

# **Safety Equipment**

**Crash Data Report:  
1990-1999**



**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
California	Used – Driver	482	460	504	629	692	678	762	662	679	692
	Used – Passenger	231	238	243	332	369	363	364	366	403	321
	Used – Subtotal	713	698	747	961	1,061	1,041	1,126	1,028	1,082	1,013
	Not used – Driver	1,206	984	853	669	710	662	571	508	478	516
	Not used – Passenger	719	685	605	508	493	460	420	436	383	410
	Not used – Subtotal	1,925	1,669	1,458	1,177	1,203	1,122	991	944	861	926
	Use unknown – Driver	461	393	404	397	354	375	377	311	279	322
	Use unknown – Passenger	242	268	259	246	245	278	237	161	152	179
	Use unknown – Subtotal	703	661	663	643	599	653	614	472	431	501
	Total – Occupant	3,341	3,028	2,868	2,781	2,863	2,816	2,731	2,444	2,374	2,440
<b>INJURED</b>											
California	Used – Driver	97,870	96,019	98,894	106,035	110,091	109,755	120,075	124,572	129,709	130,144
	Used – Passenger	52,132	53,751	55,120	60,787	61,956	61,354	67,460	69,898	72,233	70,829
	Used – Subtotal	150,002	149,770	154,014	166,822	172,047	171,109	187,535	194,470	201,942	200,973
	Not used – Driver	29,522	25,069	22,157	12,220	11,322	9,510	8,761	7,274	6,680	6,283
	Not used – Passenger	28,668	26,616	23,896	15,807	14,362	12,232	11,628	10,190	9,839	8,614
	Not used – Subtotal	58,190	51,685	46,053	28,027	25,684	21,742	20,389	17,464	16,519	14,897
	Use unknown – Driver	58,764	55,726	53,533	45,137	46,532	43,792	32,786	21,790	23,271	23,439
	Use unknown – Passenger	36,766	34,357	32,500	25,989	25,542	23,260	15,852	8,491	8,879	8,737
	Use unknown – Subtotal	95,530	90,083	86,033	71,126	72,074	67,052	48,638	30,281	32,150	32,176
	Total – Occupant	303,722	291,538	286,100	265,975	269,805	259,903	256,562	242,215	250,611	248,046
<b>KILLED</b>											
Florida	Used – Driver	322	269	293	425	440	422	444	516	512	500
	Used – Passenger	158	163	188	223	210	218	220	224	224	229
	Used – Subtotal	480	432	481	648	650	640	664	740	736	729
	Not used – Driver	938	741	712	740	738	804	772	730	799	821
	Not used – Passenger	461	398	382	407	426	407	435	398	399	444
	Not used – Subtotal	1,399	1,139	1,094	1,147	1,164	1,211	1,207	1,128	1,198	1,265
	Use unknown – Driver	33	47	43	20	19	27	36	46	44	52
	Use unknown – Passenger	18	26	26	5	3	9	7	6	9	8
	Use unknown – Subtotal	51	73	69	25	22	36	43	52	53	60
	Total – Occupant	1,930	1,644	1,644	1,820	1,836	1,887	1,914	1,920	1,987	2,054

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>											
Florida	Used – Driver	83,797	79,350	86,477	95,305	102,850	111,482	121,598	120,977	123,002	117,833
	Used – Passenger	41,354	39,341	43,213	45,025	48,662	51,154	54,015	54,336	55,259	53,009
	Used – Subtotal	125,151	118,691	129,690	140,330	151,512	162,636	175,613	175,313	178,261	170,842
	Not used – Driver	31,584	25,302	24,347	23,462	22,651	23,085	21,307	20,498	19,889	19,059
	Not used – Passenger	26,401	21,671	21,418	20,682	20,785	19,940	18,783	16,899	16,294	15,420
	Not used – Subtotal	57,985	46,973	45,765	44,144	43,436	43,025	40,090	37,397	36,183	34,479
	Use unknown – Driver	981	1,425	1,377	643	790	1,074	1,264	1,565	1,640	2,066
	Use unknown – Passenger	481	517	466	68	118	236	264	369	394	450
	Use unknown – Subtotal	1,462	1,942	1,843	711	908	1,310	1,528	1,934	2,034	2,516
	Total – Occupant	184,598	167,606	177,298	185,185	195,856	206,971	217,231	214,644	216,478	207,837
<b>KILLED</b>											
Georgia	Used – Driver	119	127	146	148	180	199	228	255	342	*
	Used – Passenger	60	53	70	66	84	90	109	94	132	*
	Used – Subtotal	179	180	216	214	264	289	337	349	474	*
	Not used – Driver	575	497	430	442	499	532	520	514	421	*
	Not used – Passenger	269	241	205	227	213	242	264	232	192	*
	Not used – Subtotal	844	738	635	669	712	774	784	746	613	*
	Use unknown – Driver	146	131	122	132	133	112	133	117	119	*
	Use unknown – Passenger	66	59	46	57	46	49	56	67	41	*
	Use unknown – Subtotal	212	190	168	189	179	161	189	184	160	*
	Total – Occupant	1,235	1,108	1,019	1,072	1,155	1,224	1,310	1,279	1,247	*
<b>INJURED</b>											
Georgia	Used – Driver	25,247	26,415	30,325	34,139	49,605	53,542	58,418	62,539	62,003	*
	Used – Passenger	10,989	12,260	13,829	16,065	25,780	27,077	29,624	30,995	29,845	*
	Used – Subtotal	36,236	38,675	44,154	50,204	75,385	80,619	88,042	93,534	91,848	*
	Not used – Driver	15,095	13,221	12,527	12,443	14,460	14,346	12,128	9,172	6,144	*
	Not used – Passenger	12,443	11,253	11,064	10,822	12,751	12,373	10,443	8,110	5,240	*
	Not used – Subtotal	27,538	24,474	23,591	23,265	27,211	26,719	22,571	17,282	11,384	*
	Use unknown – Driver	18,780	17,594	18,530	18,386	16,052	15,982	15,482	13,302	11,243	*
	Use unknown – Passenger	7,365	7,302	7,747	7,899	8,598	8,382	8,119	6,906	5,749	*
	Use unknown – Subtotal	26,145	24,896	26,277	26,285	24,650	24,364	23,601	20,208	16,992	*
	Total – Occupant	89,919	88,045	94,022	99,754	127,246	131,702	134,214	131,024	120,224	*

\* Data not available.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
Illinois	Used – Driver	100	136	158	142	208	230	133	212	224	247
	Used – Passenger	55	59	65	102	80	101	59	82	77	106
	Used – Subtotal	155	195	223	244	288	331	192	294	301	353
	Not used – Driver	244	288	288	311	388	383	212	377	352	412
	Not used – Passenger	123	127	129	136	158	190	116	180	159	159
	Not used – Subtotal	367	415	417	447	546	573	328	557	511	571
	Use unknown – Driver	400	320	260	215	191	178	69	122	131	122
	Use unknown – Passenger	173	126	126	105	83	84	35	59	81	64
	Use unknown – Subtotal	573	446	386	320	274	262	104	181	212	186
	Total – Occupant	1,095	1,056	1,026	1,011	1,108	1,166	624	1,032	1,024	1,110
<b>INJURED</b>											
Illinois	Used – Driver	3,552	16,038	53,961	59,288	56,340	56,145	33,629	62,091	54,779	54,016
	Used – Passenger	5,515	9,287	24,595	27,900	24,869	24,625	13,622	25,036	22,080	20,490
	Used – Subtotal	9,067	25,325	78,556	87,188	81,209	80,770	47,251	87,127	76,859	74,506
	Not used – Driver	816	2,788	7,942	8,946	8,234	8,321	4,318	8,431	6,699	6,406
	Not used – Passenger	2,406	3,261	7,515	8,779	7,599	7,594	3,582	7,229	5,503	4,586
	Not used – Subtotal	3,222	6,049	15,457	17,725	15,833	15,915	7,900	15,660	12,202	10,992
	Use unknown – Driver	84,244	64,020	24,899	19,605	8,929	8,062	3,227	7,378	4,840	5,012
	Use unknown – Passenger	37,861	28,569	14,714	10,745	4,487	3,933	1,556	4,166	2,587	2,387
	Use unknown – Subtotal	122,105	92,589	39,613	30,350	13,416	11,995	4,783	11,544	7,427	7,399
	Total – Occupant	134,394	123,963	133,626	135,263	110,458	108,680	59,934	114,331	96,488	92,897
<b>KILLED</b>											
Indiana	Used – Driver	126	117	125	161	139	133	173	154	181	214
	Used – Passenger	52	47	61	67	79	85	64	59	72	88
	Used – Subtotal	178	164	186	228	218	218	237	213	253	302
	Not used – Driver	396	399	318	299	343	334	326	325	332	310
	Not used – Passenger	178	168	141	123	135	128	146	139	125	120
	Not used – Subtotal	574	567	459	422	478	462	472	464	457	430
	Use unknown – Driver	37	43	47	46	47	55	61	61	56	61
	Use unknown – Passenger	14	14	15	20	18	22	30	23	17	14
	Use unknown – Subtotal	51	57	62	66	65	77	91	84	73	75
	Total – Occupant	803	788	707	716	761	757	800	761	783	807

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**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>											
Indiana	Used – Driver	23,264	23,605	25,626	27,274	28,716	30,450	30,828	31,899	33,223	31,963
	Used – Passenger	9,207	9,361	10,277	11,191	11,734	12,903	12,614	13,227	13,687	13,464
	Used – Subtotal	32,471	32,966	35,903	38,465	40,450	43,353	43,442	45,126	46,910	45,427
	Not used – Driver	14,391	11,847	12,120	12,215	12,013	11,710	10,734	10,052	8,513	7,438
	Not used – Passenger	10,028	8,534	8,631	8,945	8,523	8,724	7,788	7,494	6,470	5,457
	Not used – Subtotal	24,419	20,381	20,751	21,160	20,536	20,434	18,522	17,546	14,983	12,895
	Use unknown – Driver	2,744	2,320	2,502	2,722	2,695	2,938	2,970	3,113	2,944	3,066
	Use unknown – Passenger	1,184	956	984	1,089	976	1,091	1,073	1,090	941	883
	Use unknown – Subtotal	3,928	3,276	3,486	3,811	3,671	4,029	4,043	4,203	3,885	3,949
	Total – Occupant	60,818	56,623	60,140	63,436	64,657	67,816	66,007	66,875	65,778	62,271
<b>KILLED</b>											
Kansas	Used – Driver	41	31	42	49	47	58	59	74	84	86
	Used – Passenger	20	17	26	35	19	24	26	29	23	45
	Used – Subtotal	61	48	68	84	66	82	85	103	107	131
	Not used – Driver	163	141	133	159	171	168	190	182	171	180
	Not used – Passenger	69	74	55	51	87	67	72	75	76	89
	Not used – Subtotal	232	215	188	210	258	235	262	257	247	269
	Use unknown – Driver	37	37	46	46	35	41	51	37	45	47
	Use unknown – Passenger	18	19	18	15	14	11	24	13	11	24
	Use unknown – Subtotal	55	56	64	61	49	52	75	50	56	71
	Total – Occupant	348	319	320	355	373	369	422	410	410	471
<b>INJURED</b>											
Kansas	Used – Driver	10,478	9,755	10,865	11,543	11,658	12,180	12,530	12,928	12,921	13,042
	Used – Passenger	4,645	4,240	4,660	5,138	5,135	5,275	5,446	5,715	5,792	5,784
	Used – Subtotal	15,123	13,995	15,525	16,681	16,793	17,455	17,976	18,643	18,713	18,826
	Not used – Driver	4,895	4,598	4,635	4,364	4,647	4,522	4,582	4,507	4,348	3,992
	Not used – Passenger	3,792	3,553	3,763	3,283	3,588	3,436	3,453	3,429	3,342	2,915
	Not used – Subtotal	8,687	8,151	8,398	7,647	8,235	7,958	8,035	7,936	7,690	6,907
	Use unknown – Driver	2,127	2,225	2,122	1,948	1,907	1,754	1,782	1,818	1,771	1,650
	Use unknown – Passenger	1,128	1,224	1,198	1,099	980	763	905	880	750	788
	Use unknown – Subtotal	3,255	3,449	3,320	3,047	2,887	2,517	2,687	2,698	2,521	2,438
	Total – Occupant	27,065	25,595	27,243	27,375	27,915	27,930	28,698	29,277	28,924	28,171

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**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
Maryland	Used – Driver	83	96	115	96	115	124	100	125	147	148
	Used – Passenger	39	46	42	41	58	57	43	47	60	43
	Used – Subtotal	122	142	157	137	173	181	143	172	207	191
	Not used – Driver	207	191	172	165	163	205	186	160	128	149
	Not used – Passenger	106	102	96	91	79	86	85	79	90	56
	Not used – Subtotal	313	293	268	256	242	291	271	239	218	205
	Use unknown – Driver	60	41	40	26	30	20	17	20	16	13
	Use unknown – Passenger	20	19	12	10	8	12	10	9	6	8
	Use unknown – Subtotal	80	60	52	36	38	32	27	29	22	21
	Total – Occupant	515	495	477	429	453	504	441	440	447	417
<b>INJURED</b>											
Maryland	Used – Driver	34,331	31,705	35,709	27,742	31,949	32,036	31,602	30,125	30,498	30,667
	Used – Passenger	15,621	14,648	16,730	12,214	13,786	13,606	13,508	13,617	12,950	12,916
	Used – Subtotal	49,952	46,353	52,439	39,956	45,735	45,642	45,110	43,742	43,448	43,583
	Not used – Driver	7,817	6,143	5,833	4,813	5,597	5,511	4,883	3,951	2,968	2,685
	Not used – Passenger	7,014	5,578	5,717	4,906	5,243	5,057	4,873	3,852	2,733	2,621
	Not used – Subtotal	14,831	11,721	11,550	9,719	10,840	10,568	9,756	7,803	5,701	5,306
	Use unknown – Driver	4,001	3,997	4,261	2,451	3,049	3,231	4,369	4,309	2,242	2,258
	Use unknown – Passenger	2,497	2,610	2,776	916	1,087	1,278	1,581	1,140	870	828
	Use unknown – Subtotal	6,498	6,607	7,037	3,367	4,136	4,509	5,950	5,449	3,112	3,086
	Total – Occupant	71,281	64,681	71,026	53,042	60,711	60,719	60,816	56,994	52,261	51,975
<b>KILLED</b>											
Michigan	Used – Driver	238	227	224	264	247	309	306	285	290	311
	Used – Passenger	111	104	89	89	128	126	130	158	115	116
	Used – Subtotal	349	331	313	353	375	435	436	443	405	427
	Not used – Driver	548	441	344	385	388	399	371	355	353	348
	Not used – Passenger	193	208	171	200	177	195	174	180	152	163
	Not used – Subtotal	741	649	515	585	565	594	545	535	505	511
	Use unknown – Driver	71	67	78	107	109	113	125	116	111	93
	Use unknown – Passenger	38	33	36	31	27	34	44	43	40	31
	Use unknown – Subtotal	109	100	114	138	136	147	169	159	151	124
	Total – Occupant	1,199	1,080	942	1,076	1,076	1,176	1,150	1,137	1,061	1,062

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**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>											
Michigan	Used – Driver	66,811	63,965	56,905	64,896	70,735	75,072	75,335	73,242	69,787	67,414
	Used – Passenger	26,348	26,073	18,801	23,578	25,228	26,912	26,797	25,867	24,324	23,088
	Used – Subtotal	93,159	90,038	75,706	88,474	95,963	101,984	102,132	99,109	94,111	90,502
	Not used – Driver	18,182	15,271	11,780	12,185	12,422	11,824	10,023	9,261	8,600	7,478
	Not used – Passenger	13,921	11,889	8,783	9,913	10,136	9,556	8,111	7,719	7,045	6,049
	Not used – Subtotal	32,103	27,160	20,563	22,098	22,558	21,380	18,134	16,980	15,645	13,527
	Use unknown – Driver	3,549	3,331	4,260	6,663	6,804	6,935	7,029	6,838	6,719	6,479
	Use unknown – Passenger	1,945	1,890	1,563	1,611	1,736	1,892	1,873	1,812	1,850	1,677
	Use unknown – Subtotal	5,494	5,221	5,823	8,274	8,540	8,827	8,902	8,650	8,569	8,156
	Total – Occupant	130,756	122,419	102,092	118,846	127,061	132,191	129,168	124,739	118,325	112,185
<b>KILLED</b>											
Missouri	Used – Driver	92	123	137	126	146	130	158	178	191	190
	Used – Passenger	51	56	50	57	62	67	62	90	88	73
	Used – Subtotal	143	179	187	183	208	197	220	268	279	263
	Not used – Driver	400	402	370	344	403	454	440	441	386	390
	Not used – Passenger	211	152	159	156	193	201	190	187	192	179
	Not used – Subtotal	611	554	529	500	596	655	630	628	578	569
	Use unknown – Driver	86	88	72	71	83	60	100	97	104	81
	Use unknown – Passenger	54	34	27	33	30	31	30	27	38	29
	Use unknown – Subtotal	140	122	99	104	113	91	130	124	142	110
	Total – Occupant	894	855	815	787	917	943	980	1,020	999	942
<b>INJURED</b>											
Missouri	Used – Driver	24,864	24,108	26,275	28,963	30,238	31,383	32,707	32,840	33,517	33,260
	Used – Passenger	10,658	10,533	11,344	13,841	14,381	14,519	15,227	15,515	15,810	15,557
	Used – Subtotal	35,522	34,641	37,619	42,804	44,619	45,902	47,934	48,355	49,327	48,817
	Not used – Driver	13,018	11,522	11,173	11,415	11,662	11,358	10,941	10,218	9,217	8,633
	Not used – Passenger	9,997	8,768	8,739	9,597	9,804	9,132	9,007	8,049	7,274	6,769
	Not used – Subtotal	23,015	20,290	19,912	21,012	21,466	20,490	19,948	18,267	16,491	15,402
	Use unknown – Driver	4,603	4,116	4,265	4,461	5,051	5,333	5,560	5,446	5,105	5,136
	Use unknown – Passenger	2,509	2,329	2,426	2,669	2,914	3,070	3,114	3,104	2,700	2,649
	Use unknown – Subtotal	7,112	6,445	6,691	7,130	7,965	8,403	8,674	8,550	7,805	7,785
	Total – Occupant	65,649	61,376	64,222	70,946	74,050	74,795	76,556	75,172	73,623	72,004

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**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
New Mexico	Used – Driver	39	44	53	50	60	63	67	75	66	69
	Used – Passenger	28	19	28	28	30	31	44	44	42	37
	Used – Subtotal	67	63	81	78	90	94	111	119	108	106
	Not used – Driver	159	142	137	138	129	130	122	112	95	116
	Not used – Passenger	100	93	89	78	90	93	99	94	90	87
	Not used – Subtotal	259	235	226	216	219	223	221	206	185	203
	Use unknown – Driver	10	13	8	4	6	6	11	12	18	17
	Use unknown – Passenger	10	8	13	9	8	6	8	8	3	10
	Use unknown – Subtotal	20	21	21	13	14	12	19	20	21	27
	Total – Occupant	346	319	328	307	323	329	351	345	314	336
<b>INJURED</b>											
New Mexico	Used – Driver	10,494	10,812	12,384	13,469	14,909	16,001	16,318	15,537	14,927	13,169
	Used – Passenger	5,403	5,723	6,534	6,792	7,922	8,127	8,250	7,928	7,649	6,646
	Used – Subtotal	15,897	16,535	18,918	20,261	22,831	24,128	24,568	23,465	22,576	19,815
	Not used – Driver	2,723	2,473	2,188	1,876	1,615	1,591	1,531	1,172	1,061	792
	Not used – Passenger	2,527	2,410	2,339	2,156	1,997	1,868	1,837	1,635	1,343	922
	Not used – Subtotal	5,250	4,883	4,527	4,032	3,612	3,459	3,368	2,807	2,404	1,714
	Use unknown – Driver	250	315	366	434	488	410	536	607	614	527
	Use unknown – Passenger	206	209	302	426	330	404	326	319	295	236
	Use unknown – Subtotal	456	524	668	860	818	814	862	926	909	763
	Total – Occupant	21,603	21,942	24,113	25,153	27,261	28,401	28,798	27,198	25,889	22,292
<b>KILLED</b>											
North Carolina	Used – Driver	*	*	218	262	342	324	365	348	416	382
	Used – Passenger	*	*	89	92	142	119	153	149	125	141
	Used – Subtotal	*	*	307	354	484	443	518	497	541	523
	Not used – Driver	*	*	337	350	319	308	316	332	331	342
	Not used – Passenger	*	*	192	169	178	182	162	171	185	164
	Not used – Subtotal	*	*	529	519	497	490	478	503	516	506
	Use unknown – Driver	*	*	97	115	105	117	108	114	122	114
	Use unknown – Passenger	*	*	41	50	43	54	59	52	43	42
	Use unknown – Subtotal	*	*	138	165	148	171	167	166	165	156
	Total – Occupant	*	*	974	1,038	1,129	1,104	1,163	1,166	1,222	1,185

\* Data not available.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>											
North Carolina	Used – Driver	*	*	63,554	69,047	78,072	83,895	86,426	88,001	87,229	88,905
	Used – Passenger	*	*	27,697	31,177	35,181	38,214	39,762	39,457	39,005	39,946
	Used – Subtotal	*	*	91,251	100,224	113,253	122,109	126,188	127,458	126,234	128,851
	Not used – Driver	*	*	9,543	8,085	5,929	5,900	5,508	5,897	5,526	5,329
	Not used – Passenger	*	*	10,886	10,260	9,141	9,186	8,578	8,667	7,929	7,297
	Not used – Subtotal	*	*	20,429	18,345	15,070	15,086	14,086	14,564	13,455	12,626
	Use unknown – Driver	*	*	3,124	2,781	2,539	2,520	2,605	2,659	2,578	2,558
	Use unknown – Passenger	*	*	2,118	1,953	1,726	1,958	1,963	1,910	1,811	1,851
	Use unknown – Subtotal	*	*	5,242	4,734	4,265	4,478	4,568	4,569	4,389	4,409
	Total – Occupant	*	*	116,922	123,303	132,588	141,673	144,842	146,591	144,078	145,886
<b>KILLED</b>											
Ohio	Used – Driver	173	200	185	218	233	251	276	273	239	257
	Used – Passenger	72	85	84	92	97	112	116	102	92	112
	Used – Subtotal	245	285	269	310	330	363	392	375	331	369
	Not used – Driver	656	567	525	494	434	409	403	425	446	431
	Not used – Passenger	275	254	231	245	221	183	175	195	205	171
	Not used – Subtotal	931	821	756	739	655	592	578	620	651	602
	Use unknown – Driver	20	87	60	59	55	84	106	116	98	93
	Use unknown – Passenger	13	27	27	23	33	25	34	34	30	33
	Use unknown – Subtotal	33	114	87	82	88	109	140	150	128	126
	Total – Occupant	1,209	1,220	1,112	1,131	1,073	1,064	1,110	1,145	1,110	1,097
<b>INJURED</b>											
Ohio	Used – Driver	90,284	84,278	91,897	97,928	100,884	108,134	114,016	111,965	108,057	106,226
	Used – Passenger	36,787	35,205	37,664	40,781	41,660	44,441	46,734	46,239	45,021	44,300
	Used – Subtotal	127,071	119,483	129,561	138,709	142,544	152,575	160,750	158,204	153,078	150,526
	Not used – Driver	26,608	22,547	21,500	18,444	17,301	16,936	15,418	14,665	14,051	12,712
	Not used – Passenger	19,853	16,775	16,230	14,331	13,840	13,165	12,111	11,432	10,556	9,057
	Not used – Subtotal	46,461	39,322	37,730	32,775	31,141	30,101	27,529	26,097	24,607	21,769
	Use unknown – Driver	13,627	12,644	13,298	12,216	12,771	12,842	13,087	13,555	12,007	11,637
	Use unknown – Passenger	7,262	6,005	6,301	5,771	5,888	5,891	6,021	6,044	5,322	5,124
	Use unknown – Subtotal	20,889	18,649	19,599	17,987	18,659	18,733	19,108	19,599	17,329	16,761
	Total – Occupant	194,421	177,454	186,890	189,471	192,344	201,409	207,387	203,900	195,014	189,056

\* Data not available.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
Pennsylvania	Used – Driver	149	170	163	200	196	204	228	208	211	216
	Used – Passenger	73	83	87	95	106	94	99	105	93	110
	Used – Subtotal	222	253	250	295	302	298	327	313	304	326
	Not used – Driver	507	539	499	481	429	456	421	507	466	465
	Not used – Passenger	212	233	219	171	175	209	174	204	156	176
	Not used – Subtotal	719	772	718	652	604	665	595	711	622	641
	Use unknown – Driver	170	152	144	135	124	133	117	139	138	145
	Use unknown – Passenger	78	67	56	65	61	46	54	71	61	72
	Use unknown – Subtotal	248	219	200	200	185	179	171	210	199	217
	Total – Occupant	1,189	1,244	1,168	1,147	1,091	1,142	1,093	1,234	1,125	1,184
<b>INJURED</b>											
Pennsylvania	Used – Driver	39,940	38,672	40,733	42,862	44,227	45,639	48,443	48,398	46,970	47,693
	Used – Passenger	18,209	17,769	18,622	19,416	20,096	20,586	21,248	21,166	20,199	20,409
	Used – Subtotal	58,149	56,441	59,355	62,278	64,323	66,225	69,691	69,564	67,169	68,102
	Not used – Driver	21,582	17,997	16,319	15,053	14,240	14,465	14,241	14,848	14,633	13,767
	Not used – Passenger	14,924	12,556	11,498	10,957	10,057	10,084	9,924	10,131	9,618	8,738
	Not used – Subtotal	36,506	30,553	27,817	26,010	24,297	24,549	24,165	24,979	24,251	22,505
	Use unknown – Driver	20,102	17,769	20,109	18,413	17,216	17,876	18,900	19,548	18,738	18,946
	Use unknown – Passenger	10,263	8,943	9,888	9,175	9,222	9,321	9,359	9,698	8,912	9,122
	Use unknown – Subtotal	30,365	26,712	29,997	27,588	26,438	27,197	28,259	29,246	27,650	28,068
	Total – Occupant	125,020	113,706	117,169	115,876	115,058	117,971	122,115	123,789	119,070	118,675
<b>KILLED</b>											
Texas	Used – Driver	447	452	468	545	577	555	662	653	608	580
	Used – Passenger	177	214	199	240	227	246	303	289	291	278
	Used – Subtotal	624	666	667	785	804	801	965	942	899	858
	Not used – Driver	1,087	933	899	859	888	848	947	815	787	742
	Not used – Passenger	580	522	543	481	487	507	631	520	479	470
	Not used – Subtotal	1,667	1,455	1,442	1,340	1,375	1,355	1,578	1,335	1,266	1,212
	Use unknown – Driver	68	79	90	93	146	197	333	358	442	515
	Use unknown – Passenger	53	89	59	52	79	77	117	134	153	159
	Use unknown – Subtotal	121	168	149	145	225	274	450	492	595	674
	Total – Occupant	2,412	2,289	2,258	2,270	2,404	2,430	2,993	2,769	2,760	2,744

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>											
Texas	Used – Driver	119,836	123,323	136,065	145,947	158,507	159,206	164,638	159,539	153,986	152,082
	Used – Passenger	57,722	61,560	69,163	76,845	86,188	88,518	91,012	88,423	85,224	85,852
	Used – Subtotal	177,558	184,883	205,228	222,792	244,695	247,724	255,650	247,962	239,210	237,934
	Not used – Driver	25,048	22,212	19,409	18,150	17,848	16,234	15,467	13,309	11,899	10,373
	Not used – Passenger	28,835	26,627	26,912	26,886	27,821	27,127	26,302	23,798	21,200	18,939
	Not used – Subtotal	53,883	48,839	46,321	45,036	45,669	43,361	41,769	37,107	33,099	29,312
	Use unknown – Driver	4,551	4,607	4,554	5,333	8,839	14,962	22,024	28,221	32,704	36,719
	Use unknown – Passenger	3,939	3,489	3,627	3,623	4,117	5,185	7,047	8,384	9,595	11,187
	Use unknown – Subtotal	8,490	8,096	8,181	8,956	12,956	20,147	29,071	36,605	42,299	47,906
Total – Occupant		239,931	241,818	259,730	276,784	303,320	311,232	326,490	321,674	314,608	315,152
<b>KILLED</b>											
Utah	Used – Driver	35	34	36	44	37	49	44	62	50	69
	Used – Passenger	23	16	17	23	23	30	32	45	36	29
	Used – Subtotal	58	50	53	67	60	79	76	107	86	98
	Not used – Driver	68	71	70	88	99	87	78	83	84	91
	Not used – Passenger	56	58	63	59	75	54	64	73	62	58
	Not used – Subtotal	124	129	133	147	174	141	142	156	146	149
	Use unknown – Driver	14	15	6	13	13	17	22	15	16	18
	Use unknown – Passenger	6	11	8	9	14	14	12	10	16	11
	Use unknown – Subtotal	20	26	14	22	27	31	34	25	32	29
Total – Occupant		202	205	200	236	261	251	252	288	264	276
<b>INJURED</b>											
Utah	Used – Driver	6,747	6,995	8,533	9,840	11,276	11,535	12,665	13,400	13,325	13,623
	Used – Passenger	3,087	3,358	4,262	4,750	5,028	5,347	6,132	6,412	6,527	6,404
	Used – Subtotal	9,834	10,353	12,795	14,590	16,304	16,882	18,797	19,812	19,852	20,027
	Not used – Driver	4,459	3,613	3,711	3,590	3,771	3,548	3,396	3,188	2,727	2,447
	Not used – Passenger	3,817	3,326	3,466	3,450	3,447	3,473	3,219	2,925	2,469	2,221
	Not used – Subtotal	8,276	6,939	7,177	7,040	7,218	7,021	6,615	6,113	5,196	4,668
	Use unknown – Driver	812	772	871	957	1,165	1,194	1,434	1,651	1,706	1,628
	Use unknown – Passenger	393	360	421	551	636	620	619	708	738	831
	Use unknown – Subtotal	1,205	1,132	1,292	1,508	1,801	1,814	2,053	2,359	2,444	2,459
Total – Occupant		19,315	18,424	21,264	23,138	25,323	25,717	27,465	28,284	27,492	27,154

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
Virginia	Used – Driver	126	141	119	148	165	155	134	202	177	170
	Used – Passenger	59	68	53	63	81	66	62	81	68	55
	Used – Subtotal	185	209	172	211	246	221	196	283	245	225
	Not used – Driver	406	319	301	290	289	314	286	315	315	288
	Not used – Passenger	207	164	149	139	156	145	143	147	126	140
	Not used – Subtotal	613	483	450	429	445	459	429	462	441	428
	Use unknown – Driver	30	30	28	32	28	40	41	41	35	45
	Use unknown – Passenger	8	13	17	22	16	9	13	15	12	6
	Use unknown – Subtotal	38	43	45	54	44	49	54	56	47	51
	Total – Occupant	836	735	667	694	735	729	679	801	733	704
<b>INJURED</b>											
Virginia	Used – Driver	32,227	31,151	34,460	35,613	38,565	38,367	39,318	39,389	40,375	40,693
	Used – Passenger	12,812	12,848	14,692	14,913	16,143	16,091	16,303	16,361	16,813	16,661
	Used – Subtotal	45,039	43,999	49,152	50,526	54,708	54,458	55,621	55,750	57,188	57,354
	Not used – Driver	10,782	9,054	8,937	8,476	8,420	8,132	7,664	7,409	6,720	6,460
	Not used – Passenger	9,765	8,317	8,687	8,402	8,179	7,937	7,362	6,987	5,822	5,471
	Not used – Subtotal	20,547	17,371	17,624	16,878	16,599	16,069	15,026	14,396	12,542	11,931
	Use unknown – Driver	2,011	1,783	1,910	2,079	2,314	2,638	2,672	3,157	3,241	3,224
	Use unknown – Passenger	807	762	747	826	972	975	929	1,065	1,062	953
	Use unknown – Subtotal	2,818	2,545	2,657	2,905	3,286	3,613	3,601	4,222	4,303	4,177
	Total – Occupant	68,404	63,915	69,433	70,309	74,593	74,140	74,248	74,368	74,033	73,462

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 49: Passenger Car and Light Truck Occupants Killed or Injured by Restraint Use and Person Type**

STATE	RESTRAINT USE/TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>											
Washington	Used – Driver	107	118	93	112	115	104	143	*	*	*
	Used – Passenger	57	51	51	52	51	58	60	*	*	*
	Used – Subtotal	164	169	144	164	166	162	203	*	*	*
	Not used – Driver	285	225	212	193	194	206	215	*	*	*
	Not used – Passenger	161	98	111	112	87	98	90	*	*	*
	Not used – Subtotal	446	323	323	305	281	304	305	*	*	*
	Use unknown – Driver	33	27	20	31	23	32	27	*	*	*
	Use unknown – Passenger	12	21	8	16	20	20	14	*	*	*
	Use unknown – Subtotal	45	48	28	47	43	52	41	*	*	*
	Total – Occupant	655	540	495	516	490	518	549	*	*	*
<b>INJURED</b>											
Washington	Used – Driver	27,036	26,815	28,783	29,713	32,485	34,418	34,655	*	*	*
	Used – Passenger	12,506	12,136	13,453	13,681	15,097	15,888	16,091	*	*	*
	Used – Subtotal	39,542	38,951	42,236	43,394	47,582	50,306	50,746	*	*	*
	Not used – Driver	7,822	6,377	6,085	5,540	5,396	5,200	4,796	*	*	*
	Not used – Passenger	5,999	5,004	4,870	4,519	4,304	4,347	4,102	*	*	*
	Not used – Subtotal	13,821	11,381	10,955	10,059	9,700	9,547	8,898	*	*	*
	Use unknown – Driver	11,688	11,201	11,699	12,061	12,593	12,734	12,742	*	*	*
	Use unknown – Passenger	4,407	4,037	4,360	4,377	4,686	4,698	4,761	*	*	*
	Use unknown – Subtotal	16,095	15,238	16,059	16,438	17,279	17,432	17,503	*	*	*
	Total – Occupant	69,458	65,570	69,250	69,891	74,561	77,285	77,147	*	*	*

\*Data not available.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
California	Child restraint used	0-1	5	6	10	9	9	3	5	3	6	6
	Other restraint used	0-1	2	0	1	1	2	0	2	1	3	0
	Restraint not used	0-1	21	16	18	13	12	22	11	17	8	9
	Restraint use unknown	0-1	5	15	4	4	5	7	3	3	5	4
	Subtotal	0-1	33	37	33	27	28	32	21	24	22	19
	Child restraint used	2	2	4	1	2	0	3	3	1	3	3
	Other restraint used	2	1	2	0	1	0	2	0	1	2	1
	Restraint not used	2	9	10	8	7	8	8	3	4	8	6
	Restraint use unknown	2	2	2	4	3	0	1	1	1	1	3
	Subtotal	2	14	18	13	13	8	14	7	7	14	13
	Child restraint used	3	0	0	0	1	2	1	2	0	2	1
	Other restraint used	3	1	1	0	0	4	0	0	0	4	0
	Restraint not used	3	13	13	9	6	9	10	3	3	5	4
	Restraint use unknown	3	0	1	3	1	4	1	3	0	1	2
	Subtotal	3	14	15	12	8	19	12	8	3	12	7
	Child restraint used	4	1	0	0	0	0	2	2	0	0	1
	Other restraint used	4	1	1	5	4	6	2	1	2	3	2
	Restraint not used	4	4	6	8	7	9	2	4	5	2	1
	Restraint use unknown	4	3	4	1	3	2	6	3	1	3	0
	Subtotal	4	9	11	14	14	17	12	10	8	8	4
	Child restraint used	5	0	1	0	0	0	0	0	0	0	0
	Other restraint used	5	2	3	3	1	3	3	1	0	7	3
	Restraint not used	5	1	2	2	5	5	7	5	2	2	4
	Restraint use unknown	5	3	2	2	3	3	3	0	4	1	2
	Subtotal	5	6	8	7	9	11	13	6	6	10	9
	Child restraint used	0-5	8	11	11	12	11	9	12	4	11	11
	Other restraint used	0-5	7	7	9	7	15	7	4	4	19	6
	Restraint not used	0-5	48	47	45	38	43	49	26	31	25	24
	Restraint use unknown	0-5	13	24	14	14	14	18	10	9	11	11
	Total	0-5	76	89	79	71	83	83	52	48	66	52

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
California	Child restraint used	0-1	694	723	711	724	659	655	741	668	726	657
	Other restraint used	0-1	185	160	128	158	154	136	137	110	119	93
	Restraint not used	0-1	608	501	463	370	316	244	220	169	154	143
	Restraint use unknown	0-1	571	470	410	347	331	283	176	66	78	64
	Subtotal	0-1	2,058	1,854	1,712	1,599	1,460	1,318	1,274	1,013	1,077	957
	Child restraint used	2	259	314	338	390	375	381	448	427	417	465
	Other restraint used	2	263	253	236	229	222	199	219	193	172	172
	Restraint not used	2	432	406	415	314	303	229	218	177	180	138
	Restraint use unknown	2	406	365	389	300	266	248	163	57	52	69
	Subtotal	2	1,360	1,338	1,378	1,233	1,166	1,057	1,048	854	821	844
	Child restraint used	3	182	202	217	253	275	315	338	388	411	398
	Other restraint used	3	436	468	446	464	478	410	434	402	413	390
	Restraint not used	3	507	437	490	389	367	325	263	223	237	187
	Restraint use unknown	3	486	431	400	359	330	320	207	91	85	62
	Subtotal	3	1,611	1,538	1,553	1,465	1,450	1,370	1,242	1,104	1,146	1,037
	Child restraint used	4	67	67	76	88	106	103	136	161	155	184
	Other restraint used	4	751	714	754	807	905	908	974	891	904	846
	Restraint not used	4	441	383	394	253	271	204	266	206	155	138
	Restraint use unknown	4	496	461	483	390	420	399	244	118	94	94
	Subtotal	4	1,755	1,625	1,707	1,538	1,702	1,614	1,620	1,376	1,308	1,262
	Child restraint used	5	21	20	23	23	31	33	49	55	62	68
	Other restraint used	5	749	775	823	910	964	1,005	1,138	1,135	1,104	1,045
	Restraint not used	5	438	432	386	283	261	224	222	196	173	156
	Restraint use unknown	5	496	500	447	383	436	405	271	121	117	116
	Subtotal	5	1,704	1,727	1,679	1,599	1,692	1,667	1,680	1,507	1,456	1,385
	Child restraint used	0-5	1,223	1,326	1,365	1,478	1,446	1,487	1,712	1,699	1,771	1,772
	Other restraint used	0-5	2,384	2,370	2,387	2,568	2,723	2,658	2,902	2,731	2,712	2,546
	Restraint not used	0-5	2,426	2,159	2,148	1,609	1,518	1,226	1,189	971	899	762
	Restraint use unknown	0-5	2,455	2,227	2,129	1,779	1,783	1,655	1,061	453	426	405
	Total	0-5	8,488	8,082	8,029	7,434	7,470	7,026	6,864	5,854	5,808	5,485

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Florida	Child restraint used	0-1	2	4	3	2	4	3	1	2	6	2
	Other restraint used	0-1	0	0	3	0	0	0	1	0	0	0
	Restraint not used	0-1	6	3	7	6	6	5	6	2	2	4
	Restraint use unknown	0-1	0	1	3	0	0	0	0	0	0	0
	Subtotal	0-1	8	8	16	8	10	8	8	4	8	6
	Child restraint used	2	0	1	4	3	2	0	2	1	2	2
	Other restraint used	2	1	0	1	0	1	0	0	0	0	0
	Restraint not used	2	5	1	3	3	4	0	1	1	3	1
	Restraint use unknown	2	0	0	1	0	0	0	0	0	0	1
	Subtotal	2	6	2	9	6	7	0	3	2	5	4
	Child restraint used	3	0	3	2	1	2	0	2	3	1	1
	Other restraint used	3	1	0	0	3	0	0	1	1	1	1
	Restraint not used	3	8	4	2	6	2	5	5	2	4	3
	Restraint use unknown	3	0	1	0	0	0	0	0	0	0	0
	Subtotal	3	9	8	4	10	4	5	8	6	6	5
	Child restraint used	4	0	0	0	0	0	0	1	1	1	0
	Other restraint used	4	3	2	1	2	3	1	1	1	2	2
	Restraint not used	4	5	3	2	3	3	4	0	2	0	5
	Restraint use unknown	4	1	0	0	0	0	1	0	0	0	0
	Subtotal	4	9	5	3	5	6	6	2	4	3	7
	Child restraint used	5	0	0	0	0	1	0	0	1	1	1
	Other restraint used	5	0	0	0	0	4	3	4	2	2	0
	Restraint not used	5	3	3	4	3	4	5	3	2	6	1
	Restraint use unknown	5	0	1	0	0	0	0	0	0	0	0
	Subtotal	5	3	4	4	3	9	8	7	5	9	2
	Child restraint used	0-5	2	8	9	6	9	3	6	8	11	6
	Other restraint used	0-5	5	2	5	5	8	4	7	4	5	3
	Restraint not used	0-5	27	14	18	21	19	19	15	9	15	14
	Restraint use unknown	0-5	1	3	4	0	0	1	0	0	0	1
	Total	0-5	35	27	36	32	36	27	28	21	31	24

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Florida	Child restraint used	0-1	615	613	621	544	542	551	571	577	575	522
	Other restraint used	0-1	210	223	213	139	127	123	135	165	98	106
	Restraint not used	0-1	302	246	212	192	160	116	125	111	114	113
	Restraint use unknown	0-1	11	9	6	1	5	5	5	4	3	2
	Subtotal	0-1	1,138	1,091	1,052	876	834	795	836	857	790	743
	Child restraint used	2	361	404	460	470	474	505	519	578	517	551
	Other restraint used	2	325	240	242	218	213	207	276	206	198	196
	Restraint not used	2	312	264	186	207	233	169	156	143	142	151
	Restraint use unknown	2	7	5	5	1	0	8	2	8	5	4
	Subtotal	2	1,005	913	893	896	920	889	953	935	862	902
	Child restraint used	3	170	199	319	324	314	362	338	371	380	376
	Other restraint used	3	477	364	389	386	421	385	403	406	347	344
	Restraint not used	3	338	286	222	218	254	222	202	190	190	182
	Restraint use unknown	3	9	10	9	2	5	8	4	4	6	8
	Subtotal	3	994	859	939	930	994	977	947	971	923	910
	Child restraint used	4	92	97	120	136	150	152	173	189	206	209
	Other restraint used	4	592	592	559	599	684	670	721	700	679	627
	Restraint not used	4	396	265	266	254	264	276	234	205	182	138
	Restraint use unknown	4	9	7	7	0	1	1	1	1	4	3
	Subtotal	4	1,089	961	952	989	1,099	1,099	1,129	1,095	1,071	977
	Child restraint used	5	21	32	26	53	31	36	48	82	84	63
	Other restraint used	5	619	568	667	655	739	847	888	842	828	753
	Restraint not used	5	390	295	285	280	312	264	241	202	217	207
	Restraint use unknown	5	4	4	2	0	1	0	1	5	4	4
	Subtotal	5	1,034	899	980	988	1,083	1,147	1,178	1,131	1,133	1,027
	Child restraint used	0-5	1,259	1,345	1,546	1,527	1,511	1,606	1,649	1,797	1,762	1,721
	Other restraint used	0-5	2,223	1,987	2,070	1,997	2,184	2,232	2,423	2,319	2,150	2,026
	Restraint not used	0-5	1,738	1,356	1,171	1,151	1,223	1,047	958	851	845	791
	Restraint use unknown	0-5	40	35	29	4	12	22	13	22	22	21
	Total	0-5	5,260	4,723	4,816	4,679	4,930	4,907	5,043	4,989	4,779	4,559

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Georgia	Child restraint used	0-1	3	0	4	4	5	3	3	1	4	*
	Other restraint used	0-1	0	0	0	0	5	0	1	2	1	*
	Restraint not used	0-1	7	4	10	9	13	11	10	11	5	*
	Restraint use unknown	0-1	1	2	0	1	1	1	3	3	0	*
	Subtotal	0-1	11	6	14	14	24	15	17	17	10	*
	Child restraint used	2	3	1	1	0	0	0	0	2	3	*
	Other restraint used	2	2	0	0	2	0	1	0	0	0	*
	Restraint not used	2	3	3	8	3	4	4	0	3	1	*
	Restraint use unknown	2	0	1	0	0	0	0	1	1	0	*
	Subtotal	2	8	5	9	5	4	5	1	6	4	*
	Child restraint used	3	2	0	0	0	1	1	0	1	0	*
	Other restraint used	3	1	1	2	0	0	1	0	0	5	*
	Restraint not used	3	3	3	1	1	1	1	4	1	1	*
	Restraint use unknown	3	0	0	0	0	1	0	2	3	0	*
	Subtotal	3	6	4	3	1	3	3	6	5	6	*
	Child restraint used	4	0	0	2	0	0	0	1	0	0	*
	Other restraint used	4	0	2	0	2	5	3	1	2	6	*
	Restraint not used	4	6	3	4	2	1	6	6	3	4	*
	Restraint use unknown	4	1	0	0	0	0	0	0	0	3	*
	Subtotal	4	7	5	6	4	6	9	8	5	13	*
	Child restraint used	5	0	0	1	0	1	0	0	0	0	*
	Other restraint used	5	3	1	2	0	3	1	1	2	4	*
	Restraint not used	5	2	2	5	5	1	6	2	3	1	*
	Restraint use unknown	5	1	1	1	0	1	1	0	1	0	*
	Subtotal	5	6	4	9	5	6	8	3	6	5	*
	Child restraint used	0-5	8	1	8	4	7	4	4	4	7	*
	Other restraint used	0-5	6	4	4	4	13	6	3	6	16	*
	Restraint not used	0-5	21	15	28	20	20	28	22	21	12	*
	Restraint use unknown	0-5	3	4	1	1	3	2	6	8	3	*
	Total	0-5	38	24	41	29	43	40	35	39	38	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Georgia	Child restraint used	0-1	352	367	422	433	590	775	697	699	682	*
	Other restraint used	0-1	118	93	101	149	435	369	307	251	258	*
	Restraint not used	0-1	293	237	238	250	354	267	218	181	113	*
	Restraint use unknown	0-1	78	79	88	88	199	160	167	123	104	*
	Subtotal	0-1	841	776	849	920	1,578	1,571	1,389	1,254	1,157	*
	Child restraint used	2	131	116	178	207	315	373	346	378	346	*
	Other restraint used	2	140	145	123	163	172	218	182	166	131	*
	Restraint not used	2	225	187	217	185	175	187	135	98	75	*
	Restraint use unknown	2	64	59	67	62	90	71	68	47	36	*
	Subtotal	2	560	507	585	617	752	849	731	689	588	*
	Child restraint used	3	57	89	82	135	178	192	224	237	209	*
	Other restraint used	3	176	170	215	224	328	342	350	327	302	*
	Restraint not used	3	228	186	179	161	196	189	137	126	61	*
	Restraint use unknown	3	94	82	78	84	100	80	105	56	47	*
	Subtotal	3	555	527	554	604	802	803	816	746	619	*
	Child restraint used	4	15	26	35	38	79	87	92	83	104	*
	Other restraint used	4	248	240	277	353	493	549	563	552	480	*
	Restraint not used	4	244	208	178	179	174	196	134	126	64	*
	Restraint use unknown	4	91	87	76	101	117	123	109	102	60	*
	Subtotal	4	598	561	566	671	863	955	898	863	708	*
	Child restraint used	5	6	10	14	13	22	27	22	30	31	*
	Other restraint used	5	207	266	261	330	487	588	583	592	557	*
	Restraint not used	5	230	184	165	151	201	181	165	119	63	*
	Restraint use unknown	5	128	83	94	103	150	114	114	95	87	*
	Subtotal	5	571	543	534	597	860	910	884	836	738	*
	Child restraint used	0-5	561	608	731	826	1,184	1,454	1,381	1,427	1,372	*
	Other restraint used	0-5	889	914	977	1,219	1,915	2,066	1,985	1,888	1,728	*
	Restraint not used	0-5	1,220	1,002	977	926	1,100	1,020	789	650	376	*
	Restraint use unknown	0-5	455	390	403	438	656	548	563	423	334	*
	Total	0-5	3,125	2,914	3,088	3,409	4,855	5,088	4,718	4,388	3,810	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Illinois	Child restraint used	0-1	2	1	3	2	2	2	3	3	3	2
	Other restraint used	0-1	0	0	1	1	0	0	0	0	0	0
	Restraint not used	0-1	0	1	2	0	2	1	2	3	2	3
	Restraint use unknown	0-1	5	2	1	1	0	0	0	0	0	0
	Subtotal	0-1	7	4	7	4	4	3	5	6	5	5
	Child restraint used	2	1	1	3	1	0	1	0	1	0	1
	Other restraint used	2	0	0	0	0	0	0	0	0	0	0
	Restraint not used	2	1	1	0	1	2	3	0	1	1	1
	Restraint use unknown	2	0	0	1	2	1	1	1	0	0	0
	Subtotal	2	2	2	4	4	3	5	1	2	1	2
	Child restraint used	3	1	2	0	2	0	1	0	0	2	2
	Other restraint used	3	0	1	1	0	0	0	0	0	0	1
	Restraint not used	3	0	1	0	0	0	2	0	2	1	2
	Restraint use unknown	3	1	0	0	1	3	0	0	0	1	0
	Subtotal	3	2	4	1	3	3	3	0	2	4	5
	Child restraint used	4	0	0	0	0	1	3	0	0	0	2
	Other restraint used	4	1	2	1	2	1	2	1	1	2	2
	Restraint not used	4	2	0	1	3	0	1	0	0	1	3
	Restraint use unknown	4	2	0	2	0	0	1	0	1	1	2
	Subtotal	4	5	2	4	5	2	7	1	2	4	9
	Child restraint used	5	0	0	0	0	0	0	1	1	0	0
	Other restraint used	5	0	1	0	0	0	1	0	2	1	0
	Restraint not used	5	2	2	0	1	2	1	0	2	1	0
	Restraint use unknown	5	1	0	2	1	1	2	0	0	0	0
	Subtotal	5	3	3	2	2	3	4	1	5	2	0
	Child restraint used	0-5	4	4	6	5	3	7	5	5	5	7
	Other restraint used	0-5	1	4	3	3	1	3	1	3	3	3
	Restraint not used	0-5	5	5	3	5	6	8	4	8	6	9
	Restraint use unknown	0-5	9	2	6	5	5	4	1	1	2	2
	Total	0-5	19	15	18	18	15	22	11	17	16	21

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Illinois	Child restraint used	0-1	437	409	495	350	219	217	127	221	217	191
	Other restraint used	0-1	167	144	182	163	92	105	62	138	140	125
	Restraint not used	0-1	138	87	102	105	72	68	33	77	53	52
	Restraint use unknown	0-1	291	209	179	113	42	24	12	37	15	20
	Subtotal	0-1	1,033	849	958	731	425	414	234	473	425	388
	Child restraint used	2	199	187	236	222	210	186	106	197	182	166
	Other restraint used	2	184	165	184	201	173	176	87	176	122	116
	Restraint not used	2	121	93	96	110	76	91	50	84	56	43
	Restraint use unknown	2	268	172	168	125	45	29	11	39	35	14
	Subtotal	2	772	617	684	658	504	482	254	496	395	339
	Child restraint used	3	94	138	137	138	168	130	82	126	149	120
	Other restraint used	3	251	240	309	309	264	284	148	234	206	206
	Restraint not used	3	126	87	105	137	95	119	53	107	72	75
	Restraint use unknown	3	275	214	165	128	59	45	17	45	18	29
	Subtotal	3	746	679	716	712	586	578	300	512	445	430
	Child restraint used	4	40	50	60	81	59	57	41	63	74	77
	Other restraint used	4	329	344	372	441	388	348	220	383	357	316
	Restraint not used	4	94	90	113	129	127	114	43	93	55	60
	Restraint use unknown	4	287	228	203	148	75	56	17	64	34	21
	Subtotal	4	750	712	748	799	649	575	321	603	520	474
	Child restraint used	5	23	22	33	31	26	16	9	25	32	29
	Other restraint used	5	321	347	438	458	404	408	267	433	357	335
	Restraint not used	5	138	124	116	103	81	113	57	94	75	44
	Restraint use unknown	5	356	226	187	136	45	48	24	62	47	19
	Subtotal	5	838	719	774	728	556	585	357	614	511	427
	Child restraint used	0-5	793	806	961	822	682	606	526	899	869	767
	Other restraint used	0-5	1,252	1,240	1,485	1,572	1,321	1,321	833	1,504	1,297	1,218
	Restraint not used	0-5	617	481	532	584	451	505	259	504	358	304
	Restraint use unknown	0-5	1,477	1,049	902	650	266	202	84	285	162	126
	Total	0-5	4,139	3,576	3,880	3,628	2,720	2,634	1,702	3,192	2,686	2,415

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Indiana	Child restraint used	0-1	3	1	4	4	1	2	5	2	1	1
	Other restraint used	0-1	1	1	0	0	2	0	0	0	0	1
	Restraint not used	0-1	3	2	2	3	3	1	2	2	2	2
	Restraint use unknown	0-1	0	1	1	0	0	1	1	1	0	1
	Subtotal	0-1	7	5	7	7	6	4	8	5	3	5
	Child restraint used	2	1	1	1	1	1	1	2	0	1	2
	Other restraint used	2	0	0	0	0	0	2	0	0	1	0
	Restraint not used	2	2	2	0	0	1	1	3	0	1	0
	Restraint use unknown	2	0	0	0	0	0	2	0	0	0	0
	Subtotal	2	3	3	1	1	2	6	5	0	3	2
	Child restraint used	3	2	0	0	3	0	0	1	0	2	0
	Other restraint used	3	1	1	0	0	2	2	0	1	0	1
	Restraint not used	3	2	2	2	0	1	0	1	0	2	0
	Subtotal	3	5	3	2	3	3	2	2	1	4	1
	Child restraint used	4	0	0	0	0	0	2	0	0	0	0
	Other restraint used	4	1	0	2	0	2	1	1	1	2	2
	Restraint not used	4	4	2	1	1	2	0	1	0	0	0
	Restraint use unknown	4	0	0	0	1	0	0	0	1	0	0
	Subtotal	4	5	2	3	2	4	3	2	2	2	2
	Child restraint used	5	0	0	0	0	0	0	0	0	0	0
	Other restraint used	5	0	1	0	0	1	1	2	1	0	2
	Restraint not used	5	0	2	0	2	1	2	2	1	2	1
	Subtotal	5	0	3	0	2	2	3	4	2	2	3
	Child restraint used	0-5	6	2	5	8	2	5	8	2	4	3
	Other restraint used	0-5	3	3	2	0	7	6	3	3	3	6
	Restraint not used	0-5	11	10	5	6	8	4	9	3	7	3
	Restraint use unknown	0-5	0	1	1	1	0	3	1	2	0	1
	Total	0-5	20	16	13	15	17	18	21	10	14	13

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Indiana	Child restraint used	0-1	193	186	233	269	305	305	271	297	305	258
	Other restraint used	0-1	50	35	42	44	55	62	38	52	40	34
	Restraint not used	0-1	66	53	66	46	59	46	61	34	31	31
	Restraint use unknown	0-1	15	6	12	10	8	8	8	9	8	8
	Subtotal	0-1	324	280	353	369	427	421	378	392	384	331
	Child restraint used	2	123	125	117	136	152	189	162	156	166	177
	Other restraint used	2	108	72	103	89	78	94	96	86	78	63
	Restraint not used	2	108	82	87	86	80	87	58	59	50	32
	Restraint use unknown	2	9	12	8	14	8	6	9	10	6	5
	Subtotal	2	348	291	315	325	318	376	325	311	300	277
	Child restraint used	3	64	53	48	78	70	92	95	113	108	143
	Other restraint used	3	158	138	156	154	145	189	189	149	153	120
	Restraint not used	3	146	114	123	88	103	82	75	60	59	45
	Restraint use unknown	3	16	14	8	14	12	7	11	6	5	4
	Subtotal	3	384	319	335	334	330	370	370	328	325	312
	Child restraint used	4	17	17	28	31	31	30	42	66	50	71
	Other restraint used	4	193	164	198	219	231	256	245	261	227	211
	Restraint not used	4	161	114	120	109	127	107	89	107	65	64
	Restraint use unknown	4	19	13	6	16	9	16	18	9	9	8
	Subtotal	4	390	308	352	375	398	409	394	443	351	354
	Child restraint used	5	12	9	12	14	13	19	21	19	31	27
	Other restraint used	5	181	177	193	232	236	293	272	313	314	249
	Restraint not used	5	155	126	143	121	128	128	108	101	97	80
	Restraint use unknown	5	21	12	16	20	11	15	20	21	14	8
	Subtotal	5	369	324	364	387	388	455	421	454	456	364
	Child restraint used	0-5	409	390	438	528	571	635	591	651	660	676
	Other restraint used	0-5	690	586	692	738	745	894	840	861	812	677
	Restraint not used	0-5	636	489	539	450	497	450	391	361	302	252
	Restraint use unknown	0-5	80	57	50	74	48	52	66	55	42	33
	Total	0-5	1,815	1,522	1,719	1,790	1,861	2,031	1,888	1,928	1,816	1,638

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Kansas	Child restraint used	0-1	0	1	3	1	0	0	0	1	1	2
	Other restraint used	0-1	1	0	0	2	0	0	0	0	0	0
	Restraint not used	0-1	0	1	0	0	3	0	0	1	3	2
	Restraint use unknown	0-1	1	0	1	0	0	0	0	1	0	0
	Subtotal	0-1	2	2	4	3	3	0	0	3	4	4
	Child restraint used	2	2	0	0	1	1	0	0	0	0	2
	Other restraint used	2	0	0	0	0	0	0	0	0	0	0
	Restraint not used	2	0	1	1	1	3	2	0	0	1	2
	Restraint use unknown	2	0	0	0	1	0	0	1	0	0	0
	Subtotal	2	2	1	1	3	4	2	1	0	1	4
	Child restraint used	3	0	0	0	0	0	0	0	0	1	1
	Other restraint used	3	1	0	0	0	0	0	0	0	1	0
	Restraint not used	3	0	1	0	0	0	1	0	1	0	1
	Restraint use unknown	3	0	0	2	0	0	0	0	0	0	1
	Subtotal	3	1	1	2	0	0	1	0	1	2	3
	Child restraint used	4	0	0	0	0	0	0	0	0	0	1
	Other restraint used	4	0	0	0	0	1	0	1	0	0	0
	Restraint not used	4	1	0	0	0	0	1	0	1	1	1
	Restraint use unknown	4	0	0	0	1	0	0	0	0	0	0
	Subtotal	4	1	0	0	1	1	1	1	1	1	2
	Child restraint used	5	0	0	0	0	0	0	0	0	0	0
	Other restraint used	5	0	0	1	0	0	0	0	0	1	0
	Restraint not used	5	1	1	2	0	2	0	0	2	2	0
	Restraint use unknown	5	0	0	0	0	0	1	1	0	0	1
	Subtotal	5	1	1	3	0	2	1	1	2	3	1
	Child restraint used	0-5	2	1	3	2	1	0	0	1	2	6
	Other restraint used	0-5	2	0	1	2	1	0	1	0	2	0
	Restraint not used	0-5	2	4	3	1	8	4	0	5	7	6
	Restraint use unknown	0-5	1	0	3	2	0	1	2	1	0	2
	Total	0-5	7	5	10	7	10	5	3	7	11	14

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Kansas	Child restraint used	0-1	131	117	103	136	126	141	138	153	141	151
	Other restraint used	0-1	24	25	22	18	14	30	20	22	26	19
	Restraint not used	0-1	32	38	43	21	26	20	35	39	37	28
	Restraint use unknown	0-1	21	26	35	18	7	17	7	5	5	7
	Subtotal	0-1	208	206	203	193	173	208	200	219	209	205
	Child restraint used	2	84	47	44	84	76	56	83	76	72	85
	Other restraint used	2	26	31	39	35	15	40	33	23	24	33
	Restraint not used	2	40	37	46	26	34	41	36	25	32	30
	Restraint use unknown	2	13	28	31	13	5	10	9	4	3	4
	Subtotal	2	163	143	160	158	130	147	161	128	131	152
	Child restraint used	3	59	35	36	68	52	54	50	53	56	67
	Other restraint used	3	45	49	45	40	48	55	55	59	38	44
	Restraint not used	3	51	58	57	26	39	45	52	47	46	30
	Restraint use unknown	3	16	26	23	21	19	3	11	11	10	5
	Subtotal	3	171	168	161	155	158	157	168	170	150	146
	Child restraint used	4	57	13	17	38	21	10	18	17	23	36
	Other restraint used	4	53	74	84	68	96	93	100	106	85	92
	Restraint not used	4	46	64	58	33	46	45	42	32	44	32
	Restraint use unknown	4	11	21	21	16	18	11	14	9	13	8
	Subtotal	4	167	172	180	155	181	159	174	164	165	168
	Child restraint used	5	7	6	5	5	7	4	4	9	7	13
	Other restraint used	5	94	94	94	98	88	114	100	114	115	108
	Restraint not used	5	80	70	59	53	52	54	49	36	58	42
	Restraint use unknown	5	23	15	21	16	16	10	10	8	7	4
	Subtotal	5	204	185	179	172	163	182	163	167	187	167
	Child restraint used	0-5	338	218	205	331	282	265	293	308	299	352
	Other restraint used	0-5	242	273	284	259	261	332	308	324	288	296
	Restraint not used	0-5	249	267	263	159	197	205	214	179	217	162
	Restraint use unknown	0-5	84	116	131	84	65	51	51	37	38	28
	Total	0-5	913	874	883	833	805	853	866	848	842	838

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Maryland	Child restraint used	0-1	2	4	1	1	2	2	1	0	3	3
	Other restraint used	0-1	0	0	0	0	0	0	0	0	0	0
	Restraint not used	0-1	1	1	2	4	1	1	3	1	0	0
	Restraint use unknown	0-1	0	1	0	0	0	0	0	0	0	0
	Subtotal	0-1	3	6	3	5	3	3	4	1	3	3
	Child restraint used	2	0	1	2	1	2	2	0	0	0	0
	Other restraint used	2	0	0	0	1	0	1	0	0	0	0
	Restraint not used	2	0	1	1	0	0	0	3	1	0	0
	Subtotal	2	0	2	3	2	2	3	3	1	0	0
	Child restraint used	3	0	1	0	1	2	0	0	0	0	0
	Other restraint used	3	0	2	0	0	1	1	1	0	0	0
	Restraint not used	3	1	0	1	1	1	2	2	0	0	0
	Restraint use unknown	3	0	0	0	0	0	0	0	0	0	1
	Subtotal	3	1	3	1	2	4	3	3	0	0	1
	Child restraint used	4	0	0	0	0	0	0	0	1	0	0
	Other restraint used	4	1	1	0	0	0	2	1	2	1	0
	Restraint not used	4	2	0	1	0	0	1	0	1	0	0
	Subtotal	4	3	1	1	0	0	3	1	4	1	0
	Child restraint used	5	0	0	0	0	0	0	0	0	0	0
	Other restraint used	5	0	1	0	0	0	1	0	0	1	0
	Restraint not used	5	1	0	2	0	0	0	2	0	2	1
	Restraint use unknown	5	0	0	0	0	1	0	0	0	0	0
	Subtotal	5	1	1	2	0	1	1	2	0	3	1
	Child restraint used	0-5	2	6	3	3	6	4	1	1	3	3
	Other restraint used	0-5	1	4	0	1	1	5	2	2	2	0
	Restraint not used	0-5	5	2	7	5	2	4	10	3	2	1
	Restraint use unknown	0-5	0	1	0	0	1	0	0	0	0	1
	Total	0-5	8	13	10	9	10	13	13	6	7	5

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Maryland	Child restraint used	0-1	427	437	489	305	389	375	373	353	334	352
	Other restraint used	0-1	92	70	103	139	136	130	105	107	67	113
	Restraint not used	0-1	92	60	71	116	98	107	58	60	24	41
	Restraint use unknown	0-1	30	40	58	8	15	9	23	8	14	9
	Subtotal	0-1	641	607	721	568	638	621	559	528	439	515
	Child restraint used	2	217	236	225	194	190	192	199	199	191	181
	Other restraint used	2	158	123	126	85	90	78	79	83	57	49
	Restraint not used	2	93	55	68	46	46	57	46	29	29	23
	Restraint use unknown	2	30	37	42	8	12	4	9	14	6	10
	Subtotal	2	498	451	461	333	338	331	333	325	283	263
	Child restraint used	3	99	95	181	116	148	142	118	135	130	135
	Other restraint used	3	257	250	228	131	186	173	149	149	99	98
	Restraint not used	3	91	55	57	65	64	61	52	32	18	24
	Restraint use unknown	3	28	32	42	9	16	14	13	11	10	16
	Subtotal	3	475	432	508	321	414	390	332	327	257	273
	Child restraint used	4	46	38	68	58	65	72	78	58	79	86
	Other restraint used	4	334	264	299	198	238	242	243	201	184	175
	Restraint not used	4	98	59	82	55	70	73	66	54	31	35
	Restraint use unknown	4	29	40	39	9	15	14	23	16	10	8
	Subtotal	4	507	401	488	320	388	401	410	329	304	304
	Child restraint used	5	7	12	19	20	13	31	30	27	30	44
	Other restraint used	5	311	278	318	211	278	254	284	250	224	203
	Restraint not used	5	99	74	81	61	77	74	71	48	39	34
	Restraint use unknown	5	30	39	35	13	14	14	16	12	11	6
	Subtotal	5	447	403	453	305	382	373	401	337	304	287
	Child restraint used	0-5	796	818	982	693	805	812	798	772	764	798
	Other restraint used	0-5	1,152	985	1,074	764	928	877	860	790	631	638
	Restraint not used	0-5	473	303	359	343	355	372	293	223	141	157
	Restraint use unknown	0-5	147	188	216	47	72	55	84	61	51	49
	Total	0-5	2,568	2,294	2,631	1,847	2,160	2,116	2,035	1,846	1,587	1,642

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Michigan	Child restraint used	0-1	4	6	4	2	1	3	8	1	2	4
	Other restraint used	0-1	0	1	1	1	3	0	0	0	0	0
	Restraint not used	0-1	6	4	0	2	5	4	3	1	3	1
	Restraint use unknown	0-1	1	1	1	2	0	0	1	0	0	0
	Subtotal	0-1	11	12	6	7	9	7	12	2	5	5
	Child restraint used	2	1	0	1	0	2	5	1	1	1	3
	Other restraint used	2	0	0	0	4	0	2	1	2	0	0
	Restraint not used	2	0	1	1	1	3	3	1	1	0	1
	Restraint use unknown	2	0	0	0	0	1	0	0	0	1	0
	Subtotal	2	1	1	2	5	6	10	3	4	2	4
	Child restraint used	3	0	0	1	0	0	1	1	2	3	1
	Other restraint used	3	0	1	2	0	2	2	3	2	1	1
	Restraint not used	3	1	1	1	0	1	2	4	1	0	2
	Restraint use unknown	3	0	1	0	1	1	0	1	0	0	0
	Subtotal	3	1	3	4	1	4	5	9	5	4	4
	Child restraint used	4	0	0	0	0	0	1	0	1	0	0
	Other restraint used	4	0	3	1	0	3	1	5	0	1	1
	Restraint not used	4	1	2	3	2	4	0	2	1	1	1
	Restraint use unknown	4	1	0	1	0	0	0	0	0	1	0
	Subtotal	4	2	5	5	2	7	2	7	2	3	2
	Child restraint used	5	0	0	0	0	0	1	0	0	0	0
	Other restraint used	5	3	2	1	0	0	3	1	0	0	1
	Restraint not used	5	2	3	0	2	1	2	0	1	0	2
	Restraint use unknown	5	0	0	1	0	0	1	0	1	0	0
	Subtotal	5	5	5	2	2	1	7	1	2	0	3
	Child restraint used	0-5	5	6	6	2	3	11	10	5	6	8
	Other restraint used	0-5	3	7	5	5	8	8	10	4	2	3
	Restraint not used	0-5	10	11	5	7	14	11	10	5	4	7
	Restraint use unknown	0-5	2	2	3	3	2	1	2	1	2	0
	Total	0-5	20	26	19	17	27	31	32	15	14	18

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Michigan	Child restraint used	0-1	350	295	340	411	462	473	475	403	392	410
	Other restraint used	0-1	268	232	81	93	119	99	106	87	103	95
	Restraint not used	0-1	170	112	79	74	84	103	72	52	39	61
	Restraint use unknown	0-1	49	71	17	23	13	20	20	17	26	21
	Subtotal	0-1	837	710	517	601	678	695	673	559	560	587
	Child restraint used	2	107	148	108	138	160	169	165	137	150	169
	Other restraint used	2	298	286	131	144	148	149	148	85	85	105
	Restraint not used	2	147	121	75	73	83	80	57	49	50	33
	Restraint use unknown	2	49	52	10	15	15	15	16	8	14	11
	Subtotal	2	601	607	324	370	406	413	386	279	299	318
	Child restraint used	3	68	62	61	83	102	125	119	84	112	118
	Other restraint used	3	386	350	182	290	287	307	293	230	219	174
	Restraint not used	3	191	169	87	109	95	121	100	61	57	63
	Restraint use unknown	3	31	54	11	17	20	23	17	12	21	10
	Subtotal	3	676	635	341	499	504	576	529	387	409	365
	Child restraint used	4	10	15	26	27	45	45	44	55	40	67
	Other restraint used	4	462	463	239	340	436	425	426	347	319	301
	Restraint not used	4	186	145	80	84	114	98	77	66	61	57
	Restraint use unknown	4	37	37	14	10	19	21	22	12	11	20
	Subtotal	4	695	660	359	461	614	589	569	480	431	445
	Child restraint used	5	13	11	7	12	10	20	24	16	16	26
	Other restraint used	5	437	440	243	367	374	512	470	378	403	346
	Restraint not used	5	210	166	108	95	98	149	117	76	69	60
	Restraint use unknown	5	51	40	14	18	23	29	18	23	18	16
	Subtotal	5	711	657	372	492	505	710	629	493	506	448
	Child restraint used	0-5	548	531	542	671	779	832	827	695	710	790
	Other restraint used	0-5	1,851	1,771	876	1,234	1,364	1,492	1,443	1,127	1,129	1,021
	Restraint not used	0-5	904	713	429	435	474	551	423	304	276	274
	Restraint use unknown	0-5	217	254	66	83	90	108	93	72	90	78
	Total	0-5	3,520	3,269	1,913	2,423	2,707	2,983	2,786	2,198	2,205	2,163

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Missouri	Child restraint used	0-1	4	3	3	6	1	1	4	5	6	3
	Other restraint used	0-1	1	0	0	1	1	0	2	2	0	0
	Restraint not used	0-1	4	5	3	1	1	0	3	2	4	3
	Restraint use unknown	0-1	1	1	0	0	0	0	0	0	1	1
	Subtotal	0-1	10	9	6	8	3	1	9	9	11	7
	Child restraint used	2	1	0	2	1	0	1	0	1	2	0
	Other restraint used	2	0	0	1	0	0	1	1	1	0	0
	Restraint not used	2	3	2	0	0	6	1	0	2	0	1
	Restraint use unknown	2	1	0	1	0	0	1	0	1	1	0
	Subtotal	2	5	2	4	1	6	4	1	5	3	1
	Child restraint used	3	0	0	1	0	0	0	1	1	1	1
	Other restraint used	3	0	0	0	0	1	0	0	0	1	0
	Restraint not used	3	0	1	1	1	1	4	1	0	2	1
	Restraint use unknown	3	1	0	0	0	0	0	1	1	0	0
	Subtotal	3	1	1	2	1	2	4	3	2	4	2
	Child restraint used	4	0	0	0	0	0	0	0	0	0	0
	Other restraint used	4	1	1	0	0	1	0	1	1	2	0
	Restraint not used	4	0	0	2	0	1	2	4	1	2	1
	Restraint use unknown	4	0	0	0	1	0	0	1	0	0	0
	Subtotal	4	1	1	2	1	2	2	6	2	4	1
	Child restraint used	5	0	0	0	0	0	0	0	0	0	0
	Other restraint used	5	1	0	1	1	1	0	3	2	1	1
	Restraint not used	5	7	1	2	1	2	2	1	3	4	1
	Restraint use unknown	5	1	0	0	0	0	2	1	0	1	0
	Subtotal	5	9	1	3	2	3	4	5	5	6	2
	Child restraint used	0-5	5	3	6	7	1	2	5	7	9	4
	Other restraint used	0-5	3	1	2	2	4	1	7	6	4	1
	Restraint not used	0-5	14	9	8	3	11	9	9	8	12	7
	Restraint use unknown	0-5	4	1	1	1	0	3	3	2	3	1
	Total	0-5	26	14	17	13	16	15	24	23	28	13

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Missouri	Child restraint used	0-1	234	205	246	328	387	358	424	462	435	413
	Other restraint used	0-1	145	120	135	82	84	83	76	70	52	60
	Restraint not used	0-1	137	111	113	113	119	87	71	62	49	54
	Restraint use unknown	0-1	34	20	27	32	29	30	33	47	21	19
	Subtotal	0-1	550	456	521	555	619	558	604	641	557	546
	Child restraint used	2	68	68	77	133	149	144	158	150	163	180
	Other restraint used	2	115	131	105	113	123	86	86	77	81	51
	Restraint not used	2	113	91	83	107	92	83	73	51	63	45
	Restraint use unknown	2	10	23	19	22	34	22	25	28	26	20
	Subtotal	2	306	313	284	375	398	335	342	306	333	296
	Child restraint used	3	34	32	50	59	92	75	98	130	116	126
	Other restraint used	3	160	163	162	170	197	180	172	171	138	130
	Restraint not used	3	163	100	102	127	121	112	105	69	65	54
	Restraint use unknown	3	32	19	38	41	28	32	32	32	24	20
	Subtotal	3	389	314	352	397	438	399	407	402	343	330
	Child restraint used	4	16	14	20	28	43	34	33	52	48	46
	Other restraint used	4	184	198	200	220	259	271	274	229	262	218
	Restraint not used	4	164	129	123	126	131	114	100	100	72	76
	Restraint use unknown	4	28	26	27	33	50	43	49	42	29	26
	Subtotal	4	392	367	370	407	483	462	456	423	411	366
	Child restraint used	5	8	4	7	16	7	8	12	14	10	16
	Other restraint used	5	177	164	203	244	259	285	287	316	276	271
	Restraint not used	5	166	129	128	136	135	140	113	107	84	70
	Restraint use unknown	5	29	25	31	39	38	53	65	38	40	25
	Subtotal	5	380	322	369	435	439	486	477	475	410	382
	Child restraint used	0-5	360	323	400	564	678	619	725	808	772	781
	Other restraint used	0-5	781	776	805	829	922	905	895	863	809	730
	Restraint not used	0-5	743	560	549	609	598	536	462	389	333	299
	Restraint use unknown	0-5	133	113	142	167	179	180	204	187	140	110
	Total	0-5	2,017	1,772	1,896	2,169	2,377	2,240	2,286	2,247	2,054	1,920

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
New Mexico	Child restraint used	0-1	0	0	0	0	0	0	1	2	0	1
	Other restraint used	0-1	0	0	0	0	1	0	0	0	0	0
	Restraint not used	0-1	2	0	2	3	4	1	1	1	1	1
	Restraint use unknown	0-1	0	1	1	0	1	2	1	1	0	0
	Subtotal	0-1	2	1	3	3	6	3	3	4	1	2
	Child restraint used	2	0	0	0	0	0	0	1	0	0	0
	Other restraint used	2	1	0	0	0	0	0	0	2	0	0
	Restraint not used	2	1	0	2	0	0	0	0	0	0	1
	Restraint use unknown	2	0	1	0	0	0	0	0	0	0	0
	Subtotal	2	2	1	2	0	0	0	1	2	0	1
	Child restraint used	3	0	0	0	0	1	0	0	3	0	0
	Other restraint used	3	0	0	0	0	0	0	0	1	0	0
	Restraint not used	3	1	1	2	1	0	2	4	1	1	0
	Restraint use unknown	3	0	0	1	1	3	0	0	0	0	0
	Subtotal	3	1	1	3	2	4	2	4	5	1	0
	Child restraint used	4	0	0	0	0	0	0	0	0	0	0
	Other restraint used	4	0	0	1	0	1	1	0	2	0	0
	Restraint not used	4	0	0	1	0	1	5	0	0	0	0
	Restraint use unknown	4	2	0	1	1	0	0	1	0	0	0
	Subtotal	4	2	0	3	1	2	6	1	2	0	0
	Child restraint used	5	0	0	0	0	1	0	0	0	0	0
	Other restraint used	5	1	0	1	0	0	1	0	0	1	1
	Restraint not used	5	0	2	0	1	1	0	1	1	1	1
	Subtotal	5	1	2	1	1	2	1	1	1	2	2
	Child restraint used	0-5	0	0	0	0	2	0	2	5	0	1
	Other restraint used	0-5	2	0	2	0	2	2	0	5	1	1
	Restraint not used	0-5	4	3	7	5	6	8	6	3	3	3
	Restraint use unknown	0-5	2	2	3	2	4	2	2	1	0	0
	Total	0-5	8	5	12	7	14	12	10	14	4	5

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
New Mexico	Child restraint used	0-1	78	77	72	48	95	95	91	107	82	90
	Other restraint used	0-1	31	29	34	33	26	31	26	29	24	22
	Restraint not used	0-1	27	20	23	16	21	13	18	17	13	7
	Restraint use unknown	0-1	8	8	25	43	16	43	9	8	2	6
	Subtotal	0-1	144	134	154	140	158	182	144	161	121	125
	Child restraint used	2	31	37	36	18	43	60	77	63	74	58
	Other restraint used	2	41	47	53	41	57	40	45	32	38	27
	Restraint not used	2	34	22	34	26	22	20	16	17	19	4
	Restraint use unknown	2	5	4	26	36	19	30	11	6	3	2
	Subtotal	2	111	110	149	121	141	150	149	118	134	91
	Child restraint used	3	26	25	33	16	30	42	50	54	52	40
	Other restraint used	3	79	67	82	85	90	91	86	74	76	70
	Restraint not used	3	33	39	30	36	24	27	33	21	15	11
	Restraint use unknown	3	10	4	9	21	15	24	9	10	2	2
	Subtotal	3	148	135	154	158	159	184	178	159	145	123
	Child restraint used	4	18	16	11	11	19	19	21	29	31	18
	Other restraint used	4	93	89	92	95	117	130	113	106	92	98
	Restraint not used	4	35	45	32	39	36	32	23	22	24	18
	Restraint use unknown	4	5	9	9	18	10	13	9	3	1	2
	Subtotal	4	151	159	144	163	182	194	166	160	148	136
	Child restraint used	5	8	5	3	6	4	7	10	14	13	22
	Other restraint used	5	103	93	112	102	128	159	141	129	109	103
	Restraint not used	5	43	33	44	37	32	33	26	39	18	16
	Restraint use unknown	5	7	4	5	9	10	10	7	9	3	4
	Subtotal	5	161	135	164	154	174	209	184	191	143	145
	Child restraint used	0-5	161	160	155	99	191	223	249	267	252	228
	Other restraint used	0-5	347	325	373	356	418	451	411	370	339	320
	Restraint not used	0-5	172	159	163	154	135	125	116	116	89	56
	Restraint use unknown	0-5	35	29	74	127	70	120	45	36	11	16
	Total	0-5	715	673	765	736	814	919	821	789	691	620

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
North Carolina	Child restraint used	0-1	*	*	0	3	2	3	3	3	2	6
	Other restraint used	0-1	*	*	0	0	1	2	0	0	0	0
	Restraint not used	0-1	*	*	5	2	2	1	1	0	0	2
	Restraint use unknown	0-1	*	*	0	0	1	0	0	0	1	0
	Subtotal	0-1	*	*	5	5	6	6	4	3	3	8
	Child restraint used	2	*	*	1	1	1	1	1	2	0	1
	Other restraint used	2	*	*	0	0	2	1	2	0	1	0
	Restraint not used	2	*	*	3	2	2	1	2	0	0	0
	Restraint use unknown	2	*	*	0	1	0	0	0	0	1	0
	Subtotal	2	*	*	4	4	5	3	5	2	2	1
	Child restraint used	3	*	*	0	1	1	0	2	1	1	1
	Other restraint used	3	*	*	1	0	1	2	1	2	1	1
	Restraint not used	3	*	*	3	3	2	3	1	4	1	0
	Restraint use unknown	3	*	*	0	1	0	0	0	0	0	0
	Subtotal	3	*	*	4	5	4	5	4	7	3	2
	Child restraint used	4	*	*	0	0	0	0	0	1	1	1
	Other restraint used	4	*	*	1	0	1	2	1	1	1	2
	Restraint not used	4	*	*	2	6	5	1	3	1	2	1
	Restraint use unknown	4	*	*	0	0	0	1	0	4	0	0
	Subtotal	4	*	*	3	6	6	4	4	7	4	4
	Child restraint used	5	*	*	0	0	0	0	0	0	0	0
	Other restraint used	5	*	*	0	1	1	1	4	1	2	0
	Restraint not used	5	*	*	2	3	3	1	1	2	1	2
	Restraint use unknown	5	*	*	0	1	1	0	0	1	1	1
	Subtotal	5	*	*	2	5	5	2	5	4	4	3
	Child restraint used	0-5	*	*	2	9	8	8	15	9	7	11
	Other restraint used	0-5	*	*	2	3	7	9	8	4	6	5
	Restraint not used	0-5	*	*	16	23	14	11	11	9	7	5
	Restraint use unknown	0-5	*	*	0	10	4	1	2	6	5	5
	Total	0-5	*	*	20	45	33	29	36	28	25	26

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
North Carolina	Child restraint used	0-1	*	*	343	367	390	423	443	418	448	461
	Other restraint used	0-1	*	*	72	70	112	90	127	87	81	86
	Restraint not used	0-1	*	*	71	89	65	61	43	48	47	41
	Restraint use unknown	0-1	*	*	10	13	15	13	12	17	17	13
	Subtotal	0-1	*	*	496	539	582	587	625	570	593	601
	Child restraint used	2	*	*	255	283	289	368	391	425	393	403
	Other restraint used	2	*	*	194	199	199	213	185	142	159	145
	Restraint not used	2	*	*	105	94	73	76	65	64	51	41
	Restraint use unknown	2	*	*	13	19	18	22	31	14	23	22
	Subtotal	2	*	*	567	595	579	679	672	645	626	611
	Child restraint used	3	*	*	97	131	174	216	266	299	302	307
	Other restraint used	3	*	*	379	447	486	441	362	295	297	238
	Restraint not used	3	*	*	132	124	106	90	78	67	73	67
	Restraint use unknown	3	*	*	25	23	18	26	29	21	15	18
	Subtotal	3	*	*	633	725	784	773	735	682	687	630
	Child restraint used	4	*	*	49	70	63	74	106	133	126	162
	Other restraint used	4	*	*	473	570	584	652	600	594	543	542
	Restraint not used	4	*	*	134	132	108	121	101	82	78	58
	Restraint use unknown	4	*	*	28	34	24	37	23	20	29	20
	Subtotal	4	*	*	684	806	779	884	830	829	776	782
	Child restraint used	5	*	*	13	22	17	22	35	42	36	56
	Other restraint used	5	*	*	419	490	572	688	706	685	673	663
	Restraint not used	5	*	*	152	127	119	115	95	79	84	66
	Restraint use unknown	5	*	*	29	34	22	36	18	29	26	24
	Subtotal	5	*	*	613	673	730	861	854	835	819	809
	Child restraint used	0-5	*	*	979	1,158	1,211	1,433	1,511	1,585	1,553	1,658
	Other restraint used	0-5	*	*	1,868	2,106	2,381	2,509	2,383	2,231	2,157	2,069
	Restraint not used	0-5	*	*	739	699	591	564	495	439	430	374
	Restraint use unknown	0-5	*	*	212	218	195	223	239	210	202	197
	Total	0-5	*	*	3,798	4,181	4,378	4,729	4,628	4,465	4,342	4,298

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Ohio	Child restraint used	0-1	4	3	3	8	3	6	10	3	7	5
	Other restraint used	0-1	2	0	0	1	0	0	0	0	0	1
	Restraint not used	0-1	3	1	3	2	1	0	3	1	1	1
	Restraint use unknown	0-1	0	0	0	0	0	0	0	0	1	0
	Subtotal	0-1	9	4	6	11	4	6	13	4	9	7
	Child restraint used	2	1	1	2	0	1	2	0	1	2	1
	Other restraint used	2	1	1	1	0	0	0	0	2	0	1
	Restraint not used	2	1	3	0	2	0	2	0	0	0	3
	Subtotal	2	3	5	3	2	1	4	0	3	2	5
	Child restraint used	3	0	0	0	0	0	1	0	1	0	0
	Other restraint used	3	0	0	1	1	2	1	1	2	1	0
	Restraint not used	3	3	3	5	2	2	0	1	1	2	0
	Restraint use unknown	3	0	1	0	0	0	0	0	0	1	0
	Subtotal	3	3	4	6	3	4	2	2	4	4	0
	Child restraint used	4	1	0	0	0	0	0	2	1	0	0
	Other restraint used	4	1	2	2	1	0	2	0	3	1	0
	Restraint not used	4	2	3	0	2	2	1	1	1	2	0
	Restraint use unknown	4	0	0	1	0	0	0	0	1	0	0
	Subtotal	4	4	5	3	3	2	3	3	6	3	0
	Child restraint used	5	0	0	0	0	1	0	0	0	0	0
	Other restraint used	5	1	2	1	2	0	1	1	4	3	0
	Restraint not used	5	2	1	2	4	3	0	1	4	3	0
	Subtotal	5	3	3	3	6	4	1	2	8	6	0
	Child restraint used	0-5	2	3	4	2	4	5	6	4	3	4
	Other restraint used	0-5	5	5	5	5	2	4	2	11	5	2
	Restraint not used	0-5	9	10	7	11	8	3	4	7	7	3
	Restraint use unknown	0-5	0	1	1	0	0	0	0	1	2	0
	Total	0-5	16	19	17	18	14	12	12	23	17	9

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Ohio	Child restraint used	0-1	1,257	1,315	1,448	1,525	1,651	1,742	1,865	1,906	1,878	1,857
	Other restraint used	0-1	300	283	295	313	284	221	231	226	237	191
	Restraint not used	0-1	263	206	181	170	147	123	93	89	85	74
	Restraint use unknown	0-1	137	108	103	92	87	89	96	67	64	32
	Subtotal	0-1	1,957	1,912	2,027	2,100	2,169	2,175	2,285	2,288	2,264	2,154
	Child restraint used	2	322	417	443	495	614	674	691	710	754	715
	Other restraint used	2	350	399	408	404	357	365	343	305	243	211
	Restraint not used	2	205	203	197	160	123	91	103	86	87	53
	Restraint use unknown	2	70	85	77	83	64	74	58	48	44	32
	Subtotal	2	947	1,104	1,125	1,142	1,158	1,204	1,195	1,149	1,128	1,011
	Child restraint used	3	165	202	249	315	368	442	468	476	519	495
	Other restraint used	3	475	559	593	606	592	600	555	500	470	432
	Restraint not used	3	269	203	213	250	192	156	128	108	113	68
	Restraint use unknown	3	81	78	91	91	92	70	70	62	62	41
	Subtotal	3	990	1,042	1,146	1,262	1,244	1,268	1,221	1,146	1,164	1,036
	Child restraint used	4	72	63	89	89	147	151	197	241	221	241
	Other restraint used	4	646	637	681	836	921	904	889	853	728	780
	Restraint not used	4	286	258	238	214	216	175	153	129	106	84
	Restraint use unknown	4	97	102	93	90	98	80	97	86	84	55
	Subtotal	4	1,101	1,060	1,101	1,229	1,382	1,310	1,336	1,309	1,139	1,160
	Child restraint used	5	20	22	37	39	45	50	57	70	71	99
	Other restraint used	5	538	653	755	825	881	948	995	950	914	830
	Restraint not used	5	275	269	237	275	215	217	190	146	147	117
	Restraint use unknown	5	79	84	94	74	99	84	94	95	66	65
	Subtotal	5	912	1,028	1,123	1,213	1,240	1,299	1,336	1,261	1,198	1,111
	Child restraint used	0-5	1,112	1,300	1,482	1,657	1,984	2,176	2,300	2,411	2,469	2,427
	Other restraint used	0-5	2,201	2,442	2,632	2,867	2,938	2,956	2,921	2,743	2,484	2,365
	Restraint not used	0-5	1,180	1,045	984	994	821	709	628	517	503	366
	Restraint use unknown	0-5	392	407	405	384	401	355	380	319	294	208
	Total	0-5	4,885	5,194	5,503	5,902	6,144	6,196	6,229	5,990	5,750	5,366

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Pennsylvania	Child restraint used	0-1	1	2	3	4	3	7	2	4	3	3
	Other restraint used	0-1	1	0	0	0	1	1	1	0	0	0
	Restraint not used	0-1	0	1	2	3	4	0	1	3	0	1
	Restraint use unknown	0-1	1	0	0	1	1	0	0	0	1	0
	Subtotal	0-1	3	3	5	8	9	8	4	7	4	4
	Child restraint used	2	1	1	0	0	0	2	1	0	0	2
	Other restraint used	2	1	0	0	0	0	1	0	0	0	0
	Restraint not used	2	0	2	0	3	4	1	1	2	0	2
	Restraint use unknown	2	0	1	0	0	0	1	1	1	0	0
	Subtotal	2	2	4	0	3	4	5	3	3	0	4
	Child restraint used	3	0	0	2	1	1	0	0	1	0	0
	Other restraint used	3	1	1	1	0	1	1	0	0	0	1
	Restraint not used	3	3	1	0	0	1	2	1	4	0	0
	Restraint use unknown	3	0	0	0	1	0	0	0	0	1	1
	Subtotal	3	4	2	3	2	3	3	1	5	1	2
	Child restraint used	4	1	0	3	0	1	0	1	0	0	0
	Other restraint used	4	0	1	1	1	3	1	1	0	2	0
	Restraint not used	4	1	0	3	1	0	3	3	2	1	0
	Restraint use unknown	4	1	1	0	0	0	0	0	0	0	1
	Subtotal	4	3	2	7	2	4	4	5	2	3	1
	Child restraint used	5	0	0	0	0	0	0	1	0	1	0
	Other restraint used	5	0	0	0	0	1	2	1	0	0	2
	Restraint not used	5	1	3	2	0	1	0	0	0	1	0
	Restraint use unknown	5	3	0	0	2	0	0	0	0	2	0
	Subtotal	5	4	3	2	2	2	2	2	0	4	2
	Child restraint used	0-5	3	3	8	5	5	9	5	5	4	5
	Other restraint used	0-5	3	2	2	1	6	6	3	0	2	3
	Restraint not used	0-5	5	7	7	7	10	6	6	11	2	3
	Restraint use unknown	0-5	5	2	0	4	1	1	1	1	4	2
	Total	0-5	16	14	17	17	22	22	15	17	12	13

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Pennsylvania	Child restraint used	0-1	465	482	500	496	506	519	535	519	544	511
	Other restraint used	0-1	84	81	55	61	45	45	35	35	42	23
	Restraint not used	0-1	124	91	93	60	72	48	41	49	40	37
	Restraint use unknown	0-1	141	89	122	101	106	130	103	96	99	113
	Subtotal	0-1	814	743	770	718	729	742	714	699	725	684
	Child restraint used	2	157	171	189	210	204	244	224	239	237	225
	Other restraint used	2	134	129	142	84	72	72	76	50	43	57
	Restraint not used	2	104	99	91	64	54	68	43	21	33	31
	Restraint use unknown	2	89	72	94	90	78	70	64	74	69	75
	Subtotal	2	484	471	516	448	408	454	407	384	382	388
	Child restraint used	3	111	109	103	136	174	198	204	216	190	209
	Other restraint used	3	247	212	239	213	174	180	152	139	130	113
	Restraint not used	3	152	108	107	86	79	82	70	73	66	55
	Restraint use unknown	3	116	86	102	114	99	104	109	90	98	102
	Subtotal	3	626	515	551	549	526	564	535	518	484	479
	Child restraint used	4	39	41	44	74	65	93	82	82	93	111
	Other restraint used	4	299	334	311	320	324	354	378	299	261	255
	Restraint not used	4	169	123	114	112	92	101	71	82	85	78
	Restraint use unknown	4	143	77	143	138	153	120	133	130	128	114
	Subtotal	4	650	575	612	644	634	668	664	593	567	558
	Child restraint used	5	12	16	13	19	21	18	27	32	27	46
	Other restraint used	5	322	360	323	350	360	384	394	362	347	350
	Restraint not used	5	185	111	137	123	121	108	104	100	89	80
	Restraint use unknown	5	122	104	113	114	136	148	124	117	125	121
	Subtotal	5	641	591	586	606	638	658	649	611	588	597
	Child restraint used	0-5	784	819	849	935	970	1,072	1,072	1,088	1,091	1,102
	Other restraint used	0-5	1,086	1,116	1,070	1,028	975	1,035	1,035	885	823	798
	Restraint not used	0-5	734	532	542	445	418	407	329	325	313	281
	Restraint use unknown	0-5	611	428	574	557	572	572	533	507	519	525
	Total	0-5	3,215	2,895	3,035	2,965	2,935	3,086	2,969	2,805	2,746	2,706

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Texas	Child restraint used	0-1	5	9	8	4	13	10	11	16	9	21
	Other restraint used	0-1	1	2	1	2	1	1	1	2	1	2
	Restraint not used	0-1	19	19	21	20	23	12	17	16	15	13
	Restraint use unknown	0-1	3	2	1	2	2	3	1	1	2	2
	Subtotal	0-1	28	32	31	28	39	26	30	35	27	38
	Child restraint used	2	2	1	6	1	3	1	1	4	4	4
	Other restraint used	2	1	3	1	0	1	2	5	0	1	1
	Restraint not used	2	7	8	8	12	7	7	5	2	6	7
	Restraint use unknown	2	0	0	1	1	0	0	2	0	1	1
	Subtotal	2	10	12	16	14	11	10	13	6	12	13
	Child restraint used	3	0	2	0	0	1	0	0	0	1	3
	Other restraint used	3	0	1	5	4	1	3	2	0	1	1
	Restraint not used	3	10	9	6	9	5	3	12	9	8	6
	Restraint use unknown	3	0	1	0	1	1	0	1	1	2	0
	Subtotal	3	10	13	11	14	8	6	15	10	12	10
	Child restraint used	4	0	0	0	0	0	0	0	2	0	1
	Other restraint used	4	1	2	4	2	2	3	3	7	0	8
	Restraint not used	4	5	10	3	2	7	8	6	9	12	7
	Restraint use unknown	4	0	1	0	0	5	0	1	2	0	1
	Subtotal	4	6	13	7	4	14	11	10	20	12	17
	Child restraint used	5	0	0	0	0	0	0	0	0	0	1
	Other restraint used	5	0	2	2	0	2	1	4	2	6	7
	Restraint not used	5	13	3	7	9	3	6	4	3	9	7
	Restraint use unknown	5	1	1	0	0	0	0	1	2	2	2
	Subtotal	5	14	6	9	9	5	7	9	7	17	17
	Child restraint used	0-5	7	12	14	5	17	11	12	22	14	30
	Other restraint used	0-5	3	10	13	8	7	10	15	11	9	19
	Restraint not used	0-5	54	49	45	52	45	36	44	39	50	40
	Restraint use unknown	0-5	4	5	2	4	8	3	6	6	7	6
	Total	0-5	68	76	74	69	77	60	77	78	80	95

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Texas	Child restraint used	0-1	1,305	1,278	1,449	1,678	1,898	2,172	2,542	2,556	2,731	2,731
	Other restraint used	0-1	377	319	333	411	454	592	582	506	488	545
	Restraint not used	0-1	745	623	659	643	693	696	642	578	548	482
	Restraint use unknown	0-1	86	85	80	82	85	103	125	127	149	135
	Subtotal	0-1	2,513	2,305	2,521	2,814	3,130	3,563	3,891	3,767	3,916	3,893
	Child restraint used	2	348	373	444	526	624	716	801	888	977	1,033
	Other restraint used	2	624	664	738	743	854	873	977	837	838	791
	Restraint not used	2	543	458	517	455	586	527	457	410	366	335
	Restraint use unknown	2	62	59	64	58	59	89	96	96	88	102
	Subtotal	2	1,577	1,554	1,763	1,782	2,123	2,205	2,331	2,231	2,269	2,261
	Child restraint used	3	156	193	199	244	273	333	387	428	485	563
	Other restraint used	3	892	967	1,078	1,181	1,300	1,513	1,505	1,421	1,339	1,339
	Restraint not used	3	552	571	508	486	568	555	566	472	398	357
	Restraint use unknown	3	53	69	75	64	61	87	115	120	132	132
	Subtotal	3	1,653	1,800	1,860	1,975	2,202	2,488	2,573	2,441	2,354	2,391
	Child restraint used	4	73	68	77	72	109	130	166	184	205	238
	Other restraint used	4	1,036	1,061	1,287	1,319	1,529	1,680	1,866	1,767	1,704	1,753
	Restraint not used	4	610	528	557	519	563	659	615	506	482	426
	Restraint use unknown	4	84	58	74	71	71	98	145	134	140	162
	Subtotal	4	1,803	1,715	1,995	1,981	2,272	2,567	2,792	2,591	2,531	2,579
	Child restraint used	5	28	25	40	43	31	45	57	69	73	88
	Other restraint used	5	976	1,118	1,234	1,293	1,498	1,662	1,858	1,732	1,730	1,646
	Restraint not used	5	581	489	569	522	605	605	611	559	476	396
	Restraint use unknown	5	74	71	77	76	85	112	130	129	142	152
	Subtotal	5	1,659	1,703	1,920	1,934	2,219	2,424	2,656	2,489	2,421	2,282
	Child restraint used	0-5	1,910	1,937	2,209	2,563	2,935	3,396	3,953	4,125	4,471	4,653
	Other restraint used	0-5	3,905	4,129	4,670	4,947	5,635	6,320	6,788	6,263	6,099	6,074
	Restraint not used	0-5	3,031	2,669	2,810	2,625	3,015	3,042	2,891	2,525	2,270	1,996
	Restraint use unknown	0-5	359	342	370	351	361	489	611	606	651	683
	Total	0-5	9,205	9,077	10,059	10,486	11,946	13,247	14,243	13,519	13,491	13,406

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Utah	Child restraint used	0-1	0	1	0	0	2	2	0	1	3	2
	Other restraint used	0-1	1	0	0	0	0	0	0	0	0	0
	Restraint not used	0-1	3	2	3	1	1	2	2	1	0	0
	Restraint use unknown	0-1	0	0	0	0	1	0	0	0	1	0
	Subtotal	0-1	4	3	3	1	4	4	2	2	4	2
	Child restraint used	2	0	0	0	0	0	1	0	0	0	0
	Other restraint used	2	2	0	0	0	1	1	0	0	0	0
	Restraint not used	2	0	1	1	0	1	0	2	2	0	0
	Restraint use unknown	2	0	0	1	0	0	1	0	0	1	1
	Subtotal	2	2	1	2	0	2	3	2	2	1	1
	Child restraint used	3	0	0	0	0	0	0	1	0	0	1
	Other restraint used	3	0	0	0	0	0	0	1	1	0	0
	Restraint not used	3	0	0	0	0	1	1	3	0	0	0
	Subtotal	3	0	0	0	0	1	1	5	1	0	1
	Child restraint used	4	0	0	0	0	0	0	0	0	0	0
	Other restraint used	4	0	0	0	0	0	0	2	0	2	1
	Restraint not used	4	0	1	1	0	2	0	0	2	2	0
	Subtotal	4	0	1	1	0	2	0	2	2	4	1
	Child restraint used	5	0	0	0	0	0	0	0	0	0	0
	Other restraint used	5	0	0	0	0	0	0	2	0	1	1
	Restraint not used	5	1	0	0	0	0	0	0	0	2	0
	Subtotal	5	1	0	0	0	0	0	2	0	3	1
	Child restraint used	0-5	0	1	0	0	2	3	1	1	3	3
	Other restraint used	0-5	3	0	0	0	1	1	5	1	3	2
	Restraint not used	0-5	4	4	5	1	5	3	7	5	4	0
	Restraint use unknown	0-5	0	0	1	0	1	1	0	0	2	1
	Total	0-5	7	5	6	1	9	8	13	7	12	6

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Utah	Child restraint used	0-1	87	87	98	90	103	104	135	146	144	143
	Other restraint used	0-1	24	25	25	20	23	26	24	35	21	29
	Restraint not used	0-1	35	43	30	26	41	29	30	13	13	17
	Restraint use unknown	0-1	4	6	3	7	11	2	8	12	11	15
	Subtotal	0-1	150	161	156	143	178	161	197	206	189	204
	Child restraint used	2	29	33	42	53	52	59	64	73	83	86
	Other restraint used	2	35	48	40	45	38	43	45	51	40	32
	Restraint not used	2	63	44	43	34	50	40	41	22	25	20
	Restraint use unknown	2	10	7	5	6	4	12	10	6	8	17
	Subtotal	2	137	132	130	138	144	154	160	152	156	155
	Child restraint used	3	16	18	21	22	17	24	35	42	47	70
	Other restraint used	3	54	42	54	68	65	71	82	85	64	79
	Restraint not used	3	66	61	62	59	38	47	39	27	30	15
	Restraint use unknown	3	8	4	8	7	9	10	9	3	6	10
	Subtotal	3	144	125	145	156	129	152	165	157	147	174
	Child restraint used	4	5	11	5	15	9	14	11	17	23	36
	Other restraint used	4	52	56	76	88	84	94	125	93	103	108
	Restraint not used	4	92	63	60	63	50	60	52	45	35	21
	Restraint use unknown	4	6	8	7	8	12	5	13	11	8	11
	Subtotal	4	155	138	148	174	155	173	201	166	169	176
	Child restraint used	5	2	2	2	4	6	2	3	2	8	16
	Other restraint used	5	59	53	70	78	100	86	103	122	109	95
	Restraint not used	5	76	69	62	65	42	57	59	50	38	30
	Restraint use unknown	5	8	3	6	6	12	12	14	11	5	8
	Subtotal	5	145	127	140	153	160	157	179	185	160	149
	Child restraint used	0-5	139	151	168	184	187	203	248	280	305	351
	Other restraint used	0-5	224	224	265	299	310	320	379	386	337	343
	Restraint not used	0-5	332	280	257	247	221	233	221	157	141	103
	Restraint use unknown	0-5	36	28	29	34	48	41	54	43	38	61
	Total	0-5	731	683	719	764	766	797	902	866	821	858

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Virginia	Child restraint used	0-1	5	1	0	1	6	2	4	2	2	7
	Other restraint used	0-1	0	0	0	0	0	0	0	0	0	0
	Restraint not used	0-1	6	3	5	3	3	0	3	3	2	2
	Restraint use unknown	0-1	0	1	1	0	0	0	1	1	1	0
	Subtotal	0-1	11	5	6	4	9	2	8	6	5	9
	Child restraint used	2	0	0	1	1	3	1	0	1	0	1
	Other restraint used	2	0	0	0	0	1	0	0	1	0	0
	Restraint not used	2	3	1	1	3	1	0	0	0	2	1
	Subtotal	2	3	1	2	4	5	1	0	2	2	2
	Child restraint used	3	0	1	0	0	0	0	1	0	3	0
	Other restraint used	3	1	0	2	0	3	0	0	1	0	0
	Restraint not used	3	1	1	1	1	1	2	1	2	1	1
	Restraint use unknown	3	0	1	1	0	0	0	1	0	0	0
	Subtotal	3	2	3	4	1	4	2	3	3	4	1
	Child restraint used	4	0	0	0	0	0	0	0	0	0	0
	Other restraint used	4	1	0	1	1	1	0	0	2	1	1
	Restraint not used	4	5	2	1	2	0	2	1	1	4	1
	Restraint use unknown	4	0	0	0	1	1	0	0	0	0	0
	Subtotal	4	6	2	2	4	2	2	1	3	5	2
	Child restraint used	5	0	0	1	0	0	0	0	0	0	0
	Other restraint used	5	1	1	0	1	0	0	0	1	1	0
	Restraint not used	5	2	2	1	1	1	1	2	0	2	2
	Subtotal	5	3	3	2	2	1	1	2	1	3	2
	Child restraint used	0-5	2	1	2	1	5	2	3	1	3	3
	Other restraint used	0-5	3	1	3	2	5	0	0	5	2	1
	Restraint not used	0-5	12	6	7	10	4	5	5	5	10	6
	Restraint use unknown	0-5	0	2	2	1	1	0	1	0	0	0
	Total	0-5	17	10	14	14	15	7	9	11	15	10

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Virginia	Child restraint used	0-1	383	383	439	448	490	479	466	482	479	479
	Other restraint used	0-1	78	68	74	60	52	73	55	48	56	64
	Restraint not used	0-1	124	94	107	86	83	86	82	71	38	39
	Restraint use unknown	0-1	8	13	12	14	12	14	11	9	19	16
	Subtotal	0-1	593	558	632	608	637	652	614	610	592	598
	Child restraint used	2	97	112	158	166	185	152	181	194	187	184
	Other restraint used	2	84	94	96	78	87	79	84	77	62	51
	Restraint not used	2	90	75	95	92	59	61	60	40	41	39
	Restraint use unknown	2	6	6	2	4	6	7	8	8	6	4
	Subtotal	2	277	287	351	340	337	299	333	319	296	278
	Child restraint used	3	65	73	89	106	96	118	129	109	165	136
	Other restraint used	3	140	129	154	157	152	170	156	144	113	99
	Restraint not used	3	109	97	111	104	95	87	78	76	43	37
	Restraint use unknown	3	6	6	5	6	12	6	9	11	8	3
	Subtotal	3	320	305	359	373	355	381	372	340	329	275
	Child restraint used	4	18	22	46	28	42	35	49	62	63	79
	Other restraint used	4	188	161	200	223	250	260	244	250	232	238
	Restraint not used	4	133	109	101	109	115	108	89	82	51	51
	Restraint use unknown	4	10	6	11	9	12	19	10	18	11	7
	Subtotal	4	349	298	358	369	419	422	392	412	357	375
	Child restraint used	5	9	8	15	12	16	22	22	20	27	21
	Other restraint used	5	174	197	226	223	261	273	285	279	281	238
	Restraint not used	5	138	126	100	109	122	116	102	86	55	42
	Restraint use unknown	5	11	13	15	10	21	15	11	18	7	11
	Subtotal	5	332	344	356	354	420	426	420	403	370	312
	Child restraint used	0-5	343	391	506	511	572	544	577	613	643	637
	Other restraint used	0-5	636	620	729	717	785	828	796	783	719	666
	Restraint not used	0-5	531	464	455	449	432	423	372	325	204	192
	Restraint use unknown	0-5	37	40	38	32	57	54	44	57	43	34
	Total	0-5	1,547	1,515	1,728	1,709	1,846	1,849	1,789	1,778	1,609	1,529

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Washington	Child restraint used	0-1	0	0	1	1	3	0	1	*	*	*
	Other restraint used	0-1	0	0	0	0	1	0	0	*	*	*
	Restraint not used	0-1	3	1	1	2	1	1	0	*	*	*
	Subtotal	0-1	3	1	2	3	5	1	1	*	*	*
	Child restraint used	2	2	1	0	0	1	0	1	*	*	*
	Other restraint used	2	0	1	1	0	0	0	0	*	*	*
	Restraint not used	2	2	0	2	0	1	1	0	*	*	*
	Restraint use unknown	2	1	0	0	0	1	0	0	*	*	*
	Subtotal	2	5	2	3	0	3	1	1	*	*	*
	Child restraint used	3	0	0	0	0	0	0	2	*	*	*
	Other restraint used	3	1	1	0	0	0	0	1	*	*	*
	Restraint not used	3	1	1	0	4	2	1	0	*	*	*
	Restraint use unknown	3	0	0	1	0	1	0	0	*	*	*
	Subtotal	3	2	2	1	4	3	1	3	*	*	*
	Child restraint used	4	0	1	0	0	0	0	0	*	*	*
	Other restraint used	4	1	0	0	0	0	1	1	*	*	*
	Restraint not used	4	2	1	1	1	1	2	0	*	*	*
	Restraint use unknown	4	0	0	0	0	1	0	0	*	*	*
	Subtotal	4	3	2	1	1	2	3	1	*	*	*
	Child restraint used	5	0	0	1	0	0	0	0	*	*	*
	Other restraint used	5	0	1	0	2	0	0	0	*	*	*
	Restraint not used	5	1	0	1	0	0	0	0	*	*	*
	Restraint use unknown	5	0	1	1	0	0	1	0	*	*	*
	Subtotal	5	1	2	3	2	0	1	0	*	*	*
	Child restraint used	0-5	2	2	2	1	4	0	4	*	*	*
	Other restraint used	0-5	2	3	1	2	1	1	2	*	*	*
	Restraint not used	0-5	9	3	5	7	5	5	0	*	*	*
	Restraint use unknown	0-5	1	1	2	0	3	1	0	*	*	*
	Total	0-5	14	9	10	10	13	7	6	*	*	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

**Table 50: Passenger Car and Light Truck Occupants Under Age 6 Killed or Injured by Restraint Use**

STATE	RESTRAINT USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Washington	Child restraint used	0-1	113	100	119	117	133	117	105	*	*	*
	Other restraint used	0-1	36	26	34	23	36	30	17	*	*	*
	Restraint not used	0-1	29	26	20	27	23	12	17	*	*	*
	Restraint use unknown	0-1	38	37	39	30	46	32	19	*	*	*
	Subtotal	0-1	216	189	212	197	238	191	158	*	*	*
	Child restraint used	2	79	74	80	110	93	100	114	*	*	*
	Other restraint used	2	83	78	86	84	79	92	72	*	*	*
	Restraint not used	2	61	47	49	48	51	41	41	*	*	*
	Restraint use unknown	2	48	38	51	53	58	35	42	*	*	*
	Subtotal	2	271	237	266	295	281	268	269	*	*	*
	Child restraint used	3	40	51	64	51	67	75	66	*	*	*
	Other restraint used	3	134	132	137	165	167	161	162	*	*	*
	Restraint not used	3	82	67	64	51	54	49	47	*	*	*
	Restraint use unknown	3	49	50	49	42	56	50	48	*	*	*
	Subtotal	3	305	300	314	309	344	335	323	*	*	*
	Child restraint used	4	29	28	23	27	37	32	44	*	*	*
	Other restraint used	4	180	201	200	216	225	230	252	*	*	*
	Restraint not used	4	70	70	59	56	57	51	54	*	*	*
	Restraint use unknown	4	52	60	52	50	58	47	56	*	*	*
	Subtotal	4	331	359	334	349	377	360	406	*	*	*
	Child restraint used	5	7	7	11	14	11	16	16	*	*	*
	Other restraint used	5	212	189	211	196	234	264	231	*	*	*
	Restraint not used	5	84	59	48	64	57	75	49	*	*	*
	Restraint use unknown	5	63	64	76	51	73	57	66	*	*	*
	Subtotal	5	366	319	346	325	375	412	362	*	*	*
	Child restraint used	0-5	268	260	297	319	341	340	345	*	*	*
	Other restraint used	0-5	645	626	668	684	741	777	734	*	*	*
	Restraint not used	0-5	326	269	240	246	242	228	208	*	*	*
	Restraint use unknown	0-5	250	249	267	226	291	221	231	*	*	*
	Total	0-5	1,489	1,404	1,472	1,475	1,615	1,566	1,518	*	*	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
California	Helmet used	10-15	2	2	1	1	1	2	2	0	1	1
	Helmet not used	10-15	2	4	2	3	2	3	5	1	0	2
	Helmet use unknown	10-15	0	0	1	2	2	0	0	1	0	0
	Subtotal	10-15	4	6	4	6	5	5	7	2	1	3
	Helmet used	16-20	15	17	30	18	15	17	10	11	4	12
	Helmet not used	16-20	60	44	7	4	5	4	3	2	4	1
	Helmet use unknown	16-20	16	15	7	5	6	1	1	0	0	0
	Subtotal	16-20	91	76	44	27	26	22	14	13	8	13
	Helmet used	21-24	26	21	46	50	28	22	29	21	17	15
	Helmet not used	21-24	58	53	5	6	3	4	3	4	3	3
	Helmet use unknown	21-24	29	22	11	16	8	7	5	1	1	7
	Subtotal	21-24	113	96	62	72	39	33	37	26	21	25
	Helmet used	25-34	28	27	82	66	77	76	41	52	53	44
	Helmet not used	25-34	104	91	9	6	12	7	7	8	4	5
	Helmet use unknown	25-34	46	41	19	11	20	12	8	4	1	5
	Subtotal	25-34	178	159	110	83	109	95	56	64	58	54
	Helmet used	35-44	14	16	31	43	37	40	49	45	43	38
	Helmet not used	35-44	49	38	6	7	9	6	8	3	9	13
	Helmet use unknown	35-44	26	9	5	11	4	11	6	2	4	5
	Subtotal	35-44	89	63	42	61	50	57	63	50	56	56
	Helmet used	45-54	3	4	19	17	20	17	28	30	19	30
	Helmet not used	45-54	12	18	4	1	3	4	2	2	2	5
	Helmet use unknown	45-54	3	5	4	1	3	2	3	2	4	4
	Subtotal	45-54	18	27	27	19	26	23	33	34	25	39
	Helmet used	55-64	2	3	9	7	6	4	6	15	13	15
	Helmet not used	55-64	7	1	1	2	1	1	1	2	0	3
	Helmet use unknown	55-64	1	4	0	0	2	1	0	2	1	0
	Subtotal	55-64	10	8	10	9	9	6	7	19	14	18
	Helmet used	65-74	0	1	0	6	3	2	0	4	1	4
	Helmet not used	65-74	4	3	1	0	0	1	0	0	0	1
	Helmet use unknown	65-74	0	1	0	1	0	0	0	0	1	0
	Subtotal	65-74	4	5	1	7	3	3	0	4	2	5
	Helmet used	>74	1	1	1	0	0	0	1	3	0	0
	Helmet not used	>74	1	0	0	3	0	0	0	1	0	0
	Helmet use unknown	>74	0	0	0	0	0	0	0	1	2	0
	Subtotal	>74	2	1	1	3	0	0	1	5	2	0
	Helmet used	Unknown	0	0	1	0	0	0	1	1	0	0
	Helmet not used	Unknown	3	0	1	0	0	0	0	0	0	0
	Helmet use unknown	Unknown	3	4	2	1	0	1	1	0	1	0
	Subtotal	Unknown	6	4	4	1	0	1	2	1	1	0
	Helmet used	All	91	92	220	208	187	180	167	182	151	159
	Helmet not used	All	300	252	36	32	35	30	29	23	22	33
	Helmet use unknown	All	124	101	49	48	45	35	24	13	15	21
	Total	All	515	445	305	288	267	245	220	218	188	213

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
California	Helmet used	10-15	50	48	78	55	50	41	39	55	35	26
	Helmet not used	10-15	125	125	51	48	50	41	29	27	23	34
	Helmet use unknown	10-15	106	61	45	41	40	31	16	13	26	23
	Subtotal	10-15	281	234	174	144	140	113	84	95	84	83
	Helmet used	16-20	767	673	1,063	874	657	488	433	392	305	326
	Helmet not used	16-20	1,424	1,249	136	102	111	89	64	62	57	62
	Helmet use unknown	16-20	1,180	898	447	287	221	182	119	83	71	74
	Subtotal	16-20	3,371	2,820	1,646	1,263	989	759	616	537	433	462
	Helmet used	21-24	915	906	1,652	1,423	1,150	906	741	657	537	540
	Helmet not used	21-24	1,333	1,264	144	95	82	65	57	54	61	39
	Helmet use unknown	21-24	1,337	1,147	699	542	416	303	207	125	99	117
	Subtotal	21-24	3,585	3,317	2,495	2,060	1,648	1,274	1,005	836	697	696
	Helmet used	25-34	1,399	1,406	2,539	2,408	2,128	1,871	1,791	1,759	1,441	1,518
	Helmet not used	25-34	2,139	1,951	216	191	165	137	105	122	112	116
	Helmet use unknown	25-34	1,959	1,634	1,084	897	852	718	519	311	277	239
	Subtotal	25-34	5,497	4,991	3,839	3,496	3,145	2,726	2,415	2,192	1,830	1,873
	Helmet used	35-44	571	589	1,258	1,267	1,259	1,215	1,254	1,327	1,150	1,273
	Helmet not used	35-44	921	921	93	94	105	83	69	76	73	85
	Helmet use unknown	35-44	734	650	417	423	419	431	328	237	202	223
	Subtotal	35-44	2,226	2,160	1,768	1,784	1,783	1,729	1,651	1,640	1,425	1,581
	Helmet used	45-54	228	247	518	550	598	564	684	807	673	900
	Helmet not used	45-54	268	291	30	35	40	33	33	44	43	52
	Helmet use unknown	45-54	235	196	186	166	191	188	154	134	122	136
	Subtotal	45-54	731	734	734	751	829	785	871	985	838	1,088
	Helmet used	55-64	111	105	151	176	154	192	235	231	256	335
	Helmet not used	55-64	67	77	11	8	11	9	13	9	18	21
	Helmet use unknown	55-64	63	75	53	67	57	65	47	43	31	50
	Subtotal	55-64	241	257	215	251	222	266	295	283	305	406
	Helmet used	65-74	38	36	40	65	63	59	69	73	74	73
	Helmet not used	65-74	17	26	2	3	2	3	3	5	4	9
	Helmet use unknown	65-74	27	26	16	20	22	32	20	13	7	11
	Subtotal	65-74	82	88	58	88	87	94	92	91	85	93
	Helmet used	>74	6	14	13	8	22	11	17	19	11	21
	Helmet not used	>74	11	7	3	3	3	1	1	0	1	0
	Helmet use unknown	>74	8	18	11	9	8	4	5	5	2	6
	Subtotal	>74	25	39	27	20	33	16	23	24	14	27
	Helmet used	Unknown	9	14	17	14	19	14	8	7	14	14
	Helmet not used	Unknown	17	19	3	4	3	5	2	0	4	4
	Helmet use unknown	Unknown	48	37	26	25	21	26	24	12	12	14
	Subtotal	Unknown	74	70	46	43	43	45	34	19	30	32
	Helmet used	All	4,094	4,038	7,329	6,840	6,100	5,361	5,271	5,327	4,496	5,026
	Helmet not used	All	6,322	5,930	689	583	572	466	376	399	396	422
	Helmet use unknown	All	5,697	4,742	2,984	2,477	2,247	1,980	1,439	976	849	893
	Total	All	16,113	14,710	11,002	9,900	8,919	7,807	7,086	6,702	5,741	6,341

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Florida	Helmet used	10-15	0	2	0	1	2	0	0	1	3	0
	Helmet not used	10-15	0	0	0	0	0	0	3	0	0	3
	Helmet use unknown	10-15	0	1	0	0	0	0	0	0	0	0
	Subtotal	10-15	0	3	0	1	2	0	3	1	3	3
	Helmet used	16-20	26	21	14	24	20	12	10	9	7	7
	Helmet not used	16-20	3	5	8	3	6	6	2	4	3	2
	Helmet use unknown	16-20	0	1	0	0	0	0	0	0	0	0
	Subtotal	16-20	29	27	22	27	26	18	12	13	10	9
	Helmet used	21-24	30	27	20	24	18	24	10	20	16	10
	Helmet not used	21-24	2	4	5	6	4	3	2	3	3	4
	Helmet use unknown	21-24	1	0	0	0	0	0	1	0	1	0
	Subtotal	21-24	33	31	25	30	22	27	13	23	20	14
	Helmet used	25-34	62	42	40	41	43	48	32	45	48	37
	Helmet not used	25-34	7	3	5	7	3	10	11	6	4	4
	Helmet use unknown	25-34	2	1	3	1	2	0	1	1	0	1
	Subtotal	25-34	71	46	48	49	48	58	44	52	52	42
	Helmet used	35-44	28	29	31	33	23	25	27	33	33	43
	Helmet not used	35-44	1	2	8	4	5	6	3	6	4	6
	Helmet use unknown	35-44	1	0	0	1	1	1	0	0	0	0
	Subtotal	35-44	30	31	39	38	29	32	30	39	37	49
	Helmet used	45-54	7	8	15	18	17	20	22	20	22	18
	Helmet not used	45-54	0	1	1	3	3	1	2	3	3	2
	Helmet use unknown	45-54	0	0	1	0	1	0	1	0	0	0
	Subtotal	45-54	7	9	17	21	21	21	25	23	25	20
	Helmet used	55-64	13	5	5	8	1	2	10	9	11	14
	Helmet not used	55-64	0	1	1	1	0	1	0	1	2	4
	Subtotal	55-64	13	6	6	9	1	3	10	10	13	18
	Helmet used	65-74	4	3	2	3	1	1	4	3	2	6
	Helmet not used	65-74	1	0	0	0	2	1	0	0	0	0
	Helmet use unknown	65-74	0	2	0	0	0	0	0	1	0	0
	Subtotal	65-74	5	5	2	3	3	2	4	4	2	6
	Helmet used	>74	2	1	1	2	3	2	3	0	1	2
	Helmet not used	>74	0	0	0	1	0	1	1	2	0	0
	Helmet use unknown	>74	1	0	1	0	0	0	0	0	0	0
	Subtotal	>74	3	1	2	3	3	3	4	2	1	2
	Helmet used	Unknown	1	0	1	2	0	3	1	0	0	0
	Helmet not used	Unknown	2	0	0	0	1	1	1	0	0	0
	Subtotal	Unknown	3	0	1	2	1	4	2	0	0	0
	Helmet used	All	173	138	129	156	128	137	119	140	143	137
	Helmet not used	All	16	16	28	25	24	30	25	25	19	25
	Helmet use unknown	All	5	5	5	2	4	1	3	2	1	1
	Total	All	194	159	162	183	156	168	147	167	163	163

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Florida	Helmet used	10-15	130	98	76	70	90	65	49	42	31	40
	Helmet not used	10-15	83	79	70	81	91	67	57	50	50	51
	Helmet use unknown	10-15	5	11	14	4	1	0	0	0	0	1
	Subtotal	10-15	218	188	160	155	182	132	106	92	81	92
	Helmet used	16-20	915	845	659	620	528	403	389	303	261	252
	Helmet not used	16-20	327	306	239	209	218	215	177	164	172	170
	Helmet use unknown	16-20	88	76	49	23	5	3	3	3	6	2
	Subtotal	16-20	1,330	1,227	947	852	751	621	569	470	439	424
	Helmet used	21-24	841	682	683	631	570	557	466	393	359	345
	Helmet not used	21-24	233	199	211	192	203	156	168	172	143	161
	Helmet use unknown	21-24	55	55	77	25	7	2	5	3	4	4
	Subtotal	21-24	1,129	936	971	848	780	715	639	568	506	510
	Helmet used	25-34	1,368	1,131	1,048	1,111	1,007	963	945	866	824	820
	Helmet not used	25-34	442	378	345	337	345	317	284	303	284	313
	Helmet use unknown	25-34	78	95	99	48	10	7	10	11	12	15
	Subtotal	25-34	1,888	1,604	1,492	1,496	1,362	1,287	1,239	1,180	1,120	1,148
	Helmet used	35-44	688	639	652	660	721	742	711	718	743	781
	Helmet not used	35-44	207	161	197	197	199	219	229	230	241	242
	Helmet use unknown	35-44	33	43	51	21	7	4	6	10	9	14
	Subtotal	35-44	928	843	900	878	927	965	946	958	993	1,037
	Helmet used	45-54	238	220	222	300	346	377	459	481	484	536
	Helmet not used	45-54	56	79	68	91	105	113	160	151	149	162
	Helmet use unknown	45-54	19	21	26	18	3	2	5	7	7	8
	Subtotal	45-54	313	320	316	409	454	492	624	639	640	706
	Helmet used	55-64	91	94	91	116	121	127	166	166	178	199
	Helmet not used	55-64	36	36	51	34	35	30	42	63	66	62
	Helmet use unknown	55-64	6	8	12	4	2	0	2	5	5	5
	Subtotal	55-64	133	138	154	154	158	157	210	234	249	266
	Helmet used	65-74	46	41	31	56	48	54	54	53	62	55
	Helmet not used	65-74	14	23	17	21	25	23	26	27	21	27
	Helmet use unknown	65-74	4	3	4	1	2	1	0	1	1	1
	Subtotal	65-74	64	67	52	78	75	78	80	81	84	83
	Helmet used	>74	17	17	13	20	15	16	17	23	25	19
	Helmet not used	>74	9	11	13	10	9	14	8	10	14	6
	Helmet use unknown	>74	2	1	0	2	0	1	0	0	1	0
	Subtotal	>74	28	29	26	32	24	31	25	33	40	25
	Helmet used	Unknown	43	32	20	37	45	33	35	37	17	23
	Helmet not used	Unknown	27	34	19	27	37	34	24	28	14	22
	Helmet use unknown	Unknown	15	6	8	5	1	1	2	1	3	3
	Subtotal	Unknown	85	72	47	69	83	68	61	66	34	48
	Helmet used	All	4,377	3,799	3,495	3,621	3,491	3,337	3,291	3,082	2,984	3,070
	Helmet not used	All	1,434	1,306	1,230	1,199	1,267	1,188	1,175	1,198	1,154	1,216
	Helmet use unknown	All	305	319	340	151	38	21	33	41	48	53
	Total	All	6,116	5,424	5,065	4,971	4,796	4,546	4,499	4,321	4,186	4,339

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Georgia	Helmet used	10-15	1	0	1	0	1	1	0	0	0	*
	Helmet not used	10-15	1	1	0	0	1	2	0	0	1	*
	Subtotal	10-15	2	1	1	0	2	3	0	0	1	*
	Helmet used	16-20	11	6	6	3	2	3	5	2	3	*
	Helmet not used	16-20	6	5	1	1	2	0	0	2	1	*
	Helmet use unknown	16-20	0	0	1	1	1	0	0	0	0	*
	Subtotal	16-20	17	11	8	5	5	3	5	4	4	*
	Helmet used	21-24	4	12	8	10	5	11	4	6	7	*
	Helmet not used	21-24	0	4	3	1	0	0	1	2	2	*
	Helmet use unknown	21-24	1	0	0	1	1	0	2	0	0	*
	Subtotal	21-24	5	16	11	12	6	11	7	8	9	*
	Helmet used	25-34	15	14	14	14	9	10	15	13	19	*
	Helmet not used	25-34	5	3	4	5	4	4	1	5	2	*
	Helmet use unknown	25-34	1	1	0	0	1	0	0	0	0	*
	Subtotal	25-34	21	18	18	19	14	14	16	18	21	*
	Helmet used	35-44	7	5	4	5	10	3	6	9	15	*
	Helmet not used	35-44	1	2	1	1	2	0	2	2	1	*
	Subtotal	35-44	8	7	5	6	12	3	8	11	16	*
	Helmet used	45-54	1	2	2	1	4	6	4	7	7	*
	Helmet not used	45-54	0	0	2	0	1	0	0	0	1	*
	Helmet use unknown	45-54	0	1	0	1	0	0	0	0	1	*
	Subtotal	45-54	1	3	4	2	5	6	4	7	9	*
	Helmet used	55-64	1	1	1	0	3	1	1	3	4	*
	Helmet not used	55-64	0	0	0	1	0	0	0	1	0	*
	Subtotal	55-64	1	1	1	1	3	1	1	4	4	*
	Helmet used	65-74	0	0	0	1	1	0	0	1	0	*
	Helmet not used	65-74	0	0	0	1	0	0	0	0	0	*
	Subtotal	65-74	0	0	0	2	1	0	0	1	0	*
	Helmet used	>74	0	0	0	0	0	0	1	0	0	*
	Helmet not used	>74	0	0	0	0	0	0	0	0	0	*
	Subtotal	>74	0	0	0	0	0	0	1	0	0	*
	Helmet used	Unknown	0	0	0	0	1	0	0	0	1	*
	Helmet not used	Unknown	1	0	0	0	0	0	0	0	0	*
	Subtotal	Unknown	1	0	0	0	1	0	0	0	1	*
	Helmet used	All	40	40	36	34	36	35	36	41	56	*
	Helmet not used	All	14	15	11	10	10	6	4	12	8	*
	Helmet use unknown	All	2	2	1	3	3	0	2	0	1	*
	Total	All	56	57	48	47	49	41	42	53	65	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Georgia	Helmet used	10-15	20	17	17	11	21	12	16	7	12	*
	Helmet not used	10-15	20	31	15	19	16	15	8	8	9	*
	Helmet use unknown	10-15	2	2	2	0	3	2	3	4	5	*
	Subtotal	10-15	42	50	34	30	40	29	27	19	26	*
	Helmet used	16-20	179	182	153	132	134	132	77	87	62	*
	Helmet not used	16-20	81	75	56	54	36	41	31	27	25	*
	Helmet use unknown	16-20	10	12	8	10	10	10	7	8	6	*
	Subtotal	16-20	270	269	217	196	180	183	115	122	93	*
	Helmet used	21-24	167	154	163	179	184	153	152	138	113	*
	Helmet not used	21-24	59	52	65	62	38	31	35	19	18	*
	Helmet use unknown	21-24	24	11	14	10	19	10	7	10	11	*
	Subtotal	21-24	250	217	242	251	241	194	194	167	142	*
	Helmet used	25-34	317	232	232	246	240	296	323	293	324	*
	Helmet not used	25-34	116	112	89	91	50	68	44	51	51	*
	Helmet use unknown	25-34	28	14	30	22	22	21	19	25	16	*
	Subtotal	25-34	461	358	351	359	312	385	386	369	391	*
	Helmet used	35-44	113	104	122	128	160	194	201	199	210	*
	Helmet not used	35-44	52	41	47	53	24	28	33	37	37	*
	Helmet use unknown	35-44	16	13	13	10	14	14	12	10	17	*
	Subtotal	35-44	181	158	182	191	198	236	246	246	264	*
	Helmet used	45-54	43	46	51	42	63	85	121	118	159	*
	Helmet not used	45-54	27	12	16	23	9	12	19	20	8	*
	Helmet use unknown	45-54	4	5	5	4	4	4	5	8	8	*
	Subtotal	45-54	74	63	72	69	76	101	145	146	175	*
	Helmet used	55-64	18	21	11	15	14	24	26	37	43	*
	Helmet not used	55-64	3	3	4	6	5	4	3	6	4	*
	Helmet use unknown	55-64	1	1	0	0	4	0	3	3	3	*
	Subtotal	55-64	22	25	15	21	23	28	32	46	50	*
	Helmet used	65-74	2	6	2	6	3	12	8	10	11	*
	Helmet not used	65-74	1	0	3	0	0	0	0	1	2	*
	Helmet use unknown	65-74	0	2	0	0	0	1	0	0	1	*
	Subtotal	65-74	3	8	5	6	3	13	8	11	14	*
	Helmet used	>74	1	6	2	1	5	3	0	1	5	*
	Helmet not used	>74	0	2	0	1	0	0	0	0	0	*
	Helmet use unknown	>74	0	1	0	0	0	0	0	0	0	*
	Subtotal	>74	1	9	2	2	5	3	0	1	5	*
	Helmet used	Unknown	13	4	7	11	8	4	9	7	12	*
	Helmet not used	Unknown	11	11	8	10	6	4	2	4	1	*
	Helmet use unknown	Unknown	0	1	2	3	0	1	6	3	4	*
	Subtotal	Unknown	24	16	17	24	14	9	17	14	17	*
	Helmet used	All	873	772	760	771	832	915	933	897	951	*
	Helmet not used	All	370	339	303	319	184	203	175	173	155	*
	Helmet use unknown	All	85	62	74	59	76	63	62	71	71	*
	Total	All	1,328	1,173	1,137	1,149	1,092	1,181	1,170	1,141	1,177	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Illinois	Helmet used	10-15	0	0	0	0	0	0	0	0	0	0
	Helmet not used	10-15	1	0	0	0	0	0	0	0	0	0
	Helmet use unknown	10-15	1	0	0	1	0	0	0	0	0	0
	Subtotal	10-15	2	0	0	1	0	0	0	0	0	0
	Helmet used	16-20	1	1	1	1	3	3	1	2	0	0
	Helmet not used	16-20	1	1	0	8	13	7	4	2	5	7
	Helmet use unknown	16-20	9	11	12	3	2	2	0	0	3	2
	Subtotal	16-20	11	13	13	12	18	12	5	4	8	9
	Helmet used	21-24	1	1	2	5	5	0	3	4	0	3
	Helmet not used	21-24	0	2	3	13	19	10	6	7	6	9
	Helmet use unknown	21-24	19	11	5	12	2	1	2	3	7	5
	Subtotal	21-24	20	14	10	30	26	11	11	14	13	17
	Helmet used	25-34	4	0	5	3	2	4	0	1	1	7
	Helmet not used	25-34	6	6	9	15	29	19	9	15	15	12
	Helmet use unknown	25-34	49	29	34	21	7	5	4	12	18	15
	Subtotal	25-34	59	35	48	39	38	28	13	28	34	34
	Helmet used	35-44	3	2	0	1	4	2	1	2	2	3
	Helmet not used	35-44	4	3	3	8	20	14	9	11	13	16
	Helmet use unknown	35-44	18	23	13	9	3	9	4	5	2	4
	Subtotal	35-44	25	28	16	18	27	25	14	18	17	23
	Helmet used	45-54	1	1	0	1	2	1	1	1	0	1
	Helmet not used	45-54	2	0	1	1	7	4	2	4	7	7
	Helmet use unknown	45-54	5	9	6	3	4	3	1	0	2	1
	Subtotal	45-54	8	10	7	5	13	8	4	5	9	9
	Helmet used	55-64	0	0	0	0	1	1	0	1	0	0
	Helmet not used	55-64	0	0	0	0	3	2	3	0	1	0
	Helmet use unknown	55-64	2	1	0	0	1	0	1	0	1	0
	Subtotal	55-64	2	1	0	0	5	3	4	1	2	0
	Helmet used	65-74	1	0	0	0	2	0	0	0	0	0
	Helmet not used	65-74	0	0	0	0	1	1	0	2	1	0
	Helmet use unknown	65-74	0	0	1	0	1	0	1	1	1	3
	Subtotal	65-74	1	0	1	0	4	1	1	3	2	3
	Helmet used	>74	0	0	0	0	0	0	0	1	0	1
	Helmet not used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	>74	2	0	0	0	0	0	0	0	0	0
	Subtotal	>74	2	0	0	0	0	0	0	1	0	1
	Helmet use unknown	Unknown	1	0	1	0	0	0	0	0	0	0
	Subtotal	Unknown	1	0	1	0	0	0	0	0	0	0
	Helmet used	All	11	5	8	11	19	11	6	12	3	15
	Helmet not used	All	14	12	16	45	92	57	33	41	48	51
	Helmet use unknown	All	106	84	72	49	20	20	13	21	34	30
	Total	All	131	101	96	105	131	88	52	74	85	96

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Illinois	Helmet used	10-15	1	2	7	6	1	3	0	3	0	0
	Helmet not used	10-15	0	1	5	8	8	5	0	3	1	0
	Helmet use unknown	10-15	40	41	35	20	5	1	0	7	2	6
	Subtotal	10-15	41	44	47	34	14	9	0	13	3	6
	Helmet used	16-20	30	19	84	62	69	41	16	21	18	29
	Helmet not used	16-20	23	22	50	138	194	148	32	82	89	83
	Helmet use unknown	16-20	596	553	410	224	155	123	44	120	94	89
	Subtotal	16-20	649	594	544	424	418	312	92	223	201	201
	Helmet used	21-24	32	21	85	81	65	65	26	28	26	34
	Helmet not used	21-24	17	22	51	166	208	208	45	99	96	125
	Helmet use unknown	21-24	553	574	466	294	206	186	73	143	113	112
	Subtotal	21-24	602	617	602	541	479	459	144	270	235	271
	Helmet used	25-34	43	34	103	125	98	82	30	66	63	65
	Helmet not used	25-34	37	35	98	243	333	289	94	201	198	191
	Helmet use unknown	25-34	921	968	620	458	246	241	117	314	238	221
	Subtotal	25-34	1,001	1,037	821	826	677	612	241	581	499	477
	Helmet used	35-44	26	33	70	53	85	59	31	46	53	62
	Helmet not used	35-44	11	14	53	131	172	193	68	142	152	193
	Helmet use unknown	35-44	431	449	347	236	174	173	81	206	189	182
	Subtotal	35-44	468	496	470	420	431	425	180	394	394	437
	Helmet used	45-54	14	22	57	57	59	55	23	43	47	47
	Helmet not used	45-54	4	3	19	45	73	73	29	67	99	107
	Helmet use unknown	45-54	150	176	121	85	78	79	51	136	110	141
	Subtotal	45-54	168	201	197	187	210	207	103	246	256	295
	Helmet used	55-64	6	7	18	24	18	21	13	18	33	27
	Helmet not used	55-64	2	1	3	7	20	20	5	20	21	33
	Helmet use unknown	55-64	49	55	38	28	17	23	12	40	42	52
	Subtotal	55-64	57	63	59	59	55	64	30	78	96	112
	Helmet used	65-74	1	2	4	9	11	7	1	7	9	6
	Helmet not used	65-74	2	0	3	3	9	5	1	6	6	12
	Helmet use unknown	65-74	26	5	10	8	8	5	4	12	14	17
	Subtotal	65-74	29	7	17	20	28	17	6	25	29	35
	Helmet used	>74	0	0	1	4	3	1	0	0	3	2
	Helmet not used	>74	0	1	1	2	1	3	0	3	1	1
	Helmet use unknown	>74	4	6	1	6	5	1	3	6	5	5
	Subtotal	>74	4	7	3	12	9	5	3	9	9	8
	Helmet used	Unknown	0	0	1	3	1	1	0	1	2	2
	Helmet not used	Unknown	0	0	4	5	3	4	0	7	7	1
	Helmet use unknown	Unknown	17	20	16	15	5	5	1	14	10	7
	Subtotal	Unknown	17	20	21	23	9	10	1	22	19	10
	Helmet used	All	153	140	430	424	410	335	140	233	254	274
	Helmet not used	All	96	99	287	748	1,021	948	274	630	670	746
	Helmet use unknown	All	2,787	2,847	2,064	1,374	899	837	386	998	817	832
	Total	All	3,036	3,086	2,781	2,546	2,330	2,120	800	1,861	1,741	1,852

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Indiana	Helmet used	10-15	0	0	0	0	1	2	2	1	1	0
	Helmet not used	10-15	1	2	2	0	1	4	1	1	0	0
	Helmet use unknown	10-15	0	1	0	0	0	0	0	0	1	1
	Subtotal	10-15	1	3	2	0	2	6	3	2	2	1
	Helmet used	16-20	1	3	2	3	2	0	1	0	1	1
	Helmet not used	16-20	6	6	10	8	11	6	4	4	4	0
	Helmet use unknown	16-20	3	2	3	1	0	0	3	2	2	0
	Subtotal	16-20	10	11	15	12	13	6	8	6	7	1
	Helmet used	21-24	2	3	1	0	3	0	1	1	0	1
	Helmet not used	21-24	9	7	7	5	10	10	6	6	5	2
	Helmet use unknown	21-24	3	3	3	2	1	0	2	0	0	1
	Subtotal	21-24	14	13	11	7	14	10	9	7	5	4
	Helmet used	25-34	0	3	2	3	3	1	1	1	2	3
	Helmet not used	25-34	22	15	16	11	10	9	11	6	14	11
	Helmet use unknown	25-34	6	6	1	3	2	0	3	2	1	3
	Subtotal	25-34	28	24	19	17	15	10	15	9	17	17
	Helmet used	35-44	1	2	1	0	0	1	2	0	3	0
	Helmet not used	35-44	6	5	8	5	6	10	7	6	12	12
	Helmet use unknown	35-44	4	3	0	1	3	2	1	2	1	6
	Subtotal	35-44	11	10	9	6	9	13	10	8	16	18
	Helmet used	45-54	0	1	2	0	1	2	1	1	2	1
	Helmet not used	45-54	0	2	3	0	2	2	6	3	4	10
	Helmet use unknown	45-54	1	0	0	0	1	2	1	0	1	1
	Subtotal	45-54	1	3	5	0	4	6	8	4	7	12
	Helmet used	55-64	0	1	1	1	0	4	0	2	3	3
	Helmet not used	55-64	0	3	0	1	1	3	0	0	2	3
	Helmet use unknown	55-64	1	0	0	0	0	0	0	0	1	2
	Subtotal	55-64	1	4	1	2	1	7	0	2	6	8
	Helmet used	65-74	1	0	0	0	0	0	0	0	0	0
	Helmet not used	65-74	1	1	0	0	2	1	0	0	0	0
	Helmet use unknown	65-74	0	0	0	1	0	0	0	0	0	0
	Subtotal	65-74	2	1	0	1	2	1	0	0	0	0
	Helmet used	>74	1	0	0	1	0	0	0	0	1	0
	Helmet not used	>74	0	1	0	0	0	0	1	0	0	1
	Helmet use unknown	>74	0	1	1	0	0	0	0	1	0	0
	Subtotal	>74	1	2	1	1	0	0	1	1	1	1
	Helmet used	Unknown	1	0	0	0	0	0	0	0	0	0
	Subtotal	Unknown	1	0	0	0	0	0	0	0	0	0
	Helmet used	All	7	13	9	8	10	10	8	6	13	9
	Helmet not used	All	45	42	46	30	43	45	36	26	41	39
	Helmet use unknown	All	18	16	8	8	7	4	10	7	7	14
	Total	All	70	71	63	46	60	59	54	39	61	62

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Indiana	Helmet used	10-15	42	43	43	53	65	67	48	42	42	43
	Helmet not used	10-15	107	86	72	77	94	72	55	52	52	52
	Helmet use unknown	10-15	53	57	24	34	34	28	25	21	15	19
	Subtotal	10-15	202	186	139	164	193	167	128	115	109	114
	Helmet used	16-20	85	84	85	79	84	63	51	48	40	55
	Helmet not used	16-20	309	232	219	213	225	175	130	149	104	144
	Helmet use unknown	16-20	113	130	87	88	78	58	55	36	36	46
	Subtotal	16-20	507	446	391	380	387	296	236	233	180	245
	Helmet used	21-24	57	53	58	45	61	50	35	26	27	25
	Helmet not used	21-24	248	240	202	208	214	167	154	124	148	139
	Helmet use unknown	21-24	76	75	55	45	57	49	36	38	49	40
	Subtotal	21-24	381	368	315	298	332	266	225	188	224	204
	Helmet used	25-34	83	71	57	69	89	74	51	58	48	72
	Helmet not used	25-34	342	338	274	239	284	296	238	223	250	243
	Helmet use unknown	25-34	129	156	101	107	96	78	77	73	83	68
	Subtotal	25-34	554	565	432	415	469	448	366	354	381	383
	Helmet used	35-44	48	53	48	41	56	56	44	53	58	59
	Helmet not used	35-44	197	177	169	184	177	186	153	188	221	236
	Helmet use unknown	35-44	55	77	56	67	55	65	56	65	82	70
	Subtotal	35-44	300	307	273	292	288	307	253	306	361	365
	Helmet used	45-54	36	27	33	42	43	49	37	48	53	60
	Helmet not used	45-54	61	71	65	77	85	81	82	97	131	136
	Helmet use unknown	45-54	26	23	22	19	34	25	32	37	41	52
	Subtotal	45-54	123	121	120	138	162	155	151	182	225	248
	Helmet used	55-64	21	16	11	22	22	21	18	28	24	26
	Helmet not used	55-64	17	21	19	18	24	26	21	21	33	33
	Helmet use unknown	55-64	10	9	10	10	7	9	8	10	22	12
	Subtotal	55-64	48	46	40	50	53	56	47	59	79	71
	Helmet used	65-74	10	4	7	6	7	5	5	3	14	11
	Helmet not used	65-74	8	14	10	7	3	9	11	13	11	13
	Helmet use unknown	65-74	3	5	5	5	2	3	1	2	2	3
	Subtotal	65-74	21	23	22	18	12	17	17	18	27	27
	Helmet used	>74	1	7	0	1	1	2	3	2	0	2
	Helmet not used	>74	7	2	7	2	3	5	4	1	0	5
	Helmet use unknown	>74	2	7	1	0	1	3	1	2	1	1
	Subtotal	>74	10	16	8	3	5	10	8	5	1	8
	Helmet used	Unknown	1	3	5	4	3	1	3	1	2	1
	Helmet not used	Unknown	8	4	9	8	10	11	6	8	6	7
	Helmet use unknown	Unknown	10	9	6	9	4	9	2	5	1	5
	Subtotal	Unknown	19	16	20	21	17	21	11	14	9	13
	Helmet used	All	384	361	347	362	431	388	295	309	308	354
	Helmet not used	All	1,304	1,185	1,046	1,033	1,119	1,028	854	876	956	1,008
	Helmet use unknown	All	477	548	367	384	368	327	293	289	332	316
	Total	All	2,165	2,094	1,760	1,779	1,918	1,743	1,442	1,474	1,596	1,678

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Kansas	Helmet used	10-15	0	0	0	0	0	0	0	0	0	0
	Helmet not used	10-15	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	10-15	0	0	0	0	0	0	0	0	1	0
	Subtotal	10-15	0	0	0	0	0	0	0	0	1	0
	Helmet used	16-20	0	3	2	0	1	0	0	0	2	0
	Helmet not used	16-20	2	0	0	1	0	0	0	0	0	0
	Helmet use unknown	16-20	3	2	2	2	1	3	3	2	3	0
	Subtotal	16-20	5	5	4	3	2	3	3	2	5	0
	Helmet used	21-24	1	1	0	1	0	0	0	0	0	0
	Helmet not used	21-24	1	1	2	0	0	0	2	1	0	0
	Helmet use unknown	21-24	2	4	0	2	3	1	1	1	2	3
	Subtotal	21-24	4	6	2	3	3	1	3	2	2	3
	Helmet used	25-34	4	2	2	0	0	0	0	1	2	0
	Helmet not used	25-34	1	2	1	0	2	2	0	2	0	3
	Helmet use unknown	25-34	9	11	7	4	3	5	3	4	1	1
	Subtotal	25-34	14	15	10	4	5	7	3	7	3	4
	Helmet used	35-44	0	2	1	0	0	1	0	0	1	1
	Helmet not used	35-44	0	4	1	1	2	0	2	1	0	1
	Helmet use unknown	35-44	3	4	4	0	3	0	0	1	5	1
	Subtotal	35-44	3	10	6	1	5	1	2	2	6	3
	Helmet used	45-54	0	0	0	0	1	0	0	2	0	2
	Helmet not used	45-54	0	0	0	1	1	0	1	0	0	1
	Helmet use unknown	45-54	1	1	1	1	1	1	1	1	1	0
	Subtotal	45-54	1	1	1	2	3	1	2	3	1	3
	Helmet used	55-64	0	0	0	0	0	0	0	0	0	0
	Helmet not used	55-64	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	55-64	0	3	0	1	0	0	0	0	0	1
	Subtotal	55-64	0	3	0	1	0	0	0	0	0	1
	Helmet used	65-74	0	0	0	3	1	0	1	0	0	0
	Helmet not used	65-74	0	0	2	0	0	0	0	0	0	0
	Helmet use unknown	65-74	0	0	0	0	0	0	2	0	0	0
	Subtotal	65-74	0	0	2	3	1	0	3	0	0	0
	Helmet used	>74	0	0	0	0	0	0	0	0	1	0
	Helmet not used	>74	0	0	0	0	0	0	0	0	0	0
	Subtotal	>74	0	0	0	0	0	0	0	0	1	0
	Helmet used	All	5	8	5	4	3	1	1	3	6	3
	Helmet not used	All	4	7	6	3	5	2	5	4	0	5
	Helmet use unknown	All	18	25	14	10	11	10	10	9	13	6
	Total	All	27	40	25	17	19	13	16	16	19	14

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Kansas	Helmet used	10-15	16	11	9	5	7	3	2	2	0	2
	Helmet not used	10-15	3	1	2	1	0	1	0	1	0	0
	Helmet use unknown	10-15	17	23	11	9	4	11	5	4	5	6
	Subtotal	10-15	36	35	22	15	11	15	7	7	5	8
	Helmet used	16-20	54	47	43	37	27	17	25	12	12	18
	Helmet not used	16-20	64	71	41	39	22	20	15	16	13	19
	Helmet use unknown	16-20	115	111	78	64	61	57	49	31	43	38
	Subtotal	16-20	233	229	162	140	110	94	89	59	68	75
	Helmet used	21-24	43	38	34	25	26	20	20	14	15	16
	Helmet not used	21-24	49	45	47	31	23	33	29	25	23	26
	Helmet use unknown	21-24	88	84	69	54	69	45	57	40	36	49
	Subtotal	21-24	180	167	150	110	118	98	106	79	74	91
	Helmet used	25-34	38	49	40	51	28	33	26	40	20	33
	Helmet not used	25-34	109	88	79	53	49	41	33	34	31	29
	Helmet use unknown	25-34	125	136	102	103	95	79	93	68	47	48
	Subtotal	25-34	272	273	221	207	172	153	152	142	98	110
	Helmet used	35-44	33	37	35	28	28	19	17	23	23	24
	Helmet not used	35-44	40	45	30	40	35	31	39	51	32	44
	Helmet use unknown	35-44	62	62	60	58	76	62	77	61	65	66
	Subtotal	35-44	135	144	125	126	139	112	133	135	120	134
	Helmet used	45-54	12	14	13	16	24	19	16	13	17	19
	Helmet not used	45-54	12	13	11	13	13	15	10	14	18	20
	Helmet use unknown	45-54	24	28	18	20	29	41	29	43	47	47
	Subtotal	45-54	48	55	42	49	66	75	55	70	82	86
	Helmet used	55-64	7	8	4	8	11	4	10	8	5	10
	Helmet not used	55-64	7	5	1	2	2	2	7	5	4	10
	Helmet use unknown	55-64	3	6	8	6	4	10	15	9	13	15
	Subtotal	55-64	17	19	13	16	17	16	32	22	22	35
	Helmet used	65-74	1	3	4	2	2	4	1	0	2	0
	Helmet not used	65-74	1	4	2	1	1	4	1	1	0	0
	Helmet use unknown	65-74	5	6	6	3	2	1	2	3	7	5
	Subtotal	65-74	7	13	12	6	5	9	4	4	9	5
	Helmet used	>74	0	0	0	0	2	0	1	0	3	0
	Helmet not used	>74	1	0	0	0	0	0	1	0	0	0
	Helmet use unknown	>74	2	1	1	0	1	0	0	0	2	0
	Subtotal	>74	3	1	1	0	3	0	2	0	5	0
	Helmet used	Unknown	1	1	0	1	0	0	0	0	2	1
	Helmet not used	Unknown	0	0	0	0	0	0	1	0	0	0
	Helmet use unknown	Unknown	4	5	3	3	0	2	3	4	3	2
	Subtotal	Unknown	5	6	3	4	0	2	4	4	5	3
	Helmet used	All	205	208	182	173	155	119	118	112	99	123
	Helmet not used	All	286	272	213	180	145	147	136	147	121	148
	Helmet use unknown	All	445	462	356	320	341	308	330	263	268	276
	Total	All	936	942	751	673	641	574	584	522	488	547

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Maryland	Helmet used	10-15	0	0	0	0	1	0	0	0	0	0
	Helmet not used	10-15	0	0	1	2	0	2	0	0	0	0
	Subtotal	10-15	0	0	1	2	1	2	0	0	0	0
	Helmet used	16-20	3	1	1	5	0	3	4	0	3	5
	Helmet not used	16-20	1	3	6	0	0	2	1	1	0	5
	Helmet use unknown	16-20	1	1	0	1	0	1	0	0	1	0
	Subtotal	16-20	5	5	7	6	0	6	5	1	4	10
	Helmet used	21-24	3	2	3	3	4	5	2	2	2	5
	Helmet not used	21-24	4	3	4	7	1	1	3	2	1	0
	Helmet use unknown	21-24	0	0	0	1	0	0	0	0	0	0
	Subtotal	21-24	7	5	7	11	5	6	5	4	3	5
	Helmet used	25-34	5	6	5	12	9	5	6	8	12	11
	Helmet not used	25-34	16	18	10	4	1	1	0	1	2	1
	Helmet use unknown	25-34	1	1	0	0	0	0	0	0	0	1
	Subtotal	25-34	22	25	15	16	10	6	6	9	14	13
	Helmet used	35-44	1	0	4	4	7	8	6	6	6	6
	Helmet not used	35-44	6	3	5	3	1	0	0	1	1	0
	Helmet use unknown	35-44	0	1	2	0	0	0	0	0	0	0
	Subtotal	35-44	7	4	11	7	8	8	6	7	7	6
	Helmet used	45-54	0	2	3	3	2	0	0	4	1	3
	Helmet not used	45-54	0	5	3	0	0	0	1	0	0	2
	Helmet use unknown	45-54	0	1	1	0	0	0	0	0	0	0
	Subtotal	45-54	0	8	7	3	2	0	1	4	1	5
	Helmet used	55-64	0	0	0	0	0	0	1	1	1	3
	Helmet not used	55-64	0	0	0	0	0	0	1	0	0	0
	Helmet use unknown	55-64	0	0	1	0	0	0	0	0	0	0
	Subtotal	55-64	0	0	1	0	0	0	2	1	1	3
	Helmet used	65-74	0	0	0	0	0	0	0	0	1	1
	Helmet not used	65-74	0	0	0	0	0	0	0	0	1	0
	Helmet use unknown	65-74	0	0	0	1	0	0	0	0	0	0
	Subtotal	65-74	0	0	0	1	0	0	0	0	2	1
	Helmet used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet not used	>74	0	0	0	1	0	0	0	0	0	0
	Subtotal	>74	0	0	0	1	0	0	0	0	0	0
	Helmet used	All	12	11	16	27	23	21	19	21	26	34
	Helmet not used	All	27	32	29	17	3	6	6	5	5	8
	Helmet use unknown	All	2	4	4	3	0	1	0	0	1	1
	Total	All	41	47	49	47	26	28	25	26	32	43

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.  
 Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Maryland	Helmet used	10-15	6	7	4	4	3	6	2	7	2	2
	Helmet not used	10-15	15	30	20	14	21	9	6	8	11	10
	Helmet use unknown	10-15	1	2	5	0	1	2	3	2	1	2
	Subtotal	10-15	22	39	29	18	25	17	11	17	14	14
	Helmet used	16-20	92	95	78	67	63	50	27	42	38	39
	Helmet not used	16-20	151	167	81	48	36	39	28	26	29	27
	Helmet use unknown	16-20	18	19	21	54	16	11	12	8	5	10
	Subtotal	16-20	261	281	180	169	115	100	67	76	72	76
	Helmet used	21-24	106	113	101	126	138	112	76	63	62	70
	Helmet not used	21-24	162	139	107	40	29	28	25	17	24	25
	Helmet use unknown	21-24	29	29	20	62	10	15	14	8	13	7
	Subtotal	21-24	297	281	228	228	177	155	115	88	99	102
	Helmet used	25-34	146	134	152	203	229	212	161	149	184	205
	Helmet not used	25-34	298	312	229	61	53	39	38	43	47	47
	Helmet use unknown	25-34	47	44	38	165	26	28	29	34	20	22
	Subtotal	25-34	491	490	419	429	308	279	228	226	251	274
	Helmet used	35-44	72	84	67	102	131	131	109	119	134	147
	Helmet not used	35-44	106	121	82	35	29	22	27	25	30	41
	Helmet use unknown	35-44	15	15	15	74	15	12	22	18	12	11
	Subtotal	35-44	193	220	164	211	175	165	158	162	176	199
	Helmet used	45-54	29	30	30	52	49	48	69	57	81	85
	Helmet not used	45-54	46	39	33	10	10	10	8	17	14	17
	Helmet use unknown	45-54	4	9	9	51	4	5	9	10	3	9
	Subtotal	45-54	79	78	72	113	63	63	86	84	98	111
	Helmet used	55-64	13	10	8	19	22	20	10	29	21	22
	Helmet not used	55-64	14	9	11	5	3	7	3	2	5	2
	Helmet use unknown	55-64	2	6	3	26	1	2	4	5	2	3
	Subtotal	55-64	29	25	22	50	26	29	17	36	28	27
	Helmet used	65-74	0	0	3	7	5	5	5	9	9	6
	Helmet not used	65-74	3	7	2	6	6	2	8	2	2	1
	Helmet use unknown	65-74	1	1	2	21	1	1	1	2	1	1
	Subtotal	65-74	4	8	7	34	12	8	14	13	12	8
	Helmet used	>74	1	0	0	0	0	1	0	0	1	0
	Helmet not used	>74	2	2	2	2	0	0	0	0	0	0
	Helmet use unknown	>74	1	0	0	15	0	0	1	1	0	0
	Subtotal	>74	4	2	2	17	0	1	1	1	1	0
	Helmet used	Unknown	3	2	3	8	11	2	6	4	3	4
	Helmet not used	Unknown	7	3	2	6	6	4	7	6	1	4
	Helmet use unknown	Unknown	0	0	1	10	4	3	6	7	5	6
	Subtotal	Unknown	10	5	6	24	21	9	19	17	9	14
	Helmet used	All	468	475	446	588	651	587	465	479	535	580
	Helmet not used	All	804	829	569	227	193	160	150	146	163	174
	Helmet use unknown	All	118	125	114	478	78	79	101	95	62	71
	Total	All	1,390	1,429	1,129	1,293	922	826	716	720	760	825

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Michigan	Helmet used	10-15	0	2	0	1	0	0	0	0	1	1
	Helmet not used	10-15	1	0	0	0	0	0	0	0	0	0
	Helmet use unknown	10-15	0	0	1	1	0	1	0	1	0	0
	Subtotal	10-15	1	2	1	2	0	1	0	1	1	1
	Helmet used	16-20	10	8	1	2	7	5	3	3	3	2
	Helmet not used	16-20	2	1	1	0	1	1	2	1	0	0
	Helmet use unknown	16-20	0	0	2	2	2	1	0	2	0	1
	Subtotal	16-20	12	9	4	4	10	7	5	6	3	3
	Helmet used	21-24	10	14	5	6	6	16	9	8	3	6
	Helmet not used	21-24	3	1	0	0	0	1	0	2	1	0
	Helmet use unknown	21-24	0	2	3	3	6	4	0	1	1	3
	Subtotal	21-24	13	17	8	9	12	21	9	11	5	9
	Helmet used	25-34	17	16	5	9	12	9	19	11	13	14
	Helmet not used	25-34	3	3	0	0	1	1	0	0	2	2
	Helmet use unknown	25-34	1	3	4	7	3	7	1	7	4	6
	Subtotal	25-34	21	22	9	16	16	17	20	18	19	22
	Helmet used	35-44	17	13	6	6	10	10	8	4	8	20
	Helmet not used	35-44	1	0	0	3	0	0	0	1	1	1
	Helmet use unknown	35-44	0	1	5	3	6	1	1	5	1	5
	Subtotal	35-44	18	14	11	12	16	11	9	10	10	26
	Helmet used	45-54	4	8	1	3	3	10	6	4	4	6
	Helmet not used	45-54	0	3	0	0	0	0	0	1	1	0
	Helmet use unknown	45-54	0	1	0	2	2	3	0	1	1	2
	Subtotal	45-54	4	12	1	5	5	13	6	6	6	8
	Helmet used	55-64	6	0	0	0	1	3	1	0	4	3
	Helmet not used	55-64	0	0	1	1	0	0	0	0	0	0
	Helmet use unknown	55-64	0	0	1	0	2	0	0	1	1	0
	Subtotal	55-64	6	0	2	1	3	3	1	1	5	3
	Helmet used	65-74	1	0	2	0	1	1	1	2	0	1
	Helmet not used	65-74	0	0	0	0	0	0	0	1	0	1
	Helmet use unknown	65-74	0	0	0	0	1	0	0	1	0	1
	Subtotal	65-74	1	0	2	0	2	1	1	4	0	3
	Helmet used	>74	0	0	0	0	0	0	0	0	0	1
	Helmet not used	>74	1	0	0	0	0	0	0	0	0	0
	Subtotal	>74	1	0	0	0	0	0	0	0	0	1
	Helmet used	Unknown	1	0	0	0	0	0	0	0	0	0
	Helmet use unknown	Unknown	0	0	0	2	0	1	3	2	0	2
	Subtotal	Unknown	1	0	0	2	0	1	3	2	0	2
	Helmet used	All	66	61	20	27	40	54	47	32	36	54
	Helmet not used	All	11	8	2	4	2	3	2	6	5	4
	Helmet use unknown	All	1	7	16	20	22	18	5	21	8	20
	Total	All	78	76	38	51	64	75	54	59	49	78

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Michigan	Helmet used	10-15	104	121	60	82	71	61	62	48	54	42
	Helmet not used	10-15	100	76	16	18	22	11	12	21	11	13
	Helmet use unknown	10-15	11	9	57	77	59	54	30	18	23	25
	Subtotal	10-15	215	206	133	177	152	126	104	87	88	80
	Helmet used	16-20	393	287	146	215	248	185	140	144	173	134
	Helmet not used	16-20	163	163	27	19	22	20	22	13	17	11
	Helmet use unknown	16-20	23	15	104	129	117	114	74	62	59	57
	Subtotal	16-20	579	465	277	363	387	319	236	219	249	202
	Helmet used	21-24	310	265	156	224	256	188	210	173	182	173
	Helmet not used	21-24	123	118	13	15	9	12	15	13	6	10
	Helmet use unknown	21-24	15	23	104	139	118	112	81	67	91	74
	Subtotal	21-24	448	406	273	378	383	312	306	253	279	257
	Helmet used	25-34	539	517	255	344	364	348	321	299	321	324
	Helmet not used	25-34	211	188	21	32	24	13	15	11	17	13
	Helmet use unknown	25-34	31	20	180	231	202	183	152	152	160	154
	Subtotal	25-34	781	725	456	607	590	544	488	462	498	491
	Helmet used	35-44	365	357	170	270	326	265	298	288	344	312
	Helmet not used	35-44	129	133	12	14	18	16	19	16	24	10
	Helmet use unknown	35-44	14	21	133	148	156	143	141	117	158	155
	Subtotal	35-44	508	511	315	432	500	424	458	421	526	477
	Helmet used	45-54	122	149	79	119	132	156	151	208	251	293
	Helmet not used	45-54	56	61	6	5	5	5	8	2	8	9
	Helmet use unknown	45-54	10	4	51	87	74	71	66	80	88	97
	Subtotal	45-54	188	214	136	211	211	232	225	290	347	399
	Helmet used	55-64	39	35	14	34	40	32	42	52	74	101
	Helmet not used	55-64	24	17	5	2	0	5	2	4	2	3
	Helmet use unknown	55-64	0	3	17	20	15	17	22	15	33	29
	Subtotal	55-64	63	55	36	56	55	54	66	71	109	133
	Helmet used	65-74	12	8	4	9	11	8	8	11	15	14
	Helmet not used	65-74	9	10	2	1	0	3	2	1	5	1
	Helmet use unknown	65-74	2	0	6	6	7	5	8	4	8	10
	Subtotal	65-74	23	18	12	16	18	16	18	16	28	25
	Helmet used	>74	2	1	2	1	2	1	1	2	2	3
	Helmet not used	>74	4	2	0	0	0	2	1	1	1	0
	Helmet use unknown	>74	0	0	2	7	1	0	3	1	3	0
	Subtotal	>74	6	3	4	8	3	3	5	4	6	3
	Helmet used	Unknown	28	26	27	1	2	5	5	5	6	8
	Helmet not used	Unknown	13	11	4	3	2	5	0	0	2	1
	Helmet use unknown	Unknown	3	4	59	111	91	68	64	55	83	59
	Subtotal	Unknown	44	41	90	115	95	78	69	60	91	68
	Helmet used	All	1,914	1,766	913	1,299	1,452	1,249	1,238	1,230	1,422	1,404
	Helmet not used	All	832	779	106	109	102	92	96	82	93	71
	Helmet use unknown	All	109	99	713	955	840	767	641	571	706	660
	Total	All	2,855	2,644	1,732	2,363	2,394	2,108	1,975	1,883	2,221	2,135

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Missouri	Helmet used	10-15	0	0	0	0	0	0	0	1	1	0
	Helmet not used	10-15	0	0	0	0	0	1	0	0	1	0
	Subtotal	10-15	0	0	0	0	0	1	0	1	2	0
	Helmet used	16-20	6	7	4	3	6	1	3	2	1	2
	Helmet not used	16-20	0	3	2	2	1	1	0	1	1	2
	Subtotal	16-20	6	10	6	5	7	2	3	3	2	4
	Helmet used	21-24	9	6	5	2	6	6	4	3	1	4
	Helmet not used	21-24	0	2	2	2	1	1	2	0	0	0
	Helmet use unknown	21-24	0	0	0	0	1	0	0	0	0	0
	Subtotal	21-24	9	8	7	4	8	7	6	3	1	4
	Helmet used	25-34	9	6	10	8	5	12	8	10	5	4
	Helmet not used	25-34	2	0	1	3	1	1	0	1	0	0
	Helmet use unknown	25-34	2	0	1	1	1	1	2	0	4	1
	Subtotal	25-34	13	6	12	12	7	14	10	11	9	5
	Helmet used	35-44	7	4	12	1	8	9	7	9	5	5
	Helmet not used	35-44	2	1	0	0	0	1	2	0	1	1
	Helmet use unknown	35-44	1	0	0	2	0	0	1	0	0	1
	Subtotal	35-44	10	5	12	3	8	10	10	9	6	7
	Helmet used	45-54	1	3	3	1	3	1	3	5	2	9
	Helmet not used	45-54	0	1	1	0	0	0	0	0	0	0
	Helmet use unknown	45-54	0	1	0	0	0	0	0	0	0	0
	Subtotal	45-54	1	5	4	1	3	1	3	5	2	9
	Helmet used	55-64	3	2	2	0	1	0	0	2	1	4
	Helmet not used	55-64	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	55-64	0	0	0	0	0	0	0	0	1	0
	Subtotal	55-64	3	2	2	0	1	0	0	2	2	4
	Helmet used	65-74	1	0	0	0	1	1	1	0	3	0
	Helmet not used	65-74	0	1	0	0	1	0	0	0	0	0
	Subtotal	65-74	1	1	0	0	2	1	1	0	3	0
	Helmet used	>74	0	0	0	0	0	0	0	0	0	1
	Helmet not used	>74	0	0	0	1	0	0	0	0	0	0
	Subtotal	>74	0	0	0	1	0	0	0	0	0	1
	Helmet used	All	36	28	36	15	30	30	26	32	19	29
	Helmet not used	All	4	8	6	8	4	5	4	2	3	3
	Helmet use unknown	All	3	1	1	3	2	1	3	0	5	2
	Total	All	43	37	43	26	36	36	33	34	27	34

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Missouri	Helmet used	10-15	9	10	11	5	8	5	10	6	6	6
	Helmet not used	10-15	12	13	15	3	11	4	2	7	7	7
	Helmet use unknown	10-15	6	4	6	4	2	3	2	2	2	4
	Subtotal	10-15	27	27	32	12	21	12	14	15	15	17
	Helmet used	16-20	216	160	166	151	124	100	80	80	67	72
	Helmet not used	16-20	25	16	18	9	16	6	10	12	19	13
	Helmet use unknown	16-20	58	51	32	24	30	19	21	31	17	11
	Subtotal	16-20	299	227	216	184	170	125	111	123	103	96
	Helmet used	21-24	178	139	167	132	134	91	110	80	71	90
	Helmet not used	21-24	11	6	13	8	10	11	8	12	5	8
	Helmet use unknown	21-24	47	46	33	32	31	31	17	31	21	18
	Subtotal	21-24	236	191	213	172	175	133	135	123	97	116
	Helmet used	25-34	329	280	247	221	198	191	166	171	161	172
	Helmet not used	25-34	26	15	26	10	24	12	8	10	19	19
	Helmet use unknown	25-34	94	79	58	47	50	40	39	51	31	55
	Subtotal	25-34	449	374	331	278	272	243	213	232	211	246
	Helmet used	35-44	142	197	152	148	178	168	179	158	161	175
	Helmet not used	35-44	6	9	3	7	13	10	6	10	4	10
	Helmet use unknown	35-44	39	41	39	27	26	23	34	42	34	42
	Subtotal	35-44	187	247	194	182	217	201	219	210	199	227
	Helmet used	45-54	59	62	53	54	75	85	74	106	113	148
	Helmet not used	45-54	3	4	3	2	8	4	2	1	5	1
	Helmet use unknown	45-54	9	14	16	13	19	18	20	23	23	28
	Subtotal	45-54	71	80	72	69	102	107	96	130	141	177
	Helmet used	55-64	24	18	17	25	22	27	42	26	34	55
	Helmet not used	55-64	0	0	0	1	1	0	4	1	1	2
	Helmet use unknown	55-64	2	5	8	8	5	4	10	8	8	13
	Subtotal	55-64	26	23	25	34	28	31	56	35	43	70
	Helmet used	65-74	3	9	11	8	11	5	8	9	7	14
	Helmet not used	65-74	0	0	0	3	0	1	1	1	1	1
	Helmet use unknown	65-74	1	2	3	1	2	2	2	8	2	6
	Subtotal	65-74	4	11	14	12	13	8	11	18	10	21
	Helmet used	>74	1	2	2	2	2	2	3	1	1	4
	Helmet not used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	>74	0	0	1	0	1	0	0	3	2	2
	Subtotal	>74	1	2	3	2	3	2	3	4	3	6
	Helmet used	Unknown	4	7	6	5	6	5	7	5	3	1
	Helmet not used	Unknown	0	0	1	1	0	2	0	1	1	0
	Helmet use unknown	Unknown	3	4	1	8	7	3	9	1	2	5
	Subtotal	Unknown	7	11	8	14	13	10	16	7	6	6
	Helmet used	All	965	884	832	751	758	679	679	642	624	737
	Helmet not used	All	83	63	79	44	83	50	41	55	62	61
	Helmet use unknown	All	259	246	197	164	173	143	154	200	142	184
	Total	All	1,307	1,193	1,108	959	1,014	872	874	897	828	982

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
New Mexico	Helmet used	10-15	0	0	1	0	0	0	0	0	0	0
	Helmet not used	10-15	2	0	1	0	0	0	0	1	0	0
	Subtotal	10-15	2	0	2	0	0	0	0	1	0	0
	Helmet used	16-20	3	1	0	1	0	2	1	0	0	0
	Helmet not used	16-20	3	5	2	5	1	3	3	1	1	1
	Subtotal	16-20	6	6	2	6	1	5	4	1	1	1
	Helmet used	21-24	1	0	4	0	0	3	0	1	0	0
	Helmet not used	21-24	3	5	2	3	6	2	1	2	4	0
	Subtotal	21-24	4	5	6	3	6	5	1	3	4	0
	Helmet used	25-34	1	0	2	0	2	2	1	0	0	1
	Helmet not used	25-34	12	6	10	8	2	9	3	6	2	6
	Subtotal	25-34	13	6	12	8	4	11	4	6	2	7
	Helmet used	35-44	0	5	0	1	1	1	0	1	1	2
	Helmet not used	35-44	8	9	4	1	4	5	8	8	5	1
	Subtotal	35-44	8	14	4	2	5	6	8	9	6	3
	Helmet used	45-54	0	1	0	2	1	0	0	0	1	1
	Helmet not used	45-54	2	3	0	3	1	2	2	3	2	4
	Subtotal	45-54	2	4	0	5	2	2	2	3	3	5
	Helmet used	55-64	0	0	0	0	1	0	0	0	0	1
	Helmet not used	55-64	0	0	0	2	0	0	2	0	0	1
	Subtotal	55-64	0	0	0	2	1	0	2	0	0	2
	Helmet used	65-74	0	0	1	1	0	0	0	0	0	0
	Helmet not used	65-74	0	0	0	0	1	1	0	0	0	1
	Subtotal	65-74	0	0	1	1	1	1	0	0	0	1
	Helmet used	>74	0	0	0	0	0	0	0	0	1	0
	Helmet not used	>74	0	0	0	0	0	0	2	0	0	0
	Subtotal	>74	0	0	0	0	0	0	2	0	1	0
	Helmet used	All	5	7	8	5	5	8	2	2	3	5
	Helmet not used	All	30	28	19	22	15	22	21	21	14	14
	Total	All	35	35	27	27	20	30	23	23	17	19

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
New Mexico	Helmet used	10-15	19	18	18	7	14	18	13	22	12	8
	Helmet not used	10-15	24	29	28	38	25	23	23	24	15	19
	Subtotal	10-15	43	47	46	45	39	41	36	46	27	27
	Helmet used	16-20	62	62	59	60	64	49	40	40	29	15
	Helmet not used	16-20	109	115	114	113	93	86	66	50	61	33
	Helmet use unknown	16-20	0	1	0	0	0	0	0	0	0	0
	Subtotal	16-20	171	178	173	173	157	135	106	90	90	48
	Helmet used	21-24	57	53	56	48	66	44	29	26	21	19
	Helmet not used	21-24	87	92	97	97	101	90	58	43	48	32
	Helmet use unknown	21-24	0	0	0	1	0	0	0	0	0	0
	Subtotal	21-24	144	145	153	146	167	134	87	69	69	51
	Helmet used	25-34	86	69	83	50	76	63	65	53	50	33
	Helmet not used	25-34	214	187	196	173	142	139	130	98	97	79
	Helmet use unknown	25-34	2	1	0	0	0	0	1	0	0	0
	Subtotal	25-34	302	257	279	223	218	202	196	151	147	112
	Helmet used	35-44	41	41	37	39	40	43	32	36	42	32
	Helmet not used	35-44	96	102	91	103	101	97	93	94	105	83
	Helmet use unknown	35-44	2	0	0	0	0	0	2	1	0	1
	Subtotal	35-44	139	143	128	142	141	140	127	131	147	116
	Helmet used	45-54	19	21	23	31	29	40	26	42	30	25
	Helmet not used	45-54	28	26	28	43	33	45	42	48	44	49
	Helmet use unknown	45-54	0	0	0	0	0	0	1	0	0	1
	Subtotal	45-54	47	47	51	74	62	85	69	90	74	75
	Helmet used	55-64	10	12	12	17	8	15	11	10	11	19
	Helmet not used	55-64	11	8	3	12	8	22	10	10	12	19
	Helmet use unknown	55-64	0	0	0	0	0	0	1	0	0	0
	Subtotal	55-64	21	20	15	29	16	37	22	20	23	38
	Helmet used	65-74	2	5	5	6	4	3	3	3	0	5
	Helmet not used	65-74	4	1	1	4	5	3	8	4	6	2
	Subtotal	65-74	6	6	6	10	9	6	11	7	6	7
	Helmet used	>74	0	1	2	2	3	1	0	1	0	2
	Helmet not used	>74	2	0	1	1	2	1	3	1	1	0
	Subtotal	>74	2	1	3	3	5	2	3	2	1	2
	Helmet used	Unknown	1	1	2	2	2	1	2	1	2	1
	Helmet not used	Unknown	2	6	4	8	0	4	6	6	3	7
	Helmet use unknown	Unknown	2	0	0	0	0	0	0	0	0	0
	Subtotal	Unknown	5	7	6	10	2	5	8	7	5	8
	Helmet used	All	297	283	297	262	306	277	221	234	197	159
	Helmet not used	All	577	566	563	592	510	510	439	378	392	323
	Helmet use unknown	All	6	2	0	1	0	0	5	1	0	2
	Total	All	880	851	860	855	816	787	665	613	589	484

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
North Carolina	Helmet used	10-15	*	*	0	0	1	0	0	1	0	0
	Helmet not used	10-15	*	*	1	2	1	1	1	1	1	0
	Subtotal	10-15	*	*	1	2	2	1	1	2	1	0
	Helmet used	16-20	*	*	6	8	11	4	4	5	7	5
	Helmet not used	16-20	*	*	3	2	3	1	4	4	2	2
	Helmet use unknown	16-20	*	*	0	0	1	1	0	0	0	2
	Subtotal	16-20	*	*	9	10	15	6	8	9	9	9
	Helmet used	21-24	*	*	13	17	11	14	11	7	12	12
	Helmet not used	21-24	*	*	2	2	3	2	2	1	1	1
	Helmet use unknown	21-24	*	*	3	0	0	1	0	0	0	2
	Subtotal	21-24	*	*	18	19	14	17	13	8	13	15
	Helmet used	25-34	*	*	9	20	10	18	18	16	25	23
	Helmet not used	25-34	*	*	7	2	5	6	5	4	6	5
	Helmet use unknown	25-34	*	*	0	3	0	2	0	0	0	2
	Subtotal	25-34	*	*	16	25	15	26	23	20	31	30
	Helmet used	35-44	*	*	8	13	4	6	6	7	12	18
	Helmet not used	35-44	*	*	1	2	3	4	0	1	2	1
	Helmet use unknown	35-44	*	*	1	0	0	1	0	1	0	2
	Subtotal	35-44	*	*	10	15	7	11	6	9	14	21
	Helmet used	45-54	*	*	2	7	3	8	10	5	6	10
	Helmet not used	45-54	*	*	0	2	0	0	1	2	3	5
	Subtotal	45-54	*	*	2	9	3	8	11	7	9	15
	Helmet used	55-64	*	*	2	4	0	1	3	5	2	7
	Helmet not used	55-64	*	*	0	1	0	0	1	0	0	0
	Helmet use unknown	55-64	*	*	0	0	0	2	0	0	0	0
	Subtotal	55-64	*	*	2	5	0	3	4	5	2	7
	Helmet used	65-74	*	*	1	0	0	0	1	1	0	3
	Helmet not used	65-74	*	*	0	0	0	0	0	0	0	0
	Subtotal	65-74	*	*	1	0	0	0	1	1	0	3
	Helmet used	>74	*	*	0	0	0	0	0	0	0	0
	Helmet not used	>74	*	*	0	1	0	0	0	0	1	0
	Subtotal	>74	*	*	0	1	0	0	0	0	1	0
	Helmet used	All	*	*	41	69	40	51	53	47	64	78
	Helmet not used	All	*	*	14	14	15	14	14	13	16	14
	Helmet use unknown	All	*	*	4	3	1	7	0	1	0	8
	Total	All	*	*	59	86	56	72	67	61	80	100

\*Data not available.

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
North Carolina	Helmet used	10-15	*	*	15	16	24	13	8	13	8	12
	Helmet not used	10-15	*	*	32	23	26	20	10	5	6	5
	Helmet use unknown	10-15	*	*	1	2	3	1	1	2	1	1
	Subtotal	10-15	*	*	48	41	53	34	19	20	15	18
	Helmet used	16-20	*	*	237	297	244	215	195	180	184	184
	Helmet not used	16-20	*	*	65	76	46	53	62	56	68	46
	Helmet use unknown	16-20	*	*	17	17	12	24	11	15	15	17
	Subtotal	16-20	*	*	319	390	302	292	268	251	267	247
	Helmet used	21-24	*	*	345	368	380	342	290	274	294	273
	Helmet not used	21-24	*	*	77	64	76	53	51	47	48	51
	Helmet use unknown	21-24	*	*	16	25	26	33	19	17	15	23
	Subtotal	21-24	*	*	438	457	482	428	360	338	357	347
	Helmet used	25-34	*	*	400	473	463	456	493	463	538	530
	Helmet not used	25-34	*	*	99	93	78	96	90	80	101	104
	Helmet use unknown	25-34	*	*	29	45	26	32	40	24	32	49
	Subtotal	25-34	*	*	528	611	567	584	623	567	671	683
	Helmet used	35-44	*	*	236	260	282	265	288	307	351	400
	Helmet not used	35-44	*	*	29	47	42	40	41	47	59	58
	Helmet use unknown	35-44	*	*	26	21	15	21	19	27	23	35
	Subtotal	35-44	*	*	291	328	339	326	348	381	433	493
	Helmet used	45-54	*	*	95	105	137	138	155	171	187	244
	Helmet not used	45-54	*	*	9	14	9	20	21	29	26	30
	Helmet use unknown	45-54	*	*	5	5	2	17	10	16	13	23
	Subtotal	45-54	*	*	109	124	148	175	186	216	226	297
	Helmet used	55-64	*	*	46	45	35	52	57	67	86	68
	Helmet not used	55-64	*	*	5	9	5	9	5	5	7	7
	Helmet use unknown	55-64	*	*	2	3	2	1	4	5	2	5
	Subtotal	55-64	*	*	53	57	42	62	66	77	95	80
	Helmet used	65-74	*	*	17	19	11	21	14	24	26	21
	Helmet not used	65-74	*	*	4	5	3	2	2	2	2	1
	Helmet use unknown	65-74	*	*	0	0	1	2	0	1	0	2
	Subtotal	65-74	*	*	21	24	15	25	16	27	28	24
	Helmet used	>74	*	*	3	3	5	6	4	5	9	8
	Helmet not used	>74	*	*	1	0	1	2	1	5	2	3
	Helmet use unknown	>74	*	*	0	1	0	0	0	1	1	1
	Subtotal	>74	*	*	4	4	6	8	5	11	12	12
	Helmet used	Unknown	*	*	3	3	2	2	5	1	2	0
	Helmet not used	Unknown	*	*	3	5	3	3	1	1	1	1
	Helmet use unknown	Unknown	*	*	0	0	1	1	1	1	0	0
	Subtotal	Unknown	*	*	6	8	6	6	7	3	3	1
	Helmet used	All	*	*	1,397	1,589	1,583	1,510	1,509	1,505	1,685	1,740
	Helmet not used	All	*	*	324	336	289	298	284	277	320	306
	Helmet use unknown	All	*	*	96	119	88	132	105	109	102	156
	Total	All	*	*	1,817	2,044	1,960	1,940	1,898	1,891	2,107	2,202

\*Data not available.

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Ohio	Helmet used	10-15	2	0	0	0	3	1	1	0	0	0
	Helmet not used	10-15	2	0	0	2	1	1	0	2	1	1
	Subtotal	10-15	4	0	0	2	4	2	1	2	1	1
	Helmet used	16-20	11	6	2	2	2	3	2	1	2	3
	Helmet not used	16-20	5	16	5	6	10	6	7	3	7	3
	Helmet use unknown	16-20	0	0	0	0	0	0	0	0	0	1
	Subtotal	16-20	16	22	7	8	12	9	9	4	9	7
	Helmet used	21-24	3	6	2	2	4	5	8	4	5	5
	Helmet not used	21-24	16	26	17	20	11	16	12	11	18	8
	Subtotal	21-24	19	32	19	22	15	21	20	15	23	13
	Helmet used	25-34	9	8	4	2	9	7	2	5	5	8
	Helmet not used	25-34	46	52	30	28	29	21	34	19	24	26
	Helmet use unknown	25-34	0	0	0	1	0	0	0	0	0	3
	Subtotal	25-34	55	60	34	31	38	28	36	24	29	37
	Helmet used	35-44	6	2	3	8	2	3	2	3	0	2
	Helmet not used	35-44	30	25	20	24	13	22	18	29	22	19
	Helmet use unknown	35-44	0	0	0	0	0	0	0	0	0	6
	Subtotal	35-44	36	27	23	32	15	25	20	32	22	27
	Helmet used	45-54	2	1	3	4	4	1	4	2	1	5
	Helmet not used	45-54	7	8	11	7	5	6	13	10	13	9
	Helmet use unknown	45-54	0	0	0	0	0	0	0	0	0	2
	Subtotal	45-54	9	9	14	11	9	7	17	12	14	16
	Helmet used	55-64	1	0	0	3	1	1	2	0	0	4
	Helmet not used	55-64	0	0	1	4	0	2	1	4	5	3
	Subtotal	55-64	1	0	1	7	1	3	3	4	5	7
	Helmet used	65-74	0	0	0	0	1	0	1	0	1	3
	Helmet not used	65-74	1	1	0	0	0	3	0	1	0	1
	Subtotal	65-74	1	1	0	0	1	3	1	1	1	4
	Helmet used	>74	0	0	0	0	0	1	1	0	0	0
	Helmet not used	>74	0	0	0	1	0	0	1	2	0	0
	Subtotal	>74	0	0	0	1	0	1	2	2	0	0
	Helmet used	All	34	23	14	21	26	22	23	15	14	30
	Helmet not used	All	107	128	84	92	69	77	86	81	90	70
	Helmet use unknown	All	0	0	0	1	0	0	0	0	0	12
	Total	All	141	151	98	114	95	99	109	96	104	112

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Ohio	Helmet used	10-15	73	56	44	54	57	55	33	39	32	50
	Helmet not used	10-15	60	113	88	87	86	70	63	38	37	47
	Helmet use unknown	10-15	52	1	1	2	4	0	7	8	15	7
	Subtotal	10-15	185	170	133	143	147	125	103	85	84	104
	Helmet used	16-20	252	225	156	191	168	148	99	88	102	99
	Helmet not used	16-20	287	372	313	283	257	199	164	122	113	118
	Helmet use unknown	16-20	176	7	8	3	7	6	17	16	25	24
	Subtotal	16-20	715	604	477	477	432	353	280	226	240	241
	Helmet used	21-24	150	170	145	152	133	128	87	103	92	122
	Helmet not used	21-24	310	451	387	376	365	312	236	198	184	191
	Helmet use unknown	21-24	140	4	4	5	4	6	13	31	29	25
	Subtotal	21-24	600	625	536	533	502	446	336	332	305	338
	Helmet used	25-34	260	227	202	197	204	167	149	172	184	179
	Helmet not used	25-34	765	1,018	745	767	663	650	499	469	515	513
	Helmet use unknown	25-34	331	9	6	11	12	3	37	57	65	58
	Subtotal	25-34	1,356	1,254	953	975	879	820	685	698	764	750
	Helmet used	35-44	159	159	146	143	150	106	105	131	133	168
	Helmet not used	35-44	398	548	508	537	520	459	455	444	472	508
	Helmet use unknown	35-44	143	1	14	8	5	2	30	42	80	47
	Subtotal	35-44	700	708	668	688	675	567	590	617	685	723
	Helmet used	45-54	94	103	101	100	108	87	91	104	112	144
	Helmet not used	45-54	92	163	131	207	207	256	206	223	236	333
	Helmet use unknown	45-54	54	1	3	3	2	1	18	36	49	32
	Subtotal	45-54	240	267	235	310	317	344	315	363	397	509
	Helmet used	55-64	47	39	32	40	38	35	39	48	55	69
	Helmet not used	55-64	36	48	54	44	58	58	49	41	82	90
	Helmet use unknown	55-64	25	1	0	2	1	0	6	10	12	10
	Subtotal	55-64	108	88	86	86	97	93	94	99	149	169
	Helmet used	65-74	15	11	11	7	11	7	8	20	16	18
	Helmet not used	65-74	9	12	14	13	21	16	14	16	25	17
	Helmet use unknown	65-74	8	0	2	1	1	0	2	2	1	6
	Subtotal	65-74	32	23	27	21	33	23	24	38	42	41
	Helmet used	>74	1	5	4	3	6	1	3	3	1	6
	Helmet not used	>74	4	3	5	6	10	6	4	4	5	5
	Helmet use unknown	>74	2	0	0	0	1	0	1	0	0	1
	Subtotal	>74	7	8	9	9	17	7	8	7	6	12
	Helmet used	Unknown	5	3	5	0	1	1	3	3	5	8
	Helmet not used	Unknown	16	19	10	12	8	12	11	7	17	17
	Helmet use unknown	Unknown	17	1	0	0	1	0	0	5	3	0
	Subtotal	Unknown	38	23	15	12	10	13	14	15	25	25
	Helmet used	All	1,056	998	846	887	876	735	617	711	732	863
	Helmet not used	All	1,977	2,747	2,255	2,332	2,195	2,038	1,701	1,562	1,686	1,839
	Helmet use unknown	All	948	25	38	35	38	18	131	207	279	210
	Total	All	3,981	3,770	3,139	3,254	3,109	2,791	2,449	2,480	2,697	2,912

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Pennsylvania	Helmet used	10-15	2	1	1	0	0	0	0	0	0	1
	Helmet not used	10-15	0	0	0	0	1	0	1	0	0	0
	Subtotal	10-15	2	1	1	0	1	0	1	0	0	1
	Helmet used	16-20	8	15	7	8	4	6	11	3	7	5
	Helmet not used	16-20	6	3	0	2	1	3	2	1	7	2
	Helmet use unknown	16-20	0	7	0	0	1	3	0	0	0	0
	Subtotal	16-20	14	25	7	10	6	12	13	4	14	7
	Helmet used	21-24	13	12	13	14	15	7	9	9	7	9
	Helmet not used	21-24	3	2	3	0	3	2	2	0	1	1
	Helmet use unknown	21-24	2	3	0	4	2	4	0	1	0	2
	Subtotal	21-24	18	17	16	18	20	13	11	10	8	12
	Helmet used	25-34	21	24	16	23	30	16	21	24	22	18
	Helmet not used	25-34	5	4	4	8	4	4	6	5	5	3
	Helmet use unknown	25-34	9	6	4	4	7	1	4	5	3	8
	Subtotal	25-34	35	34	24	35	41	21	31	34	30	29
	Helmet used	35-44	10	9	14	17	14	12	15	19	25	22
	Helmet not used	35-44	5	3	6	2	1	1	1	1	2	5
	Helmet use unknown	35-44	3	1	1	3	2	4	0	1	3	6
	Subtotal	35-44	18	13	21	22	17	17	16	21	30	33
	Helmet used	45-54	2	3	3	6	8	7	9	11	12	11
	Helmet not used	45-54	1	0	2	1	2	0	1	0	1	2
	Helmet use unknown	45-54	0	1	2	3	2	2	2	1	2	3
	Subtotal	45-54	3	4	7	10	12	9	12	12	15	16
	Helmet used	55-64	5	1	3	0	1	1	3	1	3	4
	Helmet not used	55-64	1	0	0	1	1	1	0	0	0	0
	Helmet use unknown	55-64	0	0	0	0	0	0	0	1	0	0
	Subtotal	55-64	6	1	3	1	2	2	3	2	3	4
	Helmet used	65-74	0	0	2	1	2	2	3	0	0	1
	Helmet not used	65-74	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	65-74	1	0	0	0	0	0	0	0	0	0
	Subtotal	65-74	1	0	2	1	2	2	3	0	0	1
	Helmet used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet not used	>74	0	0	0	0	1	0	0	0	0	0
	Subtotal	>74	0	0	0	0	1	0	0	0	0	0
	Helmet used	All	61	65	59	69	74	51	71	67	76	71
	Helmet not used	All	21	12	15	14	14	11	13	7	16	13
	Helmet use unknown	All	15	18	7	14	14	14	6	9	8	19
	Total	All	97	95	81	97	102	76	90	83	100	103

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Pennsylvania	Helmet used	10-15	30	28	25	12	19	17	14	18	10	12
	Helmet not used	10-15	25	27	26	26	28	16	20	21	13	12
	Helmet use unknown	10-15	11	3	7	5	7	5	3	6	7	2
	Subtotal	10-15	66	58	58	43	54	38	37	45	30	26
	Helmet used	16-20	299	253	227	218	198	176	154	119	140	141
	Helmet not used	16-20	177	183	93	99	88	74	58	63	57	66
	Helmet use unknown	16-20	129	59	59	51	51	32	37	45	46	42
	Subtotal	16-20	605	495	379	368	337	282	249	227	243	249
	Helmet used	21-24	331	344	248	261	239	255	169	172	171	182
	Helmet not used	21-24	162	198	74	77	67	49	59	35	58	67
	Helmet use unknown	21-24	117	64	67	57	55	70	48	50	56	74
	Subtotal	21-24	610	606	389	395	361	374	276	257	285	323
	Helmet used	25-34	521	584	484	522	460	459	392	423	395	409
	Helmet not used	25-34	259	288	124	126	132	116	112	101	129	109
	Helmet use unknown	25-34	183	108	145	110	124	101	107	120	119	130
	Subtotal	25-34	963	980	753	758	716	676	611	644	643	648
	Helmet used	35-44	289	311	336	371	338	395	339	366	409	393
	Helmet not used	35-44	93	156	75	90	75	56	60	72	83	85
	Helmet use unknown	35-44	94	50	69	70	63	53	61	76	86	81
	Subtotal	35-44	476	517	480	531	476	504	460	514	578	559
	Helmet used	45-54	98	117	116	147	151	197	215	215	285	265
	Helmet not used	45-54	38	61	32	38	21	25	40	38	43	59
	Helmet use unknown	45-54	39	23	22	38	29	24	28	45	43	72
	Subtotal	45-54	175	201	170	223	201	246	283	298	371	396
	Helmet used	55-64	35	47	48	56	70	55	58	67	89	74
	Helmet not used	55-64	11	17	12	8	8	14	12	11	25	15
	Helmet use unknown	55-64	7	9	5	7	6	10	11	12	21	13
	Subtotal	55-64	53	73	65	71	84	79	81	90	135	102
	Helmet used	65-74	13	14	19	24	15	17	19	31	19	29
	Helmet not used	65-74	5	8	4	10	10	2	4	6	7	4
	Helmet use unknown	65-74	5	5	4	4	2	0	2	2	4	8
	Subtotal	65-74	23	27	27	38	27	19	25	39	30	41
	Helmet used	>74	3	3	2	3	3	4	5	3	2	6
	Helmet not used	>74	2	1	1	2	1	0	2	1	3	2
	Helmet use unknown	>74	2	0	0	0	2	2	0	4	1	0
	Subtotal	>74	7	4	3	5	6	6	7	8	6	8
	Helmet used	Unknown	18	14	8	4	12	5	4	12	7	10
	Helmet not used	Unknown	15	18	6	10	10	6	5	8	11	2
	Helmet use unknown	Unknown	25	14	14	17	16	9	13	12	10	8
	Subtotal	Unknown	58	46	28	31	38	20	22	32	28	20
	Helmet used	All	1,637	1,715	1,513	1,618	1,505	1,580	1,369	1,426	1,527	1,521
	Helmet not used	All	787	957	447	486	440	358	372	356	429	421
	Helmet use unknown	All	612	335	392	359	355	306	310	372	393	430
	Total	All	3,036	3,007	2,352	2,463	2,300	2,244	2,051	2,154	2,349	2,372

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Texas	Helmet used	10-15	1	2	0	0	0	0	0	2	1	0
	Helmet not used	10-15	1	3	1	0	1	2	0	0	0	0
	Subtotal	10-15	2	5	1	0	1	2	0	2	1	0
	Helmet used	16-20	25	13	12	5	8	4	7	3	6	5
	Helmet not used	16-20	7	4	4	3	1	2	1	2	4	7
	Helmet use unknown	16-20	0	1	0	0	2	0	0	1	1	1
	Subtotal	16-20	32	18	16	8	11	6	8	6	11	13
	Helmet used	21-24	26	22	19	27	18	21	10	10	17	8
	Helmet not used	21-24	8	6	6	4	4	1	2	2	7	10
	Helmet use unknown	21-24	1	0	1	0	0	1	1	1	2	1
	Subtotal	21-24	35	28	26	31	22	23	13	13	26	19
	Helmet used	25-34	50	34	32	41	29	36	32	22	7	22
	Helmet not used	25-34	13	10	10	5	4	3	4	10	19	31
	Helmet use unknown	25-34	0	0	0	3	2	0	0	2	2	1
	Subtotal	25-34	63	44	42	49	35	39	36	34	28	54
	Helmet used	35-44	19	12	21	29	23	22	23	18	8	10
	Helmet not used	35-44	7	0	5	7	2	1	2	10	27	31
	Helmet use unknown	35-44	2	0	0	1	0	0	0	2	5	1
	Subtotal	35-44	28	12	26	37	25	23	25	30	40	42
	Helmet used	45-54	10	6	8	12	7	13	18	8	6	10
	Helmet not used	45-54	1	2	1	0	2	2	0	2	12	20
	Helmet use unknown	45-54	0	0	0	0	1	0	0	3	1	0
	Subtotal	45-54	11	8	9	12	10	15	18	13	19	30
	Helmet used	55-64	3	1	3	4	6	4	2	3	7	2
	Helmet not used	55-64	0	0	0	1	0	2	0	2	1	6
	Helmet use unknown	55-64	0	0	0	0	0	0	0	0	1	2
	Subtotal	55-64	3	1	3	5	6	6	2	5	9	10
	Helmet used	65-74	0	1	0	0	1	1	2	6	1	2
	Helmet not used	65-74	0	0	0	0	0	0	0	0	0	0
	Subtotal	65-74	0	1	0	0	1	1	2	6	1	2
	Helmet used	>74	1	0	0	0	1	1	1	1	0	0
	Helmet not used	>74	0	1	0	0	0	0	0	0	1	0
	Subtotal	>74	1	1	0	0	1	1	1	1	1	0
	Helmet used	Unknown	1	0	0	0	0	0	0	0	0	0
	Helmet not used	Unknown	0	0	0	0	0	0	0	2	0	0
	Subtotal	Unknown	1	0	0	0	0	0	0	2	0	0
	Helmet used	All	136	91	95	118	93	102	95	73	53	59
	Helmet not used	All	37	26	27	20	14	13	9	30	71	105
	Helmet use unknown	All	3	1	1	4	5	1	1	9	12	6
	Total	All	176	118	123	142	112	116	105	112	136	170

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Texas	Helmet used	10-15	64	56	51	36	35	32	27	10	19	23
	Helmet not used	10-15	56	61	48	52	43	35	37	22	40	32
	Helmet use unknown	10-15	14	18	15	14	11	5	11	5	6	8
	Subtotal	10-15	134	135	114	102	89	72	75	37	65	63
	Helmet used	16-20	841	714	569	443	371	342	306	246	237	216
	Helmet not used	16-20	117	123	77	69	60	55	42	63	124	136
	Helmet use unknown	16-20	61	30	33	44	42	46	22	41	21	38
	Subtotal	16-20	1,019	867	679	556	473	443	370	350	382	390
	Helmet used	21-24	977	786	778	664	541	509	432	331	254	231
	Helmet not used	21-24	97	69	60	45	48	50	43	62	167	203
	Helmet use unknown	21-24	53	44	29	40	60	61	30	41	44	66
	Subtotal	21-24	1,127	899	867	749	649	620	505	434	465	500
	Helmet used	25-34	1,507	1,265	1,129	985	884	834	883	686	489	490
	Helmet not used	25-34	133	86	77	67	72	81	82	112	365	449
	Helmet use unknown	25-34	78	76	54	70	101	97	75	97	71	90
	Subtotal	25-34	1,718	1,427	1,260	1,122	1,057	1,012	1,040	895	925	1,029
	Helmet used	35-44	704	653	611	576	575	604	621	502	354	370
	Helmet not used	35-44	44	29	33	38	43	37	51	123	360	479
	Helmet use unknown	35-44	23	31	32	40	74	57	39	100	66	90
	Subtotal	35-44	771	713	676	654	692	698	711	725	780	939
	Helmet used	45-54	194	191	235	229	252	261	360	278	250	264
	Helmet not used	45-54	12	11	13	8	12	16	11	55	192	265
	Helmet use unknown	45-54	10	7	17	13	23	32	27	48	41	57
	Subtotal	45-54	216	209	265	250	287	309	398	381	483	586
	Helmet used	55-64	56	69	79	64	64	72	94	82	86	77
	Helmet not used	55-64	3	5	2	3	4	7	1	12	43	63
	Helmet use unknown	55-64	6	3	2	6	9	10	11	19	12	15
	Subtotal	55-64	65	77	83	73	77	89	106	113	141	155
	Helmet used	65-74	33	25	27	21	20	22	46	35	27	17
	Helmet not used	65-74	1	6	2	2	3	2	1	3	5	10
	Helmet use unknown	65-74	1	1	1	1	3	5	3	6	5	5
	Subtotal	65-74	35	32	30	24	26	29	50	44	37	32
	Helmet used	>74	4	4	4	5	7	5	3	3	6	3
	Helmet not used	>74	0	1	0	0	0	1	0	2	2	4
	Helmet use unknown	>74	0	0	1	1	0	0	0	2	0	3
	Subtotal	>74	4	5	5	6	7	6	3	7	8	10
	Helmet used	Unknown	13	19	9	12	13	16	10	6	6	2
	Helmet not used	Unknown	4	5	8	3	3	5	3	3	8	5
	Helmet use unknown	Unknown	7	4	5	1	2	7	3	5	5	4
	Subtotal	Unknown	24	28	22	16	18	28	16	14	19	11
	Helmet used	All	4,393	3,782	3,492	3,035	2,762	2,697	2,782	2,179	1,728	1,693
	Helmet not used	All	467	396	320	287	288	289	271	457	1,306	1,646
	Helmet use unknown	All	253	214	189	230	325	320	221	364	271	376
	Total	All	5,113	4,392	4,001	3,552	3,375	3,306	3,274	3,000	3,305	3,715

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Utah	Helmet used	10-15	0	0	0	0	0	0	0	0	0	0
	Helmet not used	10-15	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	10-15	1	2	0	1	1	0	1	0	0	0
	Subtotal	10-15	1	2	0	1	1	0	1	0	0	0
	Helmet used	16-20	3	1	0	1	1	0	0	0	1	0
	Helmet not used	16-20	0	0	0	0	0	0	1	0	0	0
	Helmet use unknown	16-20	2	3	1	1	3	2	2	2	2	2
	Subtotal	16-20	5	4	1	2	4	2	3	2	3	2
	Helmet used	21-24	0	3	0	0	1	0	1	0	1	0
	Helmet not used	21-24	0	0	0	0	0	0	0	1	0	0
	Helmet use unknown	21-24	2	4	0	4	4	2	1	1	0	0
	Subtotal	21-24	2	7	0	4	5	2	2	2	1	0
	Helmet used	25-34	1	2	2	0	1	0	3	1	0	1
	Helmet not used	25-34	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	25-34	5	2	5	1	2	5	7	4	2	4
	Subtotal	25-34	6	4	7	1	3	5	10	5	2	5
	Helmet used	35-44	0	0	1	0	1	0	1	1	1	1
	Helmet not used	35-44	1	0	0	0	0	0	0	0	0	0
	Helmet use unknown	35-44	3	3	1	1	4	1	2	2	3	5
	Subtotal	35-44	4	3	2	1	5	1	3	3	4	6
	Helmet used	45-54	0	1	1	0	1	0	0	3	1	2
	Helmet not used	45-54	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	45-54	0	0	1	2	2	0	1	2	2	4
	Subtotal	45-54	0	1	2	2	3	0	1	5	3	6
	Helmet used	55-64	0	0	0	0	0	0	0	0	0	0
	Helmet not used	55-64	0	0	0	1	0	0	0	0	0	0
	Helmet use unknown	55-64	0	0	1	0	0	1	0	0	0	0
	Subtotal	55-64	0	0	1	1	0	1	0	0	0	0
	Helmet used	65-74	0	0	0	0	0	0	0	0	0	0
	Helmet not used	65-74	1	0	0	0	0	0	0	0	0	0
	Helmet use unknown	65-74	0	0	2	0	0	0	0	0	0	0
	Subtotal	65-74	1	0	2	0	0	0	0	0	0	0
	Helmet used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet not used	>74	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	>74	0	0	0	0	0	0	0	0	0	1
	Subtotal	>74	0	0	0	0	0	0	0	0	0	1
	Helmet use unknown	Unknown	0	0	0	1	0	0	0	0	0	0
	Subtotal	Unknown	0	0	0	1	0	0	0	0	0	0
	Helmet used	All	4	7	4	1	5	0	5	5	4	4
	Helmet not used	All	2	0	0	1	0	0	1	1	0	0
	Helmet use unknown	All	13	14	11	11	16	11	14	11	9	16
	Total	All	19	21	15	13	21	11	20	17	13	20

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Utah	Helmet used	10-15	8	1	6	0	9	7	4	6	5	4
	Helmet not used	10-15	0	0	0	4	0	0	0	0	0	0
	Helmet use unknown	10-15	18	17	38	36	21	19	16	14	10	8
	Subtotal	10-15	26	18	44	40	30	26	20	20	15	12
	Helmet used	16-20	47	50	57	2	30	27	32	36	34	35
	Helmet not used	16-20	3	3	6	7	7	1	2	1	1	4
	Helmet use unknown	16-20	153	145	176	155	139	109	123	112	80	93
	Subtotal	16-20	203	198	239	164	176	137	157	149	115	132
	Helmet used	21-24	30	47	35	9	18	23	28	20	27	27
	Helmet not used	21-24	4	6	6	5	6	3	4	5	2	4
	Helmet use unknown	21-24	128	92	120	129	111	105	70	69	65	79
	Subtotal	21-24	162	145	161	143	135	131	102	94	94	110
	Helmet used	25-34	49	35	45	1	25	28	31	34	31	46
	Helmet not used	25-34	8	4	5	8	5	3	3	5	6	2
	Helmet use unknown	25-34	148	103	121	118	103	101	117	79	70	78
	Subtotal	25-34	205	142	171	127	133	132	151	118	107	126
	Helmet used	35-44	24	23	30	3	14	10	16	21	17	31
	Helmet not used	35-44	1	3	3	5	8	1	7	5	3	1
	Helmet use unknown	35-44	74	47	55	67	67	66	66	64	57	61
	Subtotal	35-44	99	73	88	75	89	77	89	90	77	93
	Helmet used	45-54	15	11	14	2	9	12	20	14	17	19
	Helmet not used	45-54	0	1	1	3	3	3	4	2	2	4
	Helmet use unknown	45-54	12	18	28	40	16	37	40	44	44	47
	Subtotal	45-54	27	30	43	45	28	52	64	60	63	70
	Helmet used	55-64	8	7	6	0	4	4	7	5	6	21
	Helmet not used	55-64	0	0	1	1	2	0	0	1	3	0
	Helmet use unknown	55-64	8	7	5	9	6	10	6	6	13	15
	Subtotal	55-64	16	14	12	10	12	14	13	12	22	36
	Helmet used	65-74	1	2	0	0	4	0	1	5	1	4
	Helmet not used	65-74	0	0	0	0	0	0	0	0	0	0
	Helmet use unknown	65-74	2	2	5	4	2	2	1	7	2	7
	Subtotal	65-74	3	4	5	4	6	2	2	12	3	11
	Helmet used	>74	0	0	0	0	1	0	0	0	0	0
	Helmet not used	>74	0	0	0	0	0	0	0	1	0	0
	Helmet use unknown	>74	1	2	0	1	1	4	0	0	1	0
	Subtotal	>74	1	2	0	1	2	4	0	1	1	0
	Helmet used	Unknown	1	0	0	0	1	2	1	1	1	1
	Helmet use unknown	Unknown	2	1	2	1	5	2	3	11	2	7
	Subtotal	Unknown	3	1	2	1	6	4	4	12	3	8
	Helmet used	All	183	176	193	17	115	113	140	142	139	188
	Helmet not used	All	16	17	22	33	31	11	20	20	17	15
	Helmet use unknown	All	546	434	550	560	471	455	442	406	344	395
	Total	All	745	627	765	610	617	579	602	568	500	598

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>KILLED</b>												
Washington	Helmet used	10-15	0	0	1	1	0	0	1	*	*	*
	Helmet not used	10-15	0	0	1	1	1	0	2	*	*	*
	Subtotal	10-15	0	0	2	2	1	0	3	*	*	*
	Helmet used	16-20	7	3	4	3	2	2	1	*	*	*
	Helmet not used	16-20	1	1	0	2	0	1	0	*	*	*
	Subtotal	16-20	8	4	4	5	2	3	1	*	*	*
	Helmet used	21-24	8	6	12	3	6	4	7	*	*	*
	Helmet not used	21-24	2	0	0	0	1	0	1	*	*	*
	Helmet use unknown	21-24	0	1	0	0	0	0	0	*	*	*
	Subtotal	21-24	10	7	12	3	7	4	8	*	*	*
	Helmet used	25-34	12	12	12	5	10	9	11	*	*	*
	Helmet not used	25-34	6	0	0	2	2	1	2	*	*	*
	Subtotal	25-34	18	12	12	7	12	10	13	*	*	*
	Helmet used	35-44	9	7	5	11	3	10	4	*	*	*
	Helmet not used	35-44	4	2	0	3	1	0	0	*	*	*
	Subtotal	35-44	13	9	5	14	4	10	4	*	*	*
	Helmet used	45-54	4	2	4	2	4	5	6	*	*	*
	Helmet not used	45-54	1	0	1	1	0	2	0	*	*	*
	Helmet use unknown	45-54	0	0	0	0	1	0	0	*	*	*
	Subtotal	45-54	5	2	5	3	5	7	6	*	*	*
	Helmet used	55-64	1	1	1	1	0	1	1	*	*	*
	Helmet not used	55-64	0	0	0	1	0	0	0	*	*	*
	Subtotal	55-64	1	1	1	2	0	1	1	*	*	*
	Helmet used	65-74	0	0	0	0	0	0	0	*	*	*
	Helmet not used	65-74	0	0	1	0	0	0	0	*	*	*
	Helmet use unknown	65-74	0	0	0	0	0	0	1	*	*	*
	Subtotal	65-74	0	0	1	0	0	0	1	*	*	*
	Helmet used	>74	0	0	0	0	1	0	0	*	*	*
	Helmet not used	>74	0	0	0	0	0	0	0	*	*	*
	Subtotal	>74	0	0	0	0	1	0	0	*	*	*
	Helmet not used	Unknown	1	0	0	0	0	0	0	*	*	*
	Subtotal	Unknown	1	0	0	0	0	0	0	*	*	*
	Helmet used	All	41	31	39	26	26	31	31	*	*	*
	Helmet not used	All	15	3	3	10	5	4	5	*	*	*
	Helmet use unknown	All	0	1	0	0	1	0	1	*	*	*
	Total	All	56	35	42	36	32	35	37	*	*	*

\*Data not available.

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

Virginia is not included in this table because it does not report motorcycle helmet information.



**Table 51: Motorcycle Operators Killed or Injured by Helmet Use and Age**

STATE	HELMET USE	AGE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>INJURED</b>												
Washington	Helmet used	10-15	20	28	25	16	20	21	22	*	*	*
	Helmet not used	10-15	14	15	20	13	8	12	5	*	*	*
	Helmet use unknown	10-15	5	0	2	1	6	2	2	*	*	*
	Subtotal	10-15	39	43	47	30	34	35	29	*	*	*
	Helmet used	16-20	280	233	242	199	157	150	102	*	*	*
	Helmet not used	16-20	86	42	25	17	17	30	13	*	*	*
	Helmet use unknown	16-20	31	20	14	28	4	14	17	*	*	*
	Subtotal	16-20	397	295	281	244	178	194	132	*	*	*
	Helmet used	21-24	268	304	291	215	208	185	149	*	*	*
	Helmet not used	21-24	50	15	17	11	13	18	8	*	*	*
	Helmet use unknown	21-24	26	25	27	17	12	18	21	*	*	*
	Subtotal	21-24	344	344	335	243	233	221	178	*	*	*
	Helmet used	25-34	428	442	461	368	362	346	307	*	*	*
	Helmet not used	25-34	111	35	29	22	27	19	21	*	*	*
	Helmet use unknown	25-34	61	40	37	36	32	48	27	*	*	*
	Subtotal	25-34	600	517	527	426	421	413	355	*	*	*
	Helmet used	35-44	229	286	314	274	292	309	254	*	*	*
	Helmet not used	35-44	53	18	12	11	15	16	11	*	*	*
	Helmet use unknown	35-44	21	36	33	33	28	29	18	*	*	*
	Subtotal	35-44	303	340	359	318	335	354	283	*	*	*
	Helmet used	45-54	91	135	115	140	152	164	167	*	*	*
	Helmet not used	45-54	24	4	4	6	13	16	6	*	*	*
	Helmet use unknown	45-54	9	8	10	7	11	20	18	*	*	*
	Subtotal	45-54	124	147	129	153	176	200	191	*	*	*
	Helmet used	55-64	29	43	40	36	47	57	49	*	*	*
	Helmet not used	55-64	5	3	1	2	2	3	2	*	*	*
	Helmet use unknown	55-64	2	5	4	6	2	8	1	*	*	*
	Subtotal	55-64	36	51	45	44	51	68	52	*	*	*
	Helmet used	65-74	12	8	12	10	13	14	12	*	*	*
	Helmet not used	65-74	1	1	0	0	1	0	0	*	*	*
	Helmet use unknown	65-74	1	0	1	1	4	0	1	*	*	*
	Subtotal	65-74	14	9	13	11	18	14	13	*	*	*
	Helmet used	>74	3	2	6	3	6	1	5	*	*	*
	Helmet not used	>74	0	0	0	1	0	0	0	*	*	*
	Helmet use unknown	>74	1	0	1	0	0	0	0	*	*	*
	Subtotal	>74	4	2	7	4	6	1	5	*	*	*
	Helmet used	Unknown	24	28	14	26	19	10	22	*	*	*
	Helmet not used	Unknown	1	7	2	1	3	2	3	*	*	*
	Helmet use unknown	Unknown	14	13	18	9	14	8	8	*	*	*
	Subtotal	Unknown	39	48	34	36	36	20	33	*	*	*
	Helmet used	All	1,384	1,509	1,520	1,287	1,276	1,257	1,089	*	*	*
	Helmet not used	All	345	140	110	84	99	116	69	*	*	*
	Helmet use unknown	All	171	147	147	138	113	147	113	*	*	*
	Total	All	1,900	1,796	1,777	1,509	1,488	1,520	1,271	*	*	*

Rows listed as "Unknown" are only included where necessary. Operators age 0-9 are included in the "Unknown" category.

Refer to File Characteristics—beginning on page 7 in the Data File Structure—for general and state-specific data notes.

