

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2006 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	456	336	73.7%	0.5%	13	2,850.9	29	6,359.649	\$ 29,928	\$ 22,757	4.00
18 - 34	5,308	2,212	41.7%	3.0%	96	1,808.6	359	6,763.376	\$ 31,227	\$ 18,769	4.58
35 - 64	3,875	1,544	39.8%	2.1%	76	1,961.3	348	8,980.645	\$ 36,125	\$ 19,400	5.36
65+	236	82	34.7%	0.1%	7	2,966.1	19	8,050.847	\$ 55,455	\$ 32,521	8.16
Not Stated	1,238	50	4.0%	0.1%	2	161.6	-	-	*	*	*
Subtotal	11,113	4,224	38.0%	5.8%	194	1,745.7	755	6,793.845	\$ 34,044	\$ 19,511	5.01
Defective Vehicle											
00 - 17	209	118	56.5%	0.2%	2	956.9	10	4,784.689	\$ 54,326	\$ 23,335	6.30
18 - 34	1,089	296	27.2%	0.4%	6	551.0	40	3,673.095	\$ 23,883	\$ 13,593	3.98
35 - 64	898	233	25.9%	0.3%	2	222.7	40	4,454.343	\$ 21,021	\$ 12,458	4.60
65+	125	36	28.8%	0.0%	0	-	9	7,200.000	\$ 89,606	\$ 20,645	9.56
Not Stated	169	7	4.1%	0.0%	0	-	-	-	*	*	*
Subtotal	2,490	690	27.7%	0.9%	10	401.6	99	3,975.904	\$ 31,776	\$ 14,457	4.97
Driver Error/Inattention											
00 - 17	17,018	7,924	46.6%	10.8%	51	299.7	476	2,797.038	\$ 28,243	\$ 13,859	5.42
18 - 34	95,232	22,174	23.3%	30.2%	148	155.4	3,539	3,716.188	\$ 20,300	\$ 9,969	3.91
35 - 64	98,939	22,768	23.0%	31.0%	210	212.3	4,370	4,416.863	\$ 29,986	\$ 15,884	5.24
65+	17,127	4,353	25.4%	5.9%	120	700.6	1,232	7,193.320	\$ 37,370	\$ 19,732	6.75
Not Stated	15,943	564	3.5%	0.8%	2	12.5	-	-	*	*	*
Subtotal	244,259	57,783	23.7%	78.8%	531	217.4	9,617	3,937.214	\$ 27,281	\$ 13,571	4.95
Miscellaneous Factors											
00 - 17	1,010	522	51.7%	0.7%	0	-	37	3,663.366	\$ 28,641	\$ 18,237	5.14
18 - 34	6,575	1,489	22.6%	2.0%	1	15.2	240	3,650.190	\$ 21,052	\$ 10,484	4.37
35 - 64	7,300	1,255	17.2%	1.7%	10	137.0	347	4,753.425	\$ 29,978	\$ 17,406	5.41
65+	825	141	17.1%	0.2%	1	121.2	46	5,575.758	\$ 39,208	\$ 20,345	7.57
Not Stated	1,697	22	1.3%	0.0%	0	-	-	-	*	*	*
Subtotal	17,407	3,429	19.7%	4.7%	12	68.9	670	3,849.026	\$ 27,341	\$ 14,181	5.17
Road Defective or Slick											
00 - 17	303	134	44.2%	0.2%	1	330.0	6	1,980.198	\$ 15,375	\$ 12,284	3.17
18 - 34	1,677	416	24.8%	0.6%	4	238.5	60	3,577.818	\$ 21,835	\$ 8,901	4.12
35 - 64	1,528	411	26.9%	0.6%	1	65.4	81	5,301.047	\$ 24,842	\$ 15,653	4.20
65+	164	52	31.7%	0.1%	0	-	14	8,536.585	\$ 59,556	\$ 29,782	10.93
Not Stated	145	9	6.2%	0.0%	0	-	-	-	*	*	*
Subtotal	3,817	1,022	26.8%	1.4%	6	157.2	161	4,217.972	\$ 26,387	\$ 14,073	4.71
Speeding											
00 - 17	889	553	62.2%	0.8%	20	2,249.7	59	6,636.670	\$ 37,628	\$ 23,336	7.49
18 - 34	3,455	1,347	39.0%	1.8%	105	3,039.1	231	6,685.962	\$ 37,301	\$ 18,448	4.84
35 - 64	2,032	695	34.2%	0.9%	59	2,903.5	125	6,151.575	\$ 33,657	\$ 21,008	4.70
65+	272	97	35.7%	0.1%	15	5,514.7	30	11,029.412	\$ 70,022	\$ 22,700	8.83
Not Stated	481	26	5.4%	0.0%	0	-	-	-	*	*	*
Subtotal	7,129	2,718	38.1%	3.7%	199	2,791.4	445	6,242.110	\$ 38,527	\$ 20,134	5.42
Weather/Visibility Conditions											
00 - 17	1,125	534	47.5%	0.7%	0	-	28	2,488.889	\$ 13,324	\$ 9,675	3.00
18 - 34	5,745	1,174	20.4%	1.6%	3	52.2	175	3,046.127	\$ 18,477	\$ 8,478	3.67
35 - 64	6,021	1,258	20.9%	1.7%	5	83.0	244	4,052.483	\$ 29,293	\$ 16,852	5.09
65+	1,289	285	22.1%	0.4%	1	77.6	70	5,430.566	\$ 37,752	\$ 18,239	7.69
Not Stated	491	32	6.5%	0.0%	0	-	-	-	*	*	*
Subtotal	14,671	3,283	22.4%	4.5%	9	61.3	517	3,523.959	\$ 25,912	\$ 12,367	4.85
Not Stated											
00 - 17	45	31	68.9%	0.0%	0	-	4	8,888.889	*	*	*
18 - 34	201	94	46.8%	0.1%	0	-	23	11,442.786	\$ 82,711	\$ 29,270	8.83
35 - 64	140	64	45.7%	0.1%	0	-	13	9,285.714	\$ 18,797	\$ 17,595	3.77
65+	23	7	30.4%	0.0%	0	-	4	17,391.304	\$ 44,169	\$ 26,495	4.50
Not Stated	562	3	0.5%	0.0%	0	-	-	-	*	*	*
Subtotal	971	199	20.5%	0.3%	0	-	44	4,531.411	\$ 58,574	\$ 25,221	7.25
State Total	301,857	73,348	24.3%	100.0%	961	318.4	12,308	4,077.427	\$ 28,185	\$ 14,074	4.98

* Too few to calculate

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Motor Vehicle Crash Outcomes in 2006 by Major Factor and Age

Major Factor - VDOT code derived from information provided by DMV, 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 and Age Group, 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 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: (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 / 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: 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.