

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2007 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	384	264	68.8%	0.4%	7	1,822.9	28	7291.7	\$ 29,616	\$ 18,165	4.64
18 - 34	5,234	2,139	40.9%	3.1%	73	1,394.7	411	7852.5	\$ 35,656	\$ 17,515	5.19
35 - 64	3,644	1,429	39.2%	2.1%	52	1,427.0	409	11223.9	\$ 34,585	\$ 18,833	5.82
65+	233	87	37.3%	0.1%	7	3,004.3	28	12017.2	\$ 39,983	\$ 15,957	7.64
Not Stated	1,270	57	4.5%	0.1%	1	78.7	-	0.0	*	*	*
Subtotal	10,765	3,976	36.9%	5.8%	140	1,300.5	876	8137.5	\$ 35,101	\$ 17,961	5.54
Defective Vehicle											
00 - 17	142	73	51.4%	0.1%	2	1,408.5	5	3521.1	*	*	*
18 - 34	1,110	304	27.4%	0.4%	6	540.5	53	4774.8	\$ 23,668	\$ 10,149	4.04
35 - 64	923	260	28.2%	0.4%	4	433.4	59	6392.2	\$ 39,903	\$ 20,559	5.69
65+	119	20	16.8%	0.0%	-	-	8	6722.7	\$ 32,078	\$ 21,135	4.00
Not Stated	142	6	4.2%	0.0%	-	-	-	0.0	*	*	*
Subtotal	2,436	663	27.2%	1.0%	12	492.6	125	5131.4	\$ 31,647	\$ 16,590	4.78
Driver Error/Inattention											
00 - 17	15,399	7,075	45.9%	10.3%	41	266.3	429	2785.9	\$ 31,079	\$ 14,518	4.65
18 - 34	89,483	20,776	23.2%	30.2%	146	163.2	3,212	3589.5	\$ 22,643	\$ 10,720	4.05
35 - 64	94,782	21,906	23.1%	31.8%	230	242.7	4,369	4609.5	\$ 32,345	\$ 16,672	5.22
65+	16,858	4,198	24.9%	6.1%	126	747.4	1,476	8755.5	\$ 38,040	\$ 20,163	6.35
Not Stated	14,988	510	3.4%	0.7%	4	26.7	1	6.7	*	*	*
Subtotal	231,510	54,465	23.5%	79.1%	547	236.3	9,487	4097.9	\$ 29,891	\$ 14,933	4.97
Miscellaneous Factors											
00 - 17	915	465	50.8%	0.7%	1	109.3	34	3715.8	\$ 15,802	\$ 11,663	2.94
18 - 34	5,939	1,384	23.3%	2.0%	7	117.9	204	3434.9	\$ 18,534	\$ 11,821	3.94
35 - 64	6,812	1,247	18.3%	1.8%	6	88.1	284	4169.1	\$ 33,082	\$ 18,205	5.61
65+	790	137	17.3%	0.2%	2	253.2	45	5696.2	\$ 23,772	\$ 16,482	4.76
Not Stated	1,651	11	0.7%	0.0%	-	-	-	0.0	*	*	*
Subtotal	16,107	3,244	20.1%	4.7%	16	99.3	567	3520.2	\$ 26,073	\$ 15,776	4.78
Road Defective or Slick											
00 - 17	352	163	46.3%	0.2%	4	1,136.4	13	3693.2	\$ 40,151	\$ 16,370	9.38
18 - 34	2,248	548	24.4%	0.8%	4	177.9	87	3870.1	\$ 21,963	\$ 10,460	3.25
35 - 64	2,192	516	23.5%	0.7%	9	410.6	84	3832.1	\$ 29,751	\$ 18,744	3.86
65+	212	64	30.2%	0.1%	3	1,415.1	17	8018.9	\$ 18,497	\$ 17,332	5.35
Not Stated	172	8	4.7%	0.0%	-	-	-	0.0	*	*	*
Subtotal	5,176	1,299	25.1%	1.9%	20	386.4	201	3883.3	\$ 26,101	\$ 13,392	4.08
Speeding											
00 - 17	723	400	55.3%	0.6%	34	4,702.6	36	4979.3	\$ 46,680	\$ 17,643	5.42
18 - 34	3,159	1,228	38.9%	1.8%	165	5,223.2	242	7660.7	\$ 38,705	\$ 16,160	5.24
35 - 64	1,873	638	34.1%	0.9%	68	3,630.5	141	7528.0	\$ 29,737	\$ 15,885	4.94
65+	237	81	34.2%	0.1%	20	8,438.8	32	13502.1	\$ 47,982	\$ 19,292	7.66
Not Stated	454	12	2.6%	0.0%	2	440.5	-	0.0	*	*	*
Subtotal	6,446	2,359	36.6%	3.4%	289	4,483.4	451	6996.6	\$ 37,197	\$ 14,384	5.33
Weather/Visibility Conditions											
00 - 17	941	413	43.9%	0.6%	-	-	24	2550.5	\$ 35,479	\$ 20,621	4.67
18 - 34	5,122	1,010	19.7%	1.5%	-	-	142	2772.4	\$ 18,217	\$ 10,681	3.92
35 - 64	5,521	1,061	19.2%	1.5%	2	36.2	168	3042.9	\$ 36,392	\$ 21,351	5.90
65+	1,181	220	18.6%	0.3%	-	-	76	6435.2	\$ 33,782	\$ 20,172	5.83
Not Stated	454	31	6.8%	0.0%	-	-	-	0.0	*	*	*
Subtotal	13,219	2,735	20.7%	4.0%	2	15.1	410	3101.6	\$ 29,561	\$ 16,437	5.13
Not Stated											
00 - 17	17	14	82.4%	0.0%	-	-	-	0.0	*	*	*
18 - 34	88	37	42.0%	0.1%	-	-	6	6818.2	\$ 104,441	\$ 16,279	15.33
35 - 64	66	28	42.4%	0.0%	-	-	11	16666.7	\$ 34,444	\$ 13,008	4.55
65+	6	-	0.0%	0.0%	-	-	-	0.0	*	*	*
Not Stated	297	2	0.7%	0.0%	-	-	-	0.0	*	*	*
Subtotal	474	81	17.1%	0.1%	-	-	17	3586.5	\$ 59,149	\$ 14,993	8.35
State Total	286,133	68,822	24.1%	100.0%	1,026	358.6	12,134	4240.7	\$ 30,345	\$ 15,247	5.01

* Too few to calculate

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Motor Vehicle Crash Outcomes in 2007 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.