

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2001 by Major Factor 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
Alcohol/Drug											
00 - 17	559	395	70.7%	0.5%	9	1,610.0	33	5,903.4	\$ 17,810	\$ 9,256	4.30
18 - 34	5,262	2,333	44.3%	2.9%	93	1,767.4	337	6,404.4	\$ 23,007	\$ 11,579	5.04
35 - 64	3,836	1,564	40.8%	2.0%	72	1,877.0	241	6,282.6	\$ 26,311	\$ 12,328	6.17
65+	245	92	37.6%	0.1%	11	4,489.8	14	5,714.3	\$ 11,783	\$ 7,613	2.36
Not Stated	193	59	30.6%	0.1%	0	-	6	3,108.8	\$ 3,247	\$ 2,108	1.83
Subtotal	10,095	4,443	44.0%	5.5%	185	1,832.6	631	6,250.6	\$ 23,560	\$ 11,504	5.34
Defective Vehicle											
00 - 17	224	130	58.0%	0.2%	0	-	3	1,339.3	*	*	*
18 - 34	1,018	321	31.5%	0.4%	2	196.5	19	1,866.4	\$ 23,802	\$ 19,425	5.95
35 - 64	864	263	30.4%	0.3%	1	115.7	15	1,736.1	\$ 15,782	\$ 10,631	5.67
65+	152	49	32.2%	0.1%	0	-	5	3,289.5	*	*	*
Not Stated	67	7	10.4%	0.0%	0	-	-	-	\$ -	\$ -	-
Subtotal	2,325	770	33.1%	1.0%	3	129.0	42	1,806.5	\$ 18,991	\$ 10,604	5.17
Driver Error/Inattention											
00 - 17	20,165	9,611	47.7%	12.0%	43	213.2	431	2,137.4	\$ 16,740	\$ 8,656	4.03
18 - 34	93,269	23,837	25.6%	29.7%	112	120.1	1,581	1,695.1	\$ 18,466	\$ 9,110	4.93
35 - 64	91,772	22,800	24.8%	28.4%	192	209.2	1,764	1,922.2	\$ 22,541	\$ 10,571	5.76
65+	16,657	4,464	26.8%	5.6%	143	858.5	729	4,376.5	\$ 24,078	\$ 11,232	6.39
Not Stated	8,791	796	9.1%	1.0%	2	22.8	99	1,126.2	\$ 7,341	\$ 1,575	3.64
Subtotal	230,654	61,508	26.7%	76.7%	492	213.3	4,604	1,996.1	\$ 20,515	\$ 9,857	5.37
Miscellaneous Factors											
00 - 17	1,290	699	54.2%	0.9%	1	77.5	33	2,558.1	\$ 34,243	\$ 9,729	6.48
18 - 34	6,039	1,592	26.4%	2.0%	2	33.1	103	1,705.6	\$ 22,527	\$ 13,299	5.03
35 - 64	6,064	1,169	19.3%	1.5%	11	181.4	107	1,764.5	\$ 23,385	\$ 11,029	5.93
65+	662	145	21.9%	0.2%	0	-	11	1,661.6	\$ 14,192	\$ 9,095	4.27
Not Stated	1,378	28	2.0%	0.0%	0	-	-	-	*	*	*
Subtotal	15,433	3,633	23.5%	4.5%	14	90.7	254	1,645.8	\$ 24,050	\$ 11,642	5.56

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Road Defective or Slick											
00 - 17	345	163	47.2%	0.2%	0	-	6	1,739.1	\$ 9,425	\$ 8,037	2.83
18 - 34	1,684	494	29.3%	0.6%	6	356.3	25	1,484.6	\$ 14,816	\$ 8,361	2.92
35 - 64	1,597	470	29.4%	0.6%	6	375.7	30	1,878.5	\$ 14,385	\$ 9,913	4.37
65+	195	72	36.9%	0.1%	2	1,025.6	8	4,102.6	\$ 48,825	\$ 15,720	13.38
Not Stated	97	7	7.2%	0.0%	0	-	1	1,030.9	*	*	*
Subtotal	3,918	1,206	30.8%	1.5%	14	357.3	70	1,786.6	\$ 17,854	\$ 9,951	4.70
Speeding											
00 - 17	1,841	1,165	63.3%	1.5%	38	2,064.1	109	5,920.7	\$ 24,079	\$ 13,572	6.74
18 - 34	4,838	2,129	44.0%	2.7%	102	2,108.3	281	5,808.2	\$ 23,443	\$ 13,204	5.41
35 - 64	2,766	1,095	39.6%	1.4%	63	2,277.7	151	5,459.1	\$ 27,462	\$ 14,540	6.91
65+	302	127	42.1%	0.2%	15	4,966.9	26	8,609.3	\$ 18,966	\$ 13,094	6.19
Not Stated	321	38	11.8%	0.0%	2	623.1	2	623.1	*	*	*
Subtotal	10,068	4,554	45.2%	5.7%	220	2,185.1	569	5,651.6	\$ 24,813	\$ 13,580	6.18
Weather/Visibility Conditions											
00 - 17	1,456	708	48.6%	0.9%	0	-	32	2,197.8	\$ 16,281	\$ 12,452	4.84
18 - 34	6,212	1,499	24.1%	1.9%	0	-	85	1,368.3	\$ 15,954	\$ 8,533	4.53
35 - 64	6,385	1,430	22.4%	1.8%	4	62.6	80	1,252.9	\$ 25,734	\$ 13,861	6.85
65+	1,308	317	24.2%	0.4%	2	152.9	33	2,522.9	\$ 37,869	\$ 9,192	9.27
Not Stated	238	73	30.7%	0.1%	0	-	4	1,680.7	*	*	*
Subtotal	15,599	4,027	25.8%	5.0%	6	38.5	234	1,500.1	\$ 22,253	\$ 9,873	6.01
Not Stated											
00 - 17	19	12	63.2%	0.0%	0	-	-	-	*	*	*
18 - 34	61	18	29.5%	0.0%	0	-	3	4,918.0	*	*	*
35 - 64	72	13	18.1%	0.0%	0	-	-	-	*	*	*
65+	18	4	22.2%	0.0%	1	5,555.6	2	11,111.1	*	*	*
Not Stated	198	-	0.0%	0.0%	0	-	1	505.1	*	*	*
Subtotal	368	47	12.8%	0.1%	1	271.7	6	1,630.4	\$ 40,030	\$ 8,152	7.50
State Total	288,460	80,188	27.8%	100.0%	935	324.1	6,410	2,222.1	21,379	5.46	10,336

* Too few to calculate

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Major Factor - VDOT code derived from information FR300 denoting the primary factor contributing to the crash which may cause injury to the driver, passengers or pedestrians; includes Alcohol/Drug, Defective Vehicle, Driver Error/Inattention, Miscellaneous Factors (avoiding animal, loss of part of load, occupant injured within or fall from vehicle, etc), Road Defective or Slick, Speeding, Weather/Visibility Conditions and 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

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), 6 - Not Stated or blank values

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

% of All Injuries - Of all persons involved in a crash and categorized in a **Major Factor and Age Group, Subtotal or State Total**, the percentage of **all** injuries that category represent

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: (Persons Killed / 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: (Inpatient Hospitalizations)/(Persons Involved) * 100,000

Average Hospital Charge - The total inpatient hospital charges divided by the number of persons hospitalized: Total Hospital Charges / Number Hospitalized

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: Total Hospital Days / 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.