



SPECIAL CRASH INVESTIGATIONS

**COUNTS OF
FRONTAL AIR BAG RELATED
FATALITIES AND SERIOUSLY
INJURED PERSONS**

REPORT DATE: January 1, 2002

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
NATIONAL CENTER FOR STATISTICS AND ANALYSIS
CRASH INVESTIGATION DIVISION
WASHINGTON, D.C. 20590

The methods for estimating the number of “Registered Air Bag Equipped Vehicles”, and the “Fatalities Per Million Vehicle Years” have been modified to more accurately reflect the air bag exposure rates for drivers and passengers.

A new estimate for “Registered Air Bag Equipped Vehicles” was found by using R.L. Polk vehicle registration data. The new figures have been modified to consider the attrition rates¹ of vehicles on the road by model year, and the amount of time each vehicle was on the road during its first year. The current year’s estimate for the modified “Registered Air Bag Equipped Vehicles” is estimated to be the same as the previous year’s “Registered Air Bag Equipped Vehicles”. These numbers will be updated with the new R.L. Polk vehicle registration data the following year.

The quantity “Fatalities Per Million Vehicle Years” for a specific vehicle model year was previously calculated by dividing the count of occupants fatally injured by a deploying air bag for a given vehicle model year, by the product of the amount of newly registered air bag equipped vehicles of the given year and the number of years the vehicles of that year have been on the road. In the past when calculating the number of years vehicles of a given model year have been on the road, with the exception of the current MY, each vehicle was counted as being on the road for a full year. A new method of estimating the time each vehicle was on the road during its first year has been developed in which an even distribution of vehicle registrations is assumed throughout the year. Analysis of this distribution shows that a more accurate estimate of the time each vehicle was on the road in its first production year is one half of a year².

The quantity “Fatalities Per Million Vehicle Years” for a normalized 12-month period was previously calculated by dividing the count of occupants fatally injured by a deploying air bag for each 12-month production period by the total number of registered vehicles with air bags during that same interval. Each 12-month production period was aligned with the vehicle production year, September 1 through August 31. A change similar to the one made for the vehicle model year exposure estimate was made for the quantity “Fatalities Per Million Vehicle Years” for a normalized 12-month period. The new method divides the count of occupants fatally injured by a deploying air bag for each 12-month period by the sum of the total number of registered vehicles with air bags of the previous model years³ and one half the registered vehicles of the vehicle model year that corresponds to the production period of the crash.

¹The attrition rate of a vehicle is dependent on the amount of time a vehicle has been on the road. Different estimated attrition rates were initially calculated for automobiles and light trucks. Estimated attrition rates were used from “Updated Vehicle Survivability and Travel Mileage Schedules”, November 1995, Visibility and Controls Division, Safety Performance Standards, U.S. Department of Transportation, National Highway Traffic Safety Administration.

²The estimate for the amount time a vehicle of a given model year has been on the road during the current vehicle model year is multiplied by a correction factor that is based on the month the data is generated.

³ The term “the previous model years” refers to the vehicle model years before the vehicle model year of the production period of the crash.

COUNTS FOR AIR BAG RELATED FATALITIES AND SERIOUSLY INJURED PERSONS

Counts for Confirmed Air Bag Related Fatalities through 1/1/02:

Children	126	(US = 125 ;Puerto Rico = 1)
- RFCSS	22	
- Not RFCSS	104	(US = 103 ;Puerto Rico = 1)
Drivers (Adults)	68	
Passengers (Adults)	8	
<hr/>		
TOTAL	202	

Counts For Confirmed and Unconfirmed * Air Bag Related Fatalities By Crash Year

FATALS BY YEAR	Children		ADULT DRIVERS	ADULT PASSENGERS	TOTALS BY YEAR		FEMALES 62" OR LESS	
	In RFCSS	NOT In RFCSS			CONFIRMED	[UNCONFIRMED]	DRIVERS	PASSENGERS
1990	0 [0]	0 [0]	1 [0]	0 [0]	1	[0]	1 [0]	0 [0]
1991	0 [0]	0 [0]	4 [0]	0 [0]	4	[0]	1 [0]	0 [0]
1992	0 [0]	0 [0]	3 [0]	0 [0]	3	[0]	2 [0]	0 [0]
1993	0 [0]	1 [0]	4 [0]	0 [0]	5	[0]	2 [0]	0 [0]
1994	0 [0]	5 [0]	7 [1]	0 [0]	12	[1]	1 [0]	0 [0]
1995	3 [0]	5 [1]	5 [0]	0 [0]	13	[1]	4 [0]	0 [0]
1996	6 [0]	19 [1]	7 [0]	2 [0]	34	[1]	2 [0]	3 [0]
1997	4 [0]	27 [0]	18 [2]	4 [1]	53	[3]	4 [0]	0 [1]
1998	5 [0]	21 [6]	12 [0]	1 [2]	39	[8]	5 [0]	0 [0]
1999	3 [0]	16 [6]	3 [2]	0 [0]	22	[8]	3 [1]	0 [0]
2000	0 [0]	8 [1]	4 [2]	1 [1]	13	[4]	2 [1]	0 [0]
2001	1 [0]	2 [4]	0 [1]	0 [0]	3	[5]	0 [0]	0 [0]
TOTAL	22 [0]	104 [19]	68 [8]	8 [4]	202	[31]	27 [2]	3 [1]

*Note: The unconfirmed counts are in brackets.

ESTIMATED GROSS NUMBER OF LIVES SAVED AIR BAGS AS OF 1/1/02:

8378 - 7021 drivers (1966 belted, 5055 not belted) - 1357 front-right passengers (380 belted, 977 not belted)

Status of air bag related fatality and serious injury cases during the period 10/01/01 - 01/01/02:

- Eight crash investigations were added to the summary tables; 2-fatal children in a RFCSS, 1-fatal child in a FFCSS, 4-fatal children, and 1-nonfatal driver.
- One new crash investigation was initiated by an SCI team, 1-nonfatal child.
- Field investigations continued on 34 previously initiated and reported crash investigations: 1-nonfatal child in a FFCSS, 19-fatal children; 3- nonfatal children; 8-fatal drivers; and, 4-fatal adult passengers. Note: One crash investigation involves a fatal driver and a fatal adult passenger in the same vehicle.
- One previously initiated crash investigation was dropped, 1-fatal child.

- One previously initiated crash investigation was dropped, 1-fatal child.

Summary tables for Air Bag Related Fatality and Serious Injury cases are available through the following NHTSA websites:

www-nrd.nhtsa.dot.gov/departments/nrd-30/ncsa/sci.html

COUNTS FOR AIR BAG RELATED FATALITIES AND SERIOUSLY INJURED PERSONS (CONTINUED)

1/1/02

CHILDREN CONFIRMED AS RECEIVING A FATAL INJURY RELATED TO AN AIR BAG

Children fatally injured by the PAB	121	(US=120 ;Puerto Rico= 1)
- Rear Facing child safety seats 8	22	
- Forward Facing child safety seats 3,6	6	
- Unrestrained or improperly restrained children 4		
(with pre-impact braking)	78	
(without pre-impact braking)	11	(US=10 ;Puerto Rico= 1)
- Wearing lap and shoulder belt 1,7		
(with pre-impact braking)	2	
(without pre-impact braking) 9	3	
Children fatally injured by the DAB	4	

CHILDREN CONFIRMED AS RECEIVING A LIFE THREATENING INJURY RELATED TO AN AI

Children with life threatening injuries by the PAB	31
- Rear Facing child safety seats	8
- Forward Facing child safety seats 10	2
- Unrestrained or improperly restrained children	
(with pre-impact braking)	12
(without pre-impact braking)	4
(unknown pre-impact braking)	2
- Wearing lap and shoulder belt	

(with pre-impact braking)	2	
(without pre-impact braking)	1	
Children with life threatening injuries by the DAB		1
DRIVERS CONFIRMED AS RECEIVING A FATAL INJURY RELATED TO AN AIR BAG		
Fatal Drivers		68
- Drivers belted	20	
- Drivers misused belt	3	
- Drivers not belted	44	
- Unknown if driver belted	1	
DRIVERS CONFIRMED AS RECEIVING A LIFE THREATENING INJURY RELATED TO AN AIR		
Driver Life Threatening Injuries		8
- Drivers belted	1	
- Drivers misused belt		
- Drivers not belted ^{2,5}	7	
- Unknown if driver belted		
ADULT PASSENGERS CONFIRMED AS RECEIVING A FATAL INJURY RELATED TO AN AIR		
Fatal Passengers		8
- Passengers belted	2	
- Passengers misused belt		
- Passengers not belted	6	
- Unknown if passenger belted		
ADULT PASSENGERS CONFIRMED AS RECEIVING A LIFE THREATENING INJURY RELATED		
Seriously Injured Passengers		6
- Passengers belted	4	
- Passengers misused belt		
- Passengers not belted	1	

1A five year old, 35 pound female child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case CA9610.

A five year old, 39 pound male child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case IN9622.

A two year old, 23 pound female child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case IN9732.

A seven year old, 57 pound male child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case DS9610.

2 An unbelted pregnant female sustained an abruption of the placenta from the uterine wall and the fetus subsequently expired. See case CA9509.

3 Forward facing child safety seat not restrained to vehicle in case DS9611.

4 A two year old, 33 pound female child was kneeling in the seat using the lap portion of the lap and shoulder belt. See case DS9718.

5 Driver expired approximately six weeks post crash of pneumonia. The NHTSA definition for the time to death in a fatal crash is “expired within 30 days or less after the crash.” See case CA9729.

6 Forward facing child safety seat not properly restrained to vehicle in case CA9745.

7 Front right occupant (11-year-old-male) leaning forward to pick up a tissue prior to impact in case IN9729.

8 Front right passenger “ON/OFF” switch was in the on position in case CA9834.

9 Front right occupant’s (11-year-old-female) seat track was in the forward position. See case CA00010.

10 Forward facing child safety seat was improperly installed in case CA9706.

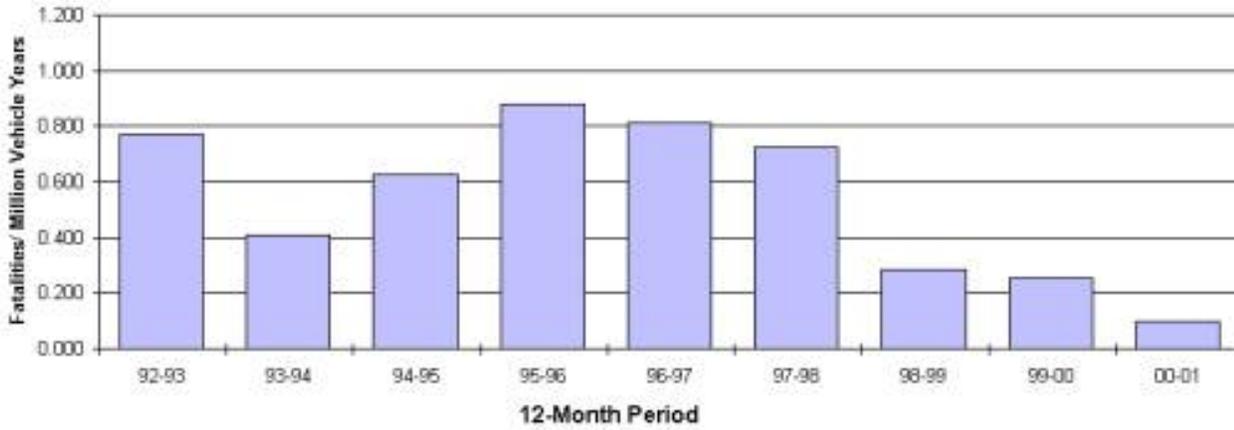
NATIONAL CENTER FOR STATISTICS AND ANALYSIS
 SPECIAL CRASH INVESTIGATIONS
 CHILDREN FATALLY INJURED BY PAB
 NORMALIZED BY VEHICLE REGISTRATIONS
 Confirmed and Unconfirmed*
 January 1, 2002

	Vehicle Model Year (in millions of vehicles)															
	1987-88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Registered Passenger Air Bag Equipped Vehicles	0.000	0.061	0.144	0.037	0.405	1.311	5.918	9.987	10.240	13.690	14.491	16.032	16.340	16.662	16.662	105.318

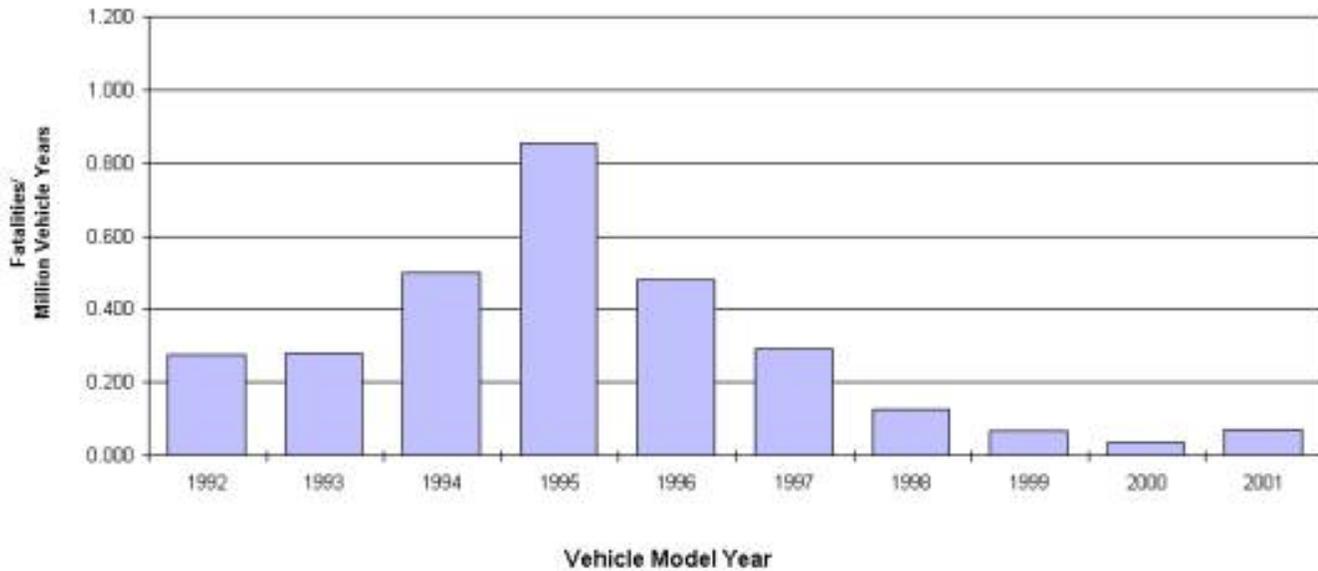
	Vehicle Model Year															
Crash Date	1987-88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Sep 87 to Aug 88																0
Sep 88 to Aug 89																0
Sep 89 to Aug 90																0
Sep 90 to Aug 91																0
Sep 91 to Aug 92																0
Sep 92 to Aug 93						1										1
Sep 93 to Aug 94						1	1									2
Sep 94 to Aug 95						1	2	5								8
Sep 95 to Aug 96					1		6	10	3							20
Sep 96 to Aug 97							4	12	7	5						28
Sep 97 to Aug 98							4	16	5	8	2					35
Sep 98 to Aug 99							2	6	3	3	3	1				18
Sep 99 to Aug 00							2	5	7	2	2	2				20
Sep 00 to Aug 01							1	2	3	1			1	1		9
Sep 01 to Aug 02																0
Total	0	0	0	0	1	3	22	56	28	19	7	3	1	1	0	141
Fatalities/Million Vehicle Years	0.000	0.000	0.000	0.000	0.275	0.278	0.499	0.852	0.481	0.292	0.127	0.066	0.034	0.072	0.000	

*Confirmed cases are those where the air bag has been confirmed to be the injury mechanism. Unconfirmed cases are crashes under active investigation where the air bag is suspected of being the injury mechanism.

National Center for Statistics and Analysis
 Special Crash Investigations
 Children Fatally Injured by PAB
 Normalized for a 12-Month Period



National Center for Statistics and Analysis
 Special Crash Investigations
 Children Fatally Injured by Passenger Air Bags
 By Vehicle Model Year



Note: The bar charts above are shown using a different scale than the other two sets of bar charts

January 1, 2002

CASES FROM THE NATIONAL CENTER FOR STATISTICS AND ANALYSIS SPECIAL CRASH INVESTIGATIONS PROGRAM

INFANTS IN REAR FACING CHILD SAFETY SEATS WHO SUSTAINED FATAL OR SERIOUS INJURIES IN MINOR OR MODERATE SEVERITY AIR BAG DEPLOYMENT CRASHES

Fatal Count	Case Number	Case Status	Crash Date	Invest Date	St	Age	Sex	Ht (IN)	Wt (LB)	Restraint Use	Vehicle Model Year	Vehicle Make	Vehicle Model	Change In Velocity (MPH)	Pre- Impact Braking	Injury Descriptions	Injury Source
	DS94023	AVAILABLE	Nov-94	Dec-94	CA	3 mo	Female	20	13	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1994	COROLLA	TOYOTA	LOW	YES	NON-FATAL SKULL FXS	PAB FLAP; PAB; CHILD SEAT BACK
1	CA95016	AVAILABLE	Jul-95	Jul-95	PA	3 wk	Female	24	11	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	FORD	ESCORT	20-25	YES	SKULL FXS; BRAIN INJURY	PAB FLAP; PAB; CHILD SEAT BACK
2	DS95019	AVAILABLE	Sep-95	Sep-95	CA	5 mo	Female	27	20	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1994	TOYOTA	CAMRY	<10	YES	SKULL FXS; BRAIN INJURY	PAB FLAP; PAB; CHILD SEAT BACK
3	CA95022	AVAILABLE	Oct-95	Nov-95	LA	4 mo	Male	24	17	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	SATURN	SL1	12-14	YES	SKULL FXS; BRAIN INJURY	PAB; CHILD SEAT BACK
	DS95022	AVAILABLE	Oct-95	Nov-95	CA	6 mo	Male	UNK	15	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	FORD	ESCORT	<10	YES	NON-FATAL SKULL FXS	PAB; CHILD SEAT BACK
	DS95025	UNDER REVIEW	Nov-95	Dec-95	CO	3 mo	Male	25	15	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1994	FORD	ASPIRE	9	YES	NON-FATAL SKULL FXS	PAB FLAP; PAB; CHILD SEAT BACK
	IN95021	AVAILABLE	Nov-95	Dec-95	WI	7 wk	Male	22	10	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1996	DODGE	CARAVAN	12-17	YES	NON-FATAL SKULL FXS	PAB; CHILD SEAT BACK
4	CA96002	UNDER REVIEW	Jan-96	Feb-96	NJ	4 mo	Male	24	20	MIS-USED - BELTS NOT USED PROPERLY; PROPERLY SECURED IN RFCSS	1995	ISUZU	TROOPER	15	NO	LARGE SUBDURAL AND EPIDURAL HEMATOMA; SKULL FXS; SUBARACHNOID HEMORRHAGE	PAB FLAP; PAB; CHILD SEAT BACK
5	LTC96018	AVAILABLE	May-96	May-96	FL	8 mo	Female	27	19	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1994	TOYOTA	CAMRY	10	UNK	BRAIN INJURY	PAB
6	CA96008	UNDER REVIEW	Apr-96	May-96	FL	3 mo	Male	23	18	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	HYUNDAI	ACCENT	MODERATE	YES	HEAD INJURIES	PAB; CHILD SEAT BACK
7	IN96017	AVAILABLE	Jun-96	Jul-96	IL	1 wk	Female	18	8	NO - RFCSS HELD IN LAP OF PASSENGER; PROPERLY SECURED IN RFCSS	1995	FORD	ESCORT	8	YES	HEAD INJURIES	PAB
	CA96013	UNDER REVIEW	Sep-96	Oct-96	GA	5 mo	Male	28	19	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1996	SATURN	SW2	6	YES	NON-FATAL SKULL FX; CONTUSION OF THE LEFT FRONTO TEMPORAL AREA WITH A SMALL SUBDURAL HEMATOMA	PAB FLAP; PAB; CHILD SEAT BACK
8	CA96015	AVAILABLE	Sep-96	Oct-96	OH	1 mo	Male	21	8	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	MAZDA	PROTEGE	12-14	YES	SKULL FXS; BRAIN INJURY	PAB FLAP; PAB; CHILD SEAT BACK
9	CA96016	AVAILABLE	Oct-96	Oct-96	FL	7 wk	Female	21	10	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1996	DODGE	CARAVAN	12	YES	SKULL FXS; BRAIN INJURY	PAB FLAP; PAB; CHILD SEAT BACK
	CA96021	AVAILABLE	Nov-96	Nov-96	NH	3 wk	Female	19	8	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	FORD	ESCORT	24	NO	NON-FATAL SKULL FXS; BRAIN SWELLING	PAB; CHILD SEAT BACK
	CA96023	UNDER REVIEW	Dec-96	Dec-96	VA	3 mo	Male	19	12	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	FORD	ESCORT	10	YES	NON-FATAL SKULL FXS; SMALL SUBARACHNOID HEMORRHAGE; SMALL EPIDURAL HEMATOMA	PAB; CHILD SEAT BACK
10	DS97009	ACTIVE	May-97	May-97	CA	4 mo	Male	26	20	MIS-USED - BELTS NOT USED PROPERLY; PROPERLY SECURED IN RFCSS	1994	MAZDA	626	21	NO	SKULL FXS; BRAIN INJURY	PAB FLAP; PAB; CHILD SEAT BACK
11	DS97008	ACTIVE	May-97	May-97	NC	5 mo	Male	28	21	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	FORD	CROWN VICTORIA	13	YES	SKULL FXS; BRAIN INJURY	PAB; CHILD SEAT BACK
12	DS97014	ACTIVE	Jun-97	Jun-97	CO	3 mo	Male	UNK	UNK	NO - RFCSS HELD IN LAP OF PASSENGER; NOT PROPERLY SECURED IN RFCSS	1997	FORD	ESCORT	16	YES	SKULL FXS; BRAIN INJURY	PAB; CHILD SEAT BACK

13	CA98007	UNDER REVIEW	Jan-98	Feb-98	GA	4 mo	Female	UNK	UNK	NO - RFCSS HELD IN LAP OF PASSENGER; NOT PROPERLY SECURED IN RFCSS	1996	FORD	CONTOUR	8-10	NO	SKULL FXS; CLOSED HEAD INJURY	PAB FLAP; PAB; CHILD SEAT BACK
	CA97048	UNDER REVIEW	Sep-97	Nov-97	FL	3 mo	Male	24	12	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1994	TOYOTA	CAMRY	7-10	YES	BILATERAL SUBDURAL & SUBARACHNOID HEMORRHAGE	PAB; CHILD SEAT BACK
14	CA98028	UNDER REVIEW	Apr-98	Apr-98	FL	3 wk	Female	19	9	MIS-USED - BELTS USED; NOT PROPERLY SECURED IN RFCSS	1995	SATURN	SC1	10	YES	MACERATED BRAIN & DEPRESSED SKULL FX	PAB; CHILD SEAT BACK
15 See Note 8	CA98034	AVAILABLE	May-98	May-98	OH	2 mo	Male	25	13	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1997	FORD	F150	10	YES	SUBDURAL & SUBARACHNOID HEMORRHAGE	PAB; CHILD SEAT BACK
16	DS97013	AVAILABLE	Jun-97	Jun-97	UT	3 mo	Female	25	17	YES - BELTS USED; PROPERLY SECURED IN RFCSS	1995	HYUNDAI	ACCENT	12	NO	HORIZONTAL SKULL FRACTURE OF THE OCCIPITAL BONE WITH LOSE OF BRAIN TISSUE	PAB; CHILD SEAT BACK
17	IN98014	ACTIVE	Feb-98	Feb-98	TX	6 mo	Female	29	26	NO - BELTS NOT USED; NOT PROPERLY SECURED IN RFCSS	1995	FORD	EXPLORER	13-17	YES	BASILAR AND OCCIPITAL SKULL FRACTURES WITH SUBARACHNOID HEMORRHAGE	PAB; CHILD SEAT BACK
18	CA99007	AVAILABLE	Apr-99	Apr-99	AL	6wk	Female	23	10	MIS-USED - BELTS USED; NOT PROPERLY SECURED IN RFCSS	1995	SATURN	SC2	9	YES	CEREBRAL EDEMA WITH DIFFUSE SUBARACHNOID HEMORRHAGE	PAB FLAP; PAB; CHILD SEAT BACK
19	IN00009	AVAILABLE	Oct-99	Mar-00	TX	4 mo	Male	26	17	YES	1996	LEXUS	ES300	8	YES	CEREBRAL EDEMA WITH DIFFUSE SUBARACHNOID HEMORRHAGE SKULL FRACTURE WITH UNDERLYING SUBDURAL AND SUBARCHNOID HEMORRHAGE	PAB
21	IN99087	UNDER REVIEW	Aug-99	Sep-99	MS	4 mo	Female	24	17	MIS-USED - BELTS NOT USED PROPERLY; NOT PROPERLY SECURED IN RFCSS	1996	HYUNDAI	ACCENT	13	NO	NONANATOMIC BRAIN INJURY; HEMORRHAGE ALONG LEFT FRONTAL AND PARIETAL LOBES; FRACTURE TEMPORAL AND PARIETAL BONES	PAB FLAP
20	CA01014	ACTIVE	Oct-98	Jan-01	OH	2 mo	Male	24	17	NO - RFCSS HELD IN LAP OF PASSENGER; UNKNOWN IF PROPERLY SECURED IN RFCSS	1996	TOYOTA	COROLLA	17	NO	SKULL FRACTURES AND BRAIN INJURIES	PAB; PAB FLAP
22	DS01015	UNDER REVIEW	Aug-01	Aug-01	CA	2 mo	Male	25	17	MIS-USED - BELTS NOT USED PROPERLY; UNKNOWN IF PROPERLY SECURED IN RFCSS	1994	FORD	PROBE	8	YES	BILATERAL JAGGED LINEAR FRACTURES WITH DURA DISRUPTION	PAB; CHILD SEAT BACK

Active - Investigation initiated and continuing; Report not yet received at NHTSA

Under Review - Investigation complete; Report under review by NHTSA staff; Report not available

Available - Report review complete; Report placed in public file and available from VOLPE Center (617) 494-2640

8 Front right passenger "ON/OFF" switch was in the on position in case CA9834.

UNK - Unknown

PAB FLAP - Passenger's air bag cover flap

DAB - Driver's Air Bag

N/A - Not Applicable

PAB - Passenger's Air Bag

FX - Fracture

January 1, 2002
CASES FROM THE NATIONAL CENTER FOR STATISTICS AND ANALYSIS SPECIAL CRASH INVESTIGATIONS PROGRAM
CHILDREN NOT IN REAR FACING CHILD SAFETY SEATS WHO SUSTAINED FATAL OR SERIOUS INJURIES IN
MINOR OR MODERATE SEVERITY AIR BAG DEPLOYMENT CRASHES

Fatal Count	Case Number	Case Status	Crash Date	Invest Date	St	Age	Sex	Ht (IN)	Wt (LB)	Restraint Use	Vehicle Model Year	Vehicle Make	Vehicle Model	Change In Velocity (MPH)	Pre- Impact Braking	Injury Descriptions	Injury Source
1	CA93007	AVAILABLE	Apr-93	Apr-93	OH	6	Female	44	51	NO	1993	VOLVO	850	7	YES	BRAIN INJURY	PAB FLAP; PAB; WINDSHIELD
2	DS94020	AVAILABLE	Sep-94	Dec-94	UT	4	Female	41	35	NO	1994	DODGE	CARAVAN	8	YES	SKULL FX	PAB; INSTRUMENT PANEL
3	CA94043	AVAILABLE	Jul-94	Dec-94	VA	4	Male	44	54	NO	1994	FORD	MUSTANG	10-12	YES	BRAIN; NECK INJURY	PAB
4	IN95008	AVAILABLE	Mar-95	May-95	TX	9	Male	55	65	MIS-USED - USED LAP BELT ONLY	1995	PLYMOUTH	VOYAGER	16	YES	BRAIN; NECK INJURY	PAB
5	CA95015	AVAILABLE	Mar-94	Aug-95	TX	7	Female	53	78	NO	1993	LEXUS	LS400	LOW	YES	ATLANTO-OCCIPITAL; C-SPINE TRANSECTION	PAB
6	CA95020	AVAILABLE	Oct-95	Oct-95	UT	5	Male	41	55	NO	1994	CHEVROLET	CAMARO	10	YES	C-SPINE INJURY	PAB FLAP
7	CA95021	AVAILABLE	Oct-95	Oct-95	MD	7	Female	51	55	MIS-USED - USED LAP BELT ONLY	1995	DODGE	CARAVAN	11	YES	CLOSED HEAD INJURY; BRAIN DEAD	PAB
	IN95018	AVAILABLE	Oct-95	Oct-95	PA	3	Male	41	37	YES - BELTS USED; PROPERLY SECURED IN BOOSTER SEAT	1995	JAGUAR	XIS	<10	YES	NON-FATAL BRAIN INJURY	PAB
8	IN95020	AVAILABLE	May-95	Dec-95	MI	5	Female	42	45	NO	1995	FORD	CONTOUR	10-15	YES	ATLANTO OCCIPITAL; C-SPINE; BRAIN INJURY	PAB FLAP
9	CA95023	AVAILABLE	Apr-95	Dec-95	VT	5	Female	46	45	NO	1993	DODGE	INTREPID	12-18	YES	BRAIN; NECK INJURY	PAB
10	ID95001	AVAILABLE	Dec-94	Dec-95	MS	6	Female	UNK	UNK	NO	1995	TOYOTA	CAMRY	<10	YES	CLOSED HEAD INJURY	PAB FLAP
11	CA96001	AVAILABLE	Jan-96	Jan-96	MI	9	Male	54	90	NO	1995	DODGE	CARAVAN	12-18	YES	ATLANTO OCCIPITAL DISLOCATION; SPINAL CORD INJURY	PAB
12	DS96005	UNDER REVIEW	Apr-96	Apr-96	MD	3	Female	39	29	NO - ON LAP OF PASSENGER	1995	GEO	METRO	10	NO	ATLANTO OCCIPITAL; SPINAL CORD INJURY; SKULL FX; CORTICAL CONTUSION; SUBARACHNOID HEMORRHAGE	PAB; PAB FLAP
13	IN96010	UNDER REVIEW	Dec-94	Apr-96	VA	4	Female	46	50	NO	1994	FORD	ASPIRE	12-16	YES	CONCUSSION; CEREBRAL EDEMA; INTRAVENTRICULAR HEMORRHAGE; SUBARACHNOID HEMORRHAGE; ATLANTO-OCCIPITAL DISLOCATION	PAB
14	IN96012	AVAILABLE	May-96	May-96	NC	4	Female	43	45	NO	1994	PLYMOUTH	VOYAGER	8	YES	BRAIN; NECK INJURY	PAB
15	CA96007	UNDER REVIEW	May-96	May-96	NY	7	Male	48	50	NO	1995	FORD	CONTOUR	<15	YES	NECK TRANSECTED	PAB FLAP
16	IN96018	AVAILABLE	Jun-96	Jul-96	KS	5	Male	UNK	42	NO	1995	CHEVROLET	LUMINA	12	YES	NECK FX	PAB
17	IN96019	AVAILABLE	Jun-96	Aug-96	MO	4	Male	48	50	NO	1995	DODGE	CARAVAN	15-20	YES	BASAL SKULL FX	PAB
18 See Note 1	CA96010	ACTIVE	Sep-96	Sep-96	TN	5	Female	35	41	YES	1996	DODGE	CARAVAN	12	YES	BRAIN INJURY	PAB
19	CA96012	AVAILABLE	Sep-96	Sep-96	NH	5	Male	46	62	NO	1995	HYUNDAI	SONATA	12-14	YES	C-SPINE FX; SPINAL CORD INJURY	PAB FLAP
	CA96011	AVAILABLE	Sep-96	Sep-96	PA	5	Male	42	40	MIS-USED - USED LAP BELT ONLY	1995	FORD	CONTOUR	9	YES	CLOSED HEAD INJURY - CONCUSSIVE SYNDROME WITH DEFICIT	PAB
	NS96001	ACTIVE	Aug-96	Sep-96	MI	3	Male	42	32	MIS-USED - USED LAP BELT ONLY	1996	FORD	ESCORT	22	NO	NON-FATAL BRAIN INJURY	PAB
20 See Note 1	IN96022	AVAILABLE	Jun-96	Sep-96	OK	5	Male	46	39	YES	1996	MITSUBISHI	GALANT	12	YES	CLOSED HEAD INJURY; DEPRESSED SKULL FX	PAB
21	IN96025	AVAILABLE	Oct-96	Oct-96	MS	6	Male	46	50	NO	1995	FORD	MUSTANG	8-11	YES	NECK FX	PAB
	IN96026	UNDER REVIEW	Oct-96	Oct-96	OH	4	Female	42	31	NO	1995	CHEVROLET	CAMARO	7	YES	NON-FATAL BRAIN INJURY; SKULL FX	PAB, CENTER FLOOR CONSOLE
22	IN96024	AVAILABLE	Jul-96	Oct-96	NM	6	Female	47	65	NO	1996	PLYMOUTH	NEON	LOW	YES	CERVICAL FX	PAB
	DS96009	UNDER REVIEW	Nov-96	Nov-96	UT	4	Male	43	40	MIS-USED - USED LAP BELT ONLY	1995	PONTIAC	GRAND PRIX	8	YES	NON-FATAL BRAIN INJURY; ARM FX	PAB, MODULE COVER
23 See Note 3	DS96011	AVAILABLE	Nov-96	Nov-96	ID	1	Female	28	18	NO - BELTS NOT USED; PROPERLY SECURED IN FFCSS	1995	VOLKSWAGEN	JETTA	7	YES	DECAPITATION; ARM FXS	PAB
	NS96004	AVAILABLE as NASS 96-74-195J	Dec-96	Dec-96	NE	6	Male	52	55	NO	1995	PLYMOUTH	VOYAGER	8	YES	NON-FATAL NECK FX	PAB FLAP
	DS96014	UNDER REVIEW	Dec-96	Dec-96	CO	7 mo	Female	28	18	NO - INFANT HELD IN LAP OF PASSENGER; NOT IN RFCSS	1996	FORD	ESCORT	12	YES	NON-FATAL BRAIN HEMORRHAGE	PAB
24	IN96029	AVAILABLE	Dec-96	Dec-96	KY	4	Male	45	40	NO	1995	GEO	METRO	LOW	YES	NECK FX	PAB
25	DS96012	UNDER REVIEW	Dec-96	Dec-96	NM	4	Female	44	38	MIS-USED - USED LAP BELT ONLY	1996	OLDSMOBILE	CUTLASS	14	YES	HEAD INJURIES; POSTERIOREDIAL FRACTURES TO RIBS; EXTENSION INJURY C2 AND C3	PAB
26	IN97001	AVAILABLE	Dec-96	Jan-97	TX	2	Male	36	24	NO - ON LAP OF PASSENGER	1995	GEO	METRO	10	YES	DECAPITATION	PAB
27	CA97002	UNDER REVIEW	Jan-97	Jan-97	PA	1	Female	34	25	NO - ON LAP OF PASSENGER	1994	FORD	ASPIRE	LOW	NO	CERVICAL CORD LACERATION; SUBARACHNOID HEMORRHAGE	PAB FLAP
28	CA96024	UNDER REVIEW	Dec-96	Dec-96	GA	1	Female	36	22	NO - ON LAP OF PASSENGER	1997	SATURN	SL2	10-12	YES	CLOSED HEAD INJURY	PAB
	CA97006	AVAILABLE	Jan-97	Feb-97	ME	3	Male	41	35	MIS-USED - BELTS NOT USED PROPERLY; NOT PROPERLY SECURED IN BOOSTER SEAT	1994	DODGE	CARAVAN	11	YES	NON-FATAL SKULL FX; BRAIN INJURY	PAB; MODULE COVER
29	IN97005	AVAILABLE	Feb-97	Feb-97	OH	4	Male	42	42	NO	1997	HYUNDAI	ACCENT	13	YES	CERVICAL FX	PAB
	DS97001	AVAILABLE	Jan-97	Mar-97	CO	7	Male	UNK	60	YES	1995	DODGE	CARAVAN	10	NO	NON-FATAL HEAD INJURY	PAB
30	CA97016	AVAILABLE	Apr-97	Apr-97	PR	1	Female	34	27	NO	1996	HYUNDAI	ACCENT	LOW	YES	C1/C2 FX/DISPLACEMENT; COMPLETE CORD TRANSECTION	PAB FLAP; PAB
	DS97002	UNDER REVIEW	Feb-97	Feb-97	CA	6	Female	45	49	YES	1996	DODGE	GRAND CARAVAN	14	YES	NON-FATAL CLOSED HEAD INJURY; BRAIN SWELLING	PAB
31	LTC9712A	AVAILABLE	Apr-97	Apr-97	FL	2	Male	32	21	NO - ON LAP OF PASSENGER	1995	SATURN	SL2	13	NO	TRANSECTION OF POSTERIOR CERVICAL SPINAL CORD	PAB
32	IN97018	UNDER REVIEW	May-96	Jul-97	IL	4	Female	45	44	MIS-USED - USED LAP BELT ONLY	1994	PLYMOUTH	VOYAGER	13	YES	C1/C2 SUBLUXATION; BRAIN INJURY	PAB
33	CA97028	ACTIVE	Aug-97	Aug-97	NC	8	Female	53	86	NO	1994	JAGUAR	XJ6	19	YES	ATLANTO-OCCIPITAL FX/DISLOCATION	PAB
	CA97012	UNDER REVIEW	Feb-97	Mar-97	FL	3	Female	42	30	MIS-USED - USED LAP BELT ONLY	1997	GEO	METRO	21	YES	NON-FATAL BRAIN INJURY; SKULL FX	PAB; CENTER INSTRUMENT PANEL
	IN97027	AVAILABLE	Nov-96	Sep-97	WI	8	Female	49	55	NO	1996	PLYMOUTH	VOYAGER	24	NO	NON-FATAL ATLANTO-OCCIPITAL; C-SPINE; NONANATOMIC BRAIN INJURY; DIFFUSE CEREBRAL EDEMA; INTRAVENTRICULAR AND SUBARACHNOID HEMORRHAGE	PAB
34 See Note 4	DS97018	AVAILABLE	Aug-97	Sep-97	NM	2	Female	38	33	MIS-USED - USED LAP BELT ONLY	1995	HYUNDAI	ACCENT	14	YES	TRANSECTION OF CERVICAL SPINAL CORD	PAB
35 See Note 1	IN97032	UNDER REVIEW	Aug-97	Sep-97	OK	2	Female	37	23	NO	1995	MITSUBISHI	GALANT	14	YES	ATLANTO-OCCIPITAL AND ATLANTO-AXIAL DISLOCATIONS FX/DISLOCATION AT C1 WITH CORD SYNDROME	PAB
36	IN97033	UNDER REVIEW	May-97	Sep-97	TX	4	Female	39	39	NO	1997	CHEVROLET	CAMARO	12	YES	FX/DISLOCATION OF CERVICAL SPINE; PARTIAL SPINAL CORD TRANSECTION	PAB FLAP
37	DS97017	AVAILABLE	Jul-97	Aug-97	AZ	5	Male	44	42	NO	1997	MERCURY	TRACER	6	YES	OCIPITAL CERVICAL DISLOCATION AT C1/C2 WITH SPINAL CORD INJURY	PAB
	IN97021	AVAILABLE	Jul-97	Jul-97	OK	3	Female	42	36	MIS-USED - USED LAP BELT ONLY	1995	DODGE	NEON	18	YES	OCIPITAL CERVICAL DISLOCATION AT C1/C2 WITH SPINAL CORD INJURY	PAB
	IN97017	AVAILABLE	Jun-97	Jun-97	IN	4	Male	36	40	YES - USED LAP BELT ONLY; CENTER FRONT PASSENGER	1992	FORD	TAURUS	10-15	NO	FX/SUBLUXATION AT C2	DAB
	IN97015	AVAILABLE	Jun-97	Jun-97	MO	6	Male	40	44	NO	1997	VOLKSWAGEN	JETTA	18	YES	CLOSED HEAD INJURY	PAB

38 See Note 6	CA97045	ACTIVE	Oct-97	Nov-97	FL	1	Female	32	28	MIS-USED - BELTS NOT USED PROPERLY; PROPERLY SECURED IN FFCSS	1997	GEO	METRO	8-10	NO	CEREBRAL EDEMA/SCALPULAR; SUBARACHNOID HEMORRHAGE	PAB
39	IN97035	UNDER REVIEW	Oct-97	Oct-97	AL	6	Male	49	48	NO	1994	PONTIAC	GRAND PRIX	14	YES	FX/SUBLUXATION AT C2-C3 WITH SPINAL CORD INJURY	PAB
40 See Note 7	IN97029	UNDER REVIEW	Sep-97	Sep-97	MN	11	Male	60	70	YES	1994	DODGE	GRAND CARAVAN	7	NO	NONANATOMIC BRAIN INJURY; BRAIN STEM HERNIATION; SUBDURAL HEMATOMA; SUBARACHNOID HEMORRHAGE; EDEMA	PAB
41	IN97042	UNDER REVIEW	Nov-97	Nov-97	MS	5	Female	37	40	NO	1995	FORD	CONTOUR	8	YES	FX/DISLOCATION AT C1 WITH SPINAL CORD TRANSECTION	PAB FLAP
42	CA97033	UNDER REVIEW	Sep-97	Oct-97	OH	4	Female	39	34	NO	1994	FORD	CROWN VICTORIA	12-15	YES	CRANIO/CERVICAL DISARTICULATION; SPINAL CORD COMPRESSION	PAB
	1997-06-140K	UNDER REVIEW	Oct-97	Oct-97	PA	5	Female	UNK	UNK	NO	1997	GEO	METRO	16	NO	RIGHT FRONTAL CEREBRAL CONTUSION	PAB
43	IN97034	AVAILABLE	Oct-97	Oct-97	TX	4	Female	44	28	NO	1997	HYUNDAI	ACCENT	11	YES	FX C2; SPINAL CORD TRANSECTION/COMPRESSION	PAB
44	DS97021	AVAILABLE	Oct-97	Oct-97	OR	7	Male	UNK	UNK	NO	1996	MERCURY	SABLE	11	YES	C1/C2 SEPARATION; CRUSHED LARYNX AND TRACHEA	PAB
45	CA98024	UNDER REVIEW	Apr-98	Apr-98	VA	3	Female	42	45	NO	1997	FORD	EXPLORER	12	YES	C1/C2 FX/DISLOCATION; SPINAL CORD TRANSECTION	PAB FLAP; PAB
46	1998-005-05A	UNDER REVIEW	Apr-98	Apr-98	PA	6	Male	46	52	MIS-USED - USED LAP BELT ONLY	1995	MITSUBISHI	ECLIPSE	18	YES	SUBDURAL/SUBARACHNOID HEMORRHAGE; T1/T2 TRANSECTION (NO CORD LESION)	PAB
47	CA97042	AVAILABLE	Oct-97	Oct-97	NY	7	Male	48	48	NO	1995	TOYOTA	AVALON	20	YES	HIGH CERVICAL INJURY WITH PROBABLE CORD TRANSECTION	PAB
48	CA98027	AVAILABLE	Apr-98	Apr-98	MS	10	Female	56	75	NO	1995	VOLKSWAGEN	JETTA	12	YES	C1/C2 FX; COMPLETE SPINAL CORD TRANSECTION	PAB
49	CA97047	AVAILABLE	Nov-97	Nov-97	NC	3	Female	36	39	NO - ON LAP OF PASSENGER	1996	PLYMOUTH	NEON	9	YES	C3/C4 ANTERIOR SUBLUXATION; BRAIN STEM HERNIATION; LUNG CONTUSIONS	PAB
50	IN97014	AVAILABLE	May-97	May-97	LA	7	Female	53	48	NO	1996	SUBARU	IMPREZA	10	YES	DIFFUSE CEREBRAL EDEMA; DIFFUSE SUBARACHNOID HEMORRHAGE; SUBDURAL HEMATOMA; C1 DISLOCATION	PAB
51	CA98035	UNDER REVIEW	Apr-98	May-98	KY	9	Female	56	60-70	MIS-USED - USED LAP BELT ONLY	1995	MERCURY	COUGAR	3-5	YES	LEFT SUBDURAL HEMATOMA; MASSIVE CEREBRAL EDEMA; C1/C2 ROTARY SUBLUXATION	PAB
52	CA98047	AVAILABLE	Aug-98	Sep-98	GA	3	Male	43	40	NO	1995	TOYOTA	COROLLA	12	YES	SEPARATION OF SKULL FROM C1 SPINAL VERTEBRA	PAB FLAP
53	IN98020	ACTIVE	Feb-97	Aug-98	TX	7	Male	48	49	NO	1994	FORD	PROBE	6-9	NO	BRAIN STEM COMPRESSION; GLOBAL SUBARACHNOID HEMORRHAGE; SUBDURAL HEMATOMA	PAB
	IN98024	ACTIVE	Dec-94	Oct-98	TX	4	Male	40	44	NO	1994	PONTIAC	FIREBIRD	15	YES	ANTERIOR DISLOCATION C1/C2; COMPLETE CORD SYNDROME	PAB
54	IN98030	ACTIVE	Nov-98	Nov-98	AR	8	Male	46	44	NO	1998	DODGE	RAM 1500	18	YES	ATLANTO-OCCIPITAL DISLOCATION AT C1; SPINAL CORD TRANSECTION	PAB
55	DS98014	AVAILABLE	Mar-96	Apr-98	KY	4	Female	40	35	NO	1994	PLYMOUTH	VOYAGER	9	YES	CEREBRAL EDEMA; SUBARACHNOID HEMORRHAGE; DISPLACED C1/C2 CERVICAL SPINE INJURY	PAB; WINDSHIELD
	CA98019	AVAILABLE	Mar-98	Mar-98	FL	7	Female	UNK	42	MIS-USED - USED LAP BELT ONLY	1996	ACURA	TL	15	YES	COMPLETE SPINAL CORD INJURY C1/C2 RESULTING IN QUADRIPLEGIA; SUBARACHNOID HEMORRHAGE; CLOSED HEAD INJURY	PAB
56	IN98027	ACTIVE	Sep-98	Oct-98	AR	1	Female	UNK	UNK	NO - BELTS NOT USED; PROPERLY SECURED IN FFCSS	1995	TOYOTA	COROLLA	10-14	YES	FX C5-C7; COMPLETE SPINAL CORD TRANSECTION	PAB
57	LTC9831	ACTIVE	Jun-98	Jul-98	FL	3	Male	36	37	NO - ON LAP OF PASSENGER	1994	DODGE	CARAVAN	10	NO	DISTRACTION OF C1/C2 WITH COMPLETE SPINAL CORD TRANSECTION	PAB
58	DS98025	ACTIVE	Sep-98	Sep-98	CA	2	Male	37	40	UNK - BELTS USED; UNKNOWN IF SECURED IN FFCSS	1995	GEO	PRIZM	17	YES	FX C1/C4; COMPLETE SPINAL CORD TRANSECTION; SUBARACHNOID HEMORRHAGE	PAB
59	IN99002	AVAILABLE	Jan-99	Feb-99	IL	4	Male	42	35	NO	1999	PONTIAC	GRAND AM	13	NO	ATLANTO-OCCIPITAL DISLOCATION; SPINAL CORD LACERATION; SUBARACHNOID HEMORRHAGE	PAB FLAP; PAB
60	IN99070	ACTIVE	Jan-97	Apr-99	LA	3	Female	40	33	NO	1996	FORD	TAURUS	13	YES	SEVERE CEREBRAL EDEMA; SUBARACHNOID/SUBDURAL HEMORRHAGE	PAB
61	DS99018	UNDER REVIEW	Mar-99	Mar-99	WA	5	Female	42	43	NO	1995	FORD	ASPIRE	13	YES	SUBLUXATION INJURY C1/C2; SUBARACHNOID/SUBDURAL HEMORRHAGE; CEREBRAL EDEMA	PAB
	IN98031	ACTIVE	Nov-98	Dec-98	IA	10	Female	57	65	NO	1997	DODGE	CARAVAN	8	NO	CRITICAL NON-ANATOMIC BRAIN INJURY	PAB
62	CA99004	AVAILABLE	Mar-99	Apr-99	NC	6	Female	47	48	NO	1995	HYUNDAI	SONATA	13	YES	DIFFUSE SUBDURAL HEMORRHAGE; CEREBRAL CONTUSIONS	PAB FLAP; PAB
63	DS99020	UNDER REVIEW	Jun-99	Jul-99	AZ	3	Female	41	48	MIS-USED - BELTS NOT USED PROPERLY; PROPERLY SECURED IN FFCSS	1997	FORD	TAURUS	10	YES	BRAIN STEM LACERATION; COMPLETE OCCIPITAL BONE SEPARATION; SUBARACHNOID HEMORRHAGE	PAB
64	DS98028	UNDER REVIEW	Nov-98	Jan-99	CA	10	Male	UNK	UNK	NO	1995	PLYMOUTH	VOYAGER	10	YES	RIGHT SUBDURAL HEMATOMA; CEREBRAL HERNIATION; BRAIN DEAD	PAB
65	CA99025	AVAILABLE	Jul-99	Aug-99	OH	7	Male	52	46	NO	1998	PONTIAC	GRAND PRIX	12	YES	SUBDURAL HEMORRHAGE; BRAIN SWELLING	PAB FLAP; PAB; WINDSHIELD HEADER
66	CA98038	AVAILABLE	Jul-98	Jul-98	SC	4	Male	UNK	UNK	NO - ON LAP OF PASSENGER	1998	PLYMOUTH	NEON	18	YES	UPPER CERVICAL SPINAL FRACTURE	PAB
67	IN99080	ACTIVE	Dec-97	Aug-99	MS	7	Female	36	43	MIS-USED - USED LAP BELT ONLY	1995	DODGE	NEON	12-16	YES	SEVERE CEREBRAL EDEMA; SUBARACHNOID HEMORRHAGE	PAB
68	CA99043	AVAILABLE	Sep-99	Sep-99	GA	7	Female	52	60	NO - ON LAP OF PASSENGER	1996	CHRYSLER	CONCORDE	6	YES	C1/C2 FX/SEPARATION	PAB
69	IN97047	UNDER REVIEW	Nov-97	Nov-97	LA	4	Female	36	35	NO - ON LAP OF PASSENGER	1995	FORD	WINDSTAR	19	NO	SEVERE CEREBRAL EDEMA; SUBARACHNOID HEMORRHAGE non anatomic brain injury	PAB
	IN98023	UNDER REVIEW	Oct-98	Oct-98	IN	8	Male	UNK	63	YES	1995	MITSUBISHI	ECLIPSE	13	YES	NON-ANATOMIC BRAIN INJURY; SUBDURAL HEMATOMA non anatomic brain injury	PAB; CENTER CONSOLE
70	CA00001	UNDER REVIEW	Dec-99	Jan-00	VA	4 mo	Female	23	16	NO - ACROSS DRIVER'S CHEST	1997	NISSAN	SENTRA	5-10	NO	SUB-DURAL AND SUB-ARACHNOID HEMORRHAGE	DAB

71	CA99046	UNDER REVIEW	Sep-99	Sep-99	VA	7	Female	50	91	NO	1996	VOLKSWAGEN	GOLF	15	YES	BASILAR SKULL FX WITH COMPLETE TRANSECTION SPINAL CORD AT FORAMEN MAGNUM LEVEL	PAB
72	IN99113	UNDER REVIEW	Dec-99	Dec-99	WI	2	Male	36	27	NO	1995	CHEVROLET	CAVALIER	10-15	NO	SPINAL CORD INJURY; HIGH CERVICAL FRACTURE; DISTRACTION/SEPERATION BETWEEN C2/C3	PAB FLAP
73	CA99044	AVAILABLE	Dec-97	Sep-99	PA	2	Male	38	34	NO	1997	HYUNDAI	ACCENT	9	YES	SEPARATION OF SPINAL COLUMN; SEPARATION OF SPINAL CORD	PAB
74	CA97025	AVAILABLE	Jun-97	Jul-97	PA	3	Male	38	45	NO - ON LAP OF PASSENGER	1995	FORD	ASPIRE	15	YES	CEREBRAL EDEMA; BRAIN SWELLING; SUBDURAL HEMATOMA	PAB
75	CA00009	UNDER REVIEW	Feb-00	Mar-00	FL	3	Male	41	36	NO	1995	FORD	THUNDERBIRD	7	YES	TRANSECTION OF SKULL BASE FROM FIRST CERVICAL VERTEBRA (WITH TRANSECTION OF THE SPINAL CORD)	PAB
76	DS98018	AVAILABLE	May-98	May-98	AZ	5	Female	48	52	MIS-USED - USED LAP BELT ONLY	1995	HYUNDAI	ACCENT	11	YES	DISLOCATION OF OCCIPITAL BONE AND FIRST CERVICAL VERTEBRA;TRANSECTION OF THE PONS AND MEDULLA	PAB
77	DS96010	UNDER REVIEW	Aug-96	Nov-96	CA	7	Male	54	57	YES	1992	MERCURY	SABLE	24	NO	MASSIVE BRAIN EDEMA; SUBDURAL AND VENTRICULAR HEMORRAGE	PAB
78	CA00010	UNDER REVIEW	Mar-00	Mar-00	DE	11	Female	56	110	YES	1995	CHRYSLER	CONCORD	21	NO	ATLANTO-AXIAL MEMBRANE LACERATION AND SPRAIN; ATLANTO-OCCIPITAL MEMBRANE SPRAIN; EPIDURAL AND SUBDURAL HEMORRHAGE OF CERVICAL SPINAL CORD	PAB
	DS99040	UNDER REVIEW	Apr-97	Dec-99	CO	5	Male	42	44	MIS-USED - TWO CHILDREN RESTRAINED BY SAME LAP BELT	1994	JAGUAR	XJS	11	UNK	DIFFUSE BRAIN SWELLING WITH OBLITERATION OF SUPRASELLAR CISTERN AND THIRD VENTRICLE	PAB; DOOR
79	IN00010	ACTIVE	Dec-99	May-00	TX	1	Male	UNK	UNK	NO - ON LAP OF PASSENGER	1996	HYUNDAI	ACCENT	11	YES	SUBDURAL AND SUBARACHNOID HEMORRHAGES ALONG AND ACROSS THE BASE OF HIS BRAIN	PAB; INSTRUMENT PANEL; WINDSHIELD HEADER
80	CA00011	AVAILABLE	Apr-00	Apr-00	MA	9	Male	51	50	NO	1995	MERCURY	MARQUIS	8-10	NO	HINGE FRACTURE AT BASE OF SKULL WITH EXTENSION ONTO THE LEFT OCCIPITAL; ACUTE SUBDURAL HEMORRHAGE, CEREBRUM	DAB
81	IN00007	AVAILABLE	Feb-98	Apr-00	OK	4	Female	UNK	UNK	NO	1997	HYUNDAI	ACCENT	15	YES	FRACTURE, CERVICAL SPINE	PAB
	1997-52-29	ACTIVE	Aug-97	Aug-97	MI	7	Male	47	55	NO	1997	FORD	F150	13	UNK	SHEARING INJURY OF WHITE MATTER OF THE BRAIN	PAB
82	IN97023	UNDER REVIEW	Aug-97	Aug-97	OK	3	Male	41	35	MIS-USED - SEATED BETWEEN FATHER'S LEGS IN RIGHT FRONT PASSENGER SEAT; SHARED LAP BELT WITH FATHER	1996	GMC	SAFARI	17	YES	NON-ANATOMIC BRAIN INJURY WITH LOSS OF CONCIOLUSNESS, PUPILS FIXED AND DILATED, ASYSTOLE, AND APNEA	PAB
83	IN97030	AVAILABLE	Sep-97	Sep-97	MS	4	Female	36	42	NO - ON LAP OF PASSENGER	1997	DODGE	NEON	9	YES	NON-ANATOMIC BRAIN INJURY WITH MINIMAL FLEXION TO PAINFUL STIMULI AND NEUROLOGIC DEFICIT; SEVERE EDEMA	PAB; WINDSHIELD HEADER; FRONT RIGHT HEADER
	IN97028	UNDER REVIEW	Aug-97	Sep-97	TX	6	Female	46	51	NO	1997	TOYOTA	CAMRY	12	YES	NON-ANATOMIC BRAIN INJURY WITH LOSS OF CONCIOLUSNESS AND NEUROLOGICAL DEFICIT	PAB
84	2000-49-068A	UNDER REVIEW	Apr-00	Apr-00	TX	11 mo	Female	28	20	NO - STANDING ON THE LAP OF DRIVER	1997	PLYMOUTH	GRAND VOYAGER	10	NO	NON-ANATOMIC BRAIN INJURY WITH LOSS OF CONCIOLUSNESS; SUBDURAL HEMORRHAGE	DAB, FRONT LEFT HEADER
85	DS98020	UNDER REVIEW	Jul-98	Jul-98	CO	9	Male	54	70	MIS-USED - USED LAP BELT ONLY	1996	FORD	TAURUS	7	YES	SMALL LACERATION TO THE BRAIN STEM INVOLVING THE JUNCTION BETWEEN PONS AND MEDULLA; BILATERAL SUBDURAL HEMATOMAS	PAB
86	DS98019	UNDER REVIEW	May-98	May-98	CO	3	Male	40	45	NO	1997	NISSAN	QUEST	10	YES	COMPLETE TRANSECTION OF THE BRAINSTEM AT THE PONTINE-MEDULLARY JUNCTION; COMPLETE POSTERIOR DISARTICULATION OF THE BASE OF THE SKULL FROM THE CERVICAL SPINE AT THE ATLANTO-OCCIPITAL JOINT; SUBARACHNOID HEMORRHAGE	PAB
87	CA00036	UNDER REVIEW	May-00	Aug-00	WV	6	Female	50	90	NO	1995	PLYMOUTH	VOYAGER	13	YES	BASILAR SKULL FRACTURE (NFS); SEVERE HEAD TRAUMA (NFS)	PAB
88	CA98042	AVAILABLE	Jul-98	Jul-98	PA	7	Male	UNK	UNK	NO	1994	MERCURY	SABLE	11	NO	BRAIN STEM INJURY; DISLOCATION OF THE CERVICAL SPINE AT C1	DAB; UPPER AIR BAG MODULE COVER FLAP
89	CA00029	UNDER REVIEW	Jun-98	Aug-00	LA	3	Female	UNK	UNK	MIS-USED - USED LAP BELT ONLY	1995	HYUNDAI	ACCENT	12-14	YES	CERVICAL DISLOCATION (SUBLUXATION) WITHOUT FRACTURE, NFS	PAB
90	CA00046	UNDER REVIEW	Dec-99	Nov-00	AZ	5	Female	47	47	NO - ON LAP OF PASSENGER	1998	FORD	F150	15	YES	CONTUSION TO THE LEFT INFERIOR GYRUS WITH DIFFUSE SUBARACHNOID HEMORRHAGE	PAB
91	CA00053	UNDER REVIEW	Oct-99	Nov-00	TX	7	Male	47	43	MIS-USED - USED LAP BELT ONLY	1996	JAGUAR	XJS	15	YES	EXTENSIVE BASILAR SKULL FRACTURE	PAB FLAP
92	CA00049	ACTIVE	May-99	Nov-00	IL	7	Male	52	65	NO	1997	MITSUBISHI	GALANT	11	YES	WIDE SEPARATION OF C1 AND OCCIPITAL BONE	PAB
	CA98065	UNDER REVIEW	Nov-98	Nov-98	FL	6	Female	49	52	MIS-USED - SHOULDER BELT INCORRECTLY POSITIONED UNDER ARM	1996	TOYOTA	COROLLA	13	YES	CLOSED HEAD INJURY; CONCUSSION WITH BRIEF LOSS OF CONSCIOUSNESS, 1-3 MINUTES	PAB
93	CA99051	UNDER REVIEW	Nov-98	Sep-99	TN	2	Male	UNK	UNK	NO - ON LAP OF FRONT RIGHT PASSENGER	1998	CHEVROLET	CAVALIER	14	YES	BRAIN STEM INJURY(NFS); ATLANTO-OCCIPITAL DISLOCATION	PAB; MODULE COVER FLAP
94	CA99038	UNDER REVIEW	Feb-98	Sep-99	FL	4	Female	UNK	UNK	NO	1998	MITSUBISHI	ECLIPSE	11	YES	SUBLUXATION OF C1-C2 WITH SPINAL CORD INJURY	PAB; COVER FLAP
95	CA00003	UNDER REVIEW	Jan-00	Jan-00	OH	5	Male	46	40	NO	1996	FORD	CONTOUR	9	NO	DIFFUSE AXONAL INJURY/PARENCHYMAL HEMORRHAGE; HEMORRHAGIC CONTUSION RIGHT HIPPOCAMPUS; SUBDURAL HEMORRHAGE CEREBRUM	PAB
96	CA00055	ACTIVE	Dec-99	Nov-00	WV	10	Male	54	77	NO - ON LAP OF FRONT RIGHT PASSENGER	1997	CHEVROLET	CAVALIER	11	NO	INTERVENTRICULAR HEMORRHAGE; FRACTURE OF THE C-1 WITH DISPLACEMENT FROM OCCIPITAL BONE WITH TRANSECTION INJURY TO SPINAL CORD	PAB

97	CA01003	UNDER REVIEW	Jan-98	Jan-01	CA	4	Male	42	38	NO	1996	NISSAN	QUEST	12	YES	BILATERAL DIASTATIC CALVARIUM FRACTURE INVOLVING THE FRONTAL SAGITTAL AND LAMBDROID SUTURES WHICH EXTENDED INTO THE BASE OF THE SKULL; SUBARACHNOID HEMORRHAGE; CEREBRAL EDEMA	PAB; WINDSHIELD	
98	CA00026	UNDER REVIEW	Sep-99	Jul-00	GA	8	Female	50	86	MIS-USED - SHOULDER BELT UNDER RIGHT ARM	1999	GEO	METRO	13	YES	FRACTURE DISLOCATION BETWEEN C1 AND C2 WITH CORD CONTUSION; subdural hemorrhage	PAB	
99	CA00052	ACTIVE	Dec-99	Nov-00	SC	6	Male	UNK	UNK	NO - ON LAP OF PASSENGER MIS-USED - BELTS NOT USED PROPERLY; PROPERLY SECURED IN FFCSS	1994	NISSAN	ALTIMA	10	YES	CERVICAL DISLOCATION	PAB	
100	IN01016	ACTIVE	May-01	Jun-01	TN	1	Male	30	32		1995	DODGE	NEON	9	YES	DECAPITATION	PAB	
101	IN01021	ACTIVE	Aug-01	Aug-01	TX	1	Female	32	31	NO - ON LAP OF PASSENGER	1996	GEO	METRO	17	YES	COMPLETE FRACTURE AT C5-C6 WITH TRANSECTION OF THE SPINAL CORD; NEARLY COMPLETE TRANSECTION OF THE BRAIN STEM; DIFFUSE SUBARACHNOID HEMORRHAGE	PAB	
102	IN00013	ACTIVE	Apr-00	May-00	TX	2	Female	35	29	NO - ON LAP OF PASSENGER	1997	PLYMOUTH	NEON	7-11	NO	SPINAL CORD LACERATION AT THE C3 WITH FRACTURE OF C3	PAB	
103	IN01011	ACTIVE	Sep-00	Apr-01	IL	3	Male	35	UNK	NO - SITTING BETWEEN THE LEGS OF THE FRONT RIGHT PASSENGER	1996	GEO	METRO	18	YES	BRAIN STEM LACERATIONS; UPPER CERVICAL SPINAL CORD INJURIES; UPPER CERVICAL DISLOCATIONS; BASILAR SUBARACHNOID HEMORRHAGE	PAB; COVER FLAP	
104	CA01015	UNDER REVIEW	Nov-98	Jan-01	GA	4	Male	42	38	NO	1994	PLYMOUTH	VOYAGER	10-15	YES	SUBARACHNOID HEMORRHAGES OF PITUITARY, CEREBRAL HEMISPHERES, AND PARIETAL REGIONS; SEVERE BRAIN EDEMA; BILATERAL PULMONARY CONTUSION WITH RIGHT LUNG COLLAPSE; CONTUSION IN THE CORTEX OF THE RIGHT TEMPORAL LOBE	PAB	
Active - Investigation initiated and continuing; Report not yet received at NHTSA Under Review - Investigation complete; Report under review by NHTSA staff; Report not available Available - Report review complete; Report placed in public file and available from VOLPE Center (617) 494-2640 Notes: 1 A five year old, 35 pound female child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case CA9610. 2 A five year old, 39 pound male child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case IN9622. 3 A two year old, 23 pound female child was wearing lap and shoulder belt. Proper restraint for a child this size is a child safety seat, properly secured in a rear seating position. See case IN9732. 4 Forward facing child safety seat not restrained to vehicle in case DS9611. 5 A two year old, 33 pound female child was kneeling in the seat using the lap portion of the lap and shoulder belt. See case DS9718. 6 Forward facing child safety seat not properly restrained to vehicle in case CA9745. 7 Front right occupant (11-year-old-male) leaning forward to pick up a tissue prior to impact in case IN9729.																		
												UNK - Unknown					N/A - Not Applicable	
												PAB FLAP - Passenger's air bag cover flap					PAB - Passenger's Air Bag	
												DAB - Driver's Air Bag					FX - Fracture	

NATIONAL CENTER FOR STATISTICS AND ANALYSIS
 SPECIAL CRASH INVESTIGATIONS
 ADULT DRIVERS FATALLY INJURED BY DAB
 NORMALIZED BY VEHICLE REGISTRATIONS
 Confirmed and Unconfirmed
 January 1, 2002

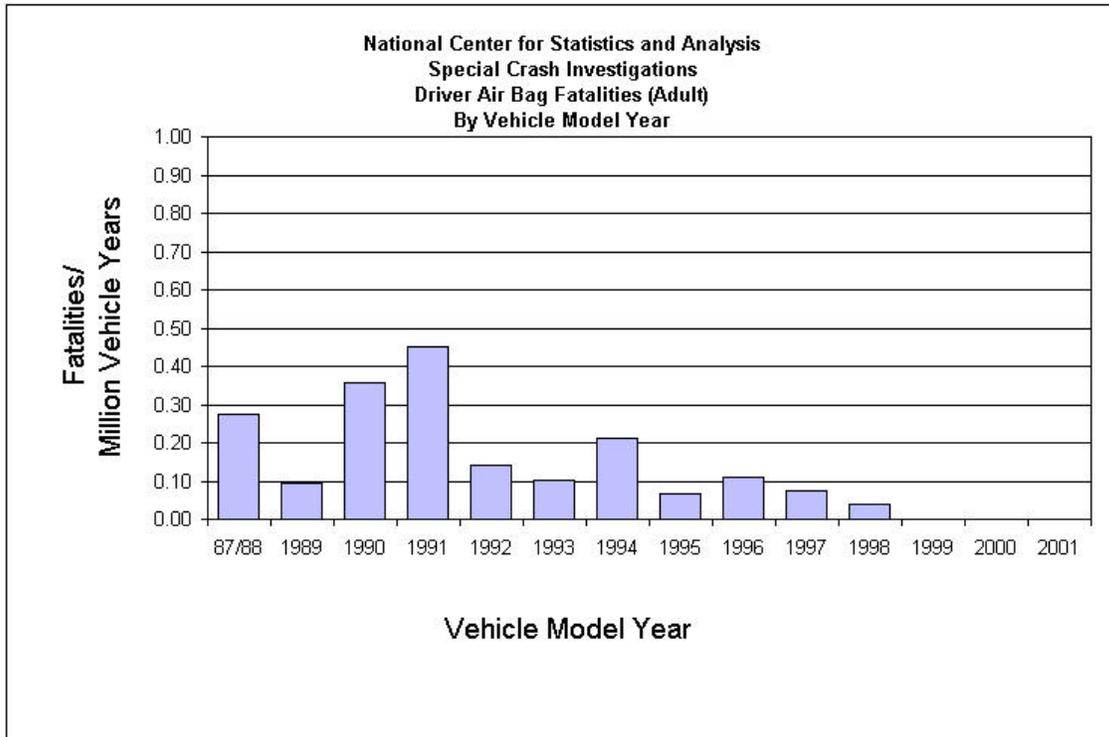
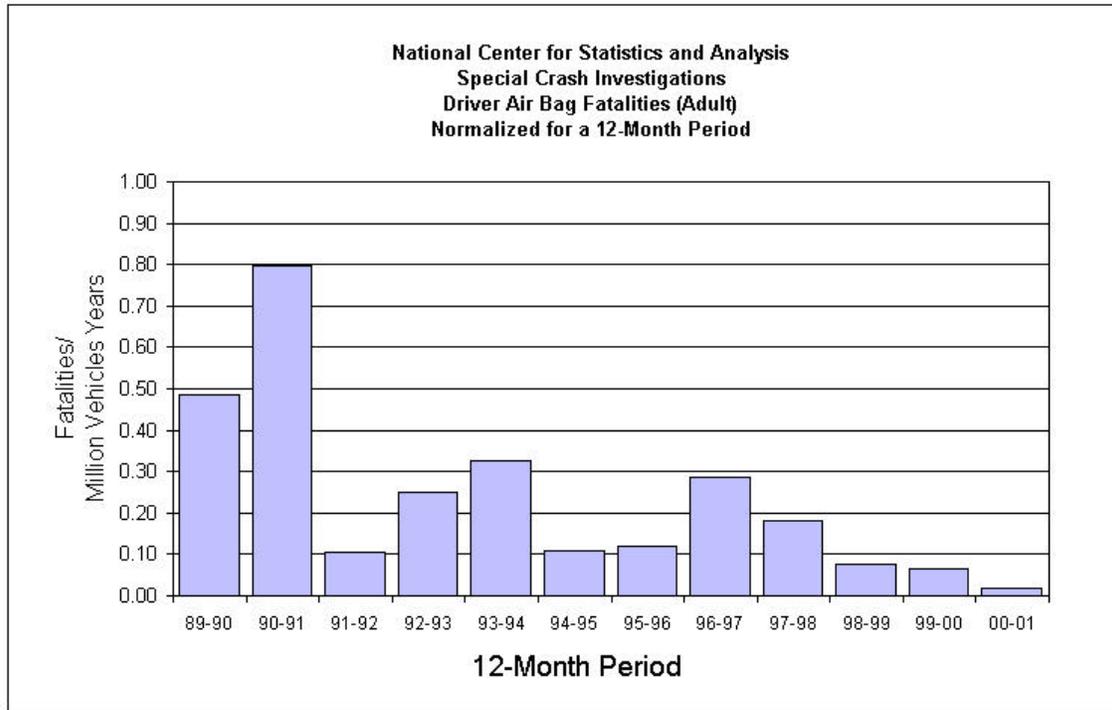
Vehicle Model Year (in millions of vehicles)

	1987-88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Registered Driver Air Bag Equipped Vehicles	0.326	0.502	2.476	3.470	5.616	7.348	10.420	14.225	13.222	14.596	14.657	16.087	16.404	16.738	16.738	152.826

Vehicle Model Year

Crash Date	87/88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Sep 87 to Aug 88																0
Sep 88 to Aug 89																0
Sep 89 to Aug 90			1													1
Sep 90 to Aug 91			1	3												4
Sep 91 to Aug 92				1												1
Sep 92 to Aug 93			1	2	1											4
Sep 93 to Aug 94			1	2	2		3									8
Sep 94 to Aug 95			3	1												4
Sep 95 to Aug 96		1			1	1	2	1								6
Sep 96 to Aug 97				1	1	2	6		5	3						18
Sep 97 to Aug 98	1			2	1	1	2	4	2	1						14
Sep 98 to Aug 99			1	2		1				1	2					7
Sep 99 to Aug 00			1	1	1	1	2	1								7
Sep 00 to Aug 01							1		1							2
Sep 01 to Aug 02																0
Total	1	1	9	15	7	6	16	6	8	5	2	0	0	0	0	76
Fatalities/Million Vehicle Years	0.274	0.092	0.353	0.445	0.138	0.099	0.206	0.064	0.106	0.072	0.036	0.000	0.000	0.000	0.000	

*Confirmed cases are those where the air bag has been confirmed to be the injury mechanism. Unconfirmed cases are crashes under active investigation where the air bag is suspected of being the injury mechanism.



Note: The bar charts above are shown using a different scale than the other two sets of bar charts

January 1, 2002
 CASES FROM NATIONAL CENTER FOR STATISTICS AND ANALYSIS SPECIAL CRASH INVESTIGATION PROGRAM
 DRIVERS WHO SUSTAINED FATAL OR SERIOUS INJURIES IN MINOR OR MODERATE SEVERITY AIR BAG DEPLOYMENT CRASHES

Fatal Count	Case Number	Case Status	Crash Date	Invest Date	St	Age	Sex	Ht (IN)	Wt (LB)	Restraint Use	Vehicle Model Year	Vehicle Make	Vehicle Model	Change In Velocity (MPH)	Pre- Impact Braking	Injury Descriptions	Injury Source
1	CA91009	AVAILABLE	Jun-91	Jun-91	IL	79	Female	62	120	YES	1991	FORD	TAURUS	8	YES	MULTIPLE BILATERAL RIB FXS; 2 STERNUM FXS; ATRIUM/PERICARDIUM/SPLEEN LACERATION	DAB; STEERING WHEEL
2	CA91012	AVAILABLE	Aug-91	Sep-91	PA	36	Female	64	112	YES	1990	DODGE	SHADOW	14	NO	MULTIPLE BILATERAL RIB FXS; ABDOMINAL AORTA RUPTURE; RUPTURED SPLEEN	DAB; STEERING WHEEL
3	NC92008	AVAILABLE	Aug-90	Aug-90	TX	64	Female	56	95	UNK	1990	FORD	TAURUS	12	UNK	MULTIPLE RIB FXS; RIGHT & LEFT HEMOTHORACES; BILATERAL PULMONARY CONTUSIONS	DAB; STEERING WHEEL
4	CA93008	AVAILABLE	Dec-92	May-93	SC	37	Female	62	130	NO	1991	CHEVROLET	CORSICA	16	YES	BASILAR SKULL FX; BRAINSTEM LACERATION	DAB
5	CA93009	AVAILABLE	Aug-93	Aug-93	CO	71	Female	62	129	NO	1990	FORD	TAURUS	10	YES	C-SPINE FX; BRAIN STEM LACERATION; SUBDURAL HEMATOMA; SUBARACHNOID HEMORRHAGE; BILATERAL RIB FXS; LACERATION TO AORTA, HEART & LIVER	DAB
6	CA94005	AVAILABLE	Apr-93	Feb-94	NY	76	Female	62	115	NO	1992	CHEVROLET	CORSICA	13	UNK	MULTIPLE RIB FXS; RIGHT HUMERUS FX; ATLANTO-OCCIPITAL DISLOCATION; SKULL FX	DAB
7	DS94022	AVAILABLE	Feb-94	Dec-94	CA	74	Female	59	128	YES	1992	CHEVROLET	CORSICA	7	YES	MASSIVE INTRATHORACIC HEMORRAGE	DAB
8	IN95005	AVAILABLE	Sep-94	Feb-95	IL	51	Female	64	148	NO	1990	CADILLAC	ELDORADO	13	NO	MULTIPLE RIB FXS; STERNUM FX; BRAIN STEM/AORTA/LIVER LACERATIONS; C1/C2 FX/DISLOCATION; SUBARACHNOID HEMORRHAGE	DAB
9	IN95006	AVAILABLE	Feb-95	Feb-95	IN	38	Female	62	110	NO	1990	LINCOLN	CONTINENTAL	11	NO	BASILAR SKULL FX; MEDULLA TRANSECTION; LEFT RIB FXS; LUNG CONTUSIONS; HEART VALVE LACERATION	DAB
10	DS95023	AVAILABLE	Nov-95	Dec-95	WA	17	Female	59	126	NO	1989	DODGE	DAYTONA	9	NO	MASSIVE BASILAR SKULL FX; LACERATION CAVERNOUS SINUSES	DAB
11	IN95019	AVAILABLE	Nov-94	Nov-95	SC	36	Female	65	126	NO	1990	FORD	TAURUS	10-15	TBD	RIGHT VENTRICULAR HEART LACERATIONS; LUNG CONTUSIONS	DAB
12	IN96009	UNDER REVIEW	May-94	Apr-96	IL	46	Female	63	140	NO	1994	TOYOTA	CAMRY	<10	UNK	CONCUSSION; ATLANTO-OCCIPITAL DISLOCATION; LIVER CONTUSION	DAB
13	CA91010	AVAILABLE	Jun-91	Jun-91	CO	46	Male	72	230	YES	1991	PONTIAC	FIREBIRD	19	NO	MULTIPLE BILATERAL RIB FXS; SEVERE MYOCARDIAL CONTUSION	DAB; STEERING WHEEL
14	NC93007	AVAILABLE	Nov-92	Nov-92	PA	78	Male	70	230	NO	1991	CHEVROLET	CORSICA	8-10	TBD	MULTIPLE BILATERAL RIB FXS; SEVERE MYOCARDIAL CONTUSION	DAB; STEERING WHEEL
15	CA95002	AVAILABLE	Aug-94	Jan-95	MS	56	Male	71	208	NO	1994	FORD	F150	12	YES	MULTIPLE BILATERAL RIB FXS; STERNUM FX; MULTIPLE INTERNAL INJURIES	DAB
16	LTC95026	AVAILABLE	Oct-93	Mar-95	FL	45	Female	64	112	YES	1991	MAZDA	MIATA	10	YES	C2 FX; LEFT OCCIPITAL CONDYLE FX; CEREBRAL AND SUBARACHNOID HEMORRHAGE; PONS CONTUSION	DAB
17	LTC95030	AVAILABLE	Sep-95	Sep-95	FL	41	Female	58	199	YES	1994	TOYOTA	TERCEL	15	NO	MEDULLA AND SUBARACHNOID HEMORRHAGE; SUBDURAL HEMATOMA; LEFT SIDE PNEUMOTHORAX	DAB
18	UMTRI/FMA-077	AVAILABLE	Feb-95	Sep-95	OH	22	Female	61	UNK	NO	1991	FORD	TAURUS	10	YES	PONS AND BRAIN STEM HEMORRHAGE; BASILAR SKULL FX; SUBARACHNOID HEMORRHAGE	DAB
19	NS96002	ACTIVE	Mar-96	Apr-96	FL	79	Male	69	180	YES	1995	FORD	ESCORT	13	NO	MULTIPLE BILATERAL RIB FXS; LUNG CONTUSIONS; STERNUM FX; MYOCARDIUM AND PERICARDIUM LACERATION	DAB
See Note 2	CA96017	AVAILABLE	Jun-96	Oct-96	MD	28	Female	63	108	YES	1990	MAZDA	MIATA	LOW	NO	ODONTOID BONE FX AND DISLOCATION	DAB
	CA95009	AVAILABLE	Oct-94	Apr-95	GA	29	Female	62	165	NO	1992	FORD	TAURUS	8	YES	ABRUPTED PLACENTA WITH FATAL FETUS	DAB
	NS96003	ACTIVE	Oct-96	Oct-96	MI	48	Male	69	187	NO	1992	CHEVROLET	BERETTA	LOW	TBD	C3/C5 FX WITH SPINAL CORD INJURY RESULTING IN QUADRAPLEGIA; C5/C6 EPIDURAL HEMATOMA	DAB
20	CA96019	ACTIVE	Oct-96	Oct-96	MD	26	Female	64	160	NO	1996	FORD	WINDSTAR	20	YES	MULTIPLE BILATERAL RIB FXS; MULTIPLE PULMONARY CONTUSIONS; LUNG, ATRIUM AND LIVER LACERATION	DAB; STEERING WHEEL
21	IN96028	UNDER REVIEW	Sep-96	Nov-96	WV	71	Male	72	176	MIS-USED - USED SHOULDER BELT ONLY	1994	NISSAN	MAXIMA	14	NO	TRANSECTED AORTIC ARCH	DAB
22	CA97013	AVAILABLE	Mar-97	Mar-97	ME	51	Male	68	200	NO	1994	FORD	PROBE	8-10	YES	RIGHT RIB FXS; BLUNT TRAUMA TO CHEST; SUBARACHNOID HEMORRHAGE	DAB
23	IN97012	AVAILABLE	Jun-96	Apr-97	OK	39	Female	60	250	NO	1994	FORD	ASPIRE	13	YES	HEMOPNEUMOTHORAX LACERATION OF THE THORACIC AORTA	DAB
24	IN97003	UNDER REVIEW	May-92	Feb-97	KS	74	Female	61	117	YES	1991	MERCURY	GRAND MARQUIS	8	NO	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; C2 FX	DAB
25	DS97012	UNDER REVIEW	Nov-96	Jun-97	CA	58	Female	63	150	YES	1996	INFINITI	I30	12	NO	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; BILATERAL LUNG CONTUSIONS; STERNUM FX	DAB
26	CA97023	AVAILABLE	Feb-97	Jun-97	NJ	37	Female	64	145	YES	1996	FORD	EXPLORER	15	YES	BLUNT TRAUMA TO NECK WITH ASPHYXIA	DAB
27	CA97024	ACTIVE	Jun-97	Jun-97	DE	53	Female	64	167	YES	1997	MITSUBISHI	GALANT	LOW	NO	BLUNT TRAUMA TO CHEST; SUBDURAL HEMATOMA	DAB

28	CA97022	AVAILABLE	Jun-91	Jun-97	FL	36	Female	66	160	NO	1991	CHEVROLET	CAPRICE	17	YES	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; MULTIPLE INTERNAL INJURIES	DAB; STEERING WHEEL
29	IN97019	UNDER REVIEW	Jan-97	Jun-97	FL	56	Female	64	142	NO	1994	BUICK	CENTURY	12	NO	LACERATED AORTA; MULTIPLE BILATERAL RIB FXS; STERNUM FX	DAB FLAP; DAB; STEERING WHEEL RIM
30	CA97021	UNDER REVIEW	Nov-96	May-97	FL	78	Female	62	142	NO	1994	OLDSMOBILE	CUTLASS	15	YES	RIGHT RIB FXS; LACERATIONS TO TRICUSPID VALVE LEAFLET AND INTRAVENTRICULAR SEPTUM; AORTIC DISSECTION	DAB
31	UMTRI/FMA-059	AVAILABLE	Nov-93	Dec-93	MI	40	Male	68	201	NO	1990	FORD	TAURUS	19	NO	BLUNT FORCE TRAUMA TO THE CHEST RESULTING IN SUDDEN HEART STOPPAGE STERNUM FX; BILATERAL LUNG LACERATIONS; LIVER LACERATIONS	DAB
32	DS97015	ACTIVE	Aug-94	Jun-97	WA	58	Male	64	115	MIS-USED - USED SHOULDER BELT ONLY	1994	NISSAN	SENTRA	11	NO	MULTIPLE BILATERAL RIB FXS; STERNUM FX; BILATERAL HEMOTHORACES; SPLEEN LACERATION	DAB
33	IN97007	AVAILABLE	Jan-94	Feb-97	MI	80	Male	72	133	NO	1991	FORD	CROWN VICTORIA	8-10	YES	LACERATED ASCENDING AORTA WITH HEMOPERICARDIUM	DAB
34	UM97036	ACTIVE	Apr-97	Jul-97	MI	60	Female	63	187	YES	1994	LINCOLN	MARK VIII	21	NO	C1/C2 DISLOCATION WITH SPINAL CORD COMPRESSION	DAB
35	DS97019	AVAILABLE	Jul-97	Sep-97	WA	77	Female	63	151	YES	1993	CHEVROLET	CORSICA	13	NO	BILATERAL SUBDURAL HEMATOMA; SUBDURAL, SUBARACHNOID, AND SMALL INTRA-VENTRICULAR HEMORRHAGES	DAB
See Note 5	CA97029	UNDER REVIEW	May-97	Sep-97	NC	80	Male	73	185	NO	1991	FORD	TAURUS	11	YES	C4/C5 FX/DISLOCATION RESULTING IN QUADRIPLEGIA; RIGHT TEMPORAL HEMORRHAGE	DAB
36	IN97044	ACTIVE	May-97	Nov-97	TX	63	Male	66	156	NO	1996	FORD	CONTOUR	5	UNK	SUBARACHNOID HEMORRHAGE; C5, NOSE, RIGHT MAXILLA AND LEFT RIB FXS	PAB FLAP
37	1997-45-042	UNDER REVIEW	Apr-97	Nov-97	TN	78	Female	64	120	NO	1992	BUICK	LeSABRE	21	YES	BLUNT FORCE TRAUMA TO THE CHEST RESULTING IN SUDDEN HEART STOPPAGE	DAB FLAP; DAB
38	CA98005	UNDER REVIEW	Jan-98	Feb-98	NJ	71	Female	65	150	NO	1993	BUICK	CENTURY	9	YES	MULTIPLE BILATERAL RIB FXS WITH HEMOTHORACES; STERNUM FX; AORTIC AND PERICARDIAL LACERATION	DAB FLAP; DAB
39	IN98018	ACTIVE	Sep-97	Apr-98	TX	56	Female	65	119	NO	1988	MERCEDES	190E	13	NO	C2 FX/DISLOCATION WITH SPINAL CORD TRANSECTION; SEVERE CEREBRAL EDEMA	DAB
40	1997-04-146A	UNDER REVIEW	Oct-97	Nov-98	NJ	84	Female	UNK	UNK	MIS-USED - USED LAP BELT ONLY	1996	GEO	METRO	19	NO	MULTIPLE RIGHT RIB FXS WITH PNEUMOTHORAX	DAB
41	IN97038	AVAILABLE	Nov-97	Nov-97	MN	17	Female	47	80	NO	1992	TOYOTA	CELICA	13	NO	DIFFUSE SUBDURAL & SUBARACHNOID HEMORRHAGES; MINIMAL ATLANTO-OCCIPITAL SEPARATION	DAB
42	IN97022	AVAILABLE	Jun-97	Jul-97	MS	79	Female	62	155	NO	1993	FORD	TAURUS	16	NO	MULTIPLE RIB FXS; LUNG LACERATIONS WITH HEMOPNEUMOTHORACES; STERNUM FX; LACERATED LIVER AND SPLEEN	DAB FLAP; DAB
43	CA98030	AVAILABLE	May-98	May-98	DE	38	Female	63	196	NO	1995	MITSUBISHI	MIRAGE	13	NO	RIGHT VENTRICLE PERFORATION; PULMONARY LACERATION WITH HEMOTHORAX; CLOSED HEAD INJURY	DAB
44	CA98044	AVAILABLE	Jul-98	Aug-98	VA	45	Male	71	200	NO	1991	DODGE	SPIRIT	18	YES	ATLANTO-OCCIPITAL DISLOCATION WITH COMPLETE TRANSECTION OF THE SPINAL CORD; PONTINE CONTUSIONS; SUB-ARACHNOID HEMORRHAGE INVOLVING CEREBELLUM AND BRAIN STEM	DAB
45	IN98021	ACTIVE	Aug-97	Oct-98	TX	18	Female	62	123	YES	1991	FORD	TAURUS	12	YES	SUBARACHNOID HEMORRHAGE; BI-LATERAL ATLANTO-AXIAL DISLOCATIONS; BRAIN STEM CONTUSIONS	DAB
46	CA98050	UNDER REVIEW	Jun-98	Sep-98	CT	62	Female	61	125	NO	1995	FORD	ESCORT	14	NO	MULTIPLE ANTERIOR RIB FXS WITH HEMOTHORACES; STERNUM FX	DAB
47	CA98051	ACTIVE	Feb-96	Sep-98	VA	86	Male	65	142	NO	1992	LINCOLN	CONTINENTAL	12-15	NO	MULTIPLE BILATERAL RIB FXS WITH BILATERAL HEMOTHORAX; SUPERIOR VENA CAVA RUPTURE; LIVER LACERATIONS	DAB FLAP; DAB
48	CA98032	AVAILABLE	Jul-97	May-98	PA	88	Male	67	180	NO	1997	LINCOLN	CONTINENTAL	7-9	YES	MULTIPLE BILATERAL RIB FXS WITH BILATERAL HEMOTHORAX; STERNUM FX; RIGHT VENTRICLE LACERATION	DAB FLAP
49	CA98055	ACTIVE	Oct-98	Oct-98	PA	19	Female	62	138	NO	1998	MITSUBISHI	MIRAGE	10	YES	ABRUPTED PLACENTA WITH FATAL FETUS	DAB FLAP; DAB
50	DS98026	UNDER REVIEW	Jun-98	Sep-98	OR	74	Female	65	220	NO	1995	PLYMOUTH	VOYAGER	11	YES	CRUSHING CHEST INJURY WITH MULTIPLE RIB FRACTURES	DAB
51	CA98048	UNDER REVIEW	Aug-98	Sep-98	NC	61	Female	60	140	YES	1996	OLDSMOBILE	98	17	NO	BRAINSTEM CONTUSION AND AN ATLANTO-OCCIPITAL DISLOCATION, RIB FRACTURE	DAB
52	1997-72-103A	UNDER REVIEW	Aug-97	Aug-97	IL	62	Female	64	146	NO	1996	FORD	TAURUS	19	NO	C-SPINE DISLOCATION	DAB
53	CA98063	AVAILABLE	Oct-98	Nov-98	NJ	52	Female	62	115	YES	1993	TOYOTA	COROLLA	11	NO	FRACTURE C2/C3 WITH COMPLETE CORD TRANSECTION	DAB
54	IN98013	UNDER REVIEW	Jan-98	Jan-98	IL	26	Female	64	130	NO	1995	JEEP	GRAND CHEROKEE	6	NO	ATLANTO-OCCIPITAL DISLOCATION WITH CONTUSION TO THE SPINAL CORD	DAB
55	IN98032	ACTIVE	Dec-98	Dec-98	IL	39	Female	66	130	NO	1998	DODGE	CARAVAN	23	NO	MULTIPLE BILATERAL RIB FRACTURES LACERATED LEFT PULMONARY VEIN	DAB
55	DS98021	AVAILABLE	Oct-97	Jul-98	CO	80	Male	66	140	NO	1991	DODGE	DYNASTY	11	NO	SKULL FRACTURE WITH SUBDURAL HEMORRHAGE; BILATERAL SUBARACHNOID HEMORRHAGE	DAB

Case No.	Status	Report Date	Crash Date	State	Age	Sex	Height	Weight	Seat Belt	Year	Make	Model	MPG	Occupant	Injury Description	Disposition
56	UNDER REVIEW	Mar-94	Sep-98	VA	58	Female	64	UNK	NO	1990	CHRYSLER	LEBARON	17	NO	BILATERAL SUBARACHNOID HEMORRHAGE C1/C2 FX; SPINAL CORD DAMAGE RESULTING IN QUADRIPLEGIA	DAB
57	ACTIVE	Dec-98	May-99	PA	80	Female	67	175	NO	1998	BUICK	REGAL	19	NO	RIB FRACTURES, HEART LACERATION	DAB
57	AVAILABLE	Dec-95	Oct-99	OR	37	Female	66	175	YES	1993	JEEP	GRAND CHEROKEE	16	NO	DEVASTATING INFRA- AND SUPRADIAPHRAGMATIC CAVAL INJURIES	DAB
58	UNDER REVIEW	Nov-99	Nov-99	NC	79	Female	59	117	NO	1991	FORD	TAURUS	13	YES	MULTIPLE BILATERAL RIB FRACTURES WITH PULMONARY CONTUSION	DAB FLAP; DAB
59	UNDER REVIEW	Jun-99	Jul-99	IL	19	Female	60	115	NO	1991	CHEVROLET	CORSICA	8	NO	FX/CONTUSION/DISLOCATION CERVICAL SPINAL CORD; BRAINSTEM HEMORRHAGE; NONANATOMIC BRAIN INJURY	DAB FLAP; DAB
60	AVAILABLE	Feb-00	Feb-00	FL	45	Female	62	170	YES	1994	PONTIAC	BONNEVILLE	18	NO	TRANSVERSE BASILAR SKULL FRACTURE, SUB-DURAL HEMORRHAGE, FX SINUSES	DAB
61	ACTIVE	Dec-97	Jan-98	WA	86	Male	70	160	NO	1994	FORD	TAURUS	19	NO	BLUNT IMPACT TO THE HEAD AND CHEST	DAB
61	AVAILABLE	Jan-00	May-00	MA	24	Female	62	110	NO	1994	GEO	PRIZM	11	YES	HINGE FRACTURE AT BASE OF SKULL	DAB
62	AVAILABLE	Mar-00	May-00	NC	57	Female	64	116	NO	1992	BUICK	ROADMASTER	18	NO	BASILAR SKULL FX	DAB
63	ACTIVE	Feb-00	Apr-00	WV	16	Female	63	102	NO	1990	PLYMOUTH	SUNDANCE	7	NO	CERVICAL FRACTURE	DAB
64	UNDER REVIEW	Jun-97	Apr-98	TX	52	Female	61	111	NO	1994	TOYOTA	COROLLA	13	NO	TWO IRREGULAR LACERATIONS TO ATRIAL SEPTUM; HORIZONTAL TEAR AT BASE OF AORTA, HEMORRHAGING SURROUNDING THE BASE OF THE AORTA; CERVICAL VERTEBRA TRANSECTED AND FRACTURED AT C4 AND C5	DAB
65	UNDER REVIEW	Apr-98	Dec-98	FL	79	Female	62	144	YES	1994	TOYOTA	CAMRY	15-20	UNK	BILATERAL RIB FRACTURES 2-8, ORIGINATING LATERALLY AND EXTENDING ANTERIORLY WITH BILATERAL HEMOTHORACES AND COMPLETE COLLAPSE OF THE LEFT LUNG AND PARTIAL OF THE RIGHT	DAB
66	UNDER REVIEW	Sep-99	Sep-99	CO	64	Female	61	110	YES	1995	CHEVROLET	PRIZM	18	NO	TRANSMURAL LACERATION OF THE RIGHT VENTRICLE OF THE HEART NEAR THE APEX, INCLUDING CARDIAC TAMPONADE (ANAMNESTIC), MILD DEGREE OF SURROUNDING INTRAMYOCARDIAL HEMORRHAGE	DAB
67	ACTIVE	Nov-98	Jan-01	TX	84	Female	56	108	NO	1991	FORD	CROWN VICTORIA	9 -13	NO	MULTIPLE LACERATIONS TO THE HEART, PERICARDIUM, AND LIVER; INTERVENTRICULAR SEPTUM WITH MASSIVE INTERNAL HEMORRHAGE; FRACTURED STERNUM AND RIBS	DAB
68	ACTIVE	Oct-97	Oct-97	NH	61	Female	64	177	NO	1994	CHEVROLET	CORSICA	15	UNK	BASILAR SKULL FRACTURE ATLANTO-OCCIPITAL AND ATLANTO AXIAL DISTRACTION; SUBARACHNOID AND SUBDURAL BRAIN HEMORRHAGES	DAB
	UNDER REVIEW	Dec-97	Dec-97	KY	61	Female	68	155	NO	1996	BUICK	CENTURY	22	NO	C2 TEARDROP FRACTURE RESULTING FROM HYPEREXTENSION	DAB

Under Review - Investigation complete; Report under review by NHTSA staff; Report not available
 Available - Report review complete; Report placed in public file and available from VOLPE Center (617) 494-2640
 Notes:

PAB FLAP - Passenger's air bag cover flap
 DAB - Driver's Air Bag

PAB - Passenger's Air Bag
 FX - Fracture

- 2 An unbelted pregnant female sustained an abruption of the placenta from the uterine wall and the fetus subsequently expired. See case CA9509.
 5 Driver expired approximately six weeks post crash of pneumonia. The NHTSA definition for the time to death in a fatal crash is "expired within 30 days or less after the crash." See case CA9729.

NATIONAL CENTER FOR STATISTICS AND ANALYSIS
 SPECIAL CRASH INVESTIGATIONS
 ADULT PASSENGERS FATALLY INJURED BY PAB
 NORMALIZED BY VEHICLE REGISTRATIONS
 Confirmed and Unconfirmed
 January 1, 2002

Vehicle Model Year (in millions of vehicles)

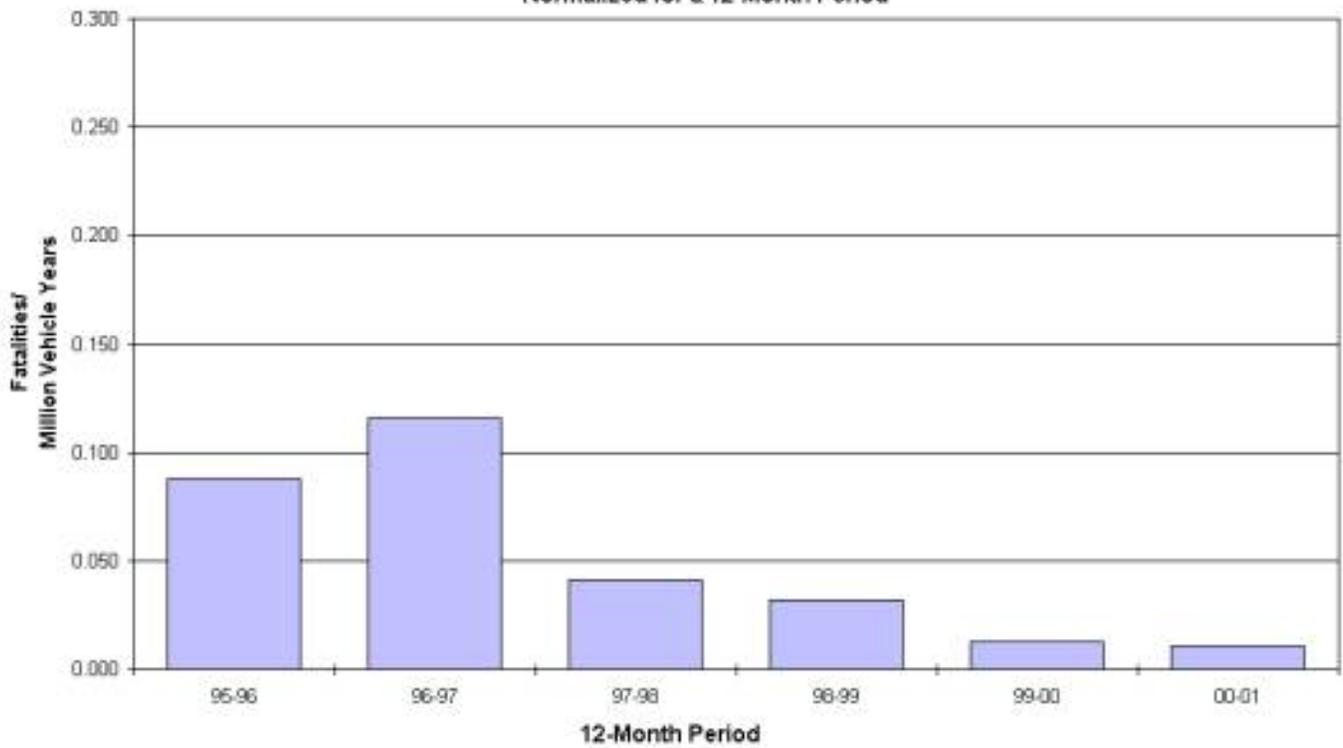
	1987-88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Registered Passenger Air Bag Equipped Vehicles	0.000	0.061	0.144	0.037	0.405	1.311	5.918	9.987	10.240	13.690	14.491	16.032	16.340	16.662	16.662	121.981

Vehicle Model Year

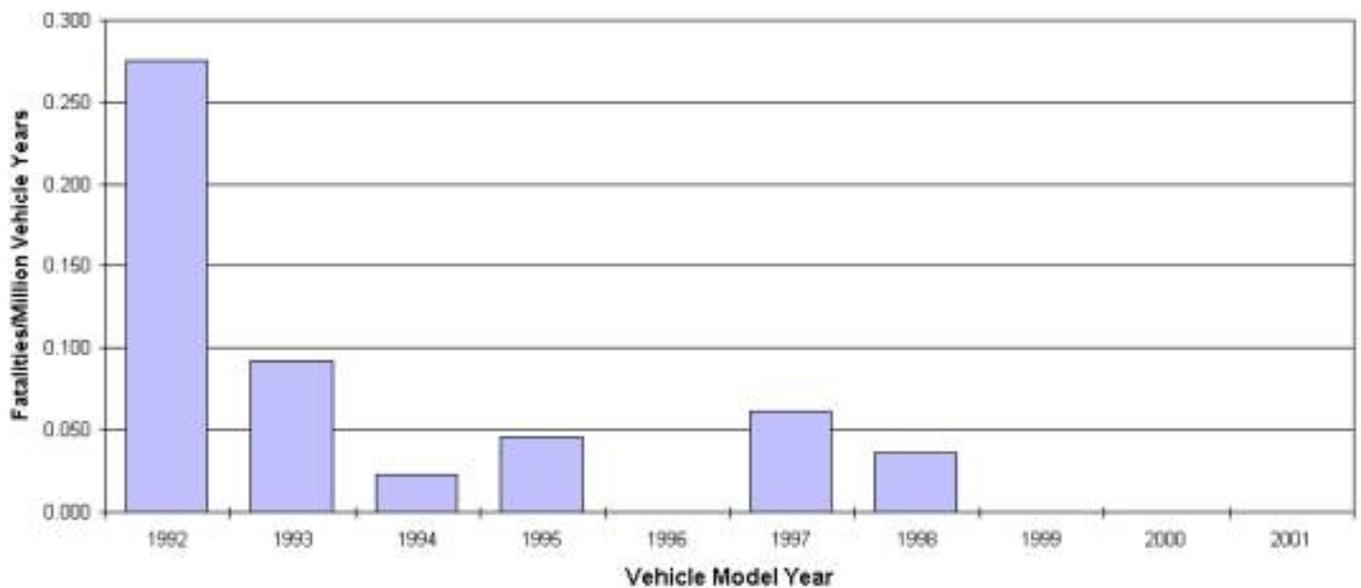
Crash Date	1987-88	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total
Sep 87 to Aug 88																0
Sep 88 to Aug 89																0
Sep 89 to Aug 90																0
Sep 90 to Aug 91																0
Sep 91 to Aug 92																0
Sep 92 to Aug 93																0
Sep 93 to Aug 94																0
Sep 94 to Aug 95																0
Sep 95 to Aug 96							1	1								2
Sep 96 to Aug 97								2		2						4
Sep 97 to Aug 98					1						1					2
Sep 98 to Aug 99										1	1					2
Sep 99 to Aug 00						1										1
Sep 00 to Aug 01										1						1
Sep 01 to Aug 02																0
Total	0	0	0	0	1	1	1	3	0	4	2	0	0	0	0	12
Fatalities/Million Vehicle Years	0.000	0.000	0.000	0.000	0.275	0.093	0.023	0.046	0.000	0.061	0.036	0.000	0.000	0.000	0.000	

*Confirmed cases are those where the air bag has been confirmed to be the injury mechanism. Unconfirmed cases are crashes under active investigation where the air bag is suspected of being the injury mechanism.

National Center for Statistics and Analysis
Special Crash Investigations
Passenger Air Bag Fatalities (Adult)
Normalized for a 12-Month Period



National Center for Statistics and Analysis
Special Crash Investigations
Passenger Air Bag Fatalities (Adult)
By Vehicle Model Year





Note: The bar charts above are shown using a different scale than the other two sets of bar charts

January 1, 2002

CASES FROM NATIONAL CENTER FOR STATISTICS AND ANALYSIS SPECIAL CRASH INVESTIGATION PROGRAM

ADULT PASSENGERS WHO SUSTAINED FATAL OR SERIOUS INJURIES IN MINOR OR MODERATE SEVERITY AIR BAG DEPLOYMENT CRASHES

Fatal Count	Case Number	Case Status	Crash Date	Invest Date	St	Age	Sex	Ht (IN)	Wt (LB)	Restraint Use	Vehicle Model Year	Vehicle Make	Vehicle Model	Change In Velocity (MPH)	Pre- Impact Braking	Injury Descriptions	Injury Sour
1	IN96008	AVAILABLE	Mar-96	Mar-96	PA	98	Female	63	126	YES	1994	DODGE	CARAVAN	12-16	YES	BRAIN UPPER EXT	PAB
2	CA97003	UNDER REVIEW	Jan-97	Jan-97	VA	57	Male	68	190	NO	1995	MITSUBISHI	EXPO MINIVAN	15	YES	CERVICAL FX SPINAL CORD	PAB
3	CA97007	UNDER REVIEW	Feb-97	Feb-97	PA	66	Female	62	140	NO	1995	CHRYSLER	NEW YORKER	10	YES	CERVICAL SPINE FX AND COMPLETE TRANSECTION OF C-SPINE CORD	PAB
	CA97043	UNDER REVIEW	Jul-97	Oct-97	PA	55	Female	61	130	YES	1995	GEO	METRO	10-12	YES	C6/C7 FRACTURE / DISLOCATION WITH COMPLETE CORD INJURY RESULTING IN QUADRIPLEGIA	PAB
4	CA98002	UNDER REVIEW	Sep-97	Jan-98	PA	88	Female	58	140	NO	1992	LINCOLN	CONTINENTAL	17	UNK	TRANSECTION OF THE TRACHEA, TRANSECTION OF THE BRAINSTEM AND SPINAL CORD C1	PAB
	DS97026	UNDER REVIEW	Oct-97	Dec-97	CO	74	Female	60	110	YES	1995	FORD	WINDSTAR	LOW	YES	EPIDURAL HEMATOMA CLOSED HEAD INJURY; CEREBRAL CONTUSIONS	PAB
5	IN97045	AVAILABLE	Apr-96	Nov-97	TX	64	Female	64	135	YES	1995	FORD	CROWN VICTORIA	8-12	NO	LARGE SUBDURAL HEMATOMA	PAB
	CA98068	UNDER REVIEW	Jul-96	Dec-98	DE	15	Female	63	110	YES	1994	PLYMOUTH	VOYAGER	15	YES	PERIOD OF UNCONSCIOUSNESS, INCOMPLETE BRACHIAL PLEXUS INJURY	PAB

6	DS98005	UNDER REVIEW	May-97	Feb-98	CA	79	Female	62	108	NO	1997	TOYOTA	CAMRY	11	YES	SUBARACHNOID HEMATOMA C1/C2 SUBLUXATION CERVICAL VERTEBRA, CEREBRAL CONTUSION, SUBARACHNOID HEMORRHAGE	PAB
	CA99013	UNDER REVIEW	Dec-97	May-99	FL	16	Female	63	100	NO	1994	PLYMOUTH	VOYAGER	9	YES	DEFUSE CEREBRAL EDEMA	PAB
	IN98026	UNDER REVIEW	Sep-97	Oct-98	MS	42	Male	UNK	UNK	UNK	1998	VOLVO	S70	9-14	UNK	C5/C6 FRACTURE; CERVICAL SPINAL CORD INJURY WITH QUADRIPLEGIA	PAB
	DS99022	UNDER REVIEW	Jul-99	Aug-99	NV	64	Female	62	112	YES	1997	TOYOTA	4-RUNNER	13	YES	SUBDURAL HEMATOMA	PAB
7	IN00017	ACTIVE	Oct-00	Oct-00	IA	22	Female	67	145	NO	1997	HYUNDAI	SONATA	13	YES	CRITICAL NON-ANATOMIC BRAIN INJURY, SMALL BILATERAL CEREBRAL CONTUSION, ABRASION TO RIGHT CHEEK AND CHIN	PAB
8	CA99039	UNDER REVIEW	May-98	Sep-99	PA	85	Male	UNK	UNK	NO	1998	MERCURY	MYSTIQUE	8	YES	INTRA-CEREBRAL HEMORRHAGE AND LEFT TRAUMATIC PNEUMOTHORAX	PAB AND RIGHT I

Active - Investigation initiated and continuing; Report not yet received at NHTSA
Under Review - Investigation complete; Report under review by NHTSA staff; Report not available
Available - Report review complete; Report placed in public file and available from VOLPE Center (617) 494-2640

UNK - Unknown
PAB FLAP - Passenger's air bag cover flap
DAB - Driver's Air Bag

N/A - Not Applicable
PAB - Passenger's A
FX - Fracture

SPECIAL CRASH INVESTIGATIONS ADVANCED OCCUPANT PROTECTION

CASES

January 1, 2002

1. CASES

1. Total Number of Cases:	58
2. Number of cases under active investigation:	47
3. Number of cases under review:	11
4. Number of cases available to public:	0

2. VEHICLES BY MANUFACTURER

1. AUDI	1
2. BMW	1
3. CHRYSLER	1
4. FORD	52
5. HONDA	2
6. TOYOTA	1
TOTAL	58

3. IMPACT PLANE

1. FRONT	46
2. LEFT SIDE	2
3. RIGHT SIDE	3
4. SIDE AND FRONT	1
5. TBD	5
6. UNK	1
TOTAL	58

4. CASE SELECTION CRITERIA

February 2001 to Present

The crash configuration must be an impact where an advanced component is designed to protect the occupant(s). Not including back plane impacts.

The vehicle must be towed due to crash induced damage

5. NHTSA CASE SUMMARY

The Advanced Occupant Protection Systems Study case summary can be viewed on the SCI Internet web site

at <http://www.nhtsa.dot.gov/people/ncsa/sci.html>

6. COORDINATION OF INFORMATION WITH INDUSTRY

The agency is sharing the field data with those automobile manufacturers that are currently sharing their technologies surrounding the Advanced Occupant Protection Systems available in their production vehicles

Particularly noteworthy is the technical analysis of data recording device outputs. This data has provided invaluable information relating to the occupant status, severity assessment and deployment controls in researching crashes with advanced systems.

January 1, 2002
 NHTSA NCSA ADVANCED OCCUPANT PROTECTION SYSTEMS CASE SUMMARY

CRASH		VEHICLE									DRIVER						PASSENGER							
Total No	Case Number	Case Status	Crash Date	Inv Date	State	Vehicle Model Year	Vehicle Make	Vehicle Model	Plane (CDC)	Damaged based Delta V (mph)	Driver Age	Driver Sex	Drv Height (in)	Drv Weight (lbs)	Drv Belted	Driver Body Region	Driver Injury Severity	FR Pass Age	FR Pass Sex	Pas Height (in)	Pas Weight (lbs)	Pas Belted	Pass Body Region	Pass Injury Severity
1	00-74-32G	Active	Mar-00	Mar-00	TBD	2000	Ford	Taurus	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2	CA00013	Under review	Mar-00	May-00	MI	2000	Ford	Taurus	12FZEW1	10	31	Male	73	183	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	CA00014	Under review	Mar-00	Mar-00	VA	2000	Honda	Accord	01FDEW1	10	27	Female	62	140	Yes	Cervical Spine	Cervical strain	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	00-12-093C	Under review	Jun-00	Jun-00	MI	2000	Ford	Taurus	12FDEW1	21	37	Male	75	260	Yes	Upper Extremity	Minor	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	CA00019	Under review	Jun-00	Jul-00	TN	2000	Ford	Taurus	01RYAW3	16	86	Male	71	150	No	Thorax	Severe	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	DS00001	Active	Jun-00	Jun-00	OR	2000	Honda	Accord	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
7	DS00002	Active	Feb-00	Jun-00	CA	2000	Ford	Taurus	12FDEW1	-8 longitudinal	70	Female	TBD	TBD	No	TBD	TBD	69	Male	TBD	TBD	No	TBD	TBD
8	DS00003	Under review	Mar-00	Jun-00	TX	2000	Ford	Taurus	12FDEW1	-38 longitudinal	33	Male	70	190	Yes	Thorax	1-Minor	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	DS00004	Under review	Feb-00	Jul-00	WA	2000	Ford	Taurus	00RDAO2	N/A	30	Female	TBD	TBD	TBD	Thorax	1-Minor	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	DS00005	Under review	Mar-00	Jul-00	TX	2000	Mercury	Sable	10FYEW1	-2 longitudinal	40	Male	Unk	Unk	Yes	N/A	N/A	20	Female	Unk	Unk	Yes	N/A	N/A
11	CA00020	Active	Apr-00	Jul-00	AL	2000	Ford	Taurus	12FCEN4	36	78	Male	TBD	TBD	Yes	TBD	Fatal	TBD	Femal	TBD	TBD	Yes	Lower Extremity	TBD
12	CA00021	Active	May-00	Jul-00	TN	2000	Ford	Taurus	12FCEN1	<10	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
13	DS00006	Active	May-00	Jul-00	CA	2000	Ford	Taurus	12FDEW1	-18.4 Longitudinal	40	Female	66	110	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	DS00007	Active	Apr-00	Jul-00	MO	2000	Ford	Taurus	11FDEW2	-23 longitudinal	44	Male	68	145	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	DS00008	Active	May-00	Jul-00	CA	2000	Mercury	Sable	12FDEW1	-11.7	59	Male	72	179	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	CA00023	Active	Jun-00	Jul-00	TN	2000	Ford	Taurus	11FYEW1	TBD	18	Female	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
17	CA00025	Active	Apr-00	Jul-00	MD	2000	Ford	Taurus	12FYEE9	TBD	62	Female	TBD	TBD	Yes	TBD	Fatal	67	Male	TBD	TBD	No	TBD	TBD
18	DS00009	Active	Aug-00	Aug-00	WI	2000	Ford	Taurus	12FLEE8	-35.3	63	Male	TBD	TBD	Yes	TBD	TBD	62	Female	TBD	TBD	TBD	TBD	TBD
19	DS00010	Active	Jun-00	Aug-00	MO	2000	Ford	Taurus	12FDEW1	-8 longitudinal	67	Male	68	200	No	Thorax	1-Minor	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	DS00011	Active	May-00	Aug-00	TX	2000	Mercury	Sable	TBD	-11 Longitudinal	39	Female	TBD	TBD	TBD	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21	DS00013	Active	Jul-00	Aug-00	WI	2000	Ford	Taurus	12FREE2	-14.4 Longitudinal	24	Male	TBD	TBD	TBD	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	DS00014	Active	May-00	Aug-00	MO	2000	Ford	Taurus	12FYEW1	-11.8 Longitudinal	48	Female	TBD	TBD	TBD	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	DS00016	Active	Jun-00	Aug-00	AR	2000	Ford	Taurus	10LYEW2	9.8 Total	30	Male	TBD	TBD	Yes	TBD	TBD	TBD	Female	TBD	TBD	Yes	TBD	TBD
24	CA00035	Active	Aug-00	Aug-00	NJ	2000	Ford	Taurus	TBD	10	35	Male	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25	DS00019	Active	Jul-00	Sep-00	IL	2000	Ford	Taurus	12FDEW1	-12.2 Lonitudinal	29	Female	59	115	Yes	TBD	TBD	50	Male	68	170	Yes	TBD	TBD
26	DS00018	Active	Jun-00	Sep-00	TX	2000	Ford	Taurus	11FDEW1	-13.7 Longitudinal	51	Male	TBD	TBD	Yes	TBD	TBD	38	Female	TBD	TBD	No	TBD	TBD
27	CA00038	Under review	Sep-00	Oct-00	MI	2000	Ford	Taurus	12FDEW1	-8.6 longitudinal	46	Male	71	215	No	N/A	0-Not Injured	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	00-11-075E	Active	Jun-00	Oct-00	VA	2000	Mercury	Sable	12FLEE6	TBD	35	Male	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	CA00044	Active	Sep-00	Oct-00	MI	2000	Ford	Taurus	11FYEW1	-9.9 Longitudinal	22	Male	Unk	Unk	No	N/A	N/A	20	Male	Unk	Unk	No	N/A	N/A
30	CA00043	Active	Aug-00	Oct-00	MI	2000	Ford	Taurus	TBD	TBD	85	Female	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31	00-11-145K	Active	Oct-00	Oct-00	MI	2000	Ford	Taurus	TBD	TBD	17	Male	TBD	TBD	Yes	N/A	N/A	TBD	Male	TBD	TBD	TBD	N/A	N/A
32	CA00041	Active	Sep-00	Sep-00	MI	2000	Ford	Taurus	TBD	TBD	46	Male	TBD	TBD	No	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	CA00059	Active	Nov-00	Dec-00	VA	2000	Ford	Taurus	11FDEW2	-7.8 Longitudinal	40	Male	76	250	Yes	N/A	N/A	60	Female	63	200	No	Head	1-Minor
34	DS00017	Active	Jun-00	Sep-00	OR	2000	Ford	Taurus	12FDEW1	-19.9 Longitudinal	50	Male	74	200	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	CA01011	Active	Dec-00	Jan-01	NY	2001	Chrysler	Town and Country	TBD	TBD	36	Female	TBD	TBD	Yes	TBD	TBD	3	Male	TBD	TBD	TBD	TBD	TBD
36	DS01003	Active	Dec-00	Feb-01	CA	2000	Ford	Taurus	TBD	TBD	30	Male	68	150	Yes	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
37	CA01022	Active	Jan-01	Feb-01	VA	2000	Ford	Taurus	11LPEW3	-19.9 longitudinal/ *11.5 Lateral	48	Female	64	156	Yes	Lower Extremity	3-Serious	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38	IN01003	Active	Feb-00	Feb-01	MS	2001	Lexus	GS300	12FZLW2	14.5 (CDC ONLY)	20	Male	TBD	TBD	Yes	TBD	TBD	18	Female	67	170	No	TBD	TBD
39	DS01004	Active	Nov-00	Mar-01	NC	2000	Ford	Taurus	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
40	DS01005	Active	Jan-01	Mar-01	TX	2000	Ford	Taurus	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
41	IN01006	Active	Mar-01	Mar-01	IL	2001	Ford	Taurus	12FYAW6	-26 Longitudinal	25	Male	73	175	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
42	DS01006	Active	Dec-00	Mar-01	CA	2000	Ford	Taurus	12FDEW3	-20	70	Female	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43	DS01007	Active	Jan-01	Mar-01	KS	2001	Mercury	Sable	01FDEW1	-15.8 Longitudinal	20	Female	TBD	TBD	No	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44	CA01020	UNDER REVIEW	Jan-01	Feb-01	PA	2000	Ford	Taurus	11FDEW1	-7.2 Longitudinal	48	Male	72	275	Yes	Yes	1-Minor	47	Female	62	150	Yes	Upper Extremity	1-Minor

45	CA00042	Active	Aug-00	Oct-00	PA	2000	Ford	Taurus	TBD	TBD	70	Female	TBD	TBD	Yes	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD		
46	DS01009	Active	Dec-00	Apr-01	TX	2000	Ford	Taurus	11FYEW2	32.8 Longitudinal	56	Female	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
47	CA01031	Active	May-00	Jun-01	MD	2001	Ford	Windstar	TBD	TBD	TBD	Male	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
48	CA01033	Active	Apr-01	Jun-01	MI	2001	Ford	Taurus	TBD	TBD	25	Male	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
49	CA01034	Active	Apr-01	Jun-01	MI	2001	Ford	Taurus	TBD	TBD	51	Female	TBD	TBD	Yes	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
50	CA01028*	Active	May-01	May-01	NY	2000	Ford	Taurus	12FDEW1	8.5 Longitudinal	69	Female	67	170	Yes	Thorax	1- Minor	N/A	N/A	N/A	N/A	N/A	N/A		
51	IN01017	Active	Jun-01	Jun-01	IN	2000	Ford	Taurus	TBD	TBD	29	Male	TBD	TBD	No	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
52	01-02-057E	Active	Jun-01	Jun-01	NY	2001	Ford	Taurus	TBD	TBD	60	Male	TBD	TBD	No	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
53	IN01012	Active	Apr-01	Apr-01	MO	2001	Ford	Taurus	12FZAA8	-82 Longitudinal	37	Female	TBD	TBD	Yes	TBD	Fatal	N/A	N/A	N/A	N/A	N/A	N/A		
54	CA01039	Active	Jun-01	Jul-01	NY	2001	Mercury	Sable	TBD	TBD	57	Female	TBD	TBD	TBD	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
55	CA01040	Active	Jun-01	Jul-01	NY	2001	Ford	Crown Vic	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
56	IN01019	Active	Jul-01	Aug-01	LA	2001	Ford	Crown Vic	TBD	TBD	36	Male	TBD	TBD	No	TBD	TBD	N/A	N/A	N/A	N/A	N/A	N/A		
57	01-41-005K	UNDER REVIEW	Jan-01	Jan-01	FL	2001	Audi	TT	Unk	Unk - UNKNOWN	32	MALE	70	181	NO	FACE	MINOR	N/A	N/A	N/A	N/A	N/A	N/A		
58	01-43-019E	UNDER REVIEW	Feb-01	Feb-01	NC	2000	BMW	328Ci	09LYEW9	UNKNOWN	15	MALE	68	152	YES	FACE	MINOR	16	MALE	67	159	YES	UPPER EXTREMITY MODERATE		
Active - Investigations initiated and continuing; Report not yet received at NHTSA											TBD - To be Determined					LOC - Loss of Consciousness									
Under Review - Investigation complete; Report under review by NHTSA staff; Report not available											UNK - Unknown					NFS - Not Further Specified									

SPECIAL CRASH INVESTIGATIONS SIDE AIR BAG CASES

January 1, 2002

1. CASES

1. Total Number of Cases:	59
2. Number of cases under active investigation:	27
3. Number of cases under review	20
4. Number of cases available to public:	12

2. VEHICLES BY MAKE

1	BMW	12
2	DAIMLER-CHRYSLER	10
3	FORD	1
4	GM	8
5	HONDA	1
6	JAGUAR	1
7	MAZDA	1
8	NISSAN	2
9	PORSCHE	1
10	TOYOTA	6
11	VOLVO	9
12	VW	7
	TOTAL	59

3. IMPACT PLANE

1	DRIVER'S SIDE	33
2	FRONT	6
3	LEFT SIDE	1

4	NO IMPACT	2
5	PASSENGER'S SIDE	12
6	ROLLOVER	5
TOTAL		59

4. CASE SELECTION CRITERIA

February 1995 to January 2000

Any side air bag and /or side curtain deployment

February 2000 to Present

Any side air bag and/or side curtain deployment into an occupied position

Data has provided invaluable information relating to the occupant status severity assessment and deployment controls in researching crashes with advanced systems.

