

## 2010 Restraint Use for Reported Occupants of Motor Vehicles

FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS

2010	Restraint Use and Injury Experience for Reported Occupants of Motor Vehicles*								% Injury by Restraint Use Type		
	Total	Fatalities	A-Injuries	B-Injuries	C-Injuries	All (ABC) Injuries	No-Injuries	Not Coded	% Total	% Fatalities + A-Injuries	% All (ABC) Injuries
No belts available	2,982	13	127	235	451	813	2,125	31	0.5%	2.3%	1.2%
Shoulder only use	796	2	13	32	71	116	672	6	0.1%	0.2%	0.2%
Lap only used	2,165	7	29	116	293	438	1,713	7	0.4%	0.6%	0.7%
Both lap & shoulder used	441,153	306	3,325	11,712	40,424	55,461	384,107	1,279	81.2%	58.7%	82.7%
No belts used	5,298	205	660	1,020	1,053	2,733	2,241	119	1.0%	14.0%	4.1%
Child restraint used	5,437	6	45	234	848	1,127	4,300	4	1.0%	0.8%	1.7%
Child restraint not used	287	2	12	43	56	111	167	7	0.1%	0.2%	0.2%
Restraint failure	105	1	4	7	8	19	79	6	0.0%	0.1%	0.0%
Restraint use unknown	27,302	72	400	760	1,453	2,613	11,977	12,640	5.0%	7.6%	3.9%
Helmet worn	3,629	134	654	1,152	857	2,663	819	13	0.7%	12.7%	4.0%
Helmet not worn	326	16	76	128	56	260	47	3	0.1%	1.5%	0.4%
Helmet use unknown	123	11	7	13	12	32	69	11	0.0%	0.3%	0.0%
Not coded	53,795	2	61	208	386	655	19,143	33,995	9.9%	1.0%	1.0%
<b>Total</b>	<b>543,398</b>	<b>777</b>	<b>5,413</b>	<b>15,660</b>	<b>45,968</b>	<b>67,041</b>	<b>427,459</b>	<b>48,121</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

### Occupants of Motor Vehicles Only

*\* Uninjured occupants are often not reported on the UD-10. In 2010 there were 601,865 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 547,767 person records in the crash file.*

## 1998-2010 Injury Experience for Vehicle Occupants Not Using Restraints

FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS

Year	Reported Vehicle Occupants NOT Using Restraints*				% of Unrestrained Vehicle Occupants			
	Unrestrained Vehicle Occupants	Fatalities	A-Injuries	All (ABC) Injuries	% Fatalities	% A-Injuries	% Fatalities + A-Injuries	% All (ABC) Injuries
1998	29,905	534	3,723	17,076	1.8%	12.4%	14.2%	57.1%
1999	26,161	546	3,242	14,883	2.1%	12.4%	14.5%	56.9%
2000	17,822	444	2,453	10,483	2.5%	13.8%	16.3%	58.8%
2001	15,563	434	2,147	9,152	2.8%	13.8%	16.6%	58.8%
2002	13,841	362	2,039	8,317	2.6%	14.7%	17.3%	60.1%
2003	11,835	378	1,688	7,251	3.2%	14.3%	17.5%	61.3%
2004	11,374	328	1,549	6,248	2.9%	13.6%	16.5%	54.9%
2005	10,146	284	1,354	5,495	2.8%	13.3%	16.1%	54.2%
2006	8,748	274	1,202	4,803	3.1%	13.7%	16.9%	54.9%
2007	8,383	278	1,114	4,434	3.3%	13.3%	16.6%	52.9%
2008	8,128	276	1,007	4,141	3.4%	12.4%	15.8%	50.9%
2009	8,494	228	983	3,925	2.7%	11.6%	14.3%	46.2%
2010	8,893	236	875	3,917	2.7%	9.8%	12.5%	44.0%

**Unrestrained Occupants defined as a crash with "restraint use" coded 1,5,7,11**

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## 1998-2010 Children Ages 0 thru 8 Using Child Restraints in Crashes

FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS

Year	Total Reported *		Fatalities		A-Injuries		All (ABC) Injuries		Uninjured		Injury Unknown	
	Used	Not Used	Used	Not Used	Used	Not Used	Used	Not Used	Used	Not Used	Used	Not Used
1998	752	80	6	1	39	15	746	79	0	0	0	0
1999	841	89	8	1	37	12	832	88	1	0	0	0
2000	924	84	4	2	50	14	920	81	0	1	0	0
2001	849	94	4	0	46	12	845	91	0	3	0	0
2002	949	84	8	1	51	12	941	82	0	1	0	0
2003	819	110	8	5	43	25	811	104	0	1	0	0
2004	881	77	6	3	39	16	863	74	12	0	0	0
2005	862	78	4	2	40	17	850	76	8	0	0	0
2006	827	49	5	1	29	9	760	47	60	1	2	0
2007	907	68	2	3	37	7	749	64	153	1	3	0
2008	1,264	71	5	2	39	11	739	58	518	11	2	0
2009	2,792	106	4	1	48	13	940	74	1,848	31	0	0
2010	5,179	173	5	2	40	11	1,055	89	4,115	82	4	0

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## 2010 Restraint Use and Degree of Injury for Children Ages 0 thru 8 Years Old

FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS

2010	Restraint Use and Degree of Injury for Children Ages 0 thru 8								% Injury by Restraint Use Type		
	Total Reported*	Fatalities	A-Injuries	B-Injuries	C-Injuries	No Injuries	Not Coded	All (ABC) Injuries	% Total	% Fatalities + A-Injuries	% All (ABC) Injuries
No belts available	153	0	2	8	27	116	0	37	1.9%	1.7%	1.9%
Shoulder only use	14	0	0	0	1	13	0	1	0.2%	0.0%	0.1%
Lap only used	213	3	1	16	47	146	0	64	2.6%	3.5%	3.3%
Both lap & shoulder used	2,034	0	32	128	419	1,455	0	579	25.1%	27.8%	29.6%
No belts used	88	0	10	23	17	38	0	50	1.1%	8.7%	2.6%
Child restraint used	5,179	5	40	222	793	4,115	4	1,055	63.9%	39.1%	53.9%
Child restraint not used	173	2	11	37	41	82	0	89	2.1%	11.3%	4.5%
Restraint failure	12	1	2	1	1	7	0	4	0.1%	2.6%	0.2%
Restraint use unknown	190	0	1	12	29	148	0	42	2.3%	0.9%	2.1%
Helmet worn	10	1	2	4	1	2	0	7	0.1%	2.6%	0.4%
Helmet not worn	2	1	0	0	0	1	0	0	0.0%	0.9%	0.0%
Helmet use unknown	0	0	0	0	0	0	0	0	0.0%	0.0%	0.0%
Not coded	38	0	1	8	21	5	3	30	0.5%	0.9%	1.5%
<b>Total</b>	<b>8,106</b>	<b>13</b>	<b>102</b>	<b>459</b>	<b>1,397</b>	<b>6,128</b>	<b>7</b>	<b>1,958</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

### Occupants of Motor Vehicles Only

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## 1998-2010 Reported Injured Occupants with Airbag Deployments\*

FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS

Year	Airbag Deployments						% by Airbag Deployment			
	Total Airbag Deployments	Fatalities	A-Injuries	B-Injuries	C-Injuries	All (ABC) Injuries	% Fatalities	% A-Injuries	% Fatalities + A-Injuries	% All (ABC) Injuries
1998	32,953	212	2,239	5,687	9,530	17,456	0.6%	6.8%	7.4%	53.0%
1999	36,136	235	2,311	5,895	10,448	18,654	0.7%	6.4%	7.0%	51.6%
2000	41,228	282	2,459	6,443	11,471	20,373	0.7%	6.0%	6.6%	49.4%
2001	41,129	295	2,332	6,348	11,908	20,588	0.7%	5.7%	6.4%	50.1%
2002	44,302	314	2,570	6,806	12,604	21,980	0.7%	5.8%	6.5%	49.6%
2003	47,554	355	2,755	7,175	13,280	23,210	0.7%	5.8%	6.5%	48.8%
2004	48,372	328	2,599	6,768	13,045	22,412	0.7%	5.4%	6.1%	46.3%
2005	47,786	334	2,415	6,554	12,834	21,803	0.7%	5.1%	5.8%	45.6%
2006	44,954	339	2,393	5,961	12,111	20,465	0.8%	5.3%	6.1%	45.5%
2007	45,940	344	2,364	6,039	12,380	20,783	0.7%	5.1%	5.9%	45.2%
2008	43,097	318	2,083	5,492	11,584	19,159	0.7%	4.8%	5.6%	44.5%
2009	42,451	273	2,193	5,477	11,358	19,028	0.6%	5.1%	5.7%	44.8%
2010	43,250	293	2,079	5,632	11,465	19,176	0.7%	4.8%	5.5%	44.3%

*Defined as "airbag deployed" coded 1 airbag deployed for this seating position*

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## 2010 Airbag Deployments for Reported Occupants of Motor Vehicles\*

*FROM MICHIGAN TRAFFIC CRASH FACTS DATASETS*

2010	Airbag Deployment								% by Airbag Deployment		
	Total	Fatalities	A-Injuries	B-Injuries	C-Injuries	All (ABC) Injuries	No-Injuries	Not Coded	%Total	% Fatalities + A-Injuries	% All (ABC) Injuries
Not coded	39,713	28	255	647	1,753	2,655	10,211	26,819	7.3%	4.6%	4.0%
Deployed	43,250	293	2,079	5,632	11,465	19,176	23,210	571	8.0%	38.3%	28.6%
Not deployed	394,444	186	1,553	5,793	26,103	33,449	353,407	7,402	72.6%	28.1%	49.9%
Not equipped	65,991	270	1,526	3,588	6,647	11,761	40,631	13,329	12.1%	29.0%	17.5%
<b>Total</b>	<b>543,398</b>	<b>777</b>	<b>5,413</b>	<b>15,660</b>	<b>45,968</b>	<b>67,041</b>	<b>427,459</b>	<b>48,121</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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*Defined as "airbag deployed" coded 1 - airbag deployed for this seating position*

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