

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2007 by Alcohol Use and Age

Age Group	Persons Involved	# Injured	Injury Rate	% of All Injuries	Fatal	Fatality Rate per 100,000	Inpatient Hospitalizations	Inpatient Hospitalizations per 100,000	Average Hospital Charge	Median Hospital Charges	Average Length of Stay
1 - Had not been Drinking											
00 - 17	12,209	2,573	21.1%	3.7%	15	122.9	279	2,285.2	\$ 31,620	\$ 16,165	4.61
18 - 34	96,997	18,302	18.9%	26.6%	108	111.3	2,972	3,064.0	\$ 20,351	\$ 10,240	3.84
35 - 64	104,751	20,541	19.6%	29.8%	153	146.1	4,387	4,188.0	\$ 30,594	\$ 16,493	4.99
65+	17,846	3,521	19.7%	5.1%	77	431.5	1,413	7,917.7	\$ 36,444	\$ 19,602	6.19
Not Stated	1,551	110	7.1%	0.2%	1	64.5	1	64.5	*	*	*
Subtotal	233,354	45,047	19.3%	65.5%	354	151.7	9,052	3,879.1	\$ 28,178	\$ 14,713	4.79
2 - Drinking - Obviously Drunk											
00 - 17	79	35	44.3%	0.1%	-	-	8	10,126.6	\$ 36,380	\$ 19,107	4.50
18 - 34	2,833	994	35.1%	1.4%	19	670.7	248	8,754.0	\$ 30,390	\$ 15,619	4.57
35 - 64	1,955	687	35.1%	1.0%	15	767.3	232	11,867.0	\$ 28,428	\$ 17,949	5.16
65+	97	38	39.2%	0.1%	-	-	18	18,556.7	\$ 25,812	\$ 15,959	4.22
Not Stated	46	10	21.7%	0.0%	1	2,173.9	-	-	*	*	*
Subtotal	5,010	1,764	35.2%	2.6%	35	698.6	506	10,099.8	\$ 29,423	\$ 16,669	4.83
3 - Drinking - Ability Impaired											
00 - 17	57	21	36.8%	0.0%	-	-	2	3,508.8	*	*	*
18 - 34	1,271	449	35.3%	0.7%	3	236.0	84	6,609.0	\$ 38,685	\$ 18,792	5.13
35 - 64	733	285	38.9%	0.4%	6	818.6	92	12,551.2	\$ 31,190	\$ 19,141	5.30
65+	46	19	41.3%	0.0%	1	2,173.9	6	13,043.5	\$ 47,765	\$ 31,989	10.00
Not Stated	26	3	11.5%	0.0%	-	-	-	-	*	*	*
Subtotal	2,133	777	36.4%	1.1%	10	468.8	184	8,626.3	\$ 34,974	\$ 18,675	5.34
4 - Drinking - Ability not Impaired											
00 - 17	37	14	37.8%	0.0%	-	-	2	5,405.4	*	*	*
18 - 34	1,102	314	28.5%	0.5%	2	181.5	41	3,720.5	\$ 22,127	\$ 11,214	4.37
35 - 64	737	205	27.8%	0.3%	4	542.7	50	6,784.3	\$ 27,925	\$ 16,461	4.62
65+	52	13	25.0%	0.0%	-	-	6	11,538.5	\$ 31,660	\$ 21,548	4.50
Not Stated	51	-	0.0%	0.0%	-	-	-	-	*	*	*
Subtotal	1,979	546	27.6%	0.8%	6	303.2	99	5,002.5	\$ 25,409	\$ 14,495	4.45
5 - Drinking - Not Known Impaired											
00 - 17	55	27	49.1%	0.0%	2	3,636.4	10	18,181.8	\$ 23,612	\$ 14,767	4.80
18 - 34	1,130	490	43.4%	0.7%	47	4,159.3	168	14,867.3	\$ 45,812	\$ 24,280	5.93
35 - 64	677	317	46.8%	0.5%	39	5,760.7	143	21,122.6	\$ 51,169	\$ 22,492	7.85
65+	34	13	38.2%	0.0%	7	20,588.2	12	35,294.1	\$ 72,678	\$ 33,544	8.08
Not Stated	390	8	2.1%	0.0%	-	-	-	-	*	*	*
Subtotal	2,286	855	37.4%	1.2%	95	4,155.7	333	14,566.9	\$ 48,414	\$ 23,012	6.80
6 - Not Stated											
00 - 17	6,436	6,197	96.3%	9.0%	72	1,118.7	268	4,164.1	\$ 31,504	\$ 13,536	4.82
18 - 34	9,050	6,877	76.0%	10.0%	222	2,453.0	844	9,326.0	\$ 32,034	\$ 13,506	4.98
35 - 64	6,960	5,050	72.6%	7.3%	154	2,212.6	621	8,922.4	\$ 45,088	\$ 20,790	6.87
65+	1,561	1,203	77.1%	1.7%	73	4,676.5	227	14,542.0	\$ 42,733	\$ 23,874	7.07
Not Stated	17,364	506	2.9%	0.7%	5	28.8	-	-	*	*	*
Subtotal	41,371	19,833	47.9%	28.8%	526	1,271.4	1,960	4,737.6	\$ 37,337	\$ 16,578	5.80
State Total	286,133	68,822	24.1%	100.0%	1,026	358.6	12,134	4,240.7	\$ 30,345	\$ 15,247	5.01

* Too few to calculate

Alcohol Use - According to police crash reports, the condition of the driver or pedestrian contributing to the crash which may have also caused injury to passengers or others represented in this report. Values include 1 - Had not been Drinking, 2 - Drinking - Obviously Drunk, 3 - Drinking - Ability Impaired, 4 - Drinking - Ability not Impaired, 5 - Drinking - Not Known Impaired or 6 - Not Stated

Age Group - According to police crash reports the age of occupant grouped into the following categories 0-17, 18-34, 35-64 and 65+

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Persons Involved - Number of persons involved in crashes, according to police crash reports and includes all drivers as well as those passengers and pedestrians who were killed or injured

Injured - Number of persons who were injured according to police crash reports (FR-300); includes 2 - Visible sign of injury - had to be transported, 3 - Other visible injury and 4 - no visible injury but complaint of pain or momentary unconsciousness; # Injured does not include 1 - Dead on Arrival, 5 - Died Later (within 30 days as a result of a traffic crash), 6 - Not Stated or blank values

Injury Rate - Of all persons involved in a crash and categorized within an **Alcohol Use and Age Group, Subtotal or State Total**, the percentage for the Alcohol Use and Age Group, Subtotal or State Total that were injured

% of All Injuries - Of all persons involved in a crash and categorized in an **Alcohol Use and Age Group, Subtotal or State Total**, the percentage of **all** injuries that category represents

Fatal - Number of persons killed, according to police crash reports, and includes those who died at the crash scene or up to 30 days later

Fatality Rate per 100,000 - The fatality rate per 100,000 persons involved in crashes: $(\text{Persons Killed} / \text{Persons Involved}) * 100,000$

Inpatient Hospitalizations - # of persons involved in crashes who were identified by data imputation as having been hospitalized in Virginia

Inpatient Hospitalizations per 100,000 - The hospitalization rate per 100,000 persons involved in crashes: $(\text{Inpatient Hospitalizations}) / (\text{Persons Involved}) * 100,000$

Average Hospital Charge - The total inpatient hospital charges divided by the number of persons hospitalized: $\text{Total Hospital Charges} / \text{Linked to Hospital}$

Median Hospital Charges - The midpoint of all of the hospital charges where half of the values are above the median charge and half are below; the halfway point of a set of numbers is less affected by low or high numbers that might otherwise skew a mean or average

Average Length of Stay - The total inpatient hospital days divided by the number of persons hospitalized: $\text{Total Hospital Days} / \text{Linked to Inpatient Hospitalizations}$

This report is based on Virginia Department of Motor Vehicles crash data combined with Virginia hospital discharge data. Reports produced with small numbers in a grouping may distort rates and averages. Use caution when interpreting these results. Virginia CODES is a cooperative program of the Department of Motor Vehicles, Virginia Department of Health, Virginia Health Information and Inova Regional Trauma Center. For more information please contact info@vacodes.org or 804-643-5573.