	9	9	9	9	9	9	99	99
NASS Post Collision Condition of Tree or Pole For (Highest Delta V)									
SAS CONDTREE									
Not collision with tree or pole	0	0	0	0	0	0	0	0	0
Not damaged	1	1	1	1	1	1	1	1	1
Cracked/sheared	2	2	2	2	2	2	2	2	2
Tilted < 45 degrees	3	3	3	3	3	3	3	3	3
Tilted > or = 45 degrees	4	4	4	4	4	4	4	4	4
Uprooted treed	5	5	5	5	5	5	5	5	5
Separated pole from base	6	6	6	6	6	6	6	6	6
Pole replaced	7	7	7	7	7	7	7	7	7
Other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Front Override/Underride Rear Override/Underride (This Vehicle)									
SAS FOVERIDE - ROVERIDE									
No override/underride	0	0	0	0	0	0	0	0	0
Override, 1st CDC	1	1	1	1	1	1	1	1	1
Override, 2nd CDC	2	2	2	2	2	2	2	2	2
Override, other not automated CDC	3	3	3	3	3	3	3	3	3
Underride, 1st CDC	4	4	4	4	4	4	4	4	4
Underride, 2nd CDC	5	5	5	5	5	5	5	5	5
Underride, other not automated CDC	6	6	6	6	6	6	6	6	6
Medium/heavy truck override	7	7	7	7	7	7	7	7	7
Unknown	9	9	9	9	9	9	9	9	9
NASS Heading Angle At Impact This Vehicle - Other Vehicle									
SAS ANGTHIS - ANGOTHER									
Code actual value	000-359	000-359	000-359	000-359	000-359	000-359	000-359	000-359	000-359
Noncollision	997	997	997	997	997	997	997	997	997
Impact with object	998	998	998	998	998	998	998	998	998
Non-horizontal impact	-	-	-	-	-	-	-	-	996
Unknown	999	999	999	999	999	999	999	999	999

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Basis for Total Delta V (Highest)									
SAS DVBASIS									
Delta V Calculated									
CRASH-damage only routine	1	1	1	1	1	1	1	01	01
CRASH-damage & trajectory routine	2	2	2	2	2	2	2	02	02
Missing vehicle algorithm	3	3	3	3	3	3	3	03	03
Delta V Not Calculated									
1veh beyond acceptble reconstruction	4	4	4	4	4	4	4	04	04
Collision condition beyond scoe	5	5	5	5	5	5	5	-	-
Insufficient data available	6	6	6	6	6	6	6	11	11
No vehicle inspection	-	-	-	-	-	-	-	00	00
Rollover	-	-	-	-	-	-	-	05	05
Other non-horizontal forces	-	-	-	-	-	-	-	06	06
Sideswipe type damage	-	-	-	-	-	-	-	07	07
Severe override	-	-	-	-	-	-	-	08	08
Yielding object	-	-	-	-	-	-	-	09	09
Overlapping damage	-	-	-	-	-	-	-	10	10
Other	-	-	-	-	-	-	-	98	98
NASS Total Delta V									
SAS DVTOTAL									
Less than .5 mph/kmph	00	00	00	00	00	000	000	000	000
Nearest mph/kmph	MPH	MPH	MPH	MPH	MPH	KMPH	KMPH	KMPH	KMPH
96.5 mph and above	97	97	97	97	97	-	-	-	-
159.5 kmph and above	-	-	-	-	-	160	160	160	160
Unknown	99	99	99	99	99	999	999	999	999
NASS Longitudinal Component of Delta V (+,-)									
SAS DVLONG									
>-.5 mph/kmph&<than +.5mph/kmph	00	00	00	00	00	000	000	000	000
Nearest mph/kmph	MPH	MPH	MPH	MPH	MPH	KMPH	KMPH	KMPH	KMPH
96.5 mph and above	97	97	97	97	97	-	-	-	-
159.5 kmph and above	-	-	-	-	-	160	160	160	160
Unknown	99	99	99	99	99	999	999	999	999
NASS Lateral Component of Delta V (+,-)									
SAS DVLAT									
>-.5mph/kmph&<than+.5mph/kmph	00	00	00	00	00	000	000	000	000
Nearest mph/kmph	MPH	MPH	MPH	MPH	MPH	KMPH	KMPH	KMPH	KMPH
96.5 mph and above	97	97	97	97	97	-	-	-	-
159.5 and above	-	-	-	-	-	160	160	160	160
Unknown	99	99	99	99	99	999	999	999	999

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Energy Absorption									
SAS ENERGY									
<50 foot-pounds	0000	0000	0000	0000	0000	-	-	-	-
Nearest 100 foot-pounds	FTLBS	FTLBS	FTLBS	FTLBS	FTLBS	-		-	-
999,650 ft-lbs or more	9997	9997	9997	9997	9997	-	-	-	-
<50 joules	-	-	-	-	-	0000	0000	0000	0000
Nearest 100 joules	-	-	-	-	-	JOULES	JOULES	JOULES	JOULES
99,650 Joules or more	-	-	-	-	-	9997	9997	9997	9997
Unknown	9999	9999	9999	9999	9999	9999	9999	9999	9999
NASS Confidence in Reconstruction Program Results (For Highest Delta V)									
SAS DVCONFID									
No reconstruction	0	0	0	0	0	0	0	0	0
Fits model-results appear reasonable	1	1	1	1	1	1	1	1	1
Fits model-results appear high	2	2	2	2	2	2	2	2	2
Fits model-results appear low	3	3	3	3	3	3	3	3	3
Borderline reconstruction-reasonable	4	4	4	4	4	4	4	4	4
NASS Type of Vehicle Inspection									
SAS INSPTYPE									
No inspection	0	0	0	0	0	0	0	0	0
Complete inspection	1	1	1	1	1	1	1	3	3
Partial inspection	2	2	2	2	2	2	2	2	2
Vehicle fully repaired	-	-	-	-	-	-	-	1	1
NASS Is This An AOPS Vehicle?									
SAS AOPSVEH									
No	-	-	0	0	0	0	0	0	0
Yes	-	-	1	1	1	1	1	1	1
VIN determined air bag system	-	-	-	-	-	2	2	2	2
VIN determined automatic belts	-	-	-	-	-	3	3	3	3
VIN determined air bag & auto belts	-	-	-	-	-	4	4	4	4
NASS Rollover Initiation Type									
SAS ROLINTYP									
No rollover	-	-	-	-	0	0	0	00	00
Trip over	-	-	-	-	1	1	1	01	01
Flip over	-	-	-	-	2	2	2	02	02
Turn over	-	-	-	-	3	3	3	03	03
Climb over	-	-	-	-	4	4	4	04	04
Fall over	-	-	-	-	5	5	5	05	05
Bounce over	-	-	-	-	6	6	6	06	06
Collision with another vehicle	-	-	-	-	7	7	7	07	07
Other rollover initiation type	-	-	-	-	8	8	8	08	08
Unknown type	-	-	-	-	9	9	9	99	99
Rollover - end over end	-	-	-	-	-	-	-	98	98

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Location of Rollover Initiation SAS ROLINLOC									
No rollover	-	-	-	-	0	0	0	0	0
On roadway	-	-	-	-	1	1	1	1	1
On shoulder - paved	-	-	-	-	2	2	2	2	2
On shoulder - unpaved	-	-	-	-	3	3	3	3	3
On roadside or divided trafficway	-	-	-	-	4	4	4	4	4
Unknown	-	-	-	-	9	9	9	9	9
Rollover - end over end	-	-	-	-	-	-	-	8	8
NASS Location on Vehicle Where Initial Principal Tripping Force is Applied SAS TRIPLOC									
No rollver	-	-	-	-	0	0	0	0	0
Wheels/tires	-	-	-	-	1	1	1	1	1
Side plane	-	-	-	-	2	2	2	2	2
End plane	-	-	-	-	3	3	3	3	3
Undercarriage	-	-	-	-	4	4	4	4	4
Other location	-	-	-	-	5	5	5	5	5
Non-contact rollover forces	-	-	-	-	8	8	8	6	6
Unknown	-	-	-	-	9	9	9	9	9
Rollover - end over end	-	-	-	-	-	-	-	8	8
NASS Rollover Initiation Object Contacted SAS ROLLOBJ									
No rollover	-	-	-	-	00	00	00	00	00
Vehicle number	-	-	-	-	01-30	01-30	01-30	01-30	01-30
Turn over	-	-	-	-	31	31	31	31	31
Jacknife	-	-	-	-	33	33	33	34	34
No rollover impact initiation	-	-	-	-	-	-	-	32	32
Tree < = 4in (10cm) in diameter	-	-	-	-	41	41	41	41	41
Tree > 4 in (10cm) in diameter	-	-	-	-	42	42	42	42	42
Shrubbery or bush	-	-	-	-	43	43	43	43	43
Embankment	-	-	-	-	44	44	44	44	44
Breakaway pole	-	-	-	-	45	45	45	45	45
Pole or post <= 4in (10cm) diameter	-	-	-	-	50	50	50	50	50
Pole or post > 4in (10cm) diameter	-	-	-	-	51	51	51	51	51
Pole or post >12in (30cm) diameter	-	-	-	-	52	52	52	52	52
Pole or post unknown diameter	-	-	-	-	53	53	53	53	53
Concrete traffic barrier	-	-	-	-	54	54	54	54	54
Impact attenuator	-	-	-	-	55	55	55	55	55
Other traffic barrier	-	-	-	-	56	56	56	56	56
Fence	-	-	-	-	57	57	57	57	57
Wall	-	-	-	-	58	58	58	58	58
Building	-	-	-	-	59	59	59	59	59
Ditch or culvert	-	-	-	-	60	60	60	60	60
Ground	-	-	-	-	61	61	61	61	61

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Fire hydrant	-	-	-	-	62	62	62	62	62
Curb	-	-	-	-	63	63	63	63	63
Bridge	-	-	-	-	64	64	64	64	64
Other fixed object	-	-	-	-	68	68	68	68	68
Unknown fixed object	-	-	-	-	69	69	69	69	69
PC, light truck, van not in transport	-	-	-	-	-	-	-	70	70
Motor vehicle not in transport -	-	-	-	71	71	71	-	-	
Med/heavy truck not in transport	-	-	-	-	-	-	-	71	71
Animal	-	-	-	-	76	76	76	76	76
Train	-	-	-	-	77	77	77	77	77
Trailer	-	-	-	-	78	78	78	78	78
Object fell from vehicle in transport	-	-	-	-	-	-	79	79	79
Other nonfixed object	-	-	-	-	88	88	88	88	88
Unknown nonfixed object	-	-	-	-	89	89	89	89	89
Other event	-	-	-	-	98	98	98	98	98
Unknown event or object	-	-	-	-	99	99	99	99	99

NASS Direction of Initial Roll
SAS ROLINDIR

No rollover	-	-	-	-	0	0	0	0	0
Roll right	-	-	-	-	1	1	1	1	1
Roll left	-	-	-	-	2	2	2	2	2
End over end	-	-	-	-	5	5	5	8	8
Unknown roll direction	-	-	-	-	9	9	9	9	9

NASS Pre-Event Movement (Prior to Recognition of Critical Event)
SAS PREMOVE

Going straight	-	-	-	-	01	01	01	01	01
Slowing or stopping in traffic lane	-	-	-	-	02	02	02	-	-
Decelerating in traffic lane	-	-	-	-	-	-	-	02	02
Accelerating in traffic lane	-	-	-	-	-	-	-	03	03
Starting in traffic lane	-	-	-	-	03	03	03	04	04
Stopped in traffic lane	-	-	-	-	04	04	04	05	05
Passing or overtaking another vehicle	-	-	-	-	05	05	05	06	06
Disabled or parked in travel lane	-	-	-	-	06	06	06	07	07
Leaving a parking position	-	-	-	-	07	07	07	08	08
Entering a parking position	-	-	-	-	08	08	08	09	09
Turning right	-	-	-	-	09	09	09	10	10
Turning left	-	-	-	-	10	10	10	11	11
Making a U turn	-	-	-	-	11	11	11	12	12
Backing-up	-	-	-	-	12	12	12	13	13
Negotiating a curve	-	-	-	-	13	13	13	14	14
Changing lanes	-	-	-	-	14	14	14	15	15
Merging	-	-	-	-	15	15	15	16	16
Successful avoidance maneuver	-	-	-	-	16	16	16	17	17
Other	-	-	-	-	97	97	97	97	97
No driver present	-	-	-	-	98	98	98	00	00
Unknown	-	-	-	-	99	99	99	99	99

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Critical Precrash Event SAS PREEVENT									
Vehicle Loss of Control due to									
Blow out or flat tire	-	-	-	-	01	01	01	01	01
Stalled engine	-	-	-	-	02	02	02	02	02
Disabling vehicle failure	-	-	-	-	03	03	03	03	03
Non-disabling vehicle problem	-	-	-	-	04	04	04	04	04
Poor road conditions	-	-	-	-	05	05	05	05	05
Traveling too fast for conditions	-	-	-	-	06	06	06	06	06
Other cause of control loss	-	-	-	-	08	08	08	08	08
Unknown cause of control loss	-	-	-	-	09	09	09	09	09
This Vehicle Traveling									
Over lane line on L side of travel lane	-	-	-	-	10	10	10	10	10
Over lane line on R side of travel lane	-	-	-	-	11	11	11	11	11
Off edge of road on the left side	-	-	-	-	12	12	12	12	12
Off edge of road on the right side	-	-	-	-	13	13	13	13	13
End departure	-	-	-	-	14	14	14	14	14
Turning left at intersection	-	-	-	-	15	15	15	15	15
Turning right at intersection	-	-	-	-	16	16	16	16	16
Crossing or passing thru intersection	-	-	-	-	17	17	17	17	17
Vehicle decelerating	-	-	-	-	-	-	-	18	18
Unknown travel direction	-	-	-	-	19	19	19	19	19
Other Motor Vehicle in Lane									
Stopped	-	-	-	-	50	50	50	50	50
Travelling same way w/lower speed	-	-	-	-	51	51	51	51	51
Travelling same way w/higher speed	-	-	-	-	52	52	52	53	53
Travelling same way decelerating	-	-	-	-	-	-	-	52	52
Travelling in opposite direction	-	-	-	-	53	53	53	54	54
In crossover	-	-	-	-	54	54	54	55	55
Backing	-	-	-	-	55	55	55	56	56
Unknown travel direction	-	-	-	-	59	59	59	59	59
Other Motor Vehicle Encroaching into Lane From									
Adjacent lane same way-over L lane	-	-	-	-	60	60	60	60	60
Adjacent lane same way- over R lane	-	-	-	-	61	61	61	61	61
Opposite way - over L lane line	-	-	-	-	62	62	62	62	62
Opposite way - over R lane line	-	-	-	-	63	63	63	63	63
Parking lane	-	-	-	-	64	64	64	64	64
Crossing street turn into same directn	-	-	-	-	65	65	65	65	65
Crossing street across path	-	-	-	-	66	66	66	66	66
Crossing street turn opposite direction	-	-	-	-	67	67	67	67	67
Crossing street path not known	-	-	-	-	68	68	68	68	68
Driveway turning into same direction	-	-	-	-	70	70	70	70	70
Driveway across path	-	-	-	-	71	71	71	71	71
Driveway turning opposite direction	-	-	-	-	72	72	72	72	72
Driveway intended path not known	-	-	-	-	73	73	73	73	73
Entrance to limited access highway	-	-	-	-	74	74	74	74	74
Encroachment by other vehicle	-	-	-	-	78	78	78	78	78

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Pedestrian or Pedalcyclist, or Other Nonmotorist									
Pedestrian in roadway	-	-	-	-	80	80	80	80	80
Pedestrian approaching roadway	-	-	-	-	81	81	81	81	81
Pedestrian-unknown location	-	-	-	-	82	82	82	82	82
Ped or nonmotorist in roadway	-	-	-	-	83	83	83	83	83
Ped/nonmotorist approaching roadway	-	-	-	-	84	84	84	84	84
Ped/nonmotorist - unknown location	-	-	-	-	85	85	85	85	85
Object or Animal									
Animal in roadway	-	-	-	-	87	87	87	87	87
Animal approaching roadway	-	-	-	-	88	88	88	88	88
Animal - unknown location	-	-	-	-	89	89	89	89	89
Object in roadway	-	-	-	-	90	90	90	90	90
Object approaching roadway	-	-	-	-	91	91	91	91	91
Object - unknown location	-	-	-	-	92	92	92	92	92
Other precrash event	-	-	-	-	98	98	98	98	98
Unknown	-	-	-	-	99	99	99	99	99

NASS SAS				Pre-Crash Stability After Avoidance Maneuver PRESTAB				Pre-Impact Stability PREISTAB	
No avoidance maneuver	-	-	-	-	0	0	0	-	-
Tracking	-	-	-	-	1	1	1	1	1
Skidding longitudinally	-	-	-	-	2	2	2	2	2
Skidding laterally - clockwise	-	-	-	-	3	3	3	3	3
Skidding laterally - counterclockwise	-	-	-	-	4	4	4	4	4
Other vehicle loss of control	-	-	-	-	7	7	7	7	7
No driver present	-	-	-	-	8	8	8	0	0
Precrash stability unknown	-	-	-	-	9	9	9	9	9

NASS				Pre Crash Directional Consequences of Avoidance Maneuver CONSEQ				Pre-Impact Location PREILOC	
No avoidance manuever	-	-	-	-	0	0	0	-	-
Veh in travl lane maneuver initiated	-	-	-	-	1	1	1	1	1
Veh not travl lane maneuver initiated	-	-	-	-	2	2	2	2	2
Veh on roadway unk if left travel lane	-	-	-	-	3	3	3	3	3
Veh departed roadway	-	-	-	-	4	4	4	4	4
Maneuver initiated off roadway	-	-	-	-	5	5	5	-	-
Remained off roadway	-	-	-	-	-	-	-	5	5
Returned to roadway	-	-	-	-	-	-	-	6	6
Entered roadway	-	-	-	-	-	-	-	7	7
No driver present	-	-	-	-	8	8	8	0	0
Directional consequences unknown	-	-	-	-	9	9	9	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Driver's Distraction Inattention to Driving									
SAS DRIVDIST									
No driver present	-	-	-	-	-	-	-	00	00
Attentive or not distracted	-	-	-	-	-	-	-	01	01
Looked but did not see	-	-	-	-	-	-	-	02	02
Distractions									
Other occupants	-	-	-	-	-	-	-	03	03
Moving object in vehicle	-	-	-	-	-	-	-	04	04
Talking on cellular phone	-	-	-	-	-	-	-	05	05
Dialing cellular phone	-	-	-	-	-	-	-	06	06
Adjusting climate controls	-	-	-	-	-	-	-	07	07
Adjusting radio, cassette, CD		-	-	-	-	-	-	08	08
Using other devices/controls	-	-	-	-	-	-	-	09	09
Sleepy or fell asleep	-	-	-	-	-	-	-	10	11
Using object brought into vehicle	-	-	-	-	-	-	-	-	10
Outside person/object/event	-	-	-	-	-	-	-	11	12
Eating or drinking	-	-	-	-	-	-	-	12	13
Smoking related	-	-	-	-	-	-	-	13	14
Details unknown	-	-	-	-	-	-	-	97	97
Other distraction	-	-	-	-	-	-	-	98	98
Unknown	-	-	-	-	-	-	-	99	99
NASS Air Bag Deployment, First Seat Frontal									
SAS BAGDEPFV									
Not equipped, not available	-	-	-	-	-	-	-	0	0
No air bag deployed	-	-	-	-	-	-	-	1	1
Single Air Bag Vehicle									
Driver air bag deployed	-	-	-	-	-	-	-	2	2
Driver air bag, unknown if deployed	-	-	-	-	-	-	-	3	3
Multiple Air Bag Vehicle									
Driver side only deployed	-	-	-	-	-	-	-	4	4
Passenger side only deployed	-	-	-	-	-	-	-	5	5
Driver & passenger side deployed	-	-	-	-	-	-	-	6	6
Driver/pass side unknown if deployed	-	-	-	-	-	-	-	7	7
Air bag deployed, details unknown	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Air Bag Deployment, Other Than First Seat Frontal									
SAS BAGDEPOV									
Not equipped with other air bag	-	-	-	-	-	-	-	0	0
Deployed during crash result of impact	-	-	-	-	-	-	-	1	1
Deployed inadvertently prior to crash	-	-	-	-	-	-	-	2	2
Deployed, details unknown	-	-	-	-	-	-	-	3	3
Deployed, result of noncollision event	-	-	-	-	-	-	-	4	4
Unknown if deployed	-	-	-	-	-	-	-	5	5
Non deployed	-	-	-	-	-	-	-	7	7
Unknown	-	-	-	-	-	-	-	9	9
NASS Impact Speed									
SAS IMPACTSP									
Less than 0.5 kmph	-	-	-	-	-	-	-	000	000
Nearest kmph	-	-	-	-	-	-	-	KMPH	KMPH
159.5 kmph and above	-	-	-	-	-	-	-	160	160
Trajectory algorithm not run	-	-	-	-	-	-	-	998	998
Unknown	-	-	-	-	-	-	-	999	999
NASS Barrier Equivalent Speed									
SAS BAREQSP									
Less than 0.5 kmph	-	-	-	-	-	-	-	000	000
Nearest kmph	-	-	-	-	-	-	-	KMPH	KMPH
159.5 kmph and above	-	-	-	-	-	-	-	160	160
Unknown	-	-	-	-	-	-	-	999	999
NASS Estimated Highest Delta V Researcher Determined									
SAS DVEST									
Reconstruction Delta V Codes	-	-	-	-	-	-	-	0	0
Estimated Delta V									
Less than 10 kmph	-	-	-	-	-	-	-	1	1
>=10 kmph but <25 kmph	-	-	-	-	-	-	-	2	2
>=25 kmph but <40 kmph	-	-	-	-	-	-	-	3	3
>=40 kmph but <55 kmph	-	-	-	-	-	-	-	4	4
>=55 kmph	-	-	-	-	-	-	-	5	5
Other estimates of damage severity									
Minor	-	-	-	-	-	-	-	6	6
Moderate -	-	-	-	-	-	-	7	7	
Severe	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Delta V Event Number SAS ACCSEQDV									
Crash event sequence number	-	-	-	-	-	-	-	Num.	Num.
Unknown	-	-	-	-	-	-	-	99	99
NASS Relation To Interchange Or Junction SAS RELINTER									
Non-interchange area & nonjunction	-	-	-	-	-	-	-	0	0
Interchange area related	-	-	-	-	-	-	-	1	1
Intersection related	-	-	-	-	-	-	-	2	2
Driveway, alley access related	-	-	-	-	-	-	-	3	3
Other junction	-	-	-	-	-	-	-	4	4
Unknown type of junction	-	-	-	-	-	-	-	5	5
Unknown	-	-	-	-	-	-	-	9	9
NASS Trafficway Flow SAS TRAFFLOW									
Not physically divided (2 way traffic)	-	-	-	-	-	-	-	0	0
Divided -median wo/positive barrier	-	-	-	-	-	-	-	1	1
Divided- median w/positive barrier	-	-	-	-	-	-	-	2	2
One way traffic	-	-	-	-	-	-	-	3	3
Unknown	-	-	-	-	-	-	-	9	9
NASS Number Of Travel Lanes SAS LANES									
One	-	-	-	-	-	-	-	1	1
Two	-	-	-	-	-	-	-	2	2
Three	-	-	-	-	-	-	-	3	3
Four	-	-	-	-	-	-	-	4	4
Five	-	-	-	-	-	-	-	5	5
Six	-	-	-	-	-	-	-	6	6
Seven or more	-	-	-	-	-	-	-	7	7
Unknown	-	-	-	-	-	-	-	9	9
NASS Roadway Alignment SAS ALIGNMNT									
Straight	-	-	-	-	-	-	-	1	1
Curve right	-	-	-	-	-	-	-	2	2
Curve left	-	-	-	-	-	-	-	3	3
Unknown	-	-	-	-	-	-	-	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Roadway Profile SAS PROFILE									
Level	-	-	-	-	-	-	-	1	1
Uphill grade (>2%)	-	-	-	-	-	-	-	2	2
Hill crest	-	-	-	-	-	-	-	3	3
Downhill grade (>2%)	-	-	-	-	-	-	-	4	4
Sag	-	-	-	-	-	-	-	5	5
Unknown	-	-	-	-	-	-	-	9	9
NASS Roadway Surface Type SAS SURTYPE									
Concrete	-	-	-	-	-	-	-	1	1
Bituminous (asphalt)	-	-	-	-	-	-	-	2	2
Brick or block	-	-	-	-	-	-	-	3	3
Slag, gravel or stone	-	-	-	-	-	-	-	4	4
Dirt	-	-	-	-	-	-	-	5	5
Other	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Roadway Surface Condition SAS SURCOND									
Dry	-	-	-	-	-	-	-	1	1
Wet	-	-	-	-	-	-	-	2	2
Snow or slush	-	-	-	-	-	-	-	3	3
Ice	-	-	-	-	-	-	-	4	4
Sand, dirt or oil	-	-	-	-	-	-	-	5	5
Other	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Light Conditions SAS LGTCOND									
Daylight	-	-	-	-	-	-	-	1	1
Dark	-	-	-	-	-	-	-	2	2
Dark, but lighted	-	-	-	-	-	-	-	3	3
Dawn	-	-	-	-	-	-	-	4	4
Dusk	-	-	-	-	-	-	-	5	5
Unknown	-	-	-	-	-	-	-	9	9

GENERAL VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Atmospheric Conditions SAS WEATHER									
No adverse atmospheric conditions	-	-	-	-	-	-	-	0	0
Rain	-	-	-	-	-	-	-	1	1
Sleet/hail	-	-	-	-	-	-	-	2	2
Snow	-	-	-	-	-	-	-	3	3
Fog	-	-	-	-	-	-	-	4	4
Rain and fog	-	-	-	-	-	-	-	5	5
Sleet and fog	-	-	-	-	-	-	-	6	6
Other	-	-	-	-	-	-	-	7	7
Unknown	-	-	-	-	-	-	-	9	9
NASS Traffic Control Device SAS TRAFCONT									
No traffic controls	-	-	-	-	-	-	-	0	0
Traffic control signal	-	-	-	-	-	-	-	1	1
Stop sign	-	-	-	-	-	-	-	2	2
Yield sign	-	-	-	-	-	-	-	3	3
School zone sign	-	-	-	-	-	-	-	4	4
Other regulatory sign	-	-	-	-	-	-	-	5	5
Warning sign (not RR crossing)	-	-	-	-	-	-	-	6	6
Unknown sign	-	-	-	-	-	-	-	7	7
Miscellaneous/other controls	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Traffic Control Device Functioning SAS TRCTLFCT									
No traffic control device	-	-	-	-	-	-	-	0	0
TC device not functioning	-	-	-	-	-	-	-	1	1
TC device functioning properly	-	-	-	-	-	-	-	2	2
Unknown	-	-	-	-	-	-	-	9	9

GENERAL VEHICLE DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS SAS	Case Number - Stratum CASEID	x	x	x	x	x	x	x	x	x
NASS SAS	Front/Rear Wheel Drive DRIVE	x	x	x	x	x	x	x	x	x
Rear wheel drive		1	1	1	1	1	1	1	1	1
Front wheel drive		2	2	2	2	2	2	2	2	2
Not applicable, not a passenger car		8	8	8	8	8	8	8	8	8
Unknown (four wheel drive potential)		9	9	9	9	9	9	9	9	9
NASS SAS	National Inflation Factor NATWGT	x	x	x	x	-	-	-	-	-
NASS SAS	PSU Inflation Factor PSUWGT	x	x	x	x	-	-	-	-	-
NASS SAS	Ratio Inflation Factor RATWGT	-	-	x	x	x	x	x	x	x
NASS SAS	Case Stratum STRATIF									
A		x	x	x	x	x	x	x	x	x
B		x	x	x	x	x	x	x	x	x
C		x	x	x	x	x	x	x	x	x
D		x	x	x	x	x	x	x	x	x
E		x	x	x	x	x	x	x	x	x
F		x	x	x	x	x	x	x	x	x
G		x	x	x	x	x	x	x	x	x
H		x	x	x	x	x	x	x	x	x
J		-	-	-	x	x	x	x	x	x
K		-	-	-	x	x	x	x	x	x
Y		x	-	-	-	-	-	-	-	-
Z		x	-	-	-	-	-	-	-	-
NASS SAS	Maximum Known AIS In This Vehicle VAIS									
Not injured		0	0	0	0	0	0	0	0	0
Minor injury		1	1	1	1	1	1	1	1	1
Moderate injury		2	2	2	2	2	2	2	2	2
Serious injury		3	3	3	3	3	3	3	3	3
Severe injury		4	4	4	4	4	4	4	4	4
Critical injury		5	5	5	5	5	5	5	5	5
Maximum (untreatable) injury 6		6	6	6	6	6	6	6	6	
Injury, unknown severity		7	7	7	7	7	7	7	7	7
Unknown if injured		9	9	9	9	9	9	9	9	9
Not collected		.	.	.	.	.	.	.	.	.

GENERAL VEHICLE DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Version	x	x	x	x	x	x	x	x	x
SAS	VERSION									
NASS	Number Seriously Injured In This Vehicle	x	x	x	x	x	x	x	x	x
SAS	VINJSER									
NASS	Number Injured In This Vehicle	x	x	x	x	x	x	x	x	x
SAS	VINJURED									
NASS	VIN Length	x	x	x	x	x	x	x	x	x
SAS	VINLNGTH									
NASS	Maximum Treatment In This Vehicle	x	x	x	x	x	x	x	x	x
SAS	VTREAT									
No treatment		0	0	0	0	0	0	0	0	0
Fatal		1	1	1	1	1	1	1	1	1
Fatal - ruled disease		2	2	2	2	2	2	2	2	2
Hospitalized		3	3	3	3	3	3	3	3	3
Transported and released		4	4	4	4	4	4	4	4	4
Treatment at scene		5	5	5	5	5	5	5	5	5
Treatment later		6	6	6	6	6	6	6	6	6
Treatment other		7	7	7	7	7	7	7	7	7
Transported to medical facility, unknown if treated		8	8	8	8	8	8	8	8	8
Unknown		9	9	9	9	9	9	9	9	9
Not collected		.	.	.	.	.	.	.	.	.
NASS	AOPS Vehicle	-	x	x	x	x	x	x	x	x
SAS	AOPSVEH									
NASS	VINA Body Type Of The Other Vehicle									
SAS	OTBDYTYP									
Check Analytic Users Manual for codes		-	-	-	-	x	x	x	x	x
NASS	VINA Weight Of The Other Vehicle	-	-	-	-	x	x	x	x	x
SAS	OTVEHWGT									
045		-	-	-	-	LESS THAN 450 KILOGRAMS				
046 - 609		-	-	-	-	460 - 6090 KILOGRAMS				
610		-	-	-	-	6100 KILOGRAMS OR MORE				

GENERAL VEHICLE DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS PSU Stratum	-	-	-	-	x	x	x	x	x
SAS PSUSTRAT									
NASS VINA Antilock Brakes									
SAS ANTILOCK									
Not available	-	-	-	-	-	-	-	1	1
Four wheel standard	-	-	-	-	-	-	-	2	2
Rear only standard	-	-	-	-	-	-	-	3	3
ABS standard, wheels unknown	-	-	-	-	-	-	-	4	4
Four wheel optional	-	-	-	-	-	-	-	5	5
Rear only optional	-	-	-	-	-	-	-	6	6
ABS optional, wheels unknown	-	-	-	-	-	-	-	7	7
Unknown	-	-	-	-	-	-	-	8	8
NASS VINA Carburetion									
SAS CARBUR									
Check Analytic Users Manual for codes	-	-	-	-	-	-	-	x	x
NASS Daylight Running Lights									
SAS DAYRUNLT									
Standard	S	S	S	S	S	S	S	S	S
Optional	O	O	O	O	O	O	O	O	O
Not available	N	N	N	N	N	N	N	N	N
Unknown	U	U	U	U	U	U	U	U	U
NASS VINA Four Wheel Drive									
SAS FOURWHDR									
No	-	-	-	-	-	-	-	N	N
Yes	-	-	-	-	-	-	-	Y	Y
Some vehicles of this series	-	-	-	-	-	-	-	*	*
NASS VINA Front Wheel Drive									
SAS FRTWHLDR									
No	-	-	-	-	-	-	-	N	N
Yes	-	-	-	-	-	-	-	Y	Y
Some vehicles of this series	-	-	-	-	-	-	-	*	*

GENERAL VEHICLE DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS VINA Fuel Code SAS FUELCODE									
Diesel	-	-	-	-	-	-	-	D	D
Electric	-	-	-	-	-	-	-	E	E
Flexible Fuel	-	-	-	-	-	-	-	F	F
Gas	-	-	-	-	-	-	-	G	G
Compressed natural gas	-	-	-	-	-	-	-	N	N
Propane	-	-	-	-	-	-	-	P	P
NASS VINA Motorcycle Engine Displacement SAS MYCLDS	-	-	-	-	-	-	-	x	x
NASS VINA Restraint Type SAS Restype									
Active (manual) belts	-	-	-	-	-	-	-	A	A
Driver front airbag/pass side belt unk	-	-	-	-	-	-	-	B	B
Dual front airbag/belt system unknown	-	-	-	-	-	-	-	C	C
Dual front airbag/pass side passive belt	-	-	-	-	-	-	-	D	D
Dual front airbag/active belts	-	-	-	-	-	-	-	E	E
Dual front airbag/passive belts	-	-	-	-	-	-	-	F	F
Dual air bags front & side/belts unk	-	-	-	-	-	-	-	G	G
Dual air bags front, head and sides, belts unknown	-	-	-	-	-	-	-	H	H
Dual air bags front, head and sides, passive belts	-	-	-	-	-	-	-	I	I
Dual air bags front & sides, passive belts	-	-	-	-	-	-	-	J	J
Dual air bags front & sides, active belts	-	-	-	-	-	-	-	K	K
Dual air bags front, head and sides, active belts	-	-	-	-	-	-	-	L	L
Driver front air bag/pass side active blt	-	-	-	-	-	-	-	M	M
Passive (automatic) belts	-	-	-	-	-	-	-	P	P
NASS VINA Roof Type SAS ROOF1									
None/not available	-	-	-	-	-	-	-	1	1
Manual sun/moonroof	-	-	-	-	-	-	-	2	2
Power sun/moonroof	-	-	-	-	-	-	-	3	3
Removeable panels	-	-	-	-	-	-	-	4	4
Removeable roof	-	-	-	-	-	-	-	5	5
Retractable roof panel	-	-	-	-	-	-	-	6	6
Other/unknown	-	-	-	-	-	-	-	7	7

GENERAL VEHICLE DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Optional Roof 1 SAS ROOF2									
None/not available	-	-	-	-	-	-	-	1	1
Manual sun/moonroof	-	-	-	-	-	-	-	2	2
Power sun/moonroof	-	-	-	-	-	-	-	3	3
Removeable panels	-	-	-	-	-	-	-	4	4
Removeable roof	-	-	-	-	-	-	-	5	5
Retractable roof panel	-	-	-	-	-	-	-	6	6
Other/unknown	-	-	-	-	-	-	-	7	7
NASS Optional Roof 2 SAS ROOF3									
None/not available	-	-	-	-	-	-	-	1	1
Manual sun/moonroof	-	-	-	-	-	-	-	2	2
Power sun/moonroof	-	-	-	-	-	-	-	3	3
Removeable panels	-	-	-	-	-	-	-	4	4
Removeable roof	-	-	-	-	-	-	-	5	5
Retractable roof panel	-	-	-	-	-	-	-	6	6
Other/unknown	-	-	-	-	-	-	-	7	7
NASS VINA Series Truck SAS SERTR	-	-	-	-	-	-	-	x	x
NASS VINA Type of Vehicle SAS VEHTYPE	-	-	-	-	-	-	-	x	x
NASS VINA Vehicle Weight Car SAS VEHWGT	-	-	-	-	-	-	-	x	x
NASS VINA Model Cars SAS VINAMOD	-	-	-	-	-	-	-	x	x
NASS VINA Body Type SAS VINBT									
Check Analytic Users Manual for codes	-	-	-	-	-	-	-	x	x
NASS VINA Make SAS VINMAKE	-	-	-	-	-	-	-	x	x
NASS VINA Model Year SAS VINMODYR	-	-	-	-	-	-	-	x	x
NASS VINO SAS VINO	-	-	-	-	-	-	-	x	x

GENERAL VEHICLE DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS SAS	VINA Truck Weight Code WGTCDTR	-	-	-	-	-	-	-	x	x
NASS SAS	Number Wheels/Number Of Drive Wheels WHLDRWHL	-	-	-	-	-	-	-	x	x

INTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Passenger Compartment Integrity SAS PASINTEG									
No integrity loss	00	00	00	00	00	00	00	00	00
Windshield	01	01	01	01	01	01	01	01	01
Door (side)	02	02	02	02	02	02	02	02	02
Door/hatch (rear)	03	03	03	03	03	03	03	03	03
Roof	04	04	04	04	04	04	04	04	04
Roof glass	05	05	05	05	05	05	05	05	05
Side window	06	06	06	06	06	06	06	06	06
Rear window	07	07	07	07	07	07	07	07	07
Roof and roof glass	08	08	08	08	08	08	08	08	08
Windshield and door (side)	09	09	09	09	09	09	09	09	09
Windshield and roof	10	10	10	10	10	10	10	10	10
Side and rear window	11	11	11	11	11	11	11	11	11
Windshield and side window	-	12	12	12	12	12	12	12	12
Door and side window	-	13	13	13	13	13	13	13	13
Other combination of above	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99
NASS Door, Tailgate or Hatch Opening - LF, RF, LR, RR, Tailgate/Hatch SAS OPENLF OPENRF OPENLR OPENRR OPENTG									
No door/gate/hatch	0	0	0	0	0	0	0	0	0
Door/gate/hatch remained closed and operational	1	1	1	1	1	1	1	1	1
Door/gate/hatch came open during collision	2	2	2	2	2	2	2	2	2
Door/gate/hatch jammed shut	3	3	3	3	3	3	3	3	3
Other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Door Damage/Failure - Opening in Collision - LF, RF, LR, RR, Tailgate/Hatch SAS FAILLF FAILRF FAILLR FAILRR FAILTG									
No door/gate/hatch or door not opened	0	0	0	0	0	0	0	0	0
Door operational (no damage) 1	1	1	1	1	1	1	1	1	
Latch/striker failure due to damage	2	2	2	2	2	2	2	2	2
Hinge failure due to damage	3	3	3	3	3	3	3	3	3
Door structure failure due to damage	4	4	4	4	4	4	4	4	4
Door support failure due to damage	5	5	5	5	5	5	5	5	5
Latch/striker and hinge failure due to damage	6	6	6	6	6	6	6	6	6
Other failure	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9

INTERIOR VEHICLE FORM

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Glazing Damage From Impact Forces - WS, LF, RF, LR, RR, Backlight, Roof, Other									
SAS	GLIMPWS GLIMPLF GLIMPRF GLIMPLR GLIMPRR GLIMPBL GLIMPRUF GLIMPOTH									
No glazing damage from impact forces		0	0	0	0	0	0	0	1	1
Glazing in place and cracked from impact forces		2	2	2	2	2	2	2	2	2
Glazing in place and holed from impact forces		3	3	3	3	3	3	3	3	3
Glazing out-of-place (cracked or not) and not holed from impact forces		4	4	4	4	4	4	4	4	4
Glazing out-of-place and holed from impact forces		5	5	5	5	5	5	5	5	5
Glazing disintegrated from impact forces		6	6	6	6	6	6	6	6	6
Glazing removed prior to accident		7	7	7	7	7	7	7	7	7
No glazing		8	8	8	8	8	8	8	0	0
Unknown if damaged		9	9	9	9	9	9	9	9	9

INTERIOR VEHICLE FORM

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Glazing Damage From Occupant Contact - WS, LF, RF, LR, RR, Backlight, Roof, Other									
SAS	GLOCCWS GLOCCLF GLOCCRF GLOCCLR GLOCCRR GLOCCBL GLOCCRUF GLOCCOTH									
No occupant contact to glazing or no glazing		0	0	0	0	0	0	0	-	-
No glazing		-	-	-	-	-	-	-	0	0
No occupant contact to glazing		-	-	-	-	-	-	-	1	1
Glazing contacted by occupant but no glazing damage		1	1	1	1	1	1	1	2	2
Glazing in place and cracked by occupant contact		2	2	2	2	2	2	2	3	3
Glazing in place and holed by occupant contact		3	3	3	3	3	3	3	4	4
Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact		4	4	4	4	4	4	4	5	5
Glazing out-of-place by occupant contact and holed by occupant contact		5	5	5	5	5	5	5	6	6
Glazing disintegrated by occupant contact		6	6	6	6	6	6	6	8	8
Glazing removed prior to accident		-	-	-	-	-	-	-	7	7
Unknown if contacted by occupant		9	9	9	9	9	9	9	9	9

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Window Precrash Glazing Status - WS, LF, RF, LR, RR, Backlight, Roof, Other									
SAS	GLPREWS GLPRELF GLPRERF GLPRELR GLPRERR GLPREBL GLPRERUF GLPREOTH									
No glazing contact and no damage, or no glazing		0	0	0	0	0	0	0	-	-
No glazing		-	-	-	-	-	-	-	0	0
Fixed		1	1	1	1	1	1	1	1	1
Closed		2	2	2	2	2	2	2	2	2
Paritally opened		3	3	3	3	3	3	3	3	3
Fully opened		4	4	4	4	4	4	4	4	4
Glazing removed prior to accident		-	-	-	-	-	-	-	7	7
Unknown		9	9	9	9	9	9	9	9	9

INTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Type of Window/Windsield Glazing - WS, LF, RF, LR, RR, Backlight, Roof, Other									
SAS GLTYPWS GLTYPLF GLTYPRF GLTYPLR GLTYPRR GLTYPBL GLTYPRUF GLTYPOTH									
No glazing contact and no damage, or no glazing	0	0	0	0	0	0	0	-	-
No glazing	-	-	-	-	-	-	-	0	0
AS-1 - Laminated	1	1	1	1	1	1	1	1	1
AS-2 - Tempered	2	2	2	2	2	2	2	2	2
AS-3 - Tempered - tinted (original)	3	3	3	3	3	3	3	3	3
AS-2 - Tempered - w/after market tint	-	-	-	-	-	-	-	4	4
AS-3 - Tempered - tinted (w/additional after market tint)	-	-	-	-	-	-	-	5	5
AS-14 - Glass/Plastic	4	4	4	4	4	4	4	6	6
Glazing removed prior to accident	-	-	-	-	-	-	-	7	7
Other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9

NASS Location of Intrusion 1st - 10th									
SAS INLOC1, INLOC2 INLOC3, INLOC4 INLOC5, INLOC6 INLOC7, INLOC8 INLOC9, INLOC10									
Front seat left	11	11	11	11	11	11	11	11	11
Front seat middle	12	12	12	12	12	12	12	12	12
Front seat right	13	13	13	13	13	13	13	13	13
Second seat left	21	21	21	21	21	21	21	21	21
Second seat middle	22	22	22	22	22	22	22	22	22
Second seat right	23	23	23	23	23	23	23	23	23
Third seat left	31	31	31	31	31	31	31	31	31
Third seat middle	32	32	32	32	32	32	32	32	32
Third seat right	33	33	33	33	33	33	33	33	33
Fourth seat left	41	41	41	41	41	41	41	41	41
Fourth seat middle	42	42	42	42	42	42	42	42	42
Fourth seat right	43	43	43	43	43	43	43	43	43
Catastrophic	-	-	97	97	97	97	97	97	97
Other enclosed area	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99

INTERIOR VEHICLE FORM

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Intruding Component - 1st - 10th									
SAS	INCOMP1, INCOMP2 INCOMP3, INCOMP4 INCOMP5, INCOMP6 INCOMP7, INCOMP8 INCOMP9, INCOMP10									
<u>Interior Components</u>										
Steering assembly		01	01	01	01	01	01	01	01	01
Instrument panel left		02	02	02	02	02	02	02	02	02
Instrument panel center		03	03	03	03	03	03	03	03	03
Instrument panel right		04	04	04	04	04	04	04	04	04
Toe pan		05	05	05	05	05	05	05	05	05
A - pillar		06	06	06	06	06	06	06	06	06
B - pillar		07	07	07	07	07	07	07	07	07
C - pillar		08	08	08	08	08	08	08	08	08
D - pillar		09	09	09	09	09	09	09	09	09
Door panel		10	10	10	10	10	10	10	11	11
Side panel/kickpanel		11	-	-	-	-	-	-	-	-
Roof (or convertible top)		12	12	12	12	12	12	12	13	13
Roof side rail		13	13	13	13	13	13	13	14	14
Windshield		14	14	14	14	14	14	14	15	15
Windshield header		15	15	15	15	15	15	15	16	16
Window frame		16	16	16	16	16	16	16	17	17
Floor pan		17	17	17	17	17	17	17	18	18
Backlight header		18	18	18	18	18	18	18	19	19
Front seat back		19	19	19	19	19	19	19	20	20
Second seat back		20	20	20	20	20	20	20	21	21
Third seat back		21	21	21	21	21	21	21	22	22
Fourth seat back		22	22	22	22	22	22	22	23	23
Fifth seat back		23	23	23	23	23	23	23	24	24
Seat cushion		24	24	24	24	24	24	24	25	25
Back panel or door surface (e.g. tailgate)		25	25	25	25	25	25	25	26	26
Other interior components		26	26	26	26	26	26	26	27	27
Side panel forward of the A pillar		-	27	27	27	27	27	27	10	10
Side panel rear of the A pillar		-	28	28	28	28	28	28	-	-
Side panel rear of the B pillar		-	-	-	-	-	-	-	12	12
<u>Exterior Components</u>										
Hood		30	30	30	30	30	30	30	30	30
Outside surface of vehicle		31	31	31	31	31	31	31	31	31
Other exterior object in the environment		32	32	32	32	32	32	32	32	32
Unknown exterior object		33	33	33	33	33	33	33	33	33
Catastrophic		-	-	97	97	97	97	97	97	97
Intrusion of unlisted component		98	98	98	98	98	98	98	98	98
Unknown		99	99	99	99	99	99	99	99	99

INTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Magnitude of Intrusion - 1st - 10th									
SAS INMAG1, INMAG2 INMAG3, INMAG4 INMAG5, INMAG6 INMAG7, INMAG8 INMAG9, INMAG10									
$ 1 inch but < 3 inches	1	1	1	1	1	-	-	-	-
$ 3 cm but < 8 cm	-	-	-	-	-	1	1	1	1
$ 3 inches but < 6 inches	2	2	2	2	2	-	-	-	-
$ 8 cm but < 15 cm	-	-	-	-	-	2	2	2	2
$ 6 inches but < 12 inches	3	3	3	3	3	-	-	-	-
$ 15 cm but < 30 cm	-	-	-	-	-	3	3	3	3
$ 12 inches but < 18 inches	4	4	4	4	4	-	-	-	-
$ 30 cm but < 46 cm	-	-	-	-	-	4	4	4	4
$ 18 inches but < 24 inches	5	5	5	5	5	-	-	-	-
$ 46 cm but < 61 cm	-	-	-	-	-	5	5	5	5
$ 24 inches	6	6	6	6	6	-	-	-	-
$ 61 cm	-	-	-	-	-	6	6	6	6
Catastrophic	-	7	7	7	7	7	7	7	7
Unknown	9	9	9	9	9	9	9	9	9

centimeters = inches x 2.54

NASS Dominant Crush Direction (of intrusion) - 1st - 10th									
SAS CDRIR1, CDRIR2 CDRIR3, CDRIR4 CDRIR5, CDRIR6 CDRIR7, CDRIR8 CDRIR9, CDRIR10									
Vertical	1	1	1	1	1	1	1	1	1
Longitudinal	2	2	2	2	2	2	2	2	2
Lateral	3	3	3	3	3	3	3	3	3
Catastrophic	-	-	7	7	7	7	7	7	7
Unknown	9	9	9	9	9	9	9	9	9

NASS Steering Column Type									
SAS COLUMTYP									
Fixed column	1	1	1	1	1	1	1	1	1
Tilt Column	2	2	2	2	2	2	2	2	2
Telescoping column	3	3	3	3	3	3	3	3	3
Tilt and telescoping	4	4	4	4	4	4	4	4	4
Other column type	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Tilt Steering Column Adjustment									
SAS COLMTILT									
No tilt steering column	-	-	-	-	-	-	-	0	0
Full up	-	-	-	-	-	-	-	1	1
Between full up and center	-	-	-	-	-	-	-	2	2
Center	-	-	-	-	-	-	-	3	3
Between center and full down	-	-	-	-	-	-	-	4	4
Full down	-	-	-	-	-	-	-	5	5
Unknown	-	-	-	-	-	-	-	9	9
NASS Telescoping Steering Column Adjustment									
SAS COLMTELE									
No telescoping steering column	-	-	-	-	-	-	-	0	0
Full back	-	-	-	-	-	-	-	1	1
Between full back and midpoint	-	-	-	-	-	-	-	2	2
Midpoint	-	-	-	-	-	-	-	3	3
Between midpoint and full forward	-	-	-	-	-	-	-	4	4
Full forward	-	-	-	-	-	-	-	5	5
Unknown	-	-	-	-	-	-	-	9	9
NASS Steering Column Collapse due to Occupant Loading									
SAS COLMOVE									
No movement, compression, or collapse	00	00	00	-	-	-	-	-	-
Code actual movement up to 49"	in	in	in	-	-	-	-	-	-
50 inches or greater	50	50	50	-	-	-	-	-	-
Estimated Movement from Observation									
Less than 1 inch	81	81	81	-	-	-	-	-	-
$ 1 inch but < 2 inches	82	82	82	-	-	-	-	-	-
$ 2 inches but < 4 inches	83	83	83	-	-	-	-	-	-
$ 4 inches but < 6 inches	84	84	84	-	-	-	-	-	-
$ 6 inches but < 8 inches	85	85	85	-	-	-	-	-	-
Greater than or equal to 8 inches	86	86	86	-	-	-	-	-	-
Not assessed (PDOF … 11, 12, 1)	-	96	96	-	-	-	-	-	-
Apparent movement, value undetermined or cannot be measured or estimated	97	97	97	-	-	-	-	-	-
Nonspecified type column	98	98	98	-	-	-	-	-	-
Unknown	99	99	99	-	-	-	-	-	-

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Steering Column Vertical/ Lateral/Longitudinal Movement									
SAS COLVERT, COLLAT, COLLONG									
No steering column movement	+00	+00	+00	-	-	-	-	-	-
Actual measured value up to 49"	±in	±in	±in	-	-	-	-	-	-
50 inches or greater	±50	±50	±50	-	-	-	-	-	-
Estimated Movement from Observation									
$ 1 inch but < 3 inches	±81	±81	±81	-	-	-	-	-	-
$ 3 inches but < 6 inches	±82	±82	±82	-	-	-	-	-	-
$ 6 inches but < 12 inches	±83	±83	±83	-	-	-	-	-	-
Greater than or equal to 12 inches	±84	±84	±84	-	-	-	-	-	-
Not assessed (PDOF … 11, 12, 1)	-	96	96	-	-	-	-	-	-
Apparent movement > 1 inch, but cannot be measured or estimated	97	97	97	-	-	-	-	-	-
Unknown	99	99	99	-	-	-	-	-	-

NASS Steering Rim/Spoke Deformation									
SAS RIMDEF									
No steering rim deformation	0	0	0	0	0	00	00	00	00
Actual measured value (up to 5 inches or 14 centimeters)	in	in	in	in	in	cm	cm	cm	cm
6 inches or more/15 cm.s or more	6	6	6	6	6	15	15	15	15
Observed deformation cannot be measured	8	8	8	8	8	98	98	98	98
Unknown	9	9	9	9	9	99	99	99	99

centimeters = inches x 2.54

NASS Location of Steering Rim/ Spoke Deformation									
SAS RDEFLOC									
No steering rim deformation									
Quarter Sections									
Section A	01	01	01	01	01	01	01	01	01
Section B	02	02	02	02	02	02	02	02	02
Section C	03	03	03	03	03	03	03	03	03
Section D	04	04	04	04	04	04	04	04	04
Half Sections									
Upper half of rim/spoke	05	05	05	05	05	05	05	05	05
Lower half of rim/spoke	06	06	06	06	06	06	06	06	06
Left half of rim/spoke	07	07	07	07	07	07	07	07	07
Right half of rim/spoke	08	08	08	08	08	08	08	08	08
Complete steering wheel collapse	09	09	09	09	09	09	09	09	09
Undetermined location	10	10	10	10	10	10	10	10	10
Unknown	99	99	99	99	99	99	99	99	99

INTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Odometer Reading									
SAS ODOMETER									
No Odometer									
Less than 1,500 miles	001	001	001	001	001	-	-	-	-
Less than 1,500 kilometers	-	-	-	-	-	001	001	001	001
Code miles to nearest 1,000 miles (up to 299,499) ÷ 1,000	mi	mi	mi	mi	mi	-	-	-	-
Code kilometers to nearest 1,000 kilometers (up to 499,499) ÷ 1,000	-	-	-	-	-	km	km	km	km
299,500 miles or more	300	300	300	300	300	-	-	-	-
499,500 kilometers or more	-	-	-	-	-	500	500	500	500
Unknown	999	999	999	999	999	999	999	999	999
kilometers = miles x 1.6093									
NASS Instrument Panel Damage from Occupant Contact									
SAS PANELDAM									
No	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1
Unkknown	9	9	9	9	9	9	9	9	9
NASS Did Glove Compartment Door Open During Collision(s)									
SAS GLOVOPEN									
No/No - door did not open	0	0	0	0	0	0	0	1	1
Yes/Yes - door opened	1	1	1	1	1	1	1	2	2
Not present/No glove compartment door	8	8	8	8	8	8	8	0	0
Unknown	9	9	9	9	9	9	9	9	9
NASS Type of Knee Bolster Covering									
SAS BOLSTYPE									
No knee bolster	-	-	-	-	-	-	-	0	0
Padded	-	-	-	-	-	-	-	1	1
Rigid Plastic	-	-	-	-	-	-	-	2	2
Other	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Knee Bolsters Deformed from Occupant Contact									
SAS BOLSTDEF									
No/No knee bolster	0	0	0	0	0	0	0	1	1
Yes/Yes - deformation	1	1	1	1	1	1	1	2	2
Not Present	8	8	8	8	8	8	8	0	0
Unknown	9	9	9	9	9	9	9	9	9

INTERIOR VEHICLE FORM

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	Adaptive (Assistive) Driving Equipment									
SAS	ADAPTEQ									
No adaptive driving equipment		-	-	-	-	-	-	-	0	0
Adaptive driving equipment installed		-	-	-	-	-	-	-	1	1
Unknown		-	-	-	-	-	-	-	9	9

INTERIOR VEHICLE FORM DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS SAS	PSU Inflation Factor PSUWGT	x	x	x	x	-	-	-	-	-
NASS SAS	PSU Stratum PSUSTRAT	-	-	-	-	x	x	x	x	x-
NASS SAS	National Inflation Factor NATWGT	x	x	x	x	-	-	-	-	-
NASS SAS	Ratio Inflation Factor RATWGT	-	-	x	x	x	x	x	x	x
NASS SAS	Case Sequence Number CASENO	x	x	x	x	x	x	x	x	x
NASS SAS	Case Stratum STRATIF									
A		x	x	x	x	x	x	x	x	x
B		x	x	x	x	x	x	x	x	x
C		x	x	x	x	x	x	x	x	x
D		x	x	x	x	x	x	x	x	x
E		x	x	x	x	x	x	x	x	x
F		x	x	x	x	x	x	x	x	x
G		x	x	x	x	x	x	x	x	x
H		x	x	x	x	x	x	x	x	x
J		-	-	-	x	x	x	x	x	x
K		-	-	-	x	x	x	x	x	x
Y		x	-	-	-	-	-	-	-	-
Z		x	-	-	-	-	-	-	-	-
NASS SAS	Version Number VERSION									
Version number		1	2	3	4	5	6	7	8	9

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Accident Event Sequence Number (Highest)									
Accident Event Sequence Number (2nd Highest)									
SAS ACCSEQ1									
ACCSEQ2									
Code event number for highest delta V	EN	EN	EN	EN	EN	EN	EN	EN	EN
Unknown	99	99	99	99	99	99	99	99	99
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank
(EN = event number)									
NASS Object Contacted (Highest)									
Object Contacted (2nd Highest)									
SAS OBJCONT1									
OBJCONT2									
Vehicle number	01-30	01-30	01-30	01-30	01-30	01-30	01-30	01-30	01-30
<u>Noncollision</u>									
Overturn - rollover	31	31	31	31	31	31	31	31	31
Rollover -- end-over-end	-	-	-	-	-	-	-	32	32
Fire or explosion	32	32	32	32	32	32	32	33	33
Jackknife 33	33	33	33	33	33	33	34	34	
Other intraunit damage	34	34	34	34	34	34	34	35	35
Noncollision injury	35	35	35	35	35	35	35	36	36
Other noncollision	38	38	38	38	38	38	38	38	38
Noncollision - details unknown	39	39	39	39	39	39	39	39	39
<u>Collision With Fixed Object</u>									
Tree #4" diameter (#10cm)	41	41	41	41	41	41	41	41	41
Tree >4" diameter (>10cm)	42	42	42	42	42	42	42	42	42
Shrubbery or bush	43	43	43	43	43	43	43	43	43
Embankment	44	44	44	44	44	44	44	44	44
Breakaway pole or post	45	45	45	45	45	45	45	45	45
<u>Nonbreakaway Pole or Post</u>									
Pole or post #4" diameter (#10cm)	50	50	50	50	50	50	50	50	50
Pole or post >4 but #12" in diameter (>10 but #30cm)	51	51	51	51	51	51	51	51	51
Pole or post >12" in diameter (>30cm)	52	52	52	52	52	52	52	52	52
Pole or post diameter unknown	53	53	53	53	53	53	53	53	53
Concrete traffic barrier	54	54	54	54	54	54	54	54	54
Impact attenuator	55	55	55	55	55	55	55	55	55
Other traffic barrier	56	56	56	56	56	56	56	56	56
Fence wall building	57	57	57	57	57	57	57	57	57
Ditch or culvert	60	60	60	60	60	60	60	60	60
Ground	61	61	61	61	61	61	61	61	61
Fire Hydrant	62	62	62	62	62	62	62	62	62
Curb	63	63	63	63	63	63	63	63	63
Bridge	64	64	64	64	64	64	64	64	64
Other fixed object	68	68	68	68	68	68	68	68	68
Unknown fixed object	69	69	69	69	69	69	69	69	69

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
Collision with nonfixed object									
Passenger car, light truck, van or other vehicle not in transport	-	-	-	-	-	-	-	70	70
Medium/heavy truck not in transport	-	-	-	-	-	-	-	71	71
Motor vehicle not in transport	71	71	71	71	71	71	71	-	-
Pedestrian	72	72	72	72	72	72	72	72	72
Cyclist or cycle	73	73	73	73	73	73	73	73	73
Other nonmotorist or conveyance	74	74	74	74	74	74	74	74	74
Vehicle occupant	75	75	75	75	75	75	75	75	75
Animal	76	76	76	76	76	76	76	76	76
Train	77	77	77	77	77	77	77	77	77
Trailer disconnected in transport	78	78	78	78	78	78	78	78	78
Other nonfixed object	88	88	88	88	88	88	88	88	88
Unknown nonfixed object	89	89	89	89	89	89	89	89	89
Other event	98	98	98	98	98	98	98	98	98
Unknown event or object	99	99	99	99	99	99	99	99	99
Object fell from vehicle in transport	-	-	-	-	-	-	-	79	79
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank

NASS Direction of Force (Highest)
Direction of Force (2nd Highest)
SAS DOF1
DOF2

No end or roof structure shifting									
Nonhorizontal force	00	00	00	00	00	00	00	00	00
One o'clock	01	01	01	01	01	01	01	01	01
Two o'clock	02	02	02	02	02	02	02	02	02
three o'clock	03	03	03	03	03	03	03	03	03
four o'clock	04	04	04	04	04	04	04	04	04
five o'clock	05	05	05	05	05	05	05	05	05
six o'clock	06	06	06	06	06	06	06	06	06
seven o'clock	07	07	07	07	07	07	07	07	07
eight o'clock	08	08	08	08	08	08	08	08	08
nine o'clock	09	09	09	09	09	09	09	09	09
ten o'clock	10	10	10	10	10	10	10	10	10
eleven o'clock	11	11	11	11	11	11	11	11	11
twelve o'clock	12	12	12	12	12	12	12	12	12
End Shift Vertical -- Up; Top Shift -- Forward									
Nonhorizontal force	20	20	20	20	20	20	20	20	20
One o'clock	21	21	21	21	21	21	21	21	21
Two o'clock	22	22	22	22	22	22	22	22	22
three o'clock	23	23	23	23	23	23	23	23	23
four o'clock	24	24	24	24	24	24	24	24	24
five o'clock	25	25	25	25	25	25	25	25	25
six o'clock	26	26	26	26	26	26	26	26	26
seven o'clock	27	27	27	27	27	27	27	27	27
eight o'clock	28	28	28	28	28	28	28	28	28
nine o'clock	29	29	29	29	29	29	29	29	29
ten o'clock	30	30	30	30	30	30	30	30	30
eleven o'clock	31	31	31	31	31	31	31	31	31
twelve o'clock	32	32	32	32	32	32	32	32	32

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
End Shift Vertical -- Down; Top Shift -- Rearward									
Nonhorizontal force	40	40	40	40	40	40	40	40	40
One o'clock	41	41	41	41	41	41	41	41	41
Two o'clock	42	42	42	42	42	42	42	42	42
three o'clock	43	43	43	43	43	43	43	43	43
four o'clock	44	44	44	44	44	44	44	44	44
five o'clock	45	45	45	45	45	45	45	45	45
six o'clock	46	46	46	46	46	46	46	46	46
seven o'clock	47	47	47	47	47	47	47	47	47
eight o'clock	48	48	48	48	48	48	48	48	48
nine o'clock	49	49	49	49	49	49	49	49	49
ten o'clock	50	50	50	50	50	50	50	50	50
eleven o'clock	51	51	51	51	51	51	51	51	51
twelve o'clock	52	52	52	52	52	52	52	52	52
End or Top Shift Lateral -- Right									
Nonhorizontal force	60	60	60	60	60	60	60	60	60
One o'clock	61	61	61	61	61	61	61	61	61
Two o'clock	62	62	62	62	62	62	62	62	62
three o'clock	63	63	63	63	63	63	63	63	63
four o'clock	64	64	64	64	64	64	64	64	64
five o'clock	65	65	65	65	65	65	65	65	65
six o'clock	66	66	66	66	66	66	66	66	66
seven o'clock	67	67	67	67	67	67	67	67	67
eight o'clock	68	68	68	68	68	68	68	68	68
nine o'clock	69	69	69	69	69	69	69	69	69
ten o'clock	70	70	70	70	70	70	70	70	70
eleven o'clock	71	71	71	71	71	71	71	71	71
twelve o'clock	72	72	72	72	72	72	72	72	72
End of Top Shift Lateral -- Left									
Nonhorizontal force	80	80	80	80	80	80	80	80	80
One o'clock	81	81	81	81	81	81	81	81	81
Two o'clock	82	82	82	82	82	82	82	82	82
three o'clock	83	83	83	83	83	83	83	83	83
four o'clock	84	84	84	84	84	84	84	84	84
five o'clock	85	85	85	85	85	85	85	85	85
six o'clock	86	86	86	86	86	86	86	86	86
seven o'clock	87	87	87	87	87	87	87	87	87
eight o'clock	88	88	88	88	88	88	88	88	88
nine o'clock	89	89	89	89	89	89	89	89	89
ten o'clock	90	90	90	90	90	90	90	90	90
eleven o'clock	91	91	91	91	91	91	91	91	91
twelve o'clock	92	92	92	92	92	92	92	92	92
Unknown	99	99	99	99	99	99	99	99	99
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Deformation Location (Highest)									
Deformation Location (2nd Highest)									
SAS GAD1									
GAD2									
Front	F	F	F	F	F	F	F	F	F
Right side	R	R	R	R	R	R	R	R	R
Left side	L	L	L	L	L	L	L	L	L
Back (rear)	B	B	B	B	B	B	B	B	B
Top	T	T	T	T	T	T	T	T	T
Undercarriage	U	U	U	U	U	U	U	U	U
Unknown	9	9	9	9	9	9	9	9	9
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank
NASS Specific Longitudinal or Lateral Location (Highest)									
Specific Longitudinal or Lateral Location (2nd Highest)									
SAS SHL1									
SHL2									
<u>Horizontal Impacts</u>									
Distributed -- side or end plane	D	D	D	D	D	D	D	D	D
Left -- front or rear plane	L	L	L	L	L	L	L	L	L
Center -- front or rear plane	C	C	C	C	C	C	C	C	C
Right -- front or rear plane	R	R	R	R	R	R	R	R	R
Side, front -- left or right plane	F	F	F	F	F	F	F	F	F
Side, center -- left or right plane	P	P	P	P	P	P	P	P	P
Side, rear -- left or right plane	B	B	B	B	B	B	B	B	B
Side (F & P); End (L & C)	Y	Y	Y	Y	Y	Y	Y	Y	Y
Side (P & B); End (C & R)	Z	Z	Z	Z	Z	Z	Z	Z	Z
<u>Top or Undercarriage Impacts</u>									
Distributed	D	D	D	D	D	D	D	D	D
Front Section	F	F	F	F	F	F	F	F	F
Center Section	P	P	P	P	P	P	P	P	P
Rear Section	B	B	B	B	B	B	B	B	B
Front & Center Section	Y	Y	Y	Y	Y	Y	Y	Y	Y
Center & Rear Section	Z	Z	Z	Z	Z	Z	Z	Z	Z
Unknown	9	9	9	9	9	9	9	9	9
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Specific Vertical or Lateral Location (Highest)									
Specific Vertical or Lateral Location (2nd Highest)									
SAS SVL1									
SVL2									
<u>Vertical - Front, Rear, or Side Impacts</u>									
All	A	A	A	A	A	A	A	A	A
Top of frame to top	H	H	H	H	H	H	H	H	H
Everything below belt line	E	E	E	E	E	E	E	E	E
Belt line and above	G	G	G	G	G	G	G	G	G
Middle -- top of frame to belt line or hood	M	M	M	M	M	M	M	M	M
Frame -- top of frame, frame, bottom of frame (including undercarriage)	L	L	L	L	L	L	L	L	L
Below undercarriage level (wheels and tires only)	W	W	W	W	W	W	W	W	W
<u>Lateral - Top and Undercarriage Impacts</u>									
Distributed	D	D	D	D	D	D	D	D	D
Left	L	L	L	L	L	L	L	L	L
Center	C	C	C	C	C	C	C	C	C
Right	R	R	R	R	R	R	R	R	R
Left and Center	Y	Y	Y	Y	Y	Y	Y	Y	Y
Right and Center	Z	Z	Z	Z	Z	Z	Z	Z	Z
Unknown	9	9	9	9	9	9	9	9	9
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank

NASS Type of Damage Distribution (Highest)									
Type of Damage Distribution (2nd Highest)									
SAS TDD1									
TDD2									
Wide impact area	W	W	W	W	W	W	W	W	W
Narrow impact area	N	N	N	N	N	N	N	N	N
Sideswipe	S	S	S	S	S	S	S	S	S
Rollover	O	O	O	O	O	O	O	O	O
Overhanging structure	A	A	A	A	A	A	A	A	A
Corner	E	E	E	E	E	E	E	E	E
Conversion in impact type	K	K	K	K	K	K	K	K	K
No residual deformation	N	N	N	N	N	N	N	N	N
Unknown	9	9	9	9	9	9	9	9	9
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Deformation Extent (Highest) Deformation Extent (2nd Highest) SAS EXTENT1 EXTENT2									
One	01	01	01	01	01	01	01	01	01
Two	02	02	02	02	02	02	02	02	02
Three	03	03	03	03	03	03	03	03	03
Four	04	04	04	04	04	04	04	04	04
Five	05	05	05	05	05	05	05	05	05
Six	06	06	06	06	06	06	06	06	06
Seven	07	07	07	07	07	07	07	07	07
Eight	08	08	08	08	08	08	08	08	08
Nine	09	09	09	09	09	09	09	09	09
Unknown	99	99	99	99	99	99	99	99	99
No event	blank	blank	blank	blank	blank	blank	blank	blank	blank
NASS Crush Profile Length (Highest) Crush Profile Lenght (2nd Highest) SAS DVL SDVL									
Code to nearest inch/ centimeter	in	in	in	in	in	cm	cm	cm	cm
No profile or unknown	blank	blank	blank	blank	blank	blank	blank	blank	blank
(Centimeters = inches x 2.54)									
NASS Crush Profile C1 (Highest) Crush Profile C1 (2nd Highest) Crush Profile C2 (Highest) Crush Profile C2 (2nd Highest) Crush Profile C3 (Highest) Crush Profile C3 (2nd Highest) Crush Profile C4 (Highest) Crush Profile C4 (2nd Highest) Crush Profile C5 (Highest) Crush Profile C5 (2nd Highest) Crush Profile C6 (Highest) Crush Profile C6 (2nd Highest) SAS DVC1 SDVC1 DVC2 SDVC2 DVC3 SDVC3 DVC4 SDVC4 DVC5 SDVC5 DVC6 SDVC6									
Code to nearest inch/centimeter	in	in	in	in	in	cm	cm	cm	cm
No profile or unknown	blank	blank	blank	blank	blank	blank	blank	blank	blank
(Centimeters = inches x 2.54)									
NASS Crush Profile - D (Highest) Crush Profile - D (2nd Highest) SAS DVD SDVD									
Code to nearest inch/centimeter	in	in	in	in	in	cm	cm	cm	cm
No profile or unknown	blank	blank	blank	blank	blank	blank	blank	blank	blank
(Centimeters = inches x 2.54)									

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Are CDCs Documented but Not Coded on the Automated File?									
SAS DOCCDC									
No	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1
NASS Researcher's Assessment of Vehicle Disposition									
SAS TOWRES									
Not towed due to vehicle damage	0	0	0	0	0	0	0	0	0
Towed due to vehicle damage	1	1	1	1	1	1	1	1	1
Unknown	9	9	9	9	9	9	9	9	9
NASS Original Wheelbase									
SAS WHEELBAS									
Code to the nearest tenth of an inch or whole centimeter (xxx.x" or xxxcm)	in	in	in	in	in	cm	cm	cm	cm
Unknown	9999	9999	9999	9999	9999	999	999	999	999
(Centimeters = inches x 2.54)									
NASS Undeformed End Width									
SAS UNDENDW									
Code to nearest centimeter (NC)	-	-	-	-	-	-	-	NC	NC
No highest severity end plane impact	-	-	-	-	-	-	-	998	998
Unknown	-	-	-	-	-	-	-	999	999
(Centimeters = inches x 2.54)									
NASS Direct Damage Width									
SAS DIRDAMW									
Code to nearest centimeter (NC)	-	-	-	-	-	-	-	NC	NC
Unknown	-	-	-	-	-	-	-	999	999
(Centimeters = inches x 2.54)									
NASS Original Average Track Width									
SAS ORIGAVTW									
Code to nearest centimeter (NC)	-	-	-	-	-	-	-	NC	NC
Unknown	-	-	-	-	-	-	-	999	999
(Centimeters = inches x 2.54)									

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Is This a Multi-Stage Manufactured Vehicle and/or a Certified Altered Vehicle?									
SAS ALTVEH									
No post manufacturer modifications	-	-	-	0	0	0	0	0	0
Yes, post manufacturer modifications	-	-	-	1	1	1	1	1	1
Unknown if vehicle is modified	-	-	-	9	9	9	9	9	9
NASS Fire Occurrence									
SAS FIRE									
No fire	-	-	-	0	0	0	0	0	0
Yes, fire occurred									
Minor	-	-	-	1	1	1	1	1	1
Major	-	-	-	2	2	2	2	2	2
Unknown	-	-	-	9	9	9	9	9	9
NASS Origin of Fire									
SAS FIREORIG									
No fire	-	-	-	0	0	0	0	0	0
Vehicle Exterior	-	-	-	1	1	1	1	1	1
Exhaust system	-	-	-	2	2	2	2	2	2
Fuel tank -	-	-	3	3	3	3	3	3	
Engine compartment	-	-	-	4	4	4	4	4	4
Cargo/trunk compartment	-	-	-	5	5	5	5	5	5
Instrument panel	-	-	-	6	6	6	6	6	6
Passenger compartment area	-	-	-	7	7	7	7	7	7
Other location	-	-	-	8	8	8	8	8	8
Unknown	-	-	-	9	9	9	9	9	9
NASS Type of Fuel Tank									
SAS FUELTANK									
No fuel tank	-	-	-	0	0	0	-	-	-
Metallic	-	-	-	1	1	1	-	-	-
Non-Metallic	-	-	-	2	2	2	-	-	-
Unknown	-	-	-	9	9	9	-	-	-
NASS Type of Fuel Tank-1 Type of Fuel Tank-2									
SAS FUELTNK1 FUELTNK2									
No fuel tank	-	-	-	-	-	-	0	0	0
Metallic	-	-	-	-	-	-	1	1	1
Non-Metallic	-	-	-	-	-	-	2	2	2
Unknown	-	-	-	-	-	-	9	9	9

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Fuel Tank-1 Location Fuel Tank-2 Location SAS FUELLOC1 FUELLOC2									
No fuel tank	-	-	-	-	-	-	0	0	0
Aft of center of the rear wheels (rear axle) centered	-	-	-	-	-	-	1	1	1
Aft of center of the rear wheels (rear axle) left side	-	-	-	-	-	-	2	2	2
Aft of center of the rear wheels (rear axle) right side	-	-	-	-	-	-	3	3	3
Forward of center of the rear wheels (rear axle) centered	-	-	-	-	-	-	4	4	4
Forward of center of the rear wheels (rear axle) left side	-	-	-	-	-	-	5	5	5
Forward of center of the rear wheels (rear axle) right side	-	-	-	-	-	-	6	6	6
Over center of the rear wheels (rear axle)	-	-	-	-	-	-	7	7	7
Other	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Fuel Tank-1 Filler Cap Location Fuel Tank-2 Filler Cap Location SAS FUELCAP1 FUELCAP2									
No fuel tank	-	-	-	-	-	-	0	0	0
On back plane	-	-	-	-	-	-	1	1	1
Aft of center of the rear wheels (rear axle) on left side plane	-	-	-	-	-	-	2	2	2
Aft of center of the rear wheels (rear axle) on right side plane	-	-	-	-	-	-	3	3	3
Forward of center of the rear wheels (rear axle) on left side plane	-	-	-	-	-	-	4	4	4
Forward of center of the rear wheels (rear axle) on right side plane	-	-	-	-	-	-	5	5	5
Over the center of the rear wheels (rear axle) on left side plane	-	-	-	-	-	-	6	6	6
Over the center of the rear wheels (rear axle) on right side plane	-	-	-	-	-	-	7	7	7
Other	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Fuel Tank-1 Damage Fuel Tank-2 Damage SAS FUELDAM1 FUELDAM2									
No fuel tank	-	-	-	-	-	-	0	0	0
No damage to fuel tank	-	-	-	-	-	-	1	1	1
Deformed, no seam failure	-	-	-	-	-	-	2	2	2
Deformed, with a seam failure	-	-	-	-	-	-	3	3	3
Punctured	-	-	-	-	-	-	4	4	4
Lacerated (ripped)	-	-	-	-	-	-	5	5	5
Abraded (scraped)	-	-	-	-	-	-	6	6	6
Filler neck separation from the fuel tank	-	-	-	-	-	-	7	7	7
Other damage	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9
NASS Location of Fuel System-1 Leakage Location of Fuel System-2 Leakage SAS FUELEAK1 FUELEAK2									
No fuel tank	-	-	-	-	-	-	0	0	0
No fuel leakage	-	-	-	-	-	-	1	1	1
<u>Primary Area Of Leakage</u>									
Tank	-	-	-	-	-	-	2	2	2
Filler neck	-	-	-	-	-	-	3	3	3
Cap	-	-	-	-	-	-	4	4	4
Lines/pump/filter	-	-	-	-	-	-	5	5	5
Vent/emission recovery	-	-	-	-	-	-	6	6	6
Other	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9

EXTERIOR VEHICLE FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Fuel Type-1 Fuel Type-2 SAS FUELTYP1 FUELTYP2									
No fuel tank	-	-	-	-	-	-	00	00	00
Gasoline	-	-	-	-	-	-	01	01	01
Diesel	-	-	-	-	-	-	02	02	02
CNG (Compressed Natural Gas)	-	-	-	-	-	-	03	03	03
LPG (Liquid Petroleum Gas) also known as Propane	-	-	-	-	-	-	04	04	04
LNG (Liquid Natural Gas)	-	-	-	-	-	-	05	05	05
Methanol (M100 or M85)	-	-	-	-	-	-	06	06	06
Ethanol (E100 or E85)	-	-	-	-	-	-	07	07	07
Other (Hydrogen or others)	-	-	-	-	-	-	08	08	08
Electric Powered or Electric/Solar Powered Vehicles									
Lead Acid Battery	-	-	-	-	-	-	10	10	10
Nickel-Iron Battery	-	-	-	-	-	-	11	11	11
Nickel-Cadmium Battery	-	-	-	-	-	-	12	12	12
Sodium Metal Chloride Battery	-	-	-	-	-	-	13	13	13
Sodium Sulfur Battery	-	-	-	-	-	-	14	14	14
Other	-	-	-	-	-	-	18	18	18
Other Hybrid	-	-	-	-	-	-	98	98	98
Unknown fuel type	-	-	-	-	-	-	99	99	99
NASS Is This Vehicle Equipped With More Than Two Fuel Tanks? SAS FUELGT2									
No (one or two tanks only)	-	-	-	-	-	-	0	0	0
Yes - More Than Two Tanks									
Yes -- no damage to any tank or filler cap and no fuel system leakage	-	-	-	-	-	-	1	1	1
Yes -- no damage to any tank or filler cap but there is fuel system leakage	-	-	-	-	-	-	2	2	2
Yes -- damage to an additional tank or filler cap and there is fuel system leakage	-	-	-	-	-	-	3	3	3
Unknown if more than two tanks	-	-	-	-	-	-	9	9	9

EXTERIOR VEHICLE FORM DERIVED VARIABLES

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS PSU Inflation Factor SAS PSUWGT	x	x	x	x	-	-	-	-	-
NASS National Inflation Factor SAS NATWGT	x	x	x	x	-	-	-	-	-
NASS Ratio Inflation Factor SAS RATWGT	-	-	x	x	x	x	x	x	x
NASS Case Sequence Number SAS CASENO	x	x	x	x	x	x	x	x	x
NASS Case Stratum SAS STRATIF									
A	x	x	x	x	x	x	x	x	x
B	x	x	x	x	x	x	x	x	x
C	x	x	x	x	x	x	x	x	x
D	x	x	x	x	x	x	x	x	x
E	x	x	x	x	x	x	x	x	x
F	x	x	x	x	x	x	x	x	x
G	x	x	x	x	x	x	x	x	x
H	x	x	x	x	x	x	x	x	x
J	-	-	-	x	x	x	x	x	x
K	-	-	-	x	x	x	x	x	x
Y	x	-	-	-	-	-	-	-	-
Z	x	-	-	-	-	-	-	-	-
NASS Version Number SAS VERSION									
Version number	1	2	3	4	5	6	7	8	9
NASS PSU Stratum SAS PSUSTRAT	-	-	-	-	x	x	x	x	x

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Occupant's Age SAS AGE									
Less than 1 year old	00	00	00	00	00	00	00	00	00
Actual age	01-96	01-96	01-96	01-96	01-96	01-96	01-96	01-96	01-96
97 years and older	97	97	97	97	97	97	97	97	97
Unknown	99	99	99	99	99	99	99	99	99
NASS Occupant's Sex SAS SEX									
Male	1	1	1	1	1	1	1	1	1
Female	2	2	2	2	2	2	2	-	-
Female not reported pregnant	-	-	-	-	-	-	-	2	2
Female pregnant - 1st trimester	-	-	-	-	-	-	-	3	3
Female pregnant - 2nd trimester	-	-	-	-	-	-	-	4	4
Female pregnant - 3rd trimester	-	-	-	-	-	-	-	5	5
Female pregnant - trimester unknown	-	-	-	-	-	-	-	6	6
Unknown	9	9	9	9	9	9	9	9	9
NASS Occupant's Height SAS HEIGHT									
Actual height	inches	inches	inches	inches	inches	centmtrs	centmtrs	centmtrs	centmtrs
Unknown	99	99	99	99	99	999	999	999	999
Centimeters=inchesx2.54									
NASS Occupant's Weight SAS WEIGHT									
Actual weight	pounds	pounds	pounds	pounds	pounds	kilogrms	kilogrms	kilogrms	kilogrms
Unknown	99	99	99	99	99	999	999	999	999
Kilograms=poundsx.4536									
NASS Occupant's Role SAS ROLE									
Driver	1	1	1	1	1	1	1	1	1
Passenger	2	2	2	2	2	2	2	2	2
Unknown	9	9	9	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Occupant's Seat Position SAS SEATPOS									
Front									
Left Side	11	11	11	11	11	11	11	11	11
Middle	12	12	12	12	12	12	12	12	12
Right Side	13	13	13	13	13	13	13	13	13
Other	14	14	14	14	14	14	14	14	14
On or in lap of other occupant	-	-	-	15	15	15	15	15	15
Second Seat									
Left Side	21	21	21	21	21	21	21	21	21
Middle	22	22	22	22	22	22	22	22	22
Right Side	23	23	23	23	23	23	23	23	23
Other	24	24	24	24	24	24	24	24	24
On or in lap of other occupant	-	-	-	25	25	25	25	25	25
Third Seat									
Left Side	31	31	31	31	31	31	31	31	31
Middle	32	32	32	32	32	32	32	32	32
Right Side	33	33	33	33	33	33	33	33	33
Other	34	34	34	34	34	34	34	34	34
On or in lap of other occupant	-	-	-	35	35	35	35	35	35
Fourth Seat									
Left Side	41	41	41	41	41	41	41	41	41
Middle	42	42	42	42	42	42	42	42	42
Right Side	43	43	43	43	43	43	43	43	43
Other	44	44	44	44	44	44	44	44	44
On or in lap of other occupant	-	-	-	45	45	45	45	45	45
In or on unenclosed area	97	97	97	97	97	97	97	97	97
Other seat	98	98	98	98	98	98	98	98	98
Unknown	99	99	99	99	99	99	99	99	99
NASS Occupant's Posture SAS POSTURE									
Normal posture	0	0	0	0	0	0	0	0	0
Abnormal posture	1	1	1	1	1	-	-	-	-
Kneeling or standing on seat	-	-	-	-	-	1	1	1	1
Lying on or across seat	-	-	-	-	-	2	2	2	2
Kneel/stand/sitting in front of seat	-	-	-	-	-	3	3	3	3
Sitting sideways or turned	-	-	-	-	-	4	4	4	4
Sitting on a console	-	-	-	-	-	5	5	5	5
Lying in a reclined seat position	-	-	-	-	-	6	6	6	6
Bracing feet or hands on a surface	-	-	-	-	-	7	7	7	7
Other abnormal position	-	-	-	-	-	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Ejection SAS EJECTION									
No ejection	0	0	0	0	0	0	0	0	0
Complete ejection	1	1	1	1	1	1	1	1	1
Partial ejection	2	2	2	2	2	2	2	2	2
Ejection, unknown degree	3	3	3	3	3	3	3	3	3
Unknown	9	9	9	9	9	9	9	9	9
NASS Ejection Area SAS EJCTAREA									
No ejection	0	0	0	0	0	0	0	0	0
Windshield	1	1	1	1	1	1	1	1	1
Left front 2	2	2	2	2	2	2	2	2	
Right front	3	3	3	3	3	3	3	3	3
Left rear	4	4	4	4	4	4	4	4	4
Right rear	5	5	5	5	5	5	5	5	5
Rear	6	6	6	6	6	6	6	6	6
Roof	7	7	7	7	7	7	7	7	7
Other area	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Ejection Medium SAS EJCTMED									
No ejection	0	0	0	0	0	0	0	0	0
Door/hatch/tailgate	1	1	1	1	1	1	1	1	1
Nonfixed roof structure	2	2	2	2	2	2	2	2	2
Fixed glazing	3	3	3	3	3	3	3	3	3
Nonfixed glazing	4	4	4	4	4	4	4	4	4
Integral structure	5	5	5	5	5	5	5	5	5
Other medium	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Medium Status SAS MEDSTA									
No ejection	0	0	0	0	0	0	0	0	0
Open	1	1	1	1	1	1	1	1	1
Closed	2	2	2	2	2	2	2	2	2
Integral structure	3	3	3	3	3	3	3	3	3
Unknown	9	9	9	9	9	9	9	9	9
NASS Entrapment SAS ENTRAP									
Not entrapped	0	0	0	0	0	0	0	0	0
Entrapped	1	1	1	1	1	1	1	1	1
Could not exit due to jam, fire, etc.	-	-	-	-	-	-	-	2	2
Unknown	9	9	9	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Occupant Mobility SAS OCCMOBIL									
Occupant fatal before removed	-	-	-	-	-	-	-	0	0
Removed unconscious/disoriented	-	-	-	-	-	-	-	1	1
Removed due to injury	-	-	-	-	-	-	-	2	2
Exited vehicle with some assistance	-	-	-	-	-	-	-	3	3
Exited vehicle under own power	-	-	-	-	-	-	-	4	4
Occupant fully ejected	-	-	-	-	-	-	-	5	5
Removed from vehicle-other reason	-	-	-	-	-	-	-	-	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Manual (Active) Belt System Availability SAS MANAVAIL									
Not available	0	0	0	0	0	0	0	0	0
Belt removed/destroyed	1	1	1	1	1	1	1	1	1
Shoulder belt	2	2	2	2	2	2	2	2	2
Lap belt	3	3	3	3	3	3	3	3	3
Lap and shoulder belt	4	4	4	4	4	4	4	4	4
Belt available - type unknown	5	5	5	5	5	5	5	5	5
Shoulder belt (lap destroyed/removed)	-	-	-	-	6	6	6	6	6
Lap belt (shoulder destroyed/removed)	-	-	-	-	7	7	7	7	7
Other belt	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Manual (Active) Belt System Use SAS MANUSE									
None used, not available or destroyed	00	00	00	00	00	00	00	00	00
Inoperative	01	01	01	01	01	01	01	01	01
Shoulder belt	02	02	02	02	02	02	02	02	02
Lap belt	03	03	03	03	03	03	03	03	03
Lap and shoulder belt	04	04	04	04	04	04	04	04	04
Belt used - type unknown	05	05	05	05	05	05	05	05	05
Other belt used	08	08	08	08	08	08	08	08	08
Shoulder belt w/child safety seat	12	12	12	12	12	12	12	12	12
Lap belt w/child safety seat	13	13	13	13	13	13	13	13	13
Lap and shoulder w/child safety seat	14	14	14	14	14	14	14	14	14
Belt used w/child safety seat-type unk	15	15	15	15	15	15	15	15	15
Other belt used w/child safety seat	18	18	18	18	18	18	18	18	18
Unknown if belt used	99	99	99	99	99	99	99	99	99

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Proper Use of Manual (Active) Belts SAS MANPROPR									
None used or not available	0	0	0	0	0	0	0	0	0
Belt used properly	1	1	1	1	1	1	1	1	1
Belt used properly w/child safety seat	2	2	2	2	2	2	2	2	2
Shoulder belt worn under arm	3	3	3	3	3	3	3	3	3
Shoulder belt worn behind back/seat	4	4	4	4	4	4	4	4	4
Belt worn around more than 1 person	5	5	5	5	5	5	5	5	5
Lap belt worn on abdomen	6	6	6	6	6	6	6	6	6
Lap belt on lap and shoulder belt used improperly with child safety seat	7	7	7	7	7	7	7	7	7
Other improper use of manual belts	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Manual (Active) Belt Failure Modes SAS MANFAIL									
Not used or not available	0	0	0	0	0	0	0	0	0
No manual belt failure(s)	1	1	1	1	1	1	1	1	1
Manual belt failure(s)	2	2	-	-	-	-	-	-	-
Torn webbing	-	-	2	2	2	2	2	2	2
Broken buckle or latchplate	-	-	3	3	3	3	3	3	3
Upper anchorage separated	-	-	4	4	4	4	4	4	4
Other anchorage separated	-	-	5	5	5	5	5	5	5
Broken retractor	-	-	6	6	6	6	6	6	6
Combination of above	-	-	7	7	7	7	7	7	7
Other manual belt failure	-	-	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Manual Shoulder Belt Upper Anchorage Adjustment SAS BELTANCH									
No shoulder belt	-	-	-	-	-	-	-	0	0
No SB upper anchorage adjustment	-	-	-	-	-	-	-	1	1
In full up position	-	-	-	-	-	-	-	2	2
In mid position	-	-	-	-	-	-	-	3	3
In full down position	-	-	-	-	-	-	-	4	4
Position unknown	-	-	-	-	-	-	-	5	5
Unknown if position has adjustable upper anchorage adjustment	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

NASS	Automatic (Passive) Restraint System Availability	Air Bag System Availability/ Function	Frontal Air Bag System Availability/ Function	Automatic (Passive) Belt System Availability/ Function
SAS	AUTAVAIL	BAGAVAIL	BAGAVAIL	ABELTAVL
	1988 - 1990	1991 - 1994	1995 - 1996	1991 - 1996
Not Equipped/not available	0	0	0	0
Airbag	1	1	1	-
Airbag disconnected	2	2	2	-
Airbag not reinstalled	3	3	3	-
2point automatic belts	4	-	-	1
3point automatic belts	5	-	-	2
Automatic belts destroyed/inoperative	6	-	-	4
Automatic belt type unknown	-	-	-	3
Unknown	9	9	9	9

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Automatic (Passive) Belt System Type									
SAS ABELTYPE									
Not equipped/not available	-	-	-	0	0	0	0	0	0
Non-motorized system	-	-	-	1	1	1	1	1	1
Motorized system	-	-	-	2	2	2	2	2	2
Unknown	-	-	-	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

NASS	Automatic (Passive) Restraint Function	Air Bag System Deployment		Frontal Air Bag System Deployment	Automatic (Passive) Belt System Use
SAS	AUTFNCT	BAGDEPLY		BAGDEPLY	ABELTUSE
	1988 - 1990	1991	1992 - 1994	1995 - 1996	1991 - 1996
Not equipped/not available	0	0	0	0	0
Automatic Belt in use	1	-	-	-	1
Automatic Belt not in use	2	-	-	-	2
Automatic Belt use unknown	3	-	-	-	3
Air Bag Deployed during crash	4	1	1	1	-
Air Bag Deployed prior to crash	5	2	2	2	-
Deployed, sequence unknown	6	3	3	3	-
Nondeployed	7	4	4	7	-
Unknown if deployed	8	5	5	5	-
Deployed-noncollision event	-	-	6	4	-
Unknown	9	9	9	9	9

NASS	Did Automatic (Passive) Restraint Fail?				Did Air Bag System Fail?			Are There Indications Of Air Bag System Failure?	
SAS	AUTFAIL				BAGFAIL			BAGFAIL	
	1988	1989	1990	1991	1992	1993	1994	1995	1996
Not Equipped/not available	0	0	0	0	0	0	0	0	0
No	1	1	1	1	1	1	1	1	1
Yes	2	2	2	2	2	2	2	2	2
Unknown	9	9	9	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Proper Use of Automatic (Passive) Belt System SAS ABLTPROP									
Not equipped/not available/not used	-	-	-	0	0	0	0	0	0
Automatic belt used properly	-	-	-	1	1	1	1	1	1
Automatic belt used properly with child safety seat	-	-	-	2	2	2	2	2	2
Auto shoulder belt worn under arm	-	-	-	3	3	3	3	3	3
Auto shoulder belt worn behind back	-	-	-	4	4	4	4	4	4
Auto belt worn around more 1 person	-	-	-	5	5	5	5	5	5
Lap portion of auto belt on abdomen	-	-	-	6	6	6	6	6	6
Auto lap and shoulder belt on auto seat belt system used improperly with child safety seat	-	-	-	7	7	7	7	7	7
Other improper use of auto belt system	-	-	-	8	8	8	8	8	8
Unknown	-	-	-	9	9	9	9	9	9
NASS Automatic (Passive) Belt Failure Modes During Accident SAS ABLTFAIL									
Not equipped/not available/not used	-	-	-	0	0	0	0	0	0
No automatic belt failure	-	-	-	1	1	1	1	1	1
Torn webbing	-	-	-	2	2	2	2	2	2
Broken buckle or latchplate	-	-	-	3	3	3	3	3	3
Upper anchorage separated	-	-	-	4	4	4	4	4	4
Other anchorage separated	-	-	-	5	5	5	5	5	5
Broken retractor	-	-	-	6	6	6	6	6	6
Combination of above	-	-	-	7	7	7	7	7	7
Other failure	-	-	-	8	8	8	8	8	8
Unknown	-	-	-	9	9	9	9	9	9
NASS Other Than First Seat Frontal Air Bag Availability/Function SAS BAGAVOTH									
Not equipped/not available	-	-	-	-	-	-	-	0	0
Air Bag	-	-	-	-	-	-	-	1	1
Air Bag disconnected	-	-	-	-	-	-	-	2	2
Air Bag not reinstalled	-	-	-	-	-	-	-	3	3
Unknown	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Air Bag Deployment, Other Than First Seat Frontal SAS BAGDEPOT									
Not equipped with "other" air bag	-	-	-	-	-	-	-	0	0
Deployed during crash (impact result)	-	-	-	-	-	-	-	1	1
Deployed inadvertenly prior to crash	-	-	-	-	-	-	-	2	2
Deployed, details unknown	-	-	-	-	-	-	-	3	3
Deployed result of noncollision event	-	-	-	-	-	-	-	4	4
Unknown if deployed	-	-	-	-	-	-	-	5	5
Nondeployed	-	-	-	-	-	-	-	7	7
Unknown	-	-	-	-	-	-	-	9	9
NASS Had Vehicle Been In Previous Accidents? SAS PREVACC									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No previous accidents	-	-	-	-	-	-	-	1	1
Previous accidents wo/deployment	-	-	-	-	-	-	-	2	2
One previous accident w/deployment	-	-	-	-	-	-	-	3	3
More than one previous accident with at least one deployment	-	-	-	-	-	-	-	4	4
Previous accidents-unknown deployment status	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Type of Air Bag SAS BAGTYPE									
Not equipped/not available	-	-	-	-	-	-	-	0	0
Original manufacturer installed system	-	-	-	-	-	-	-	1	1
Retrofitted air bag	-	-	-	-	-	-	-	2	2
Replacement air bag	-	-	-	-	-	-	-	3	3
Unknown type of air bag	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Had Any Prior Manufacturer-Service Been Performed on this Air Bag System? SAS BAGMAINT									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No prior maintenance	-	-	-	-	-	-	-	1	1
Yes, prior maintenance	-	-	-	-	-	-	-	2	2
Unknown	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Air Bag Deployment Accident Event Sequence Number SAS BAGEVENT									
Not equipped/not available	-	-	-	-	-	-	-	0	0
Coded event number - EN	-	-	-	-	-	-	-	EN	EN
Deployed, unknown event	-	-	-	-	-	-	-	96	96
Not deployed	-	-	-	-	-	-	-	97	97
Unknown if deployed	-	-	-	-	-	-	-	98	98
Unknown	-	-	-	-	-	-	-	99	99
NASS CDC For Air Bag Deployment Impact SAS BAGCDC									
Not equipped/not available	-	-	-	-	-	-	-	0	0
Highest Delta V	-	-	-	-	-	-	-	1	1
Second highest Delta V	-	-	-	-	-	-	-	2	2
Other non-coded Delta V	-	-	-	-	-	-	-	3	3
Deployed, unknown event	-	-	-	-	-	-	-	6	6
Not deployed	-	-	-	-	-	-	-	7	7
Unknown if deployed	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Longitudinal Component of Delta V for Air Bag Deployment Contact SAS DVBAG									
Not equipped/not available	-	-	-	-	-	-	-	000	000
Coded Value	-	-	-	-	-	-	-	CV	CV
Deployment, unknown Longitudinal Delta V	-	-	-	-	-	-	-	996	996
Not Deployed	-	-	-	-	-	-	-	997	997
Unknown if deployed	-	-	-	-	-	-	-	998	998
Unknown	-	-	-	-	-	-	-	999	999
NASS Were Air Bag Cover Flap(s) Damaged? SAS BAGFLDAM									
Not equipped/Not Available	-	-	-	-	-	-	0	0	0
No	-	-	-	-	-	-	1	1	1
Yes	-	-	-	-	-	-	2	2	2
Deployed, unknown if air bag module cover flap(s) damaged	-	-	-	-	-	-	3	3	3
Not Deployed	-	-	-	-	-	-	7	7	7
Unknown if Deployed	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Did Air Bag Cover Flap(s) Open at Designated Tear Points?									
SAS BAGFLOPN									
Not equipped/Not Available	-	-	-	-	-	-	0	0	0
No	-	-	-	-	-	-	1	1	1
Yes	-	-	-	-	-	-	2	2	2
Deployed, unknown if flap(s) opened at designated tear points	-	-	-	-	-	-	3	3	3
Not Deployed	-	-	-	-	-	-	7	7	7
Unknown if Deployed	-	-	-	-	-	-	8	8	8
Unknown	-	-	-	-	-	-	9	9	9
NASS Was There Damage To Air Bag?									
SAS BAGDAMAG									
Not equipped/not available	-	-	-	-	-	-	-	00	00
Not damaged	-	-	-	-	-	-	-	01	01
Ruptured	-	-	-	-	-	-	-	02	02
Cut	-	-	-	-	-	-	-	03	03
Torn	-	-	-	-	-	-	-	04	04
Holed	-	-	-	-	-	-	-	05	05
Burned	-	-	-	-	-	-	-	06	06
Abraded	-	-	-	-	-	-	-	07	07
Other damage	-	-	-	-	-	-	-	88	88
Damage, details unknown	-	-	-	-	-	-	-	95	95
Deployed, unknown if damaged	-	-	-	-	-	-	-	96	96
Not deployed	-	-	-	-	-	-	-	97	97
Unknown if deployed	-	-	-	-	-	-	-	98	98
Unknown	-	-	-	-	-	-	-	99	99
NASS Source of Air Bag Damage									
SAS BAGDAMSO									
Not equipped/not available	-	-	-	-	-	-	-	00	00
Not damaged	-	-	-	-	-	-	-	01	01
Object worn by occupant	-	-	-	-	-	-	-	02	02
Object carried by occupant	-	-	-	-	-	-	-	03	03
Adaptive/assistive controls	-	-	-	-	-	-	-	04	04
Fire in vehicle	-	-	-	-	-	-	-	05	05
Thermal burns	-	-	-	-	-	-	-	06	06
Rescue or emergency efforts	-	-	-	-	-	-	-	07	07
Other damage source	-	-	-	-	-	-	-	88	88
Damaged, unknown source	-	-	-	-	-	-	-	95	95
Deployed, unknown if damaged	-	-	-	-	-	-	-	96	96
Not deployed	-	-	-	-	-	-	-	97	97
Unknown if deployed	-	-	-	-	-	-	-	98	98
Unknown	-	-	-	-	-	-	-	99	99

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Was the Air Bag Tethered?									
SAS BAGTETHR									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No	-	-	-	-	-	-	-	1	1
Yes	-	-	-	-	-	-	-	2	2
Deployed, unknown if tethered	-	-	-	-	-	-	-	3	3
Not deployed	-	-	-	-	-	-	-	7	7
Unknown if deployed	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Did The Air Bag Have Vent Ports?									
SAS BAGVENTS									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No	-	-	-	-	-	-	-	1	1
Yes	-	-	-	-	-	-	-	2	2
Deployed, unknown if ports present	-	-	-	-	-	-	-	3	3
Not deployed	-	-	-	-	-	-	-	7	7
Unknown if deployed	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Was The Air Bag In This Occupant's Position Contacted By Another Occupant									
SAS BAGCONOT									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No	-	-	-	-	-	-	-	1	1
Yes	-	-	-	-	-	-	-	2	2
Deployed, unknown if other occupant contact to air bag	-	-	-	-	-	-	-	3	3
Not deployed	-	-	-	-	-	-	-	7	7
Unknown if deployed	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9
NASS Was This Occupant Wearing Eye-wear?									
SAS EYEWEAR									
Not equipped/not available	-	-	-	-	-	-	-	0	0
No	-	-	-	-	-	-	-	1	1
Eyeglasses/sunglasses	-	-	-	-	-	-	-	2	2
Contact lenses	-	-	-	-	-	-	-	3	3
Deployed, unknown if eyewear worn	-	-	-	-	-	-	-	4	4
Not deployed	-	-	-	-	-	-	-	7	7
Unknown if deployed	-	-	-	-	-	-	-	8	8
Unknown	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Child Safety Seat Make/Model									
SAS CHMAKE									
No child safety seat	000	000	000	000	000	000	000	000	000
Valid codes from CDS manual	VC	VC	VC	VC	VC	VC	VC	VC	VC
Built-in child safety seat	-	-	-	-	950	950	950	950	950
Other make/model	997	997	997	997	997	997	997	997	997
Unknown make/model	998	998	998	998	998	998	998	998	998
Unknown if child safety seat used	999	999	999	999	999	999	999	999	999
NASS Type of Child Safety Seat									
SAS CHTYPE									
No child safety seat	0	0	0	0	0	0	0	0	0
Infant seat	1	1	1	1	1	1	1	1	1
Toddler seat	2	2	2	2	2	2	2	2	2
Convertible seat	3	3	3	3	3	3	3	3	3
Booster seat	4	4	4	4	4	4	4	-	-
Booster seat - with shield	-	-	-	-	-	-	-	4	4
Booster seat - without shield	-	-	-	-	-	-	-	5	5
Other type	7	7	7	7	7	7	7	7	7
Unknown child safety seat type	8	8	8	8	8	8	8	8	8
Unknown if child safety seat used	9	9	9	9	9	9	9	9	9
NASS Child Safety Seat Orientation									
SAS CHORIENT									
No child safety seat	0	0	0	0	0	0	0	0	0
<u>Rear Facing Design</u>									
Rear facing	1	1	1	1	1	1	1	1	1
Forward facing	2	2	2	2	2	2	2	2	2
Other orientation	8	8	8	8	8	8	8	8	8
Unknown orientation	9	9	9	9	9	9	9	9	9
<u>Forward Facing Design</u>									
Rear facing	11	11	11	11	11	11	11	11	11
Forward facing	12	12	12	12	12	12	12	12	12
Other orientation	18	18	18	18	18	18	18	18	18
Unknown orientation	19	19	19	19	19	19	19	19	19
<u>Unknown Design</u>									
Rear facing	21	21	21	21	21	21	21	21	21
Forward facing	22	22	22	22	22	22	22	22	22
Other orientation	28	28	28	28	28	28	28	28	28
Unknown orientation	29	29	29	29	29	29	29	29	29
Unknown if child safety seat used	99	99	99	99	99	99	99	99	99

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Child Safety Seat Harness Usage Child Safety Seat Shield Usage Child Safety Seat Tether Usage									
SAS CHHARNES CHSHIELD CHTETHER									
No child safety seat	00	00	00	00	00	00	00	00	00
Not Designed with Harness/Shield/Tether									
After market H/S/T added, not used	01	01	01	01	01	01	01	01	01
After market H/S/T added, used	02	02	02	02	02	02	02	02	02
Child safety used, but no after market Harness/Shield/Tether added	03	03	03	03	03	03	03	03	03
Unknown if H/S/T added or used	09	09	09	09	09	09	09	09	09
Designed with Harness/Shield/Tether									
Harness/Shield/Tether not used	11	11	11	11	11	11	11	11	11
Harness/Shield/Tehter used	12	12	12	12	12	12	12	12	12
Unknown if H/S/T used	19	19	19	19	19	19	19	19	19
Unknown if Designed with H/S/T									
Harness/Shield/Tether not used	21	21	21	21	21	21	21	21	21
Harness/Shield/Tether used	22	22	22	22	22	22	22	22	22
Unknown if H/S/T used	29	29	29	29	29	29	29	29	29
Unknown if child safety seat used	99	99	99	99	99	99	99	99	99
NASS Police Reported Restraint Use SAS PARUSE									
None used	0	0	0	0	0	0	0	0	0
Police did not indicate restraint use	1	1	1	1	1	1	1	1	1
Shoulder Belt	2	2	2	2	2	2	2	2	2
Lap Belt	3	3	3	3	3	3	3	3	3
Lap and shoulder belt	4	4	4	4	4	4	4	4	4
Belt used, type not specified	5	5	5	5	5	5	5	5	5
Child safety seat	6	6	6	6	6	6	6	6	6
Other or automatic restraint	7	7	7	7	7	7	7	7	7
Restrained, type unknown	8	8	8	8	8	8	8	8	8
Police indicated "unknown"	9	9	9	9	9	9	9	9	9
NASS Police Reported Air Bag Availability/Function SAS BAGAVRPT									
No air bag available	-	-	-	-	-	-	-	0	0
Police did not indicate air bag availability/function	-	-	-	-	-	-	-	1	1
Deployed	-	-	-	-	-	-	-	2	2
Not deployed	-	-	-	-	-	-	-	3	3
Unknown if deployed	-	-	-	-	-	-	-	4	4
Police indicated "unknown"	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Primary Source of Belt Use Determination									
SAS BELTSOU									
Equipped/not available/destroyed or rendered inoperative	-	-	-	-	-	-	0	0	0
Vehicle inspection	-	-	-	-	-	-	1	1	1
Official injury data	-	-	-	-	-	-	2	2	2
Driver/occupant interview	-	-	-	-	-	-	3	3	3
Other	-	-	-	-	-	-	8	8	8
Unknown if belt used	-	-	-	-	-	-	9	9	9
NASS Head Restraint Type/Damage By Occupant at this Occupant Position									
SAS HEADREST									
No head restraints	0	0	0	0	0	0	0	0	0
Integral - no damage	1	1	1	1	1	1	1	1	1
Integral - damaged during accident	2	2	2	2	2	2	2	2	2
Adjustable - no damage	3	3	3	3	3	3	3	3	3
Adjustable - damaged during accident	4	4	4	4	4	4	4	4	4
Add-on - no damage	5	5	5	5	5	5	5	5	5
Add-on - damage during accident	6	6	6	6	6	6	6	6	6
Other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Seat Type (This Occupant Position)									
SAS SEATTYPE									
Occupant not seated or no seat	00	00	00	00	00	00	00	00	00
Bucket	01	01	01	01	01	01	01	01	01
Bucket with folding back	02	02	02	02	02	02	02	02	02
Bench	03	03	03	03	03	03	03	03	03
Bench with separate back cushions	04	04	04	04	04	04	04	04	04
Bench with folding backs	05	05	05	05	05	05	05	05	05
Split bench w/separate back cushions	06	06	06	06	06	06	06	06	06
Split bench with folding backs 07	07	07	07	07	07	07	07	07	
Pedestal	08	08	08	08	08	08	08	08	08
Other seat type	09	09	09	09	09	09	09	09	09
Box mounted seat	-	-	-	-	10	10	10	10	10
Unknown	99	99	99	99	99	99	99	99	99

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Seat Performance (This Occupant Position)									
SAS SEATPERF									
Occupant not seated or no seat	0	0	0	0	0	0	0	0	0
No seat performance failure	1	1	1	1	1	1	1	1	1
Seat performance failure	2	2	-	-	-	-	-	-	-
Seat adjusters failed	-	-	2	2	2	2	2	2	2
Seat back or folding locks failed	-	-	3	3	3	3	3	3	3
Seat track/anchors failed	-	-	4	4	4	4	4	4	4
Deformed by impact of occupant	-	-	5	5	5	5	5	5	5
Deformed by passenger compartment intrusion	-	-	6	6	6	6	6	6	6
Combination of above	-	-	7	7	7	7	7	7	7
Other	-	-	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Seat Orientation (This Occupant Position)									
SAS STORIENT									
Occupant not seated or no seat	-	-	-	-	0	0	0	0	0
Forward facing seat	-	-	-	-	1	1	1	1	1
Rear facing seat	-	-	-	-	2	2	2	2	2
Side facing seat (inward)	-	-	-	-	3	3	3	3	3
Side facing seat (outward)	-	-	-	-	4	4	4	4	4
Other	-	-	-	-	8	8	8	8	8
Unknown	-	-	-	-	9	9	9	9	9
NASS Seat Track Adjusted Position Prior To Impact									
SAS SEATRACK									
Occupant not seated or no seat	-	-	-	-	-	-	-	0	0
Non-adjustable seat track	-	-	-	-	-	-	-	1	1
Seat at foreward most track position	-	-	-	-	-	-	-	2	2
Seat btwn forward most and middle track position	-	-	-	-	-	-	-	3	3
Seat at middle track position	-	-	-	-	-	-	-	4	4
Seat btwn middle and rear most track position	-	-	-	-	-	-	-	5	5
Seat at rear most track positon	-	-	-	-	-	-	-	6	6
Unknown	-	-	-	-	-	-	-	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Seat Back Incline Prior and Post Impact SAS STBACINC									
Occupant not seated or no seat	-	-	-	-	-	-	-	00	00
Not adjustable	-	-	-	-	-	-	-	01	01
<u>Upright Prior to Impact</u>									
Moved to complete rearward position	-	-	-	-	-	-	-	11	11
Moved to rearward midrange position	-	-	-	-	-	-	-	12	12
Moved to slightly rearward position	-	-	-	-	-	-	-	13	13
Retained pre-impact position	-	-	-	-	-	-	-	14	14
Moved to slightly forward position	-	-	-	-	-	-	-	15	15
Moved to forward midrange position	-	-	-	-	-	-	-	16	16
Moved to completely forward position	-	-	-	-	-	-	-	17	17
<u>Slightly Reclined Prior to Impact</u>									
Moved to complete rearward position	-	-	-	-	-	-	-	21	21
Moved to rearward midrange position	-	-	-	-	-	-	-	22	22
Retained pre-impact position	-	-	-	-	-	-	-	23	23
Moved to upright position	-	-	-	-	-	-	-	24	24
Moved to slightly forward position	-	-	-	-	-	-	-	25	25
Moved to forward midrange position	-	-	-	-	-	-	-	26	26
Moved to completely forward positon	-	-	-	-	-	-	-	27	27
<u>Completely Reclined Prior to Impact</u>									
Retained pre-impact position	-	-	-	-	-	-	-	31	31
Moved to rearward midrange position	-	-	-	-	-	-	-	32	32
Moved to slightly rearward position	-	-	-	-	-	-	-	33	33
Moved to upright position	-	-	-	-	-	-	-	34	34
Moved to slightly forward position	-	-	-	-	-	-	-	35	35
Moved to forward midrange position	-	-	-	-	-	-	-	36	36
Moved to completely forward position	-	-	-	-	-	-	-	37	37
Unknown	-	-	-	-	-	-	-	99	99
NASS Injury Severity (Police Rating) SAS INJSEV									
No Injury (O)	0	0	0	0	0	0	0	0	0
Possible Injury (C)	1	1	1	1	1	1	1	1	1
Nonincapacitating Injury (B)	2	2	2	2	2	2	2	2	2
Incapacitating Injury (A)	3	3	3	3	3	3	3	3	3
Killed (K)	4	4	4	4	4	4	4	4	4
Injury, severity unknown (U)	5	5	5	5	5	5	5	5	5
Died prior to accident	6	6	6	6	6	6	6	6	6
Unknown	9	9	9	9	9	9	9	9	9

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS Treatment - Mortality SAS TREATMNT									
No treatment	0	0	0	0	0	0	0	0	0
Fatal	1	1	1	1	1	1	1	1	1
Fatal - ruled disease	2	2	2	2	2	2	2	2	2
Hospitalized	3	3	3	3	3	3	3	3	3
Transported and released	4	4	4	4	4	4	4	4	4
Treatment at scene - nontransported	5	5	5	5	5	5	5	5	5
Treatment later	6	6	6	6	6	6	6	6	6
Treatment - other	8	8	8	8	8	8	8	7	7
Transported to a medical facility unknown if treated	-	-	-	-	-	-	-	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Type of Medical Facility (For Initial Treatment) SAS MEDFACIL									
Not treated at a medical facility	0	0	0	0	0	0	0	0	0
Trauma Center	1	1	1	1	1	1	1	1	1
Hospital	2	2	2	2	2	2	2	2	2
Medical clinic	3	3	3	3	3	3	3	3	3
Physician's office	4	4	4	4	4	4	4	4	4
Treatment later at medical facility	5	5	5	5	5	5	5	5	5
Other	8	8	8	8	8	8	8	8	8
Unknown	9	9	9	9	9	9	9	9	9
NASS Hospital Stay SAS HOSPSTAY									
Not hospitalized	00	00	00	00	00	00	00	00	00
Days hospitalized (actual days to 60)	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60
61 days or more	61	61	61	61	61	61	61	61	61
Unknown	99	99	99	99	99	99	99	99	99
NASS Working Days Lost SAS WORKDAYS									
No working days lost	00	00	00	00	00	00	00	00	00
Working days lost (actual days to 60)	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60
61 days or more	61	61	61	61	61	61	61	61	61
Fatally injured	62	62	62	62	62	62	62	62	62
Not working prior to accident	97	97	97	97	97	97	97	97	97
Unknown	99	99	99	99	99	99	99	99	99
NASS Time to Death SAS DEATH									
Not fatal	00	00	00	00	00	00	00	00	00
Number of hours/days (actual days to 60)	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60	1-60
Fatal - ruled disease	96	96	96	96	96	96	96	96	96
Unknown	99	99	99	99	99	99	99	99	99

OCCUPANT ASSESSMENT FORM

	1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS First, Second and/or Third Medically Reported Cause of Death									
SAS CAUSE1 CAUSE2 CAUSE3									
Not fatal or no additional causes	00	00	00	00	00	00	00	00	00
Recorded injury number from occupant injury form	1-95	1-95	1-95	1-95	1-95	1-95	1-95	1-95	1-95
Mode of death given but specific injuries not linked to cause of death	-	-	-	-	-	96	96	96	96
Other result	97	97	97	97	97	97	97	97	97
Unknown	99	99	99	99	99	99	99	99	99
NASS Number of Recorded Injuries For This Occupant									
SAS INJNUM									
No recorded injuries	00	00	00	00	00	00	00	00	00
Actual number of recorded injuries	1-96	1-96	1-96	1-96	1-96	1-96	1-96	1-96	1-96
Injured, details unknown	97	97	97	97	97	97	97	97	97
Unknown if injured	99	99	99	99	99	99	99	99	99
NASS Glasgow Coma Scale (GCS) (At Medical Facility)									
SAS GLASGOW									
Not injured	-	-	-	-	00	00	00	00	00
Injured - not treated at medical facility	-	-	-	-	01	01	01	01	01
No GCS score at medical facility	-	-	-	-	02	02	02	02	02
GCS recorded at medical facility	-	-	-	-	3-15	3-15	3-15	3-15	3-15
Injured, details unknown	-	-	-	-	97	97	97	97	97
Unknown if injured	-	-	-	-	99	99	99	99	99
NASS Was The Occupant Given Blood?									
SAS BLOOD									
No - blood not given	-	-	-	-	1	1	1	1	1
Yes - blood given	-	-	-	-	2	2	2	2	2
Unknown if blood given	-	-	-	-	9	9	9	9	9
NASS Arterial Blood Gases (ABG) - HCO3									
SAS BICARB									
Not Injured	-	-	-	-	00	00	00	00	00
Injured, ABG not measured/reported	-	-	-	-	01	01	01	01	01
HCO3 recorded or reported	-	-	-	-	2-50	2-50	2-50	2-50	2-50
ABGs reported, HCO3 unknown	-	-	-	-	96	96	96	96	96
Injured, details unknown	-	-	-	-	97	97	97	97	97
Unknown if injured	-	-	-	-	99	99	99	99	99

OCCUPANT ASSESSMENT DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS	PSU Inflation Factor									
SAS	PSUWGT	x	x	x	x	-	-	-	-	-
NASS	National Inflation Factor									
SAS	NATWGT	x	x	x	x	-	-	-	-	-
NASS	Ratio Inflation Factor									
SAS	RATWGT	-	-	x	x	x	x	x	x	x
NASS	Case Sequence Number									
SAS	CASENO	x	x	x	x	x	x	x	x	x
NASS	Case Stratum									
SAS	STRATIF									
A		x	x	x	x	x	x	x	x	x
B		x	x	x	x	x	x	x	x	x
C		x	x	x	x	x	x	x	x	x
D		x	x	x	x	x	x	x	x	x
E		x	x	x	x	x	x	x	x	x
F		x	x	x	x	x	x	x	x	x
G		x	x	x	x	x	x	x	x	x
H		x	x	x	x	x	x	x	x	x
J		-	-	-	x	x	x	x	x	x
K		-	-	-	x	x	x	x	x	x
Y		x	-	-	-	-	-	-	-	-
Z		x	-	-	-	-	-	-	-	-
NASS	Maximum Known AIS									
SAS	MAIS									
Not Injured		0	0	0	0	0	0	0	0	0
Minor Injury		1	1	1	1	1	1	1	1	1
Moderate Injury		2	2	2	2	2	2	2	2	2
Serious Injury		3	3	3	3	3	3	3	3	3
Severe Injury		4	4	4	4	4	4	4	4	4
Critical Injury		5	5	5	5	5	5	5	5	5
Maximum (Untreatable) Injury		6	6	6	6	6	6	6	6	6
Injury, Severity Unknown		7	7	7	7	7	7	7	7	7
Unknown if Injured		9	9	9	9	9	9	9	9	9
NASS	Injury Severity Score									
SAS	ISS									
Calculated by adding the squares of the highest AIS for each of the three most severely injured body regions.		x	x	x	x	x	x	x	x	x
NASS	Version Number									
SAS	VERSION	1	2	3	4	5	6	7	8	9

OCCUPANT ASSESSMENT DERIVED VARIABLES

		1988	1989	1990	1991	1992	1993	1994	1995	1996
NASS SAS	PSU Stratum PSUSTRAT	-	-	-	-	x	x	x	x	x