

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2002 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	15,777	3,660	23.2%	4.6%	27	171.1	290	1,838.1	\$ 21,435	\$ 10,092	5.42
18 - 34	105,026	21,373	20.4%	27.1%	95	90.5	1,616	1,538.7	\$ 17,476	\$ 9,376	4.30
35 - 64	105,632	21,645	20.5%	27.4%	126	119.3	1,774	1,679.4	\$ 23,577	\$ 11,545	5.36
65+	17,711	3,595	20.3%	4.6%	82	463.0	629	3,551.5	\$ 24,674	\$ 11,395	6.33
Not Stated	1,014	165	16.3%	0.2%	1	98.6	39	3,846.2	\$ 13,398	\$ 1,517	6.26
Subtotal	245,160	50,438	20.6%	63.9%	331	135.0	4,348	1,773.5	\$ 21,234	\$ 10,650	5.12
2 - Drinking - Obviously Drunk											
00 - 17	112	44	39.3%	0.1%	1	892.9	6	5,357.1	\$ 33,142	\$ 15,604	7.33
18 - 34	2,771	1,048	37.8%	1.3%	21	757.8	168	6,062.8	\$ 21,653	\$ 11,515	4.33
35 - 64	2,142	751	35.1%	1.0%	29	1,353.9	143	6,676.0	\$ 23,483	\$ 11,618	5.37
65+	95	30	31.6%	0.0%	1	1,052.6	9	9,473.7	\$ 22,277	\$ 15,050	7.22
Not Stated	43	6	14.0%	0.0%	-	-	1	2,325.6	*	*	*
Subtotal	5,163	1,879	36.4%	2.4%	52	1,007.2	327	6,333.5	\$ 22,662	\$ 11,904	4.92
3 - Drinking - Ability Impaired											
00 - 17	89	44	49.4%	0.1%	-	-	10	11,236.0	\$ 12,909	\$ 9,453	2.20
18 - 34	1,398	476	34.0%	0.6%	14	1,001.4	81	5,794.0	\$ 43,416	\$ 12,142	7.15
35 - 64	858	316	36.8%	0.4%	2	233.1	65	7,575.8	\$ 29,313	\$ 11,672	6.32
65+	52	18	34.6%	0.0%	-	-	5	9,615.4	*	*	*
Not Stated	25	4	16.0%	0.0%	-	-	1	4,000.0	*	*	*
Subtotal	2,422	858	35.4%	1.1%	16	660.6	162	6,688.7	\$ 35,047	\$ 11,736	6.43
4 - Drinking - Ability not Impaired											
00 - 17	25	8	32.0%	0.0%	-	-	2	8,000.0	*	*	*
18 - 34	1,126	299	26.6%	0.4%	-	-	26	2,309.1	\$ 14,693	\$ 8,956	2.85
35 - 64	678	179	26.4%	0.2%	-	-	25	3,687.3	\$ 29,350	\$ 11,756	5.52
65+	43	20	46.5%	0.0%	-	-	2	4,651.2	*	*	*
Not Stated	17	4	23.5%	0.0%	-	-	-	-	*	*	*
Subtotal	1,889	510	27.0%	0.6%	-	-	55	2,911.6	\$ 24,318	\$ 11,718	4.36
5 - Drinking - Not Known Impaired											
00 - 17	69	38	55.1%	0.0%	1	1,449.3	4	5,797.1	*	*	*
18 - 34	1,317	598	45.4%	0.8%	44	3,340.9	135	10,250.6	\$ 34,450	\$ 14,922	6.46
35 - 64	813	429	52.8%	0.5%	33	4,059.0	103	12,669.1	\$ 38,546	\$ 18,571	8.77
65+	38	22	57.9%	0.0%	1	2,631.6	9	23,684.2	\$ 39,396	\$ 18,683	10.22
Not Stated	200	8	4.0%	0.0%	2	1,000.0	-	-	\$	-	-
Subtotal	2,437	1,095	44.9%	1.4%	81	3,323.8	251	10,299.5	\$ 36,545	\$ 16,736	7.63
6 - Not Stated											
00 - 17	8,281	8,099	97.8%	10.3%	59	712.5	229	2,765.4	\$ 19,964	\$ 11,595	4.26
18 - 34	9,454	8,213	86.9%	10.4%	178	1,882.8	371	3,924.3	\$ 30,928	\$ 1,695	6.18
35 - 64	6,689	5,688	85.0%	7.2%	148	2,212.6	289	4,320.5	\$ 35,856	\$ 15,677	7.55
65+	1,600	1,458	91.1%	1.8%	44	2,750.0	128	8,000.0	\$ 35,326	\$ 16,430	8.23
Not Stated	9,708	659	6.8%	0.8%	4	41.2	13	133.9	\$ 6,533	\$ 2,172	3.23
Subtotal	35,732	24,117	67.5%	30.6%	433	1,211.8	1,030	2,882.6	\$ 30,112	\$ 14,407	6.35
State Total	292,803	78,897	26.9%	100.0%	913	311.8	6,173	2,108.2	\$ 23,804	\$ 11,534	5.44

* 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+

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

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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.