

## 2019 RESTRAINT USE FOR REPORTED OCCUPANTS OF MOTOR VEHICLES

2019	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	2,644	6	31	78	291	400	2,237	1	0.4%	0.6%	0.6%
Shoulder only used	2,948	5	31	86	351	468	2,474	1	0.5%	0.6%	0.7%
Lap only used	1,723	3	28	61	184	273	1,446	1	0.3%	0.5%	0.4%
Both lap & shoulder used	524,759	332	2,998	14,787	42,260	60,045	464,351	31	83.2%	57.1%	83.5%
No belts used	4,756	211	535	821	872	2,228	2,310	7	0.8%	12.8%	3.1%
Child restraint used - forward facing	6,818	3	17	140	588	745	6,068	2	1.1%	0.3%	1.0%
Child restraint not used	152	3	5	18	33	56	93	0	0.0%	0.1%	0.1%
Child restraint used - rear facing	3,043	2	3	21	240	264	2,776	1	0.5%	0.1%	0.4%
Child restraint used - booster seat	2,654	2	15	77	307	399	2,253	0	0.4%	0.3%	0.6%
Restraint failure	177	1	3	11	13	27	149	0	0.0%	0.1%	0.0%
Restraint use unknown	70,623	99	481	1,044	2,698	4,223	23,068	43,233	11.2%	9.9%	5.9%
Helmet worn	2,226	65	454	731	430	1,615	546	0	0.4%	8.9%	2.2%
Helmet not worn	1,392	69	385	435	230	1,050	273	0	0.2%	7.8%	1.5%
Helmet use unknown	222	14	35	59	30	124	84	0	0.0%	0.8%	0.2%
Uncoded & errors	6,513	0	0	1	6	7	44	6,462	1.0%	0.0%	0.0%
<b>Total</b>	<b>630,650</b>	<b>815</b>	<b>5,021</b>	<b>18,370</b>	<b>48,533</b>	<b>71,924</b>	<b>508,172</b>	<b>49,739</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

\*Uninjured occupants are often not reported on the UD-10. In 2019, there were 648,276 persons involved in crashes based on the officer coded "number of occupants in vehicle", but only 630,650 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
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%
2017	8,882	283	1,004	3,851	3.2%	11.3%	14.5%	43.4%
2018	8,358	252	906	3,618	3.0%	10.8%	13.9%	43.3%
2019	8,944	289	956	3,734	3.2%	10.7%	13.9%	41.7%

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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
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
2017	11,548	172	7	2	39	5	1,373	57	10,153	110	15	3
2018	11,368	203	5	0	26	12	1,188	64	10,161	139	14	0
2019	12,038	136	7	3	34	5	1,344	54	10,685	79	2	0

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## 2019 RESTRAINT USE AND DEGREE OF INJURY FOR CHILDREN AGES 0-8 YEARS OLD

2019	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	415	0	0	2	21	392	0	23	2.3%	0.0%	1.0%
Shoulder only used	82	0	0	1	14	67	0	15	0.5%	0.0%	0.7%
Lap only used	156	1	1	3	15	136	0	19	0.9%	2.3%	0.9%
Both lap & shoulder used	4,047	2	16	123	450	3,454	2	589	22.7%	20.5%	26.7%
No belts used	159	1	7	21	32	98	0	60	0.9%	9.1%	2.7%
Child restraint used - forward facing	6,611	3	16	132	572	5,887	1	720	37.1%	21.6%	32.7%
Child restraint not used	136	3	5	18	31	79	0	54	0.8%	9.1%	2.5%
Child restraint used - rear facing	3,010	2	3	21	237	2,746	1	261	16.9%	5.7%	11.8%
Child restraint used - booster seat	2,417	2	15	73	275	2,052	0	363	13.6%	19.3%	16.5%
Restraint failure	32	0	0	0	2	30	0	2	0.2%	0.0%	0.1%
Restraint use unknown	716	1	7	20	56	632	0	83	4.0%	9.1%	3.8%
Helmet worn	11	0	1	5	2	3	0	8	0.1%	1.1%	0.4%
Helmet not worn	9	0	2	5	0	2	0	7	0.1%	2.3%	0.3%
Helmet use unknown	0	0	0	0	0	0	0	0	0.0%	0.0%	0.0%
Uncoded & errors	3	0	0	0	0	2	1	0	0.0%	0.0%	0.0%
<b>Total</b>	<b>17,804</b>	<b>15</b>	<b>73</b>	<b>424</b>	<b>1,707</b>	<b>15,580</b>	<b>5</b>	<b>2,204</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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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
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%
2017	74,255	423	2,812	9,751	17,879	30,442	0.6%	3.8%	4.4%	41.0%
2018	74,940	434	2,634	9,709	18,096	30,439	0.6%	3.5%	4.1%	40.6%
2019	78,099	450	2,701	9,916	18,604	31,221	0.6%	3.5%	4.0%	40.0%

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	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	44,006	200	1,351	5,193	9,735	16,279	27,524	3	7.0%	26.6%	22.6%
Not deployed	465,323	150	1,282	6,716	27,306	35,304	429,834	35	73.8%	24.5%	49.1%
Not equipped	30,161	171	920	1,488	1,805	4,213	23,871	1,906	4.8%	18.7%	5.9%
Deployed - side	5,647	21	80	488	1,264	1,832	3,794	0	0.9%	1.7%	2.5%
Deployed - curtain	4,014	19	68	434	902	1,404	2,590	1	0.6%	1.5%	2.0%
Deployed - other	404	2	6	35	91	132	270	0	0.1%	0.1%	0.2%
Deployed - combination	24,028	208	1,196	3,766	6,612	11,574	12,244	2	3.8%	24.1%	16.1%
Unknown	50,519	44	118	249	810	1,177	7,874	41,424	8.0%	2.8%	1.6%
Uncoded & errors	6,548	0	0	1	8	9	171	6,368	1.0%	0.0%	0.0%
<b>Total</b>	<b>630,650</b>	<b>815</b>	<b>5,021</b>	<b>18,370</b>	<b>48,533</b>	<b>71,924</b>	<b>508,172</b>	<b>49,739</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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