

2016 RESTRAINT USE FOR REPORTED OCCUPANTS OF MOTOR VEHICLES

2016	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 and A Injuries	% All (ABC) Injuries
No belts available	2,663	11	59	126	303	488	2,140	24	0.4%	1.2%	0.6%
Shoulder only used	2,797	4	41	87	304	432	2,356	5	0.4%	0.8%	0.6%
Lap only used	2,654	2	25	89	325	439	2,200	13	0.4%	0.5%	0.6%
Both lap & shoulder used	530,464	357	3,125	14,435	46,769	64,329	464,996	782	84.2%	58.3%	84.3%
No belts used	5,630	195	570	906	988	2,464	2,928	43	0.9%	12.8%	3.2%
Child restraint used - forward facing	9,203	2	38	224	886	1,148	7,996	57	1.5%	0.7%	1.5%
Child restraint not used	295	1	9	26	61	96	196	2	0.0%	0.2%	0.1%
Child restraint used - rear facing	1,545	0	2	15	117	134	1,399	12	0.2%	0.0%	0.2%
Child restraint used - booster seat	1,472	0	13	42	156	211	1,248	13	0.2%	0.2%	0.3%
Restraint failure	256	1	4	8	21	33	222	0	0.0%	0.1%	0.0%
Restraint use unknown	54,053	113	367	833	2,014	3,214	17,098	33,628	8.6%	8.0%	4.2%
Helmet worn	2,637	75	441	907	614	1,962	592	8	0.4%	8.6%	2.6%
Helmet not worn	1,743	88	376	511	288	1,175	430	50	0.3%	7.8%	1.5%
Helmet use unknown	318	12	37	67	68	172	118	16	0.1%	0.8%	0.2%
Uncoded & errors	14,649	0	6	11	31	48	1,076	13,525	2.3%	0.1%	0.1%
Total	630,379	861	5,113	18,287	52,945	76,345	504,995	48,178	100.0%	100.0%	100.0%

*Uninjured occupants are often not reported on the UD-10. In 2016, there were 633,476 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 630,379 person records in the crash file.

Note: Additional child restraint values were added beginning with 2016 data.

INJURY EXPERIENCE FOR VEHICLE OCCUPANTS NOT USING RESTRAINTS

YEAR	REPORTED VEHICLE OCCUPANTS NOT USING RESTRAINTS*				% OF UNRESTRAINED VEHICLE OCCUPANTS			
	Unrestrained Vehicle Occupants	Fatalities	A Injuries	All (ABC) Injuries	% Fatalities	% A Injuries	% Fatalities and A Injuries	% All (ABC) Injuries
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%
2011	9,867	215	811	3,781	2.2%	8.2%	10.4%	38.3%
2012	10,856	300	936	4,367	2.8%	8.6%	11.4%	40.2%
2013	10,282	268	892	4,145	2.6%	8.7%	11.3%	40.3%
2014	10,668	253	809	3,919	2.4%	7.6%	10.0%	36.7%
2015	11,148	272	897	4,185	2.4%	8.0%	10.5%	37.5%
2016	10,331	295	1,014	4,223	2.9%	9.8%	12.7%	40.9%

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CHILDREN AGES 0-8 USING CHILD RESTRAINTS IN CRASHES

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
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
2011	6,585	153	3	1	36	14	1,133	72	5,447	80	2	0
2012	7,505	194	7	2	28	13	1,046	61	6,452	131	0	0
2013	8,262	201	4	0	39	4	1,086	65	7,172	136	0	0
2014	9,152	259	3	0	37	8	1,093	65	8,059	185	0	0
2015	10,349	329	4	1	29	5	1,160	82	9,189	247	3	0
2016	11,619	233	2	1	51	9	1,413	87	10,140	145	64	0

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2016 RESTRAINT USE AND DEGREE OF INJURY FOR CHILDREN AGES 0-8 YEARS OLD

2016	RESTRAINT USE AND DEGREE OF INJURY FOR CHILDREN AGES 0-8*								% INJURY BY RESTRAINT USE TYPE		
	Total Reported	Fatalities	A Injuries	B Injuries	C Injuries	All (ABC) Injuries	No Injuries	Not Coded	% Total	% Fatalities and A Injuries	% All (ABC) Injuries
No belts available	308	1	0	0	23	283	1	23	1.8%	0.9%	1.0%
Shoulder only used	60	0	0	5	9	46	0	14	0.3%	0.0%	0.6%
Lap only used	208	0	1	8	23	175	1	32	1.2%	0.9%	1.3%
Both lap & shoulder used	3,971	2	26	135	471	3,311	26	632	22.9%	24.3%	26.3%
No belts used	209	0	8	19	53	129	0	80	1.2%	7.0%	3.3%
Child restraint used - forward facing	8,772	2	36	211	848	7,630	45	1,095	50.6%	33.0%	45.5%
Child restraint not used	233	1	9	23	55	145	0	87	1.3%	8.7%	3.6%
Child restraint used - rear facing	1,509	0	2	12	111	1,377	7	125	8.7%	1.7%	5.2%
Child restraint used - booster seat	1,338	0	13	37	143	1,133	12	193	7.7%	11.3%	8.0%
Restraint failure	80	0	2	0	3	75	0	5	0.5%	1.7%	0.2%
Restraint use unknown	630	2	7	21	76	522	2	104	3.6%	7.8%	4.3%
Helmet worn	7	0	0	1	3	3	0	4	0.0%	0.0%	0.2%
Helmet not worn	14	0	3	4	2	5	0	9	0.1%	2.6%	0.4%
Helmet use unknown	1	0	0	1	0	0	0	1	0.0%	0.0%	0.0%
Uncoded & errors	9	0	0	0	2	2	5	2	0.1%	0.0%	0.1%
Total	17,349	8	107	477	1,822	14,836	99	2,406	100.0%	100.0%	100.0%

*Uninjured occupants are often not reported on the UD-10. In 2016, there were 663,476 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 630,379 person records in the crash file.

Note: Additional child restraint values were added beginning with 2016 data.

REPORTED INJURED OCCUPANTS WITH AIRBAG DEPLOYMENTS

YEAR	AIRBAG DEPLOYMENTS*						% BY AIRBAG DEPLOYMENT			
	Total Airbag Deployments	Fatalities	A Injuries	B Injuries	C Injuries	All (ABC) Injuries	% Fatalities	% A Injuries	% Fatalities and A Injuries	% All (ABC) Injuries
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%	5.2%	5.8%	44.8%
2010	43,250	293	2,079	5,632	11,465	19,176	0.7%	4.8%	5.5%	44.3%
2011	45,511	313	1,998	5,817	12,141	19,956	0.7%	4.4%	5.1%	43.8%
2012	48,015	336	2,108	6,037	12,410	20,555	0.7%	4.4%	5.1%	42.8%
2013	50,385	356	1,968	6,309	13,089	21,366	0.7%	3.9%	4.6%	42.4%
2014	52,277	338	1,931	6,231	13,759	21,921	0.6%	3.7%	4.3%	41.9%
2015	57,551	365	1,994	6,804	15,646	24,444	0.6%	3.5%	4.1%	42.5%
2016	66,801	380	2,490	8,543	17,374	28,407	0.6%	3.7%	4.3%	42.5%

*Uninjured occupants are often not reported on the UD-10. In 2016, there were 663,476 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 630,379 person records in the crash file.

2016 AIRBAG DEPLOYMENTS FOR REPORTED OCCUPANTS OF MOTOR VEHICLES

2016	AIRBAG DEPLOYMENT*								% BY AIRBAG DEPLOYMENT		
	Total	Fatalities	A Injuries	B Injuries	C Injuries	All (ABC) Injuries	No Injuries	Not Coded	% Total	% Fatalities and A Injuries	% All (ABC) Injuries
Deployed - front	55,332	292	1,941	6,969	14,316	23,226	31,616	198	8.8%	37.4%	30.4%
Not deployed	459,994	193	1,364	6,700	29,916	37,980	420,306	1,515	73.0%	26.1%	49.7%
Not equipped	63,103	244	1,163	2,857	5,156	9,176	42,103	11,580	10.0%	23.6%	12.0%
Deployed - side	2,459	11	67	201	542	810	1,634	4	0.4%	1.3%	1.1%
Deployed - curtain	1,610	8	41	161	362	564	1,036	2	0.3%	0.8%	0.7%
Deployed - other	205	0	1	18	50	69	136	0	0.0%	0.0%	0.1%
Deployed - combination	7,195	69	440	1,194	2,104	3,738	3,385	3	1.1%	8.5%	4.9%
Unknown	28,441	44	83	174	455	712	3,972	23,713	4.5%	2.1%	0.9%
Uncoded & errors	12,040	0	13	13	44	70	807	11,163	1.9%	0.2%	0.1%
Total	630,379	861	5,113	18,287	52,945	76,345	504,995	48,178	100.0%	100.0%	100.0%

*Uninjured occupants are often not reported on the UD-10. In 2016, there were 631,369 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 597,546 person records in the crash file.

Note: Airbag deployment is defined as airbag deployed for this seating position.
Additional airbag deployment values were added beginning with 2016 data.