

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2004 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
<b>Alcohol/Drug</b>											
00 - 17	441	341	77.3%	0.4%	8	1,814.1	31	7,029.5	\$ 23,634	\$ 12,923	4.16
18 - 34	4,976	2,107	42.3%	2.7%	81	1,627.8	310	6,229.9	\$ 32,313	\$ 15,011	5.90
35 - 64	3,517	1,352	38.4%	1.7%	58	1,649.1	248	7,051.5	\$ 33,972	\$ 17,877	5.83
65+	233	81	34.8%	0.1%	7	3,004.3	18	7,725.3	\$ 29,449	\$ 9,704	6.17
Not Stated	146	48	32.9%	0.1%	1	684.9	1	684.9	*	*	*
<b>Subtotal</b>	<b>9,313</b>	<b>3,929</b>	<b>42.2%</b>	<b>5.0%</b>	<b>155</b>	<b>1,664.3</b>	<b>608</b>	<b>6,528.5</b>	<b>\$ 32,411</b>	<b>\$ 15,555</b>	<b>5.78</b>
<b>Defective Vehicle</b>											
00 - 17	236	124	52.5%	0.2%	0	-	10	4,237.3	\$ 27,950	\$ 21,497	6.50
18 - 34	1,149	321	27.9%	0.4%	5	435.2	34	2,959.1	\$ 30,696	\$ 13,267	5.56
35 - 64	1,086	273	25.1%	0.3%	4	368.3	41	3,775.3	\$ 24,430	\$ 15,908	5.00
65+	133	43	32.3%	0.1%	1	751.9	11	8,270.7	\$ 12,379	\$ 8,064	5.27
Not Stated	72	5	6.9%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>2,676</b>	<b>766</b>	<b>28.6%</b>	<b>1.0%</b>	<b>10</b>	<b>373.7</b>	<b>96</b>	<b>3,587.4</b>	<b>\$ 25,635</b>	<b>\$ 13,463</b>	<b>5.39</b>
<b>Driver Error/Inattention</b>											
00 - 17	18,210	8,602	47.2%	11.0%	40	219.7	579	3,179.6	\$ 21,850	\$ 10,662	5.01
18 - 34	101,012	24,459	24.2%	31.2%	160	158.4	2,516	2,490.8	\$ 21,154	\$ 9,586	4.36
35 - 64	104,601	24,862	23.8%	31.7%	191	182.6	3,747	3,582.2	\$ 24,024	\$ 13,264	5.27
65+	17,697	4,554	25.7%	5.8%	117	661.1	1,273	7,193.3	\$ 29,666	\$ 14,998	6.50
Not Stated	8,399	644	7.7%	0.8%	4	47.6	7	83.3	\$ 7,496	\$ 6,688	3.29
<b>Subtotal</b>	<b>249,919</b>	<b>63,121</b>	<b>25.3%</b>	<b>80.4%</b>	<b>512</b>	<b>204.9</b>	<b>8,122</b>	<b>3,249.9</b>	<b>\$ 23,850</b>	<b>\$ 12,220</b>	<b>5.16</b>
<b>Miscellaneous Factors</b>											
00 - 17	957	510	53.3%	0.6%	1	104.5	29	3,030.3	\$ 15,947	\$ 11,827	2.93
18 - 34	6,043	1,448	24.0%	1.8%	5	82.7	175	2,895.9	\$ 17,707	\$ 8,890	3.98
35 - 64	6,492	1,194	18.4%	1.5%	2	30.8	229	3,527.4	\$ 28,354	\$ 14,005	5.35
65+	712	155	21.8%	0.2%	4	561.8	50	7,022.5	\$ 24,505	\$ 16,802	5.70
Not Stated	1,442	27	1.9%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>15,646</b>	<b>3,334</b>	<b>21.3%</b>	<b>4.2%</b>	<b>12</b>	<b>76.7</b>	<b>483</b>	<b>3,087.1</b>	<b>\$ 23,353</b>	<b>\$ 11,597</b>	<b>4.75</b>
<b>Road Defective or Slick</b>											
00 - 17	419	189	45.1%	0.2%	2	477.3	9	2,148.0	\$ 20,166	\$ 12,212	4.33
18 - 34	2,728	693	25.4%	0.9%	5	183.3	65	2,382.7	\$ 19,464	\$ 9,115	4.02
35 - 64	2,335	620	26.6%	0.8%	8	342.6	101	4,325.5	\$ 21,401	\$ 13,003	4.72
65+	193	58	30.1%	0.1%	2	1,036.3	14	7,253.9	\$ 47,856	\$ 19,739	8.50
Not Stated	106	9	8.5%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>5,781</b>	<b>1,569</b>	<b>27.1%</b>	<b>2.0%</b>	<b>17</b>	<b>294.1</b>	<b>189</b>	<b>3,269.3</b>	<b>\$ 22,636</b>	<b>\$ 11,456</b>	<b>4.74</b>
<b>Speeding</b>											
00 - 17	989	581	58.7%	0.7%	34	3,437.8	71	7,179.0	\$ 28,610	\$ 11,332	4.45
18 - 34	3,642	1,515	41.6%	1.9%	103	2,828.1	218	5,985.7	\$ 39,658	\$ 15,952	6.50
35 - 64	2,056	741	36.0%	0.9%	53	2,577.8	125	6,079.8	\$ 29,324	\$ 14,039	5.74
65+	255	114	44.7%	0.1%	15	5,882.4	27	10,588.2	\$ 31,342	\$ 19,693	5.78
Not Stated	207	11	5.3%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>7,149</b>	<b>2,962</b>	<b>41.4%</b>	<b>3.8%</b>	<b>205</b>	<b>2,867.5</b>	<b>441</b>	<b>6,168.7</b>	<b>\$ 34,441</b>	<b>\$ 14,854</b>	<b>5.91</b>
<b>Weather/Visibility Conditions</b>											
00 - 17	832	410	49.3%	0.5%	1	120.2	36	4,326.9	\$ 20,903	\$ 12,014	3.81
18 - 34	4,044	974	24.1%	1.2%	2	49.5	85	2,101.9	\$ 20,167	\$ 8,700	4.21
35 - 64	4,357	972	22.3%	1.2%	2	45.9	124	2,846.0	\$ 21,935	\$ 14,038	5.19
65+	878	181	20.6%	0.2%	5	569.5	45	5,125.3	\$ 19,148	\$ 12,153	5.20
Not Stated	159	36	22.6%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>10,270</b>	<b>2,573</b>	<b>25.1%</b>	<b>3.3%</b>	<b>10</b>	<b>97.4</b>	<b>290</b>	<b>2,823.8</b>	<b>\$ 20,856</b>	<b>\$ 12,273</b>	<b>4.73</b>
<b>Not Stated</b>											
00 - 17	74	62	83.8%	0.1%	0	-	3	4,054.1	*	*	*
18 - 34	212	77	36.3%	0.1%	1	471.7	12	5,660.4	\$ 21,796	\$ 10,911	5.50
35 - 64	223	72	32.3%	0.1%	0	-	18	8,071.7	\$ 31,912	\$ 20,944	6.22
65+	25	11	44.0%	0.0%	0	-	4	16,000.0	*	*	*
Not Stated	623	10	1.6%	0.0%	0	-	-	-	*	*	*
<b>Subtotal</b>	<b>1,157</b>	<b>232</b>	<b>20.1%</b>	<b>0.3%</b>	<b>1</b>	<b>86.4</b>	<b>37</b>	<b>3,197.9</b>	<b>\$ 28,020</b>	<b>\$ 20,389</b>	<b>6.32</b>
<b>State Total</b>	<b>301,911</b>	<b>78,486</b>	<b>26.0%</b>	<b>100.0%</b>	<b>922</b>	<b>305.4</b>	<b>10,266</b>	<b>3,400.3</b>	<b>\$ 24,713</b>	<b>\$ 12,454</b>	<b>5.20</b>

\* Too few to calculate

# Virginia CODES Crash Outcome Data Evaluation System



## Motor Vehicle Crash Outcomes in 2004 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](mailto:info@vacodes.org) or 804-643-5573.*