

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2002 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	535	380	71.0%	0.5%	12	2,243.0	32	5,981.3	\$ 22,232	\$ 9,659	4.75
18 - 34	5,306	2,333	44.0%	3.0%	111	2,092.0	301	5,672.8	\$ 26,471	\$ 12,994	5.09
35 - 64	3,833	1,497	39.1%	1.9%	75	1,956.7	227	5,922.3	\$ 27,211	\$ 11,672	5.93
65+	229	96	41.9%	0.1%	2	873.4	21	9,170.3	\$ 22,564	\$ 16,205	6.10
Not Stated	167	50	29.9%	0.1%	3	1,796.4	2	1,197.6	*	*	*
Subtotal	10,070	4,356	43.3%	5.5%	203	2,015.9	583	5,789.5	\$ 26,333	\$ 12,255	5.43
Defective Vehicle											
00 - 17	279	180	64.5%	0.2%	1	358.4	11	3,942.7	\$ 19,185	\$ 18,323	4.64
18 - 34	1,193	347	29.1%	0.4%	5	419.1	28	2,347.0	\$ 15,198	\$ 10,736	3.57
35 - 64	1,037	316	30.5%	0.4%	3	289.3	30	2,893.0	\$ 25,568	\$ 9,883	5.40
65+	131	36	27.5%	0.0%	2	1,526.7	5	3,816.8	*	*	*
Not Stated	74	3	4.1%	0.0%	-	-	-	-	*	*	*
Subtotal	2,714	882	32.5%	1.1%	11	405.3	74	2,726.6	\$ 19,997	\$ 10,896	4.65
Driver Error/Inattention											
00 - 17	18,692	8,771	46.9%	11.1%	44	235.4	367	1,963.4	\$ 19,983	\$ 11,018	4.91
18 - 34	93,484	23,070	24.7%	29.2%	134	143.3	1,576	1,685.8	\$ 20,554	\$ 9,705	4.67
35 - 64	93,149	22,523	24.2%	28.5%	189	202.9	1,718	1,844.4	\$ 25,135	\$ 11,980	5.64
65+	16,409	4,310	26.3%	5.5%	105	639.9	648	3,949.1	\$ 26,234	\$ 12,367	6.51
Not Stated	8,427	668	7.9%	0.8%	4	47.5	40	474.7	\$ 7,033	\$ 1,483	4.08
Subtotal	230,161	59,342	25.8%	75.2%	476	206.8	4,349	1,889.5	\$ 23,038	\$ 11,150	5.34
Miscellaneous Factors											
00 - 17	1,132	576	50.9%	0.7%	-	-	22	1,943.5	\$ 29,151	\$ 13,333	4.09
18 - 34	6,004	1,556	25.9%	2.0%	4	66.6	108	1,798.8	\$ 16,402	\$ 10,341	3.74
35 - 64	6,160	1,223	19.9%	1.6%	2	32.5	116	1,883.1	\$ 30,305	\$ 14,505	6.93
65+	638	124	19.4%	0.2%	1	156.7	16	2,507.8	\$ 27,152	\$ 14,204	7.94
Not Stated	1,431	21	1.5%	0.0%	-	-	3	209.6	*	*	*
Subtotal	15,365	3,500	22.8%	4.4%	7	45.6	265	1,724.7	\$ 24,024	\$ 11,918	5.40
Road Defective or Slick											
00 - 17	399	185	46.4%	0.2%	3	751.9	8	2,005.0	\$ 9,479	\$ 6,720	2.50
18 - 34	2,059	488	23.7%	0.6%	3	145.7	30	1,457.0	\$ 15,210	\$ 9,364	3.33
35 - 64	1,811	462	25.5%	0.6%	-	-	31	1,711.8	\$ 18,119	\$ 9,928	4.55
65+	249	61	24.5%	0.1%	2	803.2	9	3,614.5	\$ 23,735	\$ 14,320	6.56
Not Stated	93	12	12.9%	0.0%	-	-	1	1,075.3	*	*	*
Subtotal	4,611	1,208	26.2%	1.5%	8	173.5	79	1,713.3	\$ 16,574	\$ 9,780	4.09
Speeding											
00 - 17	1,768	1,068	60.4%	1.4%	28	1,583.7	69	3,902.7	\$ 23,075	\$ 12,232	4.81
18 - 34	5,772	2,471	42.8%	3.1%	93	1,611.2	269	4,660.4	\$ 27,366	\$ 14,157	5.94
35 - 64	3,309	1,272	38.4%	1.6%	65	1,964.3	169	5,107.3	\$ 33,515	\$ 14,314	6.56
65+	415	168	40.5%	0.2%	13	3,132.5	40	9,638.6	\$ 43,244	\$ 12,728	9.43
Not Stated	354	28	7.9%	0.0%	-	-	5	1,412.4	*	*	*
Subtotal	11,618	5,007	43.1%	6.3%	199	1,712.9	552	4,751.2	\$ 29,649	\$ 13,858	6.23
Weather/Visibility Conditions											
00 - 17	1,524	721	47.3%	0.9%	-	-	31	2,034.1	\$ 24,573	\$ 7,230	6.87
18 - 34	7,170	1,706	23.8%	2.2%	1	13.9	81	1,129.7	\$ 17,561	\$ 9,644	4.54
35 - 64	7,426	1,692	22.8%	2.1%	4	53.9	107	1,440.9	\$ 21,317	\$ 12,516	6.10
65+	1,455	344	23.6%	0.4%	3	206.2	42	2,886.6	\$ 23,066	\$ 17,249	7.14
Not Stated	264	63	23.9%	0.1%	-	-	3	1,136.4	*	*	*
Subtotal	17,839	4,526	25.4%	5.7%	8	44.8	264	1,479.9	\$ 21,726	\$ 11,389	6.17
Not Stated											
00 - 17	24	12	50.0%	0.0%	-	-	1	4,166.7	*	*	*
18 - 34	104	36	34.6%	0.0%	1	961.5	4	3,846.2	*	*	*
35 - 64	87	23	26.4%	0.0%	-	-	1	1,149.4	*	*	*
65+	13	4	30.8%	0.0%	-	-	1	7,692.3	*	*	*
Not Stated	197	1	0.5%	0.0%	-	-	-	-	*	*	*
Subtotal	425	76	17.9%	0.1%	1	235.3	7	1,647.1	\$ 19,969	\$ 12,245	4.71
State Total	292,803	78,897	26.9%	100.0%	913	311.8	6,410	2,108.2	\$ 23,804	\$ 11,534	5.44

* Too few to calculate

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Motor Vehicle Crash Outcomes in 2002 by Major Factor and Age

Major Factor - VDOT code derived from information on the 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 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.