

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2003 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	400	301	75.3%	0.4%	12	3,000.0	18	4,500.0	\$ 19,423	\$ 11,602	3.22
18 - 34	5,201	2,173	41.8%	2.8%	75	1,442.0	317	6,095.0	\$ 26,837	\$ 14,115	4.35
35 - 64	3,787	1,460	38.6%	1.9%	79	2,086.1	217	5,730.1	\$ 29,230	\$ 14,556	5.48
65+	248	84	33.9%	0.1%	1	403.2	16	6,451.6	\$ 20,816	\$ 11,830	3.94
Not Stated	179	60	33.5%	0.1%	0	-	2	1,117.3	*	*	*
Subtotal	9,815	4,078	41.5%	5.2%	167	1,701.5	570	5,807.4	\$ 27,315	\$ 14,252	4.73
Defective Vehicle											
00 - 17	234	148	63.2%	0.2%	1	427.4	3	1,282.1	*	*	*
18 - 34	1,480	452	30.5%	0.6%	3	202.7	32	2,162.2	\$ 18,772	\$ 9,774	3.78
35 - 64	1,332	349	26.2%	0.4%	0	-	31	2,327.3	\$ 24,362	\$ 11,058	4.45
65+	170	58	34.1%	0.1%	2	1,176.5	3	1,764.7	*	*	*
Not Stated	92	7	7.6%	0.0%	0	-	0	-	*	*	*
Subtotal	3,308	1,014	30.7%	1.3%	6	181.4	69	2,085.9	\$ 23,153	\$ 11,058	4.42
Driver Error/Inattention											
00 - 17	13,890	7,442	53.6%	9.4%	41	295.2	280	2,015.8	\$ 23,954	\$ 10,169	4.69
18 - 34	96,662	23,462	24.3%	29.8%	134	138.6	2,037	2,107.3	\$ 17,739	\$ 8,525	4.19
35 - 64	99,391	23,378	23.5%	29.7%	205	206.3	2,102	2,114.9	\$ 26,128	\$ 12,654	5.53
65+	17,580	4,515	25.7%	5.7%	146	830.5	847	4,818.0	\$ 26,288	\$ 14,290	6.31
Not Stated	8,692	657	7.6%	0.8%	0	-	18	207.1	\$ 30,754	\$ -	5.11
Subtotal	236,215	59,454	25.2%	75.4%	526	222.7	5,284	2,236.9	\$ 22,821	\$ 10,970	5.09
Miscellaneous Factors											
00 - 17	743	420	56.5%	0.5%	4	538.4	13	1,749.7	\$ 11,855	\$ 7,863	3.31
18 - 34	6,088	1,453	23.9%	1.8%	4	65.7	116	1,905.4	\$ 15,802	\$ 8,387	3.54
35 - 64	6,449	1,132	17.6%	1.4%	4	62.0	122	1,891.8	\$ 19,163	\$ 11,945	4.45
65+	680	149	21.9%	0.2%	0	-	27	3,970.6	\$ 31,640	\$ 14,213	7.37
Not Stated	1,517	28	1.8%	0.0%	0	-	0	-	*	*	*
Subtotal	15,477	3,182	20.6%	4.0%	12	77.5	278	1,796.2	\$ 18,631	\$ 10,030	4.30
Road Defective or Slick											
00 - 17	501	276	55.1%	0.4%	0	-	5	998.0	*	*	*
18 - 34	3,925	993	25.3%	1.3%	7	178.3	79	2,012.7	\$ 16,602	\$ 8,371	3.97
35 - 64	3,360	883	26.3%	1.1%	15	446.4	79	2,351.2	\$ 19,701	\$ 10,485	4.22
65+	344	103	29.9%	0.1%	5	1,453.5	15	4,360.5	\$ 24,843	\$ 11,727	5.13
Not Stated	167	9	5.4%	0.0%	0	-	0	-	*	*	*
Subtotal	8,297	2,264	27.3%	2.9%	27	325.4	178	2,145.4	\$ 18,870	\$ 8,098	4.17
Speeding											
00 - 17	1,148	732	63.8%	0.9%	21	1,829.3	48	4,181.2	\$ 40,214	\$ 15,319	6.44
18 - 34	5,551	2,312	41.7%	2.9%	93	1,675.4	273	4,918.0	\$ 33,637	\$ 15,183	5.82
35 - 64	3,247	1,191	36.7%	1.5%	64	1,971.1	158	4,866.0	\$ 32,221	\$ 15,585	6.42
65+	384	135	35.2%	0.2%	16	4,166.7	28	7,291.7	\$ 42,785	\$ 12,914	9.36
Not Stated	309	38	12.3%	0.0%	1	323.6	3	970.9	*	*	*
Subtotal	10,639	4,408	41.4%	5.6%	195	1,832.9	510	4,793.7	\$ 34,200	\$ 9,365	6.26
Weather/Visibility Conditions											
00 - 17	1,158	694	59.9%	0.9%	1	86.4	22	1,899.8	\$ 16,682	\$ 10,871	5.73
18 - 34	7,287	1,607	22.1%	2.0%	1	13.7	113	1,550.7	\$ 19,988	\$ 7,972	4.57
35 - 64	7,466	1,659	22.2%	2.1%	6	80.4	127	1,701.0	\$ 26,529	\$ 12,005	6.12
65+	1,434	331	23.1%	0.4%	1	69.7	48	3,347.3	\$ 21,220	\$ 14,205	5.35
Not Stated	261	59	22.6%	0.1%	0	-	2	766.3	*	*	*
Subtotal	17,606	4,350	24.7%	5.5%	9	51.1	312	1,772.1	\$ 22,602	\$ 15,217	5.39
Not Stated											
00 - 17	20	13	65.0%	0.0%	0	-	2	10,000.0	*	*	*
18 - 34	125	45	36.0%	0.1%	0	-	5	4,000.0	*	*	*
35 - 64	95	27	28.4%	0.0%	0	-	3	3,157.9	*	*	*
65+	22	5	22.7%	0.0%	0	-	2	9,090.9	*	*	*
Not Stated	314	2	0.6%	0.0%	0	-	0	-	*	*	*
Subtotal	576	92	16.0%	0.1%	0	-	12	2,083.3	\$ 10,376	\$ 11,210	2.08
State Total	301,933	78,842	26.1%	100.0%	942	312.0	7,213	2,388.9	\$ 23,694	\$ 11,318	5.09

* Too few to calculate

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Motor Vehicle Crash Outcomes in 2003 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.