



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**


DEPT. OF TRANSPORTATION
DOCKETS

2006 DEC 13 P 2:59

Memorandum


Subject: SAS Code Supporting Comprehensive
Review of the New Car Assessment Program


Date: DEC - 7 2006

From: Nathaniel Beuse, Chief 
New Car Assessment Program Division

Reply to
Attn. of:

To: NHTSA Docket No. 2006-26555

THRU: Roger A. Saul, Ph.D. 
Director, Office of Crashworthiness Standards

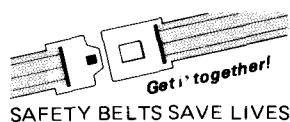
 Anthony M. Cooke
Chief Counsel

The Office of Vehicle Safety of the National Highway Traffic Safety Administration (NHTSA) has performed an analysis using the National Automotive Sampling (NASS) Crashworthiness Data System. This analysis was conducted for the purposes of performing a comprehensive review of the agency's New Car Assessment Program. The results of this analysis are referred to in the document entitled "*The New Car Assessment Program Suggested Approaches for Future Program Enhancements*" (See docket number NHTSA-2006-26555). This memo transmits the SAS codes used in the analysis to the docket.

The following items are included in this submission:

- Main output and SAS code
- Additional analysis on frontal crashes and SAS code
- Additional analysis on 1998 and later model years and SAS code
- Additional analysis on narrow impacts and SAS code

Attachments



Seriously-Injured Occupants 1
 in Crashes Like the FMVSS Side Pole Test
 1995-2004 NASS CDS Data and Simple Weighted Estimates
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Raw Serious HeadFace	Raw Serious Neck	Raw Serious BackChest	Raw Serious Abdomen Pelvis	Raw Serious Legs	Raw Serious Arms Shoulders	Raw Serious Unknown Cases	Simple Weighting Factor	
no	no	no	no	no	yes	no	5	3,722
no	no	no	no	yes	no	no	10	340
no	no	no	no	yes	yes	no	3	219
no	no	no	yes	no	no	no	3	202
no	no	yes	no	no	no	no	14	955
no	no	yes	no	yes	no	no	2	72
no	no	yes	yes	no	no	no	6	700
no	no	yes	yes	no	no	yes	1	7
no	yes	no	no	no	no	no	4	459
no	yes	yes	no	no	no	no	2	70
yes	no	no	no	no	no	no	17	1,220
yes	no	no	no	no	yes	no	1	74
yes	no	no	no	yes	no	no	6	159
yes	no	no	yes	no	no	no	3	95
yes	no	yes	no	no	no	no	15	724
yes	no	yes	no	yes	no	no	1	22
yes	no	yes	yes	no	no	no	7	374
yes	no	yes	yes	yes	no	no	3	69
yes	yes	no	no	no	no	no	3	158
yes	yes	yes	no	no	no	no	1	41
yes	yes	yes	no	yes	no	no	1	12
=====							=====	
108							9,693	

Seriously-Injured Occupants without AIS 3+ Injury
 to the Head, Face, Neck, Back, Chest, Abdomen, Pelvis, or Legs
 in Crashes Like the FMVSS Side Pole Test
 1995-2004 NASS CDS Data and Simple Weighted Estimates

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year	psu	caseno	vehno	occno	ais90	BODYREG	RATWGT
1996	9	61	1	1	415099.7	Chest	74
1996	9	61	1	1	752604.3	Arm (upper)	74
1996	9	61	1	1	160406.2	Head	74
1996	9	61	1	1	290800.1	Face	74
1996	9	61	1	1	297802.1	Face	74
1996	9	61	1	1	290602.1	Face	74
1996	9	61	1	1	240602.1	Face	74
1996	9	61	1	1	190600.1	Head	74
1996	9	61	1	1	790402.1	Upper limbs	74
1996	9	61	1	1	790602.1	Upper limbs	74
1996	9	61	1	1	890202.1	Lower limbs	74
1996	9	61	1	1	890202.1	Lower limbs	74
1997	2	128	1	2	752804.3	Forearm	329
1997	2	128	1	2	790202.1	Upper limbs	329
1997	13	119	1	1	752604.3	Arm (upper)	82
1997	13	119	1	1	740400.2	Upper limbs	82
1997	13	119	1	1	715000.2	Upper limbs	82
1997	13	119	1	1	990400.1	Unknown	82
1997	13	119	1	1	740402.1	Upper limbs	82
1997	13	119	1	1	790202.1	Upper limbs	82
1997	13	119	1	1	890602.1	Lower limbs	82
1997	13	119	1	1	890202.1	Lower limbs	82
1998	45	3	1	1	752604.3	Arm (upper)	250
1998	45	3	1	1	290600.1	Face	250
1998	45	3	1	1	290202.1	Face	250
1998	45	3	1	1	790600.1	Upper limbs	250
2003	12	190	1	1	752604.3	Arm (upper)	2,988
2003	12	190	1	1	160406.2	Head	2,988
2003	12	190	1	1	190602.1	Head	2,988
2003	12	190	1	1	190602.1	Head	2,988
2003	12	190	1	1	890402.1	Lower limbs	2,988
2003	12	190	1	1	890402.1	Lower limbs	2,988

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1995- 2- 19-1-2 -----

INJNO	ais90	BODYREG	RATWGT
6	140629.4	Head	75
2	140660.3	Head	75
3	140684.3	Head	75
4	140604.3	Head	75
5	140682.3	Head	75
8	852604.3	Pelvis	75
1	160699.2	Head	75
7	150402.2	Head	75
9	852602.2	Pelvis	75
11	490602.1	Chest	75
10	290602.1	Face	75
12	297402.1	Face	75
13	790402.1	Upper limbs	75

Seriously-Injured Occupants 5
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1995- 4- 33-1-3 -----

INJNO	ais90	BODYREG	RATWGT
2	545026.3	Abdomen	111
1	852604.3	Pelvis	111
3	752404.1	Wrist/hand	111
4	790602.1	Upper limbs	111

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1995-11- 51-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	140202.5	Head	45
2	140656.5	Head	45
4	140674.5	Head	45
5	160824.5	Head	45
3	140652.4	Head	45
24	140684.3	Head	45
7	290804.2	Face	45
20	690402.1	Back	45
23	450212.1	Chest	45
11	297802.1	Face	45
12	240408.1	Face	45
13	297602.1	Face	45
14	240416.1	Face	45
6	240216.1	Head	45
8	190602.1	Head	45
9	190402.1	Head	45
10	190202.1	Head	45
15	190602.1	Head	45
16	190202.1	Head	45
17	790202.1	Upper limbs	45
18	790602.1	Upper limbs	45
19	790402.1	Upper limbs	45
21	890402.1	Lower limbs	45
22	890402.1	Lower limbs	45

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Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1995-13-114-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	853422.3	Lower leg	85
2	851606.2	Lower leg	85
3	890600.1	Lower limbs	85
4	890202.1	Lower limbs	85
5	890402.1	Lower limbs	85

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1995-45-176-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	441410.4	Chest	61
2	441002.3	Chest	61
8	650216.2	Neck	61
3	490402.1	Chest	61
4	790600.1	Upper limbs	61
5	790202.1	Upper limbs	61
6	890600.1	Lower limbs	61
7	890202.1	Lower limbs	61

Seriously-Injured Occupants 9
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1995-45-287-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140678.4	Head	63
3	450222.3	Chest	63
2	251204.3	Face	63
4	650620.2	Back	63
5	650620.2	Back	63
6	650632.2	Back	63

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1995-48-248-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	441402.3	Chest	234
1	450212.1	Chest	234
3	790402.1	Upper limbs	234
4	790602.1	Upper limbs	234

Seriously-Injured Occupants 11
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1995-74- 6-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	851814.3	Thigh	18
2	490202.1	Chest	18
3	790202.1	Upper limbs	18

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1995-75-166-1-5 -----

INJNO	ais90	BODYREG	RATWGT
1	140604.3	Head	42
2	290602.1	Face	42
3	290402.1	Face	42
4	290202.1	Face	42
5	251402.1	Face	42

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1995-79-126-1-3 -----

INJNO	ais90	BODYREG	RATWGT
7	442608.4	Chest	4
2	250808.3	Face	4
1	240606.1	Face	4
3	250600.1	Face	4
4	290602.1	Face	4
5	290402.1	Face	4
6	290602.1	Face	4
8	240216.1	Head	4

Seriously-Injured Occupants 14
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1996- 6- 98-2-2 -----

INJNO	ais90	BODYREG	RATWGT
2	450232.4	Chest	7
3	690402.1	Back	7
1	990400.1	Unknown	7

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996- 6- 98-2-3 -----

INJNO	ais90	BODYREG	RATWGT
7	852604.3	Pelvis	7
8	160406.2	Head	7
6	752200.2	Shoulder	7
2	490202.1	Chest	7
1	790402.1	Upper limbs	7
3	890202.1	Lower limbs	7
4	890202.1	Lower limbs	7
5	890402.1	Lower limbs	7

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996- 9- 20-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	160824.5	Head	46
3	442202.3	Chest	46
5	251204.3	Face	46
2	140684.3	Head	46
4	150200.3	Head	46
9	490402.1	Chest	46
6	251000.1	Face	46
7	297402.1	Face	46
8	297602.1	Face	46
10	590402.1	Abdomen	46

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996- 9- 61-1-1 -----

INJNO	ais90	BODYREG	RATWGT
8	415099.7	Chest	74
11	752604.3	Arm (upper)	74
12	160406.2	Head	74
1	290800.1	Face	74
2	297802.1	Face	74
5	290602.1	Face	74
9	240602.1	Face	74
10	190600.1	Head	74
6	790402.1	Upper limbs	74
7	790602.1	Upper limbs	74
3	890202.1	Lower limbs	74
4	890202.1	Lower limbs	74

----- NASS_Case=1996- 9- 61-1-2 -----

INJNO	ais90	BODYREG	RATWGT
6	160214.5	Head	74
2	450262.3	Chest	74
3	140620.3	Head	74
4	544222.2	Abdomen	74
5	490202.1	Chest	74
1	251404.1	Face	74

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996- 9- 61-1-3 -----

INJNO	ais90	BODYREG	RATWGT
1	160824.5	Head	74
9	140678.4	Head	74
2	752604.3	Arm (upper)	74
6	140668.3	Head	74
7	140620.3	Head	74
8	140684.3	Head	74
5	853412.2	Ankle/foot	74
3	790202.1	Upper limbs	74
4	890202.1	Lower limbs	74

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996- 9- 88-1-2 -----

INJNO	ais90	BODYREG	RATWGT
10	450266.5	Chest	24
12	140474.4	Head	24
9	150200.3	Head	24
11	140684.3	Head	24
1	290202.1	Face	24
2	290202.1	Face	24
5	290602.1	Face	24
6	290402.1	Face	24
3	190402.1	Head	24
4	190402.1	Head	24
7	790202.1	Upper limbs	24
8	890602.1	Lower limbs	24

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996-13- 15-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	752804.3	Forearm	85
5	753204.3	Forearm	85
6	851814.3	Thigh	85
7	851822.3	Thigh	85
1	790202.1	Upper limbs	85
2	890402.1	Lower limbs	85
3	890202.1	Lower limbs	85
8	890600.1	Lower limbs	85
9	890402.1	Lower limbs	85

Seriously-Injured Occupants 22
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1996-48- 24-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	113000.6	Head	267
6	751800.2	Upper limbs	267
5	490602.1	Chest	267
7	490202.1	Chest	267
2	590602.1	Abdomen	267
3	790602.1	Upper limbs	267
4	890202.1	Lower limbs	267

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996-49-198-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	140652.4	Head	10
3	140632.4	Head	10
6	251204.3	Face	10
4	150404.3	Head	10
1	851814.3	Thigh	10
5	160606.2	Head	10
7	297402.1	Face	10
8	290602.1	Face	10
9	890602.1	Lower limbs	10

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996-73- 26-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	640228.5	Neck	75
5	450220.2	Chest	75
3	190604.2	Head	75
2	650200.2	Neck	75
6	752200.2	Shoulder	75
4	290602.1	Face	75
9	290202.1	Face	75
10	790202.1	Upper limbs	75
7	890202.1	Lower limbs	75
8	890202.1	Lower limbs	75

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1996-73- 53-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	160210.4	Head	42
2	490402.1	Chest	42
5	590402.1	Abdomen	42
4	790402.1	Upper limbs	42
3	890202.1	Lower limbs	42

Seriously-Injured Occupants 26
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1997- 2-128-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	752804.3	Forearm	329
2	790202.1	Upper limbs	329

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 4-167-1-2 -----

INJNO	ais90	BODYREG	RATWGT
2	853422.3	Lower leg	12
4	752804.3	Forearm	12
3	851606.2	Lower leg	12
1	390202.1	Neck	12

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 6- 14-1-2 -----

INJNO	ais90	BODYREG	RATWGT
18	640240.5	Neck	12
19	450230.3	Chest	12
17	140684.3	Head	12
13	851800.3	Thigh	12
15	850806.2	Knee	12
16	850806.2	Knee	12
20	541820.2	Abdomen	12
21	544222.2	Abdomen	12
14	751030.2	Shoulder	12
12	751800.2	Upper limbs	12
6	490202.1	Chest	12
1	290602.1	Face	12
2	290202.1	Face	12
3	290202.1	Face	12
4	290602.1	Face	12
7	590202.1	Abdomen	12
5	390202.1	Neck	12
8	790202.1	Upper limbs	12
9	890202.1	Lower limbs	12
10	890202.1	Lower limbs	12
11	890202.1	Lower limbs	12

Seriously-Injured Occupants 29
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1997- 6- 14-1-3 -----

INJNO	ais90	BODYREG	RATWGT
4	160899.3	Head	12
6	852600.2	Pelvis	12
5	751800.2	Upper limbs	12
1	590402.1	Abdomen	12
2	590600.1	Abdomen	12
3	890402.1	Lower limbs	12

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 6- 14-1-4 -----

INJNO	ais90	BODYREG	RATWGT
14	640442.5	Back	12
19	440810.5	Chest	12
13	450232.4	Chest	12
18	420206.4	Chest	12
16	150206.4	Head	12
20	541826.4	Abdomen	12
17	140684.3	Head	12
12	853000.3	Pelvis	12
7	851800.3	Thigh	12
8	851800.3	Thigh	12
6	752600.2	Arm (upper)	12
9	850806.2	Knee	12
10	850806.2	Knee	12
11	852600.2	Pelvis	12
3	490202.1	Chest	12
1	290202.1	Face	12
2	290202.1	Face	12
15	250602.1	Face	12
4	790202.1	Upper limbs	12
5	890202.1	Lower limbs	12

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 6-147-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	160824.5	Head	6
2	140210.5	Head	6
3	140678.4	Head	6
4	140678.4	Head	6
5	140650.4	Head	6
7	441402.3	Chest	6
6	250600.1	Face	6

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 9- 40-1-1 -----

INJNO	ais90	BODYREG	RATWGT
14	441410.4	Chest	72
1	150206.4	Head	72
2	140474.4	Head	72
15	450230.3	Chest	72
3	140684.3	Head	72
4	140684.3	Head	72
5	140622.3	Head	72
13	543800.3	Abdomen	72
8	251200.2	Face	72
9	251200.2	Face	72
6	150400.2	Head	72
7	150400.2	Head	72
10	150400.2	Head	72
11	650216.2	Neck	72
16	752200.2	Shoulder	72
23	490202.1	Chest	72
24	490402.1	Chest	72
17	290202.1	Face	72
18	297202.1	Face	72
19	290202.1	Face	72
20	290602.1	Face	72
21	297402.1	Face	72
22	290402.1	Face	72
12	190402.1	Head	72
25	790202.1	Upper limbs	72
26	790402.1	Upper limbs	72
27	890202.1	Lower limbs	72
28	890602.1	Lower limbs	72

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997- 9- 84-1-3 -----

INJNO	ais90	BODYREG	RATWGT
1	441402.3	Chest	22
4	290202.1	Face	22
5	290602.1	Face	22
2	160499.1	Head	22
3	590202.1	Abdomen	22

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-11- 11-1-1 -----

INJNO	ais90	BODYREG	RATWGT
29	441012.5	Chest	59
28	450240.4	Chest	59
31	521202.3	Abdomen	59
27	450804.2	Chest	59
30	441602.2	Chest	59
26	650220.2	Neck	59
2	290602.1	Face	59
3	290202.1	Face	59
4	290202.1	Face	59
6	290602.1	Face	59
7	290202.1	Face	59
8	290602.1	Face	59
1	190402.1	Head	59
5	190202.1	Head	59
9	190402.1	Head	59
10	390402.1	Neck	59
11	790202.1	Upper limbs	59
12	790202.1	Upper limbs	59
13	790602.1	Upper limbs	59
14	790202.1	Upper limbs	59
15	790402.1	Upper limbs	59
16	790202.1	Upper limbs	59
17	792006.1	Upper limbs	59
18	890202.1	Lower limbs	59
19	890202.1	Lower limbs	59
20	890602.1	Lower limbs	59
21	890402.1	Lower limbs	59
22	890202.1	Lower limbs	59
23	890402.1	Lower limbs	59
24	890402.1	Lower limbs	59
25	890202.1	Lower limbs	59

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-11-179-1-1 -----

INJNO	ais90	BODYREG	RATWGT
8	140202.5	Head	57
6	150200.3	Head	57
9	140662.3	Head	57
10	140684.3	Head	57
11	140612.3	Head	57
12	650206.3	Neck	57
7	150402.2	Head	57
3	290602.1	Face	57
1	190402.1	Head	57
2	190602.1	Head	57
4	390602.1	Neck	57
5	890202.1	Lower limbs	57

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-13-119-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	752604.3	Arm (upper)	82
2	740400.2	Upper limbs	82
3	715000.2	Upper limbs	82
5	990400.1	Unknown	82
4	740402.1	Upper limbs	82
8	790202.1	Upper limbs	82
6	890602.1	Lower limbs	82
7	890202.1	Lower limbs	82

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Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1997-43-224-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	851814.3	Thigh	55

Seriously-Injured Occupants 38
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1997-43-243-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	140622.3	Head	51
1	851814.3	Thigh	51
3	160699.2	Head	51

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-45- 97-1-2 -----

INJNO	ais90	BODYREG	RATWGT
5	450230.3	Chest	38
7	140622.3	Head	38
8	160699.2	Head	38
6	544220.2	Abdomen	38
4	752200.2	Shoulder	38
1	490402.1	Chest	38
2	790202.1	Upper limbs	38
3	890402.1	Lower limbs	38

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-45-138-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140202.5	Head	45
2	160822.5	Head	45
3	140626.5	Head	45
4	140646.5	Head	45
7	140674.5	Head	45
5	140684.3	Head	45
6	140684.3	Head	45
8	140682.3	Head	45
9	150200.3	Head	45
10	150404.3	Head	45
16	851800.3	Thigh	45
11	251004.2	Face	45
12	251200.2	Face	45
13	251200.2	Face	45
14	251800.2	Face	45
17	853404.2	Lower leg	45
18	851605.2	Lower leg	45
15	544220.2	Abdomen	45
20	290202.1	Face	45
21	290602.1	Face	45
22	297402.1	Face	45
23	297402.1	Face	45
19	890602.1	Lower limbs	45

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-49- 79-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	113000.6	Head	9
3	450242.5	Chest	9
4	441004.3	Chest	9
2	490202.1	Chest	9
5	790202.1	Upper limbs	9
6	790402.1	Upper limbs	9
7	790202.1	Upper limbs	9
8	890402.1	Lower limbs	9
9	890602.1	Lower limbs	9

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-73-162-1-1 -----

INJNO	ais90	BODYREG	RATWGT
5	441410.4	Chest	23
3	544240.3	Abdomen	23
1	450220.2	Chest	23
2	541822.2	Abdomen	23
4	544212.2	Abdomen	23
11	442214.1	Chest	23
9	850606.1	Pelvis	23
6	890202.1	Lower limbs	23
7	890402.1	Lower limbs	23
8	890402.1	Lower limbs	23
10	840602.1	Lower limbs	23

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-79- 30-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	650226.3	Neck	5
2	160414.2	Head	5
4	590402.1	Abdomen	5
5	590402.1	Abdomen	5
3	390402.1	Neck	5

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1997-81- 42-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	450252.4	Chest	37
1	851818.3	Thigh	37
3	190804.2	Head	37
4	490202.1	Chest	37
5	590202.1	Abdomen	37

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998- 3- 30-1-4 -----

INJNO	ais90	BODYREG	RATWGT
9	851800.3	Thigh	13
10	852400.2	Knee	13
11	851605.2	Lower leg	13
8	852600.2	Pelvis	13
14	752200.2	Shoulder	13
6	751800.2	Upper limbs	13
7	751800.2	Upper limbs	13
12	751800.2	Upper limbs	13
3	490402.1	Chest	13
1	290402.1	Face	13
5	640278.1	Neck	13
13	752404.1	Wrist/hand	13
2	790402.1	Upper limbs	13
4	890402.1	Lower limbs	13

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998- 6- 7-1-1 -----

INJNO	ais90	BODYREG	RATWGT
8	140628.5	Head	17
7	140606.3	Head	17
1	160606.2	Head	17
3	690202.1	Back	17
2	297602.1	Face	17
4	290600.1	Face	17
5	190600.1	Head	17
6	190202.1	Head	17

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998- 9- 40-1-1 -----

INJNO	ais90	BODYREG	RATWGT
7	420210.5	Chest	30
5	450230.3	Chest	30
6	450804.2	Chest	30
8	544220.2	Abdomen	30
9	541820.2	Abdomen	30
1	790402.1	Upper limbs	30
2	790202.1	Upper limbs	30
3	890202.1	Lower limbs	30
4	890402.1	Lower limbs	30
10	890202.1	Lower limbs	30
11	890202.1	Lower limbs	30

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1998-11-209-1-2 -----

INJNO	ais90	BODYREG	RATWGT
5	853422.3	Lower leg	49
4	851814.3	Thigh	49
6	851606.2	Lower leg	49
1	297602.1	Face	49
2	890202.1	Lower limbs	49
3	890202.1	Lower limbs	49

Seriously-Injured Occupants 49
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1998-12-191-1-2 -----

INJNO	ais90	BODYREG	RATWGT
2	851800.3	Thigh	19
3	851605.2	Lower leg	19
1	852600.2	Pelvis	19

Seriously-Injured Occupants 50
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=1998-13-102-1-4 -----

INJNO	ais90	BODYREG	RATWGT
4	140684.3	Head	87
5	140614.3	Head	87
8	690202.1	Back	87
1	290602.1	Face	87
6	290202.1	Face	87
7	290202.1	Face	87
2	190602.1	Head	87
3	160402.1	Head	87
9	790202.1	Upper limbs	87

----- NASS_Case=1998-45- 3-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	752604.3	Arm (upper)	250
2	290600.1	Face	250
3	290202.1	Face	250
4	790600.1	Upper limbs	250

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998-49- 76-1-1 -----

INJNO	ais90	BODYREG	RATWGT
7	450240.4	Chest	7
1	150206.4	Head	7
3	140438.4	Head	7
8	441406.3	Chest	7
2	140466.3	Head	7
4	140684.3	Head	7
5	140684.3	Head	7
9	752602.2	Arm (upper)	7
6	450804.2	Chest	7
10	753202.2	Forearm	7
11	752802.2	Forearm	7
13	290602.1	Face	7
14	290202.1	Face	7
12	190202.1	Head	7
17	590202.1	Abdomen	7
15	390202.1	Neck	7
16	790202.1	Upper limbs	7
18	790202.1	Upper limbs	7
19	790602.1	Upper limbs	7
20	890602.1	Lower limbs	7
21	890202.1	Lower limbs	7

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998-49- 95-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	992032.6	Unknown	7
2	919202.3	Chest	7
3	450222.3	Chest	7
4	853000.3	Pelvis	7

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1998-81- 8-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	113000.6	Head	15
2	650232.2	Neck	15
3	790202.1	Upper limbs	15
4	790402.1	Upper limbs	15
5	890402.1	Lower limbs	15
6	890402.1	Lower limbs	15

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1999- 9- 13-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	140212.6	Head	41
1	640276.6	Neck	41
5	450266.5	Chest	41
6	441450.4	Chest	41
7	420206.4	Chest	41
3	140466.3	Head	41
4	140684.3	Head	41
12	541822.2	Abdomen	41
8	750630.1	Elbow	41
9	790202.1	Upper limbs	41
10	790402.1	Upper limbs	41
11	790402.1	Upper limbs	41
13	790602.1	Upper limbs	41

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1999-11-205-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	441410.4	Chest	101
3	650620.2	Back	101
1	450220.2	Chest	101
4	541822.2	Abdomen	101
5	541610.2	Abdomen	101
7	190600.1	Head	101
8	190402.1	Head	101
6	790202.1	Upper limbs	101

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1999-43-104-1-1 -----

INJNO	ais90	BODYREG	RATWGT
3	140628.5	Head	51
9	140646.5	Head	51
4	140652.4	Head	51
5	140678.4	Head	51
6	140670.3	Head	51
7	140670.3	Head	51
8	160606.2	Head	51
1	541822.2	Abdomen	51
2	490202.1	Chest	51

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1999-45- 26-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	544226.4	Abdomen	84
2	853200.2	Ankle/foot	84
5	590402.1	Abdomen	84
3	740200.1	Upper limbs	84
4	790602.1	Upper limbs	84
6	890402.1	Lower limbs	84

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=1999-45- 43-1-1 -----

INJNO	ais90	BODYREG	RATWGT
18	140646.5	Head	45
19	160820.4	Head	45
14	541826.4	Abdomen	45
13	441406.3	Chest	45
15	140684.3	Head	45
12	650420.2	Back	45
16	650616.2	Back	45
5	752200.2	Shoulder	45
6	490202.1	Chest	45
9	490402.1	Chest	45
11	450212.1	Chest	45
1	290602.1	Face	45
2	290402.1	Face	45
8	290602.1	Face	45
4	190600.1	Head	45
17	190402.1	Head	45
10	390602.1	Neck	45
7	790402.1	Upper limbs	45
3	890402.1	Lower limbs	45

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=1999-49- 37-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	851814.3	Thigh	12
2	790602.1	Upper limbs	12

Seriously-Injured Occupants 61
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2000- 4- 22-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	450230.3	Chest	13
1	751800.2	Upper limbs	13

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000- 4- 22-1-3 -----

INJNO	ais90	BODYREG	RATWGT
7	140656.5	Head	13
6	150206.4	Head	13
8	140638.4	Head	13
3	541626.4	Abdomen	13
4	441414.3	Chest	13
5	441406.3	Chest	13
1	851800.3	Thigh	13
2	450220.2	Chest	13

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000- 4- 22-1-4 -----

INJNO	ais90	BODYREG	RATWGT
8	640422.5	Back	13
3	140612.3	Head	13
4	150404.3	Head	13
2	544240.3	Abdomen	13
9	251202.2	Face	13
10	251202.2	Face	13
7	541420.2	Abdomen	13
1	290602.1	Face	13
5	290202.1	Face	13
6	290602.1	Face	13
11	297402.1	Face	13
12	290202.1	Face	13

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000-11- 20-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140652.4	Head	70
2	650224.3	Neck	70
3	650432.2	Back	70
4	650432.2	Back	70
5	650432.2	Back	70
9	160606.2	Head	70
6	851605.2	Lower leg	70
11	690402.1	Back	70
7	890602.1	Lower limbs	70
8	890402.1	Lower limbs	70
10	890402.1	Lower limbs	70

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000-12- 64-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140656.5	Head	35
3	160804.4	Head	35
2	140660.3	Head	35

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000-41-126-1-1 -----

INJNO	ais90	BODYREG	RATWGT
5	140629.4	Head	30
4	160802.3	Head	30
1	650224.3	Neck	30
2	650218.2	Neck	30
3	650484.1	Back	30

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2000-45- 1-1-3 -----

INJNO	ais90	BODYREG	RATWGT
6	160802.3	Head	261
4	852602.2	Pelvis	261
5	852602.2	Pelvis	261
2	490202.1	Chest	261
1	290602.1	Face	261
3	790202.1	Upper limbs	261

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2000-45-106-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140628.5	Head	48
6	140646.5	Head	48
5	441406.3	Chest	48
2	290600.1	Face	48
3	790202.1	Upper limbs	48
4	890202.1	Lower limbs	48

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000-45-154-1-1 -----

INJNO	ais90	BODYREG	RATWGT
10	441410.4	Chest	84
7	140652.4	Head	84
8	140602.3	Head	84
9	140662.3	Head	84
11	190202.1	Head	84
5	590602.1	Abdomen	84
6	590402.1	Abdomen	84
1	790602.1	Upper limbs	84
2	790402.1	Upper limbs	84
12	790202.1	Upper limbs	84
3	890602.1	Lower limbs	84
4	890402.1	Lower limbs	84

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2000-49-267-1-2 -----

INJNO	ais90	BODYREG	RATWGT
5	140606.3	Head	10
3	853422.3	Lower leg	10
1	250608.2	Face	10
4	160610.2	Head	10
2	851606.2	Lower leg	10
7	290602.1	Face	10
6	390402.1	Neck	10

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001- 4- 30-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	853408.3	Lower leg	16
8	851606.2	Lower leg	16
9	490402.1	Chest	16
1	290600.1	Face	16
7	290202.1	Face	16
2	790402.1	Upper limbs	16
6	790602.1	Upper limbs	16
3	890602.1	Lower limbs	16
5	890602.1	Lower limbs	16

Seriously-Injured Occupants 72
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2001- 4- 81-1-2 -----

INJNO	ais90	BODYREG	RATWGT
6	140652.4	Head	16
1	150404.3	Head	16
5	140682.3	Head	16
7	140604.3	Head	16
2	851814.3	Thigh	16
3	190402.1	Head	16
4	890602.1	Lower limbs	16

Seriously-Injured Occupants
 in Crashes Like the FMVSS Side Pole Test
 1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001-11-194-1-2 -----

INJNO	ais90	BODYREG	RATWGT
27	140218.6	Head	45
24	140656.5	Head	45
30	420208.4	Chest	45
23	150206.4	Head	45
32	541826.4	Abdomen	45
33	541626.4	Abdomen	45
29	421802.3	Chest	45
31	441430.3	Chest	45
35	450230.3	Chest	45
25	140684.3	Head	45
26	140684.3	Head	45
38	150404.3	Head	45
34	440604.3	Abdomen	45
20	851800.3	Thigh	45
36	650416.2	Back	45
28	441602.2	Chest	45
37	540620.2	Abdomen	45
22	852602.2	Pelvis	45
11	751030.2	Shoulder	45
21	890604.2	Lower limbs	45
12	490602.1	Chest	45
13	490202.1	Chest	45
15	490202.1	Chest	45
2	290602.1	Face	45
3	290202.1	Face	45
4	290202.1	Face	45
5	290202.1	Face	45
6	290602.1	Face	45
1	190202.1	Head	45
7	190602.1	Head	45
8	190202.1	Head	45
14	590202.1	Abdomen	45
9	390202.1	Neck	45
10	790602.1	Upper limbs	45
16	790202.1	Upper limbs	45
17	790602.1	Upper limbs	45
39	790202.1	Upper limbs	45
40	790602.1	Upper limbs	45
18	890202.1	Lower limbs	45
19	890202.1	Lower limbs	45

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2001-12- 19-1-2 -----

INJNO	ais90	BODYREG	RATWGT
3	140606.3	Head	27
4	140684.3	Head	27
1	851814.3	Thigh	27
2	290602.1	Face	27
5	290402.1	Face	27
6	290202.1	Face	27

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001-49-120-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	251204.3	Face	12
2	150202.3	Head	12
3	852604.3	Pelvis	12
4	850614.2	Pelvis	12
5	297402.1	Face	12
6	297602.1	Face	12
7	240416.1	Face	12
8	290402.1	Face	12
9	290602.1	Face	12
10	890202.1	Lower limbs	12

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001-73-181-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	441410.4	Chest	57
3	450252.4	Chest	57
1	440606.4	Abdomen	57
5	852602.2	Pelvis	57
4	752200.2	Shoulder	57
6	190602.1	Head	57
7	190402.1	Head	57
8	790402.1	Upper limbs	57
9	890202.1	Lower limbs	57
10	890402.1	Lower limbs	57

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001-74-131-1-1 -----

INJNO	ais90	BODYREG	RATWGT
3	140628.5	Head	17
6	160822.5	Head	17
1	140652.4	Head	17
10	650624.3	Back	17
2	140606.3	Head	17
4	140662.3	Head	17
5	140662.3	Head	17
7	540640.3	Abdomen	17
8	852604.3	Pelvis	17
9	852602.2	Pelvis	17
11	753000.2	Shoulder	17
12	290402.1	Face	17
13	290602.1	Face	17

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2001-75- 9-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	450250.3	Chest	149
5	441499.3	Chest	149
4	853404.2	Lower leg	149
2	752200.2	Shoulder	149
3	753000.2	Shoulder	149
6	251406.1	Face	149

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002- 9- 44-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	851800.3	Thigh	42
5	851800.3	Thigh	42
2	851605.2	Lower leg	42
3	853404.2	Lower leg	42
1	490202.1	Chest	42

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-11- 18-1-1 -----

INJNO	ais90	BODYREG	RATWGT
6	441410.4	Chest	39
7	450232.4	Chest	39
13	543800.3	Abdomen	39
4	851606.2	Lower leg	39
11	544220.2	Abdomen	39
1	853414.2	Ankle/foot	39
5	752200.2	Shoulder	39
3	840802.2	Lower limbs	39
12	240602.1	Face	39
8	190402.1	Head	39
2	590402.1	Abdomen	39
9	790402.1	Upper limbs	39
10	890402.1	Lower limbs	39

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-11- 53-1-1 -----

INJNO	ais90	BODYREG	RATWGT
7	140640.4	Head	85
10	442202.3	Chest	85
9	140606.3	Head	85
11	544212.2	Abdomen	85
8	650220.2	Neck	85
12	290202.1	Face	85
13	290402.1	Face	85
4	590402.1	Abdomen	85
5	590202.1	Abdomen	85
1	790202.1	Upper limbs	85
2	790402.1	Upper limbs	85
3	890402.1	Lower limbs	85
6	890202.1	Lower limbs	85

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-11-152-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	450264.4	Chest	39
14	160406.2	Head	39
3	544222.2	Abdomen	39
8	544212.2	Abdomen	39
5	753000.2	Shoulder	39
7	690202.1	Back	39
13	490402.1	Chest	39
1	290402.1	Face	39
2	290202.1	Face	39
6	190202.1	Head	39
9	790202.1	Upper limbs	39
10	790602.1	Upper limbs	39
11	890202.1	Lower limbs	39
12	890202.1	Lower limbs	39

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-12- 5-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	420208.4	Chest	60
2	450222.3	Chest	60
3	441402.3	Chest	60
7	650228.3	Neck	60
8	131499.2	Head	60
6	290602.1	Face	60
4	590202.1	Abdomen	60
5	590402.1	Abdomen	60

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-43-218-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	441410.4	Chest	141
7	140678.4	Head	141
8	140678.4	Head	141
1	250808.3	Face	141
2	150200.3	Head	141
3	150404.3	Head	141
5	190402.1	Head	141
9	590402.1	Abdomen	141
6	790602.1	Upper limbs	141
10	890402.1	Lower limbs	141

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-45- 30-1-1 -----

INJNO	ais90	BODYREG	RATWGT
5	160824.5	Head	42
11	140628.5	Head	42
13	140442.4	Head	42
16	441406.3	Chest	42
17	442202.3	Chest	42
6	150404.3	Head	42
7	150202.3	Head	42
10	140612.3	Head	42
12	140466.3	Head	42
9	853000.3	Pelvis	42
14	450220.2	Chest	42
15	251202.2	Face	42
8	852602.2	Pelvis	42
1	290600.1	Face	42
2	290402.1	Face	42
4	590402.1	Abdomen	42
3	890402.1	Lower limbs	42

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2002-45-122-1-1 -----

INJNO	ais90	BODYREG	RATWGT
10	140654.5	Head	53
6	450232.4	Chest	53
11	140629.4	Head	53
16	441406.3	Chest	53
13	150200.3	Head	53
9	251800.2	Face	53
14	251202.2	Face	53
15	250802.2	Face	53
12	150402.2	Head	53
5	752200.2	Shoulder	53
2	290402.1	Face	53
4	290602.1	Face	53
7	297402.1	Face	53
1	190602.1	Head	53
8	190402.1	Head	53
3	790402.1	Upper limbs	53

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2002-48-162-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	160808.4	Head	206
2	544222.2	Abdomen	206
4	297602.1	Face	206
5	240416.1	Face	206
3	190402.1	Head	206
6	990200.1	Unknown	206

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2003- 8- 16-1-1 -----

INJNO	ais90	BODYREG	RATWGT
2	450222.3	Chest	214
3	490402.1	Chest	214
1	890402.1	Lower limbs	214

Seriously-Injured Occupants 89
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2003- 9-154-2-1 -----

INJNO	ais90	BODYREG	RATWGT
1	450214.3	Chest	24

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2003- 9-244-1-1 -----

INJNO	ais90	BODYREG	RATWGT
17	140212.6	Head	22
18	140688.4	Head	22
19	140688.4	Head	22
20	150206.4	Head	22
12	450230.3	Chest	22
5	851800.3	Thigh	22
13	541820.2	Abdomen	22
14	544220.2	Abdomen	22
15	541620.2	Abdomen	22
11	752200.2	Shoulder	22
9	690202.1	Back	22
1	250600.1	Face	22
16	190402.1	Head	22
2	790202.1	Upper limbs	22
3	790600.1	Upper limbs	22
7	790202.1	Upper limbs	22
8	790600.1	Upper limbs	22
4	890202.1	Lower limbs	22
6	890202.1	Lower limbs	22
10	890202.1	Lower limbs	22

----- NASS_Case=2003-11- 87-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	650226.3	Neck	253
6	650224.3	Neck	253
4	590402.1	Abdomen	253
2	790202.1	Upper limbs	253
3	790402.1	Upper limbs	253
5	890402.1	Lower limbs	253

Seriously-Injured Occupants 92
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2003-12-190-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	752604.3	Arm (upper)	2,988
4	160406.2	Head	2,988
2	190602.1	Head	2,988
6	190602.1	Head	2,988
3	890402.1	Lower limbs	2,988
5	890402.1	Lower limbs	2,988

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2003-43- 19-1-2 -----

INJNO	ais90	BODYREG	RATWGT
5	851814.3	Thigh	30
6	544222.2	Abdomen	30
9	640478.1	Back	30
1	251404.1	Face	30
2	290602.1	Face	30
4	290602.1	Face	30
7	290402.1	Face	30
8	251402.1	Face	30
3	890202.1	Lower limbs	30

----- NASS_Case=2003-43- 78-1-2 -----

INJNO	ais90	BODYREG	RATWGT
5	441410.4	Chest	35
1	851814.3	Thigh	35
2	290602.1	Face	35
3	297402.1	Face	35
4	590602.1	Abdomen	35

----- NASS_Case=2003-43-223-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140684.3	Head	30
2	140684.3	Head	30
7	160606.2	Head	30
5	490402.1	Chest	30
6	490202.1	Chest	30
3	790600.1	Upper limbs	30
4	790202.1	Upper limbs	30

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2003-48-206-1-1 -----

INJNO	ais90	BODYREG	RATWGT
6	442202.3	Chest	483
1	853000.3	Pelvis	483
5	440802.2	Chest	483
11	160414.2	Head	483
4	440602.2	Abdomen	483
2	852602.2	Pelvis	483
3	852602.2	Pelvis	483
8	640278.1	Neck	483
9	390402.1	Neck	483
7	853602.1	Ankle/foot	483
12	990200.1	Unknown	483
13	990400.1	Unknown	483
10	890402.1	Lower limbs	483

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2003-74- 20-1-3 -----

INJNO	ais90	BODYREG	RATWGT
1	140656.5	Head	21
2	140210.5	Head	21
3	140666.5	Head	21
4	140666.5	Head	21
5	140610.5	Head	21
13	160822.5	Head	21
6	140684.3	Head	21
7	140684.3	Head	21
8	251406.1	Face	21
9	290602.1	Face	21
10	290202.1	Face	21
11	190202.1	Head	21
12	190402.1	Head	21

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2003-76- 71-1-2 -----

INJNO	ais90	BODYREG	RATWGT
2	752804.3	Forearm	122
1	851814.3	Thigh	122
8	160610.2	Head	122
3	752802.2	Forearm	122
4	753202.2	Forearm	122
7	752200.2	Shoulder	122
9	190202.1	Head	122
5	730204.1	Upper limbs	122
6	740200.1	Upper limbs	122
10	790202.1	Upper limbs	122
11	790402.1	Upper limbs	122

Seriously-Injured Occupants 99
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004- 4- 39-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	450264.4	Chest	14
2	544222.2	Abdomen	14

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2004- 4-128-1-1 -----

INJNO	ais90	BODYREG	RATWGT
11	441410.4	Chest	170
7	140652.4	Head	170
9	150206.4	Head	170
5	450230.3	Chest	170
4	150404.3	Head	170
8	140684.3	Head	170
10	140620.3	Head	170
12	541824.3	Abdomen	170
2	290602.1	Face	170
3	290202.1	Face	170
6	190402.1	Head	170
1	790202.1	Upper limbs	170

Seriously-Injured Occupants 101
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004- 5- 96-1-1 -----

INJNO	ais90	BODYREG	RATWGT
4	650222.3	Neck	126
1	290202.1	Face	126
3	297602.1	Face	126
2	890202.1	Lower limbs	126

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004-11- 3-1-1 -----

INJNO	ais90	BODYREG	RATWGT
6	450230.3	Chest	39
4	640678.1	Back	39
8	490402.1	Chest	39
7	590402.1	Abdomen	39
3	640278.1	Neck	39
1	790402.1	Upper limbs	39
2	790402.1	Upper limbs	39
5	890402.1	Lower limbs	39

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2004-11- 59-1-1 -----

INJNO	ais90	BODYREG	RATWGT
6	441450.4	Chest	42
7	450240.4	Chest	42
3	150200.3	Head	42
4	140684.3	Head	42
5	541820.2	Abdomen	42
1	790600.1	Upper limbs	42
2	790202.1	Upper limbs	42

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2004-12-180-1-1 -----

INJNO	ais90	BODYREG	RATWGT
10	113000.6	Head	16
16	450266.5	Chest	16
26	420202.4	Chest	16
29	441450.4	Chest	16
25	440606.4	Abdomen	16
12	251204.3	Face	16
21	541822.2	Abdomen	16
22	544222.2	Abdomen	16
23	542810.2	Abdomen	16
27	852600.2	Pelvis	16
14	752200.2	Shoulder	16
28	852002.2	Lower limbs	16
17	441002.1	Chest	16
1	290202.1	Face	16
2	290202.1	Face	16
3	290602.1	Face	16
4	290600.1	Face	16
5	290802.1	Face	16
6	290202.1	Face	16
7	290402.1	Face	16
11	250400.1	Face	16
13	251099.1	Face	16
15	251404.1	Face	16
24	540210.1	Abdomen	16
8	390202.1	Neck	16
9	390602.1	Neck	16
18	790202.1	Upper limbs	16
19	790202.1	Upper limbs	16
30	790800.1	Upper limbs	16
20	890202.1	Lower limbs	16

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004-45-203-1-2 -----

INJNO	ais90	BODYREG	RATWGT
3	113000.6	Head	71
1	751800.2	Upper limbs	71
2	890202.1	Lower limbs	71

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004-49-156-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140628.5	Head	9
2	140652.4	Head	9
3	121602.4	Head	9
18	160820.4	Head	9
10	251204.3	Face	9
4	150200.3	Head	9
6	140620.3	Head	9
7	140684.3	Head	9
8	122899.3	Head	9
9	121099.3	Head	9
11	251800.2	Face	9
5	150400.2	Head	9
12	541822.2	Abdomen	9
13	544222.2	Abdomen	9
14	542210.2	Abdomen	9
15	852602.2	Pelvis	9
16	297402.1	Face	9
17	297402.1	Face	9

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2004-74- 37-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	640228.5	Neck	9
2	442202.3	Chest	9
3	160610.2	Head	9
5	290602.1	Face	9
4	190602.1	Head	9

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2004-74-224-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	441434.4	Chest	8
2	441406.3	Chest	8
3	450220.2	Chest	8
10	160610.2	Head	8
4	753000.2	Shoulder	8
5	752200.2	Shoulder	8
7	290202.1	Face	8
6	730410.1	Upper limbs	8
8	790202.1	Upper limbs	8
9	790202.1	Upper limbs	8

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates

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----- NASS_Case=2004-74-270-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	140654.5	Head	8
2	150206.4	Head	8
12	160820.4	Head	8
8	251204.3	Face	8
3	140662.3	Head	8
4	140622.3	Head	8
5	140684.3	Head	8
6	140684.3	Head	8
7	140466.3	Head	8
9	752200.2	Shoulder	8
10	297402.1	Face	8
11	290402.1	Face	8

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
1995-2004 NASS CDS Data and Simple Weighted Estimates
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----- NASS_Case=2004-75- 80-1-2 -----

INJNO	ais90	BODYREG	RATWGT
1	450264.4	Chest	38
2	541824.3	Abdomen	38
3	160414.2	Head	38
4	753000.2	Shoulder	38

Seriously-Injured Occupants
in Crashes Like the FMVSS Side Pole Test
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----- NASS_Case=2004-79- 1-1-1 -----

INJNO	ais90	BODYREG	RATWGT
1	140640.4	Head	8
2	140620.3	Head	8
3	140684.3	Head	8
9	853000.3	Pelvis	8
7	450220.2	Chest	8
5	251202.2	Face	8
4	160610.2	Head	8
8	852602.2	Pelvis	8
6	251404.1	Face	8
10	290602.1	Face	8
12	297402.1	Face	8
13	240416.1	Face	8
11	190602.1	Head	8

NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)
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NOTE: This session is executing on the WIN_PRO platform.

NOTE: SAS initialization used:
real time 0.56 seconds
cpu time 0.32 seconds

1 libname nass1995 'n:\format_datasets\nass95fm';
NOTE: Libref NASS1995 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass95fm
2 libname nass1996 'n:\format_datasets\nass96fm';
NOTE: Libref NASS1996 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass96fm
3 libname nass1997 'n:\format_datasets\nass97fm';
NOTE: Libref NASS1997 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass97fm
4 libname nass1998 'n:\format_datasets\nass98fm';
NOTE: Libref NASS1998 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass98fm
5 libname nass1999 'n:\format_datasets\nass99fm';
NOTE: Libref NASS1999 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass99fm
6 libname nass2000 'n:\format_datasets\nass2000fm';
NOTE: Libref NASS2000 was successfully assigned as follows:
Engine: V6
Physical Name: n:\format_datasets\nass2000fm
7 libname nass2001 'n:\format_datasets\nass2001fm';
NOTE: Libref NASS2001 was successfully assigned as follows:
Engine: V8
Physical Name: n:\format_datasets\nass2001fm
8 libname nass2002 'n:\format_datasets\nass2002fm';
NOTE: Libref NASS2002 was successfully assigned as follows:
Engine: V8
Physical Name: n:\format_datasets\nass2002fm
9 libname nass2003 'n:\format_datasets\nass2003fm';
NOTE: Libref NASS2003 was successfully assigned as follows:
Engine: V8
Physical Name: n:\format_datasets\nass2003fm
10 libname nass2004 'n:\format_datasets\nass2004fm';
NOTE: Libref NASS2004 was successfully assigned as follows:
Engine: V8
Physical Name: n:\format_datasets\nass2004fm
11 libname nass04db 'n:\nassdb\nass2004';
NOTE: Libref NASS04DB was successfully assigned as follows:
Engine: V8
Physical Name: n:\nassdb\nass2004
12 libname library 'r:\farssas\formats\winfmt91.610';
NOTE: Libref LIBRARY was successfully assigned as follows:

```
Engine:          V6
Physical Name:   r:\farssas\formats\winfmt91.610
13 options ls=78 pagesize=57 nofmterr
14   formchar='| - „...†‡+‰Š<Œ+=| -/\<>*';
15 proc format;
16 value yesno
17   0='no'
18   1='yes';
```

NOTE: Format YESNO has been output.

```
19
20 value $bodyreg
21   'A'='Arm (upper)''
22   'B'='Back'
23   'C'='Chest'
24   'E'='Elbow'
25   'F'='Face'
26   'H'='Head'
27   'K'='Knee'
28   'L'='Lower leg'
29   'M'='Abdomen'
30   'N'='Neck'
31   'O'='Whole body'
32   'P'='Pelvis'
33   'Q'='Ankle/foot'
34   'R'='Forearm'
35   'S'='Shoulder'
36   'T'='Thigh'
37   'U'='Unknown'
38   'W'='Wrist/hand'
39   'X'='Upper limbs'
40   'Y'='Lower limbs';
```

NOTE: Format \$BODYREG has been output.

```
41
```

NOTE: PROCEDURE FORMAT used:

```
real time          0.04 seconds
cpu time           0.00 seconds
```

```
42 data check;
43 input listed year psu caseno vehno occno;
44 cards;
```

NOTE: The data set WORK.CHECK has 108 observations and 6 variables.

NOTE: DATA statement used:

```
real time          0.01 seconds
cpu time           0.00 seconds
```

```
153 ;
154
155 data oi oi3;
156 set nass1995.oi(in=yr1995)
157     nass1996.oi(in=yr1996)
158     nass1997.oi(in=yr1997)
159     nass1998.oi(in=yr1998)
160     nass1999.oi(in=yr1999)
```

```

161     nass2000.oi(in=yr2000)
162     nass2001.oi(in=yr2001)
163     nass2002.oi(in=yr2002)
164     nass2003.oi(in=yr2003)
165     nass2004.oi(in=yr2004);
166   if 1<=caseno<=500;
167   if yr1995 then year=1995;
168   else if yr1996 then year=1996;
169   else if yr1997 then year=1997;
170   else if yr1998 then year=1998;
171   else if yr1999 then year=1999;
172   else if yr2000 then year=2000;
173   else if yr2001 then year=2001;
174   else if yr2002 then year=2002;
175   else if yr2003 then year=2003;
176   else if yr2004 then year=2004;
177   output oi;
178   if 3<=ais<=6 then output oi3;
179

```

```

NOTE: Format AIS was not found or could not be loaded.
NOTE: Format ASPECT was not found or could not be loaded.
NOTE: Format DIRINJ was not found or could not be loaded.
NOTE: Format INJSOU was not found or could not be loaded.
NOTE: Format INTRUNO was not found or could not be loaded.
NOTE: Format BODYREG was not found or could not be loaded.
NOTE: Format SOUCON was not found or could not be loaded.
NOTE: Format SOUDAT was not found or could not be loaded.
NOTE: Format STRUTYPE was not found or could not be loaded.
NOTE: Format VEHNO was not found or could not be loaded.
NOTE: Format $SYSORG was not found or could not be loaded.
NOTE: Format $BDYREGN was not found or could not be loaded.
NOTE: Format $LESION was not found or could not be loaded.
NOTE: There were 29638 observations read from the data set NASS1995.OI.
NOTE: There were 33147 observations read from the data set NASS1996.OI.
NOTE: There were 29234 observations read from the data set NASS1997.OI.
NOTE: There were 30340 observations read from the data set NASS1998.OI.
NOTE: There were 29550 observations read from the data set NASS1999.OI.
NOTE: There were 27726 observations read from the data set NASS2000.OI.
NOTE: There were 26342 observations read from the data set NASS2001.OI.
NOTE: There were 28802 observations read from the data set NASS2002.OI.
NOTE: There were 28990 observations read from the data set NASS2003.OI.
NOTE: There were 30839 observations read from the data set NASS2004.OI.
NOTE: The data set WORK.OI has 293861 observations and 25 variables.
NOTE: The data set WORK.OI3 has 38098 observations and 25 variables.
NOTE: DATA statement used:
      real time           3.92 seconds
      cpu time            0.60 seconds

```

```

180 data select;
181 merge check(in=a) oi3(in=b);
182 by year psu caseno vehno occno;
183 if a=1;
184 length SeriousInjury $13;
185 if bodyreg in('H','F') then SeriousInjury='HeadFace';
186 else if bodyreg='N' then SeriousInjury='Neck';

```

```
187 else if bodyreg in('B','C') then SeriousInjury='BackChest';
188 else if bodyreg in('M','P') then SeriousInjury='AbdomenPelvis';
189 else if bodyreg in('K','L','Q','T','Y') then SeriousInjury='Legs';
190 else if bodyreg in('A','E','R','W','Y','S') then
190! SeriousInjury='ArmsShoulders';
191 else if bodyreg in('O','U') then SeriousInjury='Unknown';
192
```

NOTE: Format VEHNO was not found or could not be loaded.

NOTE: Format AIS was not found or could not be loaded.

NOTE: Format ASPECT was not found or could not be loaded.

NOTE: Format DIRINJ was not found or could not be loaded.

NOTE: Format INJSOU was not found or could not be loaded.

NOTE: Format INTRUNO was not found or could not be loaded.

NOTE: Format BODYREG was not found or could not be loaded.

NOTE: Format SOUCON was not found or could not be loaded.

NOTE: Format SOUDAT was not found or could not be loaded.

NOTE: Format STRUTYPE was not found or could not be loaded.

NOTE: Format \$SYSORG was not found or could not be loaded.

NOTE: Format \$BDYREGN was not found or could not be loaded.

NOTE: Format \$LESION was not found or could not be loaded.

NOTE: There were 108 observations read from the data set WORK.CHECK.

NOTE: There were 38098 observations read from the data set WORK.OI3.

NOTE: The data set WORK.SELECT has 353 observations and 27 variables.

NOTE: DATA statement used:

```
real time          0.10 seconds
cpu time           0.07 seconds
```

```
193 data occ;
194 set select;
195 by year psu caseno vehno occno;
196 retain RawSeriousHeadFace RawSeriousNeck
197         RawSeriousBackChest RawSeriousAbdomenPelvis
198         RawSeriousLegs RawSeriousArmsShoulders
199         RawSeriousUnknown;
200 if first.occno then do;
201     RawSeriousHeadFace=0;
202     RawSeriousNeck=0;
203     RawSeriousBackChest=0;
204     RawSeriousAbdomenPelvis=0;
205     RawSeriousLegs=0;
206     RawSeriousArmsShoulders=0;
207     RawSeriousUnknown=0;
208 end;
209 if bodyreg in('H','F') then RawSeriousHeadFace=1;
210 else if bodyreg='N' then RawSeriousNeck=1;
211 else if bodyreg in('B','C') then RawSeriousBackChest=1;
212 else if bodyreg in('M','P') then RawSeriousAbdomenPelvis=1;
213 else if bodyreg in('K','L','Q','T','Y') then RawSeriousLegs=1;
214 else if bodyreg in('A','E','R','W','Y') then RawSeriousArmsShoulders=1;
215 else if bodyreg in('O','U') then RawSeriousUnknown=1;
216 if last.occno;
217 charyear='    ';
218 charyear=year;
219 charpsu='    ';
220 charpsu=psu;
```

```

221 charcaseno='  ';
222 charcaseno=caseno;
223 charvehno='  ';
224 if 1<=vehno<=9 then charvehno=vehno;
225 else charvehno='X';
226 charoccno='  ';
227 if 1<=occno<=9 then charoccno=occno;
228 else charoccno='X';
229 NASS_Case=charyear||'-'||
230         charpsu||'-'||
231         charcaseno||'-'||
232         charvehno||'-'||
233         charoccno;
234

```

NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).
218:10 220:9 222:12 224:31 227:31

NOTE: Format VEHNO was not found or could not be loaded.
NOTE: Format AIS was not found or could not be loaded.
NOTE: Format ASPECT was not found or could not be loaded.
NOTE: Format DIRINJ was not found or could not be loaded.
NOTE: Format INJSOU was not found or could not be loaded.
NOTE: Format INTRUNO was not found or could not be loaded.
NOTE: Format BODYREG was not found or could not be loaded.
NOTE: Format SOUCON was not found or could not be loaded.
NOTE: Format SOUDAT was not found or could not be loaded.
NOTE: Format STRUTYPE was not found or could not be loaded.
NOTE: Format \$SYSORG was not found or could not be loaded.
NOTE: Format \$BDYREGN was not found or could not be loaded.
NOTE: Format \$LESION was not found or could not be loaded.
NOTE: There were 353 observations read from the data set WORK.SELECT.
NOTE: The data set WORK.OCC has 108 observations and 40 variables.
NOTE: DATA statement used:

real time	0.06 seconds
cpu time	0.03 seconds

```

235 proc summary data=occ nway missing;
236 classes RawSeriousHeadFace RawSeriousNeck
237         RawSeriousBackChest RawSeriousAbdomenPelvis
238         RawSeriousLegs RawSeriousArmsShoulders
239         RawSeriousUnknown;
240 var ratwgt;
241 format RawSeriousHeadFace RawSeriousNeck
242         RawSeriousBackChest RawSeriousAbdomenPelvis
243         RawSeriousLegs RawSeriousArmsShoulders
244         RawSeriousUnknown yesno.;
245 output out=result sum=;
246

```

NOTE: There were 108 observations read from the data set WORK.OCC.
NOTE: The data set WORK.RESULT has 21 observations and 10 variables.
NOTE: PROCEDURE SUMMARY used:

real time	0.01 seconds
cpu time	0.01 seconds

```

247 proc print data=result label split='*';
248 id RawSeriousHeadFace;
249 var RawSeriousNeck RawSeriousBackChest
250     RawSeriousAbdomenPelvis RawSeriousLegs
251     RawSeriousArmsShoulders RawSeriousUnknown
252     _freq_ ratwgt;
253 format ratwgt comma6.0;
254 sum _freq_ ratwgt;
255 label _freq_='Cases'
256     ratwgt='Simple*Weighting*Factor';
257 title1 'Seriously-Injured Occupants';
258 title2 'in Crashes Like the FMVSS Side Pole Test';
259 title3 '1995-2004 NASS CDS Data and Simple Weighted Estimates';
260

```

NOTE: There were 21 observations read from the data set WORK.RESULT.

NOTE: PROCEDURE PRINT used:

real time	0.00 seconds
cpu time	0.00 seconds

```

261 data UnusualOccs;
262 set occ;
263 if RawSeriousHeadFace=0 and
264     RawSeriousNeck=0 and
265     RawSeriousBackChest=0 and
266     RawSeriousAbdomenPelvis=0 and
267     RawSeriousLegs=0;
268

```

NOTE: Format VEHNO was not found or could not be loaded.
NOTE: Format AIS was not found or could not be loaded.
NOTE: Format ASPECT was not found or could not be loaded.
NOTE: Format DIRINJ was not found or could not be loaded.
NOTE: Format INJSOU was not found or could not be loaded.
NOTE: Format INTRUNO was not found or could not be loaded.
NOTE: Format BODYREG was not found or could not be loaded.
NOTE: Format SOUCON was not found or could not be loaded.
NOTE: Format SOUDAT was not found or could not be loaded.
NOTE: Format STRUTYPE was not found or could not be loaded.
NOTE: Format \$SYSORG was not found or could not be loaded.
NOTE: Format \$BDYREGN was not found or could not be loaded.
NOTE: Format \$LESION was not found or could not be loaded.
NOTE: There were 108 observations read from the data set WORK.OCC.
NOTE: The data set WORK.UNUSUALOCCS has 5 observations and 40 variables.
NOTE: DATA statement used:

real time	0.04 seconds
cpu time	0.01 seconds

```

269 proc print data=UnusualOccs;
270 id year;
271 var psu caseno vehno occno
272     RawSeriousArmsShoulders RawSeriousUnknown
273     ratwgt;
274 format RawSeriousArmsShoulders RawSeriousUnknown yesno.

```

```
275          ratwgt comma6.0;
276 sum ratwgt;
277 title1 'Seriously-Injured Occupants without AIS 3+ Injury';
278 title2 'to the Head, Face, Neck, Back, Chest, Abdomen, Pelvis, or Legs';
279 title3 'in Crashes Like the FMVSS Side Pole Test';
280 title4 '1995-2004 NASS CDS Data and Simple Weighted Estimates';
281
```

NOTE: There were 5 observations read from the data set WORK.UNUSUALOCCS.

NOTE: PROCEDURE PRINT used:

```
real time          0.00 seconds
cpu time           0.00 seconds
```

```
282 data UnusualInjs;
283 merge UnusualOccs(in=a) oi;
284 by year psu caseno vehno occno;
285 if a=1;
286 if region90=.u then region90=9;
287 ais90=100000*region90
288     + 10000*strutype
289     + 100*struspec
290     + injlevel
291     + 0.1*ais;
292
```

NOTE: Format VEHNO was not found or could not be loaded.

NOTE: Format AIS was not found or could not be loaded.

NOTE: Format ASPECT was not found or could not be loaded.

NOTE: Format DIRINJ was not found or could not be loaded.

NOTE: Format INJSOU was not found or could not be loaded.

NOTE: Format INTRUNO was not found or could not be loaded.

NOTE: Format BODYREG was not found or could not be loaded.

NOTE: Format SOUCON was not found or could not be loaded.

NOTE: Format SOUDAT was not found or could not be loaded.

NOTE: Format STRUTYPE was not found or could not be loaded.

NOTE: Format \$SYSORG was not found or could not be loaded.

NOTE: Format \$BDYREGN was not found or could not be loaded.

NOTE: Format \$LESION was not found or could not be loaded.

NOTE: There were 5 observations read from the data set WORK.UNUSUALOCCS.

NOTE: There were 293861 observations read from the data set WORK.OI.

NOTE: The data set WORK.UNUSUALINJS has 32 observations and 41 variables.

NOTE: DATA statement used:

```
real time          0.39 seconds
cpu time           0.35 seconds
```

```
293 proc sort data=UnusualInjs;
294 by year psu caseno vehno occno
295     descending ais bodyreg;
296
```

NOTE: There were 32 observations read from the data set WORK.UNUSUALINJS.

NOTE: The data set WORK.UNUSUALINJS has 32 observations and 41 variables.

NOTE: PROCEDURE SORT used:

```
real time          0.03 seconds
cpu time           0.01 seconds
```

```
297 proc print data=UnusualInjs;
298 id year;
299 var psu caseno vehno occno
300     ais90 bodyreg ratwgt;
301 format bodyreg $bodyreg.
302     ratwgt comma6.0;
303
```

NOTE: There were 32 observations read from the data set WORK.UNUSUALINJS.

NOTE: PROCEDURE PRINT used:

real time	0.00 seconds
cpu time	0.00 seconds

```
304 data AllInjs;
305 merge occ(in=a) oi;
306 by year psu caseno vehno occno;
307 if a=1;
308 if region90=.u then region90=9;
309 ais90=100000*region90
310     + 10000*strutype
311     + 100*struspec
312     + injlevel
313     + 0.1*ais;
314
```

NOTE: Format VEHNO was not found or could not be loaded.

NOTE: Format AIS was not found or could not be loaded.

NOTE: Format ASPECT was not found or could not be loaded.

NOTE: Format DIRINJ was not found or could not be loaded.

NOTE: Format INJSOU was not found or could not be loaded.

NOTE: Format INTRUNO was not found or could not be loaded.

NOTE: Format BODYREG was not found or could not be loaded.

NOTE: Format SOUCON was not found or could not be loaded.

NOTE: Format SOUDAT was not found or could not be loaded.

NOTE: Format STRUTYPE was not found or could not be loaded.

NOTE: Format \$SYSORG was not found or could not be loaded.

NOTE: Format \$BDYREGN was not found or could not be loaded.

NOTE: Format \$LESION was not found or could not be loaded.

NOTE: There were 108 observations read from the data set WORK.OCC.

NOTE: There were 293861 observations read from the data set WORK.OI.

NOTE: The data set WORK.ALLINJS has 1029 observations and 41 variables.

NOTE: DATA statement used:

real time	0.46 seconds
cpu time	0.43 seconds

```
315 proc sort data=AllInjs;
316 by year psu caseno vehno occno
317     descending ais bodyreg;
318
```

NOTE: There were 1029 observations read from the data set WORK.ALLINJS.

NOTE: The data set WORK.ALLINJS has 1029 observations and 41 variables.

NOTE: PROCEDURE SORT used:

real time 0.01 seconds
cpu time 0.01 seconds

```
319 proc print data=AllInjs;  
320 by NASS_Case;  
321 pageby NASS_Case;  
322 id injno;  
323 var ais90 bodyreg ratwgt;  
324 format bodyreg $bodyreg.  
325       ratwgt comma6.0;  
326 title1 'Seriously-Injured Occupants';  
327 title2 'in Crashes Like the FMVSS Side Pole Test';  
328 title3 '1995-2004 NASS CDS Data and Simple Weighted Estimates';  
329 run;
```

NOTE: There were 1029 observations read from the data set WORK.ALLINJS.

NOTE: PROCEDURE PRINT used:

real time 0.01 seconds
cpu time 0.01 seconds