

APPENDIX B– FARS FIRE DATA 1979 to 2007 BY DAMAGE AREA

Table B1. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for All Damage Areas (FARS 1978-2007).

Crash Year	All Fatafs	All Fires	MHE Fires
1979	33,442	1,575	640
1980	33,504	1,457	717
1981	32,243	1,512	659
1982	28,370	1,338	566
1983	27,956	1,225	457
1984	28,829	1,287	437
1985	28,685	1,216	360
1986	30,694	1,567	572
1987	31,735	1,455	539
1988	32,523	1,591	575
1989	32,203	1,411	463
1990	31,270	1,423	466
1991	29,358	1,418	466
1992	28,177	1,308	391
1993	28,744	1,333	404
1994	29,518	1,383	388
1995	30,563	1,428	440
1996	31,142	1,296	386
1997	31,111	1,337	381
1998	30,484	1,415	284
1999	30,694	1,433	296
2000	30,716	1,509	366
2001	30,589	1,454	356
2002	31,118	1,480	407
2003	30,882	1,389	427
2004	30,523	1,343	493
2005	30,074	1,475	583
2006	29,214	1,472	527
2007	27,694	1,378	534

Note: MHE indicates the Most Harmful Event for the crashed vehicle as coded in the FARS file. One can not assume that the most harmful event for a vehicle was the cause of any death or injury for any specific individual within the vehicle.

Table B2. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for Rollover Crashes (FARS 1978-2007).

Crash Year	All FataIs	No Roll	Rollovers	All Fires	Fire & Rollover	MHE All Fires	MHE Rollover with Fires
1979	35,017	25,351	9,666	1,575	442	640	187
1980	34,961	24,721	10,240	1,457	412	717	205
1981	33,755	23,955	9,800	1,512	439	659	210
1982	29,708	21,410	8,298	1,338	363	566	155
1983	29,181	20,962	8,219	1,225	311	457	114
1984	30,116	21,619	8,497	1,287	351	437	133
1985	29,901	21,617	8,284	1,216	305	360	113
1986	32,261	22,787	9,474	1,567	440	572	167
1987	33,190	23,389	9,801	1,455	387	539	154
1988	34,114	23,976	10,138	1,591	423	575	173
1989	33,614	23,925	9,689	1,411	356	463	129
1990	32,693	23,074	9,619	1,423	362	466	125
1991	30,776	21,518	9,258	1,418	357	466	112
1992	29,485	20,849	8,636	1,308	341	391	113
1993	30,077	21,516	8,561	1,333	318	404	105
1994	30,901	21,920	8,981	1,383	345	388	118
1995	31,991	22,454	9,537	1,428	368	440	134
1996	32,438	22,814	9,624	1,296	338	386	87
1997	32,448	22,921	9,527	1,337	324	381	97
1998	31,899	22,126	9,773	1,415	358	284	77
1999	32,127	21,987	10,140	1,433	384	296	83
2000	32,225	22,266	9,959	1,509	379	366	85
2001	32,043	21,886	10,157	1,454	391	356	79
2002	32,598	21,932	10,666	1,480	384	407	92
2003	32,271	21,829	10,442	1,389	414	427	105
2004	31,866	21,276	10,590	1,343	357	493	113
2005	31,549	20,679	10,870	1,475	406	583	155
2006	30,686	19,944	10,742	1,472	404	527	112
2007	29,072	18,832	10,240	1,378	394	534	151

Table B3. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for Planar Only, Frontal Crashes (FARS 1978-2007).

Crash Year	All Fatal	No Frontals	Frontals	All Fires	Fire & Frontals	MHE All Fires	MHE Frontals with Fires
1979	35,017	19,770	15,247	1,575	679	640	242
1980	34,961	19,972	14,989	1,457	644	717	307
1981	33,755	20,066	13,689	1,512	608	659	235
1982	29,708	17,636	12,072	1,338	575	566	247
1983	29,181	17,702	11,479	1,225	517	457	184
1984	30,116	18,454	11,662	1,287	523	437	193
1985	29,901	17,494	12,407	1,216	572	360	157
1986	32,261	19,564	12,697	1,567	656	572	239
1987	33,190	20,034	13,156	1,455	617	539	246
1988	34,114	20,606	13,508	1,591	701	575	225
1989	33,614	20,080	13,534	1,411	662	463	197
1990	32,693	19,601	13,092	1,423	678	466	194
1991	30,776	18,617	12,159	1,418	658	466	207
1992	29,485	17,646	11,839	1,308	635	391	178
1993	30,077	17,632	12,445	1,333	675	404	173
1994	30,901	18,390	12,511	1,383	664	388	144
1995	31,991	19,223	12,768	1,428	691	440	169
1996	32,438	19,420	13,018	1,296	634	386	186
1997	32,448	19,329	13,119	1,337	665	381	165
1998	31,899	19,239	12,660	1,415	726	284	140
1999	32,127	19,923	12,204	1,433	675	296	138
2000	32,225	19,768	12,457	1,509	791	366	180
2001	32,043	19,730	12,313	1,454	712	356	163
2002	32,598	20,289	12,309	1,480	760	407	221
2003	32,271	20,057	12,214	1,389	650	427	217
2004	31,866	20,061	11,805	1,343	662	493	241
2005	31,549	19,950	11,599	1,475	723	583	275
2006	30,686	19,350	11,336	1,472	724	527	274
2007	29,072	18,285	10,787	1,378	651	534	244

Table B4. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for Planar Only, Rear Crashes (FARS 1978-2007).

Crash Year	All Fatal	No Rears	Rears	All Fires	Fire & Rears	MHE All Fires	MHE Rears with Fires
1979	35,017	34,225	792	1,575	156	640	75
1980	34,961	34,193	768	1,457	126	717	71
1981	33,755	32,926	829	1,512	142	659	82
1982	29,708	29,041	667	1,338	89	566	62
1983	29,181	28,480	701	1,225	93	457	57
1984	30,116	29,416	700	1,287	105	437	38
1985	29,901	29,052	849	1,216	93	360	29
1986	32,261	31,331	930	1,567	142	572	66
1987	33,190	32,166	1,024	1,455	140	539	55
1988	34,114	33,066	1,048	1,591	136	575	59
1989	33,614	32,714	900	1,411	96	463	47
1990	32,693	31,836	857	1,423	100	466	65
1991	30,776	30,017	759	1,418	97	466	55
1992	29,485	28,728	757	1,308	82	391	46
1993	30,077	29,240	837	1,333	84	404	44
1994	30,901	30,013	888	1,383	118	388	49
1995	31,991	31,145	846	1,428	77	440	50
1996	32,438	31,492	946	1,296	81	386	39
1997	32,448	31,479	969	1,337	91	381	36
1998	31,899	30,923	976	1,415	96	284	21
1999	32,127	31,119	1,008	1,433	102	296	28
2000	32,225	31,185	1,040	1,509	91	366	45
2001	32,043	30,937	1,106	1,454	128	356	59
2002	32,598	31,512	1,086	1,480	83	407	35
2003	32,271	31,200	1,071	1,389	105	427	40
2004	31,866	30,904	962	1,343	89	493	47
2005	31,549	30,591	958	1,475	108	583	61
2006	30,686	29,776	910	1,472	90	527	44
2007	29,072	28,146	926	1,378	81	534	44

Table B5. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for Planar Only, Right Damage Crashes (FARS 1978-2007).

Crash Year	All Fatal	Non-Right Damage	Right Damage	All Fires	Fire & Right Damage	MHE All Fires	MHE Right Damage with Fires
1979	35,017	31,072	3,945	1,575	120	640	55
1980	34,961	31,104	3,857	1,457	117	717	58
1981	33,755	30,016	3,739	1,512	131	659	49
1982	29,708	26,212	3,496	1,338	125	566	47
1983	29,181	25,766	3,415	1,225	109	457	26
1984	30,116	26,303	3,813	1,287	128	437	28
1985	29,901	26,044	3,857	1,216	114	360	26
1986	32,261	28,299	3,962	1,567	144	572	42
1987	33,190	29,255	3,935	1,455	132	539	33
1988	34,114	29,873	4,241	1,591	151	575	48
1989	33,614	29,371	4,243	1,411	133	463	29
1990	32,693	28,653	4,040	1,423	136	466	33
1991	30,776	27,000	3,776	1,418	128	466	30
1992	29,485	25,786	3,699	1,308	117	391	18
1993	30,077	26,418	3,659	1,333	96	404	30
1994	30,901	27,130	3,771	1,383	120	388	27
1995	31,991	28,126	3,865	1,428	148	440	39
1996	32,438	28,468	3,970	1,296	100	386	21
1997	32,448	28,528	3,920	1,337	113	381	30
1998	31,899	28,230	3,669	1,415	99	284	16
1999	32,127	28,493	3,634	1,433	108	296	13
2000	32,225	28,423	3,802	1,509	114	366	23
2001	32,043	28,369	3,674	1,454	95	356	17
2002	32,598	28,974	3,624	1,480	113	407	28
2003	32,271	28,520	3,751	1,389	92	427	25
2004	31,866	28,176	3,690	1,343	117	493	50
2005	31,549	28,102	3,447	1,475	96	583	36
2006	30,686	27,479	3,207	1,472	101	527	29
2007	29,072	26,032	3,040	1,378	106	534	42

Table B6. Passenger Vehicle Fatal Occupant Counts- Fire Occurrence for Planar Only, Left Damage Crashes (FARS 1978-2007).

Crash Year	All Fatal	Non-Left Damage	Left Damage	All Fires	Fire & Left Damage	MHE All Fires	MHE Left Damage with Fires
1979	35,017	31,014	4,003	1,575	107	640	42
1980	34,961	31,123	3,838	1,457	109	717	44
1981	33,755	30,210	3,545	1,512	84	659	42
1982	29,708	26,470	3,238	1,338	67	566	19
1983	29,181	25,906	3,275	1,225	104	457	43
1984	30,116	26,582	3,534	1,287	97	437	24
1985	29,901	26,389	3,512	1,216	91	360	19
1986	32,261	28,424	3,837	1,567	105	572	22
1987	33,190	29,219	3,971	1,455	103	539	27
1988	34,114	29,950	4,164	1,591	115	575	31
1989	33,614	29,330	4,284	1,411	112	463	37
1990	32,693	28,514	4,179	1,423	100	466	25
1991	30,776	26,801	3,975	1,418	134	466	36
1992	29,485	25,701	3,784	1,308	92	391	21
1993	30,077	26,298	3,779	1,333	105	404	27
1994	30,901	26,885	4,016	1,383	97	388	29
1995	31,991	27,687	4,304	1,428	105	440	23
1996	32,438	28,231	4,207	1,296	102	386	33
1997	32,448	28,204	4,244	1,337	104	381	24
1998	31,899	27,735	4,164	1,415	95	284	17
1999	32,127	27,704	4,423	1,433	133	296	26
2000	32,225	27,959	4,266	1,509	90	366	17
2001	32,043	27,900	4,143	1,454	96	356	22
2002	32,598	28,307	4,291	1,480	90	407	15
2003	32,271	28,002	4,269	1,389	96	427	25
2004	31,866	27,628	4,238	1,343	89	493	24
2005	31,549	27,600	3,949	1,475	88	583	26
2006	30,686	26,928	3,758	1,472	103	527	35
2007	29,072	25,631	3,441	1,378	109	534	35

Table B7. Passenger Vehicle Fatal Occupant Counts- Fire Crashes with No Rollover by Principle Impact Point (FARS 1978-2007).

Crash Year	Non-Collision	Front	Right	Rear	Left	Top	Undercarriage	Unknown
1979	15	677	120	156	107	22	7	27
1980	12	642	117	126	109	9	3	25
1981	27	608	131	142	84	11	7	63
1982	15	575	125	89	67	16	10	59
1983	10	517	109	93	104	15	15	51
1984	17	523	128	105	97	12	6	48
1985	8	572	114	93	91	17	3	13
1986	30	656	144	142	105	20	7	23
1987	27	617	132	140	103	12	5	32
1988	14	701	151	136	115	12	18	21
1989	5	662	133	96	112	15	1	31
1990	4	678	136	100	100	12	5	26
1991	9	658	128	97	134	8	6	21
1992	6	635	117	82	92	.	6	29
1993	14	675	96	84	105	6	4	31
1994	9	664	120	118	97	5	13	12
1995	6	691	148	77	105	4	9	20
1996	6	634	100	81	102	10	3	22
1997	17	665	113	91	104	6	7	10
1998	4	726	99	96	95	11	7	19
1999	1	675	108	102	133	8	3	19
2000	9	791	114	91	90	5	10	20
2001	8	712	95	128	96	5	5	14
2002	7	760	113	83	90	7	6	30
2003	7	650	92	105	96	2	6	17
2004	3	662	117	89	89	10	3	13
2005	2	723	96	108	88	15	2	35
2006	6	724	101	90	103	15	8	21
2007	2	651	106	81	109	12	6	17

Table B8. Passenger Vehicle Fatal Occupant Counts- Rollover Fire Crashes by Principle Impact Point (FARS 1978-2007).

Crash Year	Non-Collision	Front	Right	Rear	Left	Top	Undercarriage	Unknown
1979	41	120	30	24	42	165	3	17
1980	70	139	29	16	35	107	5	11
1981	84	179	20	18	33	85	8	12
1982	61	148	24	29	18	70	4	9
1983	50	140	19	10	22	42	4	24
1984	48	164	32	19	37	35	3	13
1985	57	130	29	15	19	39	10	6
1986	78	214	28	19	27	60	8	6
1987	72	160	38	26	11	45	14	21
1988	78	183	35	21	31	54	9	12
1989	53	185	29	14	20	26	9	20
1990	55	188	27	14	35	19	10	14
1991	49	194	37	17	12	32	4	12
1992	41	200	17	9	37	25	8	4
1993	38	181	16	9	30	19	14	11
1994	37	184	40	14	21	25	6	18
1995	35	210	27	26	29	14	8	19
1996	30	192	49	19	18	17	4	9
1997	39	171	29	16	18	26	9	16
1998	47	181	34	16	28	29	9	14
1999	44	201	30	18	23	39	5	24
2000	55	188	22	21	35	29	8	21
2001	64	189	34	17	37	23	7	20
2002	69	189	32	19	31	16	10	18
2003	61	209	42	21	41	20	4	16
2004	40	185	39	16	30	26	4	17
2005	32	207	37	19	38	44	9	20
2006	60	185	47	16	24	50	5	17
2007	26	206	27	23	26	52	6	28