

CASES FROM THE 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	CA9109	AVAILABLE	Jun-91	Jun-91	IL	79	F	62	120	YES	1991	FORD	TAURUS	8	YES	MULTIPLE BILATERAL RIB FXS; 2 STERNUM FXS; ATRIUM/PERICARDIUM/SPLEEN LACERATION	DAB; STEERING WHEEL
2	CA9112	AVAILABLE	Aug-91	Sep-91	PA	36	F	64	112	YES	1990	DODGE	SHADOW	14	NO	MULTIPLE BILATERAL RIB FXS; ABDOMINAL AORTA RUPTURE; RUPTURED SPLEEN	DAB; STEERING WHEEL
3	NC9208	AVAILABLE	Aug-90	Aug-90	TX	64	F	56	95	UNK	1990	FORD	TAURUS	12	UNK	MULTIPLE RIB FXS; RIGHT & LEFT HEMOTHORACES; BILATERAL PULMONARY CONTUSIONS	DAB; STEERING WHEEL
4	CA9308	AVAILABLE	Dec-92	May-93	SC	37	F	62	130	NO	1991	CHEVROLET	CORSICA	16	YES	BASILAR SKULL FX; BRAINSTEM LACERATION	DAB
5	CA9309	AVAILABLE	Aug-93	Aug-93	CO	71	F	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	CA9405	AVAILABLE	Apr-93	Feb-94	NY	76	F	62	115	NO	1992	CHEVROLET	CORSICA	13	UNK	MULTIPLE RIB FXS; RIGHT HUMERUS FX; ATLANTO-OCCIPITAL DISLOCATION; SKULL FX	DAB
7	DS9422	AVAILABLE	Feb-94	Dec-94	CA	74	F	59	128	YES	1992	CHEVROLET	CORSICA	7	YES	MASSIVE INTRATHORACIC HEMORRHAGE	DAB
8	IN9505	AVAILABLE	Sep-94	Feb-95	IL	51	F	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	IN9506	AVAILABLE	Feb-95	Feb-95	IN	38	F	62	110	NO	1990	LINCOLN	CONTINENTAL	11	NO	BASILAR SKULL FX; MEDULLA TRANSECTION; LEFT RIB FXS; LUNG CONTUSIONS; HEART VALVE LACERATION	DAB
10	DS9523	AVAILABLE	Nov-95	Dec-95	WA	17	F	59	126	NO	1989	DODGE	DAYTONA	9	NO	MASSIVE BASILAR SKULL FX; LACERATION CAVERNOUS SINUSES	DAB
11	IN9519	AVAILABLE	Nov-94	Nov-95	SC	36	F	65	126	NO	1990	FORD	TAURUS	10-15	TBD	RIGHT VENTRICULAR HEART LACERATIONS; LUNG CONTUSIONS	DAB
12	IN9609	UNDER REVIEW	May-94	Apr-96	IL	46	F	63	140	NO	1994	TOYOTA	CAMRY	<10	UNK	CONCUSSION; ATLANTO-OCCIPITAL DISLOCATION; LIVER CONTUSION	DAB
13	CA9110	AVAILABLE	Jun-91	Jun-91	CO	46	M	72	230	YES	1991	PONTIAC	FIREBIRD	19	NO	MULTIPLE BILATERAL RIB FXS; SEVERE MYOCARDIAL CONTUSION	DAB; STEERING WHEEL
14	NC9307	AVAILABLE	Nov-92	Nov-92	PA	78	M	70	230	NO	1991	CHEVROLET	CORSICA	8-10	TBD	MULTIPLE BILATERAL RIB FXS; SEVERE MYOCARDIAL CONTUSION	DAB; STEERING WHEEL
15	CA9502	AVAILABLE	Aug-94	Jan-95	MS	56	M	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	F	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	F	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	F	61	UNK	NO	1991	FORD	TAURUS	10	YES	PONS AND BRAIN STEM HEMORRHAGE; BASILAR SKULL FX; SUBARACHNOID HEMORRHAGE	DAB
19	NS9602	ACTIVE	Mar-96	Apr-96	FL	79	M	69	180	YES	1995	FORD	ESCORT	13	NO	MULTIPLE BILATERAL RIB FXS; LUNG CONTUSIONS; STERNUM FX; MYOCARDIUM AND PERICARDIUM LACERATION	DAB
	CA9617	AVAILABLE	Jun-96	Oct-96	MD	28	F	63	108	YES	1990	MAZDA	MIATA	LOW	NO	ODONTOID BONE FX AND DISLOCATION	DAB
See Note 2	CA9509	AVAILABLE	Oct-94	Apr-95	GA	29	F	62	165	NO	1992	FORD	TAURUS	8	YES	ABRUPTED PLACENTA WITH FATAL FETUS	DAB
	NS9603	ACTIVE	Oct-96	Oct-96	MI	48	M	69	187	NO	1992	CHEVROLET	BERETTA	LOW	TBD	C3/C5 FX WITH SPINAL CORD INJURY RESULTING IN QUADRAPLEGIA; C5/C6 EPIDURAL HEMATOMA	DAB
20	CA9619	ACTIVE	Oct-96	Oct-96	MD	26	F	64	160	NO	1996	FORD	WINDSTAR	20	YES	MULTIPLE BILATERAL RIB FXS; MULTIPLE PULMONARY CONTUSIONS; LUNG, ATRIUM AND LIVER LACERATION	DAB; STEERING WHEEL
21	IN9628	UNDER REVIEW	Sep-96	Nov-96	WV	71	M	72	176	MIS-USED - USED SHOULDER BELT ONLY	1994	NISSAN	MAXIMA	14	NO	TRANSECTED AORTIC ARCH	DAB
22	CA9713	AVAILABLE	Mar-97	Mar-97	ME	51	M	68	200	NO	1994	FORD	PROBE	8-10	YES	RIGHT RIB FXS; BLUNT TRAUMA TO CHEST; SUBARACHNOID HEMORRHAGE	DAB
23	IN9712	AVAILABLE	Jun-96	Apr-97	OK	39	F	60	250	NO	1994	FORD	ASPIRE	13	YES	HEMOPNEUMOTHORAX LACERATION OF THE THORACIC AORTA	DAB
24	IN9703	UNDER REVIEW	May-92	Feb-97	KS	74	F	61	117	YES	1991	MERCURY	GRAND MARQUIS	8	NO	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; C2 FX	DAB
25	DS9712	UNDER REVIEW	Nov-96	Jun-97	CA	58	F	63	150	YES	1996	INFINITI	I30	12	NO	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; BILATERAL LUNG CONTUSIONS; STERNUM FX	DAB
26	CA9723	AVAILABLE	Feb-97	Jun-97	NJ	37	F	64	145	YES	1996	FORD	EXPLORER	15	YES	BLUNT TRAUMA TO NECK WITH ASPHYXIA	DAB
27	CA9724	ACTIVE	Jun-97	Jun-97	DE	53	F	64	167	YES	1997	MITSUBISHI	GALANT	LOW	NO	BLUNT TRAUMA TO CHEST; SUBDURAL HEMATOMA	DAB
28	CA9722	AVAILABLE	Jun-91	Jun-97	FL	36	F	66	160	NO	1991	CHEVROLET	CAPRICE	17	YES	MULTIPLE BILATERAL RIB FXS; LACERATED AORTA; MULTIPLE INTERNAL INJURIES	DAB; STEERING WHEEL
29	IN9719	UNDER REVIEW	Jan-97	Jun-97	FL	56	F	64	142	NO	1994	BUICK	CENTURY	12	NO	LACERATED AORTA; MULTIPLE BILATERAL RIB FXS; STERNUM FX	DAB FLAP; DAB; STEERING WHEEL RIM
30	CA9721	UNDER REVIEW	Nov-96	May-97	FL	78	F	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	M	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	DS9715	ACTIVE	Aug-94	Jun-97	WA	58	M	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	IN9707	AVAILABLE	Jan-94	Feb-97	MI	80	M	72	133	NO	1991	FORD	CROWN VICTORIA	8-10	YES	LACERATED ASCENDING AORTA WITH HEMOPERICARDIUM	DAB

34	UM9736	ACTIVE	Apr-97	Jul-97	MI	60	F	63	187	YES	1994	LINCOLN	MARK VIII	20.5	NO	C1/C2 DISLOCATION WITH SPINAL CORD COMPRESSION	DAB
35	DS9719	AVAILABLE	Jul-97	Sep-97	WA	77	F	63	151	YES	1993	CHEVROLET	CORSICA	13	NO	BILATERAL SUBDURAL HEMATOMA; SUBDURAL, SUBARACHNOID, AND SMALL INTRA-VENTRICULAR HEMORRHAGES	DAB
See Note 5	CA9729	UNDER REVIEW	May-97	Sep-97	NC	80	M	73	185	NO	1991	FORD	TAURUS	11	YES	C4/C5 FX/DISLOCATION RESULTING IN QUADRIPLEGIA; RIGHT TEMPORAL HEMORRHAGE	DAB
36	IN9744	ACTIVE	May-97	Nov-97	TX	63	M	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	F	64	120	NO	1992	BUICK	LeSABRE	21	YES	BLUNT FORCE TRAUMA TO THE CHEST RESULTING IN SUDDEN HEART STOPPAGE	DAB FLAP; DAB
38	CA9805	UNDER REVIEW	Jan-98	Feb-98	NJ	71	F	65	150	NO	1993	BUICK	CENTURY	9	YES	MULTIPLE BILATERAL RIB FXS WITH HEMOTHORACES; STERNUM FX; AORTIC AND PERICARDIAL LACERATION	DAB FLAP; DAB
39	IN9818	ACTIVE	Sep-97	Apr-98	TX	56	F	65	119	NO	1988	MERCEDES	190E	13	NO	C2 FX/DISLOCATION WITH SPINAL CORD TRANSACTION; SEVERE CEREBRAL EDEMA	DAB
40	1997-04-146A	UNDER REVIEW	Oct-97	Nov-98	NJ	84	F	UNK	UNK	MIS-USED - USED LAP BELT ONLY	1996	GEO	METRO	19	NO	MULTIPLE RIGHT RIB FXS WITH PNEUMOTHORAX	DAB
41	IN9738	AVAILABLE	Nov-97	Nov-97	MN	17	F	47	80	NO	1992	TOYOTA	CELICA	13	NO	DIFFUSE SUBDURAL & SUBARACHNOID HEMORRHAGES; MINIMAL ATLANTO-OCCIPITAL SEPARATION	DAB
42	IN9722	AVAILABLE	Jun-97	Jul-97	MS	79	F	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	CA9830	AVAILABLE	May-98	May-98	DE	38	F	63	196	NO	1995	MINI	MIRAGE	13	NO	RIGHT VENTRICLE PERFORATION; PULMONARY LACERATION WITH HEMOTHORAX; CLOSED HEAD INJURY	DAB
44	CA9844	UNDER REVIEW	Jul-98	Aug-98	VA	45	M	71	200	NO	1991	DODGE	SPIRIT	18	YES	ATLANTO-OCCIPITAL DISLOCATION WITH COMPLETE TRANSACTION OF THE SPINAL CORD; PONTINE CONTUSIONS; SUB-ARACHNOID HEMORRHAGE INVOLVING CEREBELLUM AND BRAIN STEM	DAB
45	IN9821	ACTIVE	Aug-97	Oct-98	TX	18	F	62	123	YES	1991	FORD	TAURUS	12	YES	SUBARACHNOID HEMORRHAGE; BI-LATERAL ATLANTO-AXIAL DISLOCATIONS; BRAIN STEM CONTUSIONS	DAB
46	CA9850	UNDER REVIEW	Jun-98	Sep-98	CT	62	F	61	125	NO	1995	FORD	ESCORT	14	NO	MULTIPLE ANTERIOR RIB FXS WITH HEMOTHORACES; STERNUM FX	DAB
47	CA9851	ACTIVE	Feb-96	Sep-98	VA	86	M	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	CA9832	AVAILABLE	Jul-97	May-98	PA	88	M	67	180	NO	1997	LINCOLN	CONTINENTAL	7-9	YES	MULTIPLE BILATERAL RIB FXS WITH BILATERAL HEMOTHORAX; STERNUM FX; RIGHT VENTRICLE LACERATION	DAB FLAP
	CA9855	ACTIVE	Oct-98	Oct-98	PA	19	F	62	138	NO	1998	MINI	MIRAGE	10	YES	ABRUPTED PLACENTA WITH FATAL FETUS	DAB FLAP; DAB
49	DS9826	UNDER REVIEW	Jun-98	Sep-98	OR	74	F	65	220	NO	1995	PLYMOUTH	VOYAGER	11	YES	CRUSHING CHEST INJURY WITH MULTIPLE RIB FRACTURES	DAB
50	CA9848	UNDER REVIEW	Aug-98	Sep-98	NC	61	F	60	140	YES	1996	OLDSMOBILE	98	17	NO	BRAINSTEM CONTUSION AND AN ATLANTO-OCCIPITAL DISLOCATION, RIB FRACTURE	DAB
51	1997-72-103A	UNDER REVIEW	Aug-97	Aug-97	IL	62	F	64	146	NO	1996	FORD	TAURUS	19	NO	C-SPINE DISLOCATION	DAB
52	CA9863	UNDER REVIEW	Oct-98	Nov-98	NJ	52	F	62	115	YES	1993	TOYOTA	COROLLA	11	NO	FRACTURE C2/C3 WITH COMPLETE CORD TRANSACTION	DAB
53	IN9813	UNDER REVIEW	Jan-98	Jan-98	IL	26	F	64	130	NO	1995	JEEP	GRAND CHEROKEE	6	NO	ATLANTO-OCCIPITAL DISLOCATION WITH CONTUSION TO THE SPINAL CORD	DAB
54	IN9832	ACTIVE	Dec-98	Dec-98	IL	39	F	66	130	NO	1998	DODGE	CARAVAN	23	NO	MULTIPLE BILATERAL RIB FRACTURES LACERATED LEFT PULMONARY VEIN	DAB
55	DS9821	UNDER REVIEW	Oct-97	Jul-98	CO	80	M	66	140	NO	1991	DODGE	DYNASTY	11	NO	SKULL FRACTURE WITH SUBDURAL HEMORRHAGE; BILATERAL SUBARACHNOID HEMORRHAGE	DAB
	CA9854	UNDER REVIEW	Mar-94	Sep-98	VA	58	F	64	UNK	NO	1990	CHRYSLER	LEBARON	17	NO	C1/C2 FX; SPINAL CORD DAMAGE RESULTING IN QUADRIPLEGIA	DAB
56	CA9912	ACTIVE	Dec-98	May-99	PA	80	F	67	175	NO	1998	BUICK	REGAL	19	NO	RIB FRACTURES, HEART LACERATION	DAB
57	DS9948	ACTIVE	Dec-95	Oct-99	OR	37	F	66	175	YES	1993	JEEP	GRAND CHEROKEE	16	NO	DEVASTATING INFRA- AND SUPRADIAPHRAGMATIC CAVAL INJURIES	DAB
58	CA9949	UNDER REVIEW	Nov-99	Nov-99	NC	79	F	59	117	NO	1991	FORD	TAURUS	13	YES	MULTIPLE BILATERAL RIB FRACTURES WITH PULMONARY CONTUSION	DAB FLAP; DAB
59	IN9976	UNDER REVIEW	Jun-99	Jul-99	IL	19	F	60	115	NO	1991	CHEVROLET	CORSICA	8	NO	FX/CONTUSION/DISLOCATION CERVICAL SPINAL CORD; BRAINSTEM HEMORRHAGE; NONANATOMIC BRAIN INJURY	DAB FLAP; DAB
60	CA00006	AVAILABLE	Feb-00	Feb-00	FL	45	F	62	170	YES	1994	PONTIAC	BONNEVILLE	18	NO	TRANSVERSE BASILAR SKULL FRACTURE, SUB-DURAL HEMORRHAGE, FX SINUSES	DAB
	DS9802	ACTIVE	Dec-97	Jan-98	WA	86	M	70	160	NO	1994	FORD	TAURUS	19	NO	BLUNT IMPACT TO THE HEAD AND CHEST	DAB
61	CA00012	AVAILABLE	Jan-00	May-00	MA	24	F	62	110	NO	1994	GEO	PRIZM	11	YES	HINGE FRACTURE AT BASE OF SKULL	DAB
62	CA00015	AVAILABLE	Mar-00	May-00	NC	57	F	64	116	NO	1992	BUICK	ROADMASTER	18	NO	BASILAR SKULL FX	DAB
63	IN00002	ACTIVE	Feb-00	Apr-00	WV	16	F	63	102	NO	1990	PLYMOUTH	SUNDANCE	7	NO	CERVICAL FRACTURE	DAB
64	DS9813	UNDER REVIEW	Jun-97	Apr-98	TX	52	F	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	CA9871	UNDER REVIEW	Apr-98	Dec-98	FL	79	F	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	DS9947	UNDER REVIEW	Sep-99	Sep-99	CO	64	F	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	IN01001	ACTIVE	Nov-98	Jan-01	TX	84	F	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	CA9735	ACTIVE	Oct-97	Oct-97	NH	61	F	64	177	NO	1994	CHEVROLET	CORSICA	15	UNK	BASILAR SKULL FRACTURE ATLANTO-OCCIPITAL AND ATLANTO AXIAL DISTRACTION; SUBARACHNOID AND SUBDURAL BRAIN HEMORRHAGES	DAB

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:

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.

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