

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2005 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	421	320	76.0%	0.4%	7	1,662.7	14	3,325.4	\$ 45,247	\$ 30,700	7.43	
18 - 34	5,110	2,116	41.4%	2.8%	72	1,409.0	289	5,655.6	\$ 39,369	\$ 20,597	5.53	
35 - 64	3,819	1,504	39.4%	2.0%	60	1,571.1	294	7,698.4	\$ 36,434	\$ 17,248	5.93	
65+	195	69	35.4%	0.1%	3	1,538.5	13	6,666.7	\$ 24,456	\$ 16,366	6.54	
Not Stated	558	41	7.3%	0.1%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>10,103</b>	<b>4,050</b>	<b>40.1%</b>	<b>5.3%</b>	<b>142</b>	<b>1,405.5</b>	<b>610</b>	<b>6,037.8</b>	<b>\$ 37,772</b>	<b>\$ 11,147</b>	<b>5.79</b>	
<b>Defective Vehicle</b>												
00 - 17	149	72	48.3%	0.1%	1	671.1	6	4,026.8	\$ 25,159	\$ 16,541	3.00	
18 - 34	923	267	28.9%	0.4%	2	216.7	24	2,600.2	\$ 30,828	\$ 10,238	5.46	
35 - 64	858	242	28.2%	0.3%	4	466.2	39	4,545.5	\$ 22,612	\$ 11,348	4.23	
65+	106	34	32.1%	0.0%	1	943.4	9	8,490.6	\$ 19,413	\$ 6,667	3.22	
Not Stated	65	5	7.7%	0.0%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>2,101</b>	<b>620</b>	<b>29.5%</b>	<b>0.8%</b>	<b>8</b>	<b>380.8</b>	<b>78</b>	<b>3,712.5</b>	<b>\$ 24,967</b>	<b>\$ 13,128</b>	<b>4.40</b>	
<b>Driver Error/Inattention</b>												
00 - 17	17,561	8,125	46.3%	10.7%	55	313.2	355	2,021.5	\$ 29,298	\$ 15,957	5.02	
18 - 34	97,085	22,906	23.6%	30.1%	138	142.1	2,747	2,829.5	\$ 20,450	\$ 9,612	4.10	
35 - 64	100,700	23,519	23.4%	30.9%	206	204.6	3,863	3,836.1	\$ 28,842	\$ 14,700	5.35	
65+	16,942	4,296	25.4%	5.7%	124	731.9	1,129	6,663.9	\$ 31,460	\$ 17,331	6.54	
Not Stated	10,111	556	5.5%	0.7%	5	49.5	-	-	*	*	*	
<b>Subtotal</b>	<b>242,399</b>	<b>59,402</b>	<b>24.5%</b>	<b>78.1%</b>	<b>528</b>	<b>217.8</b>	<b>8,094</b>	<b>3,339.1</b>	<b>\$ 26,379</b>	<b>\$ 13,128</b>	<b>5.08</b>	
<b>Miscellaneous Factors</b>												
00 - 17	1,178	605	51.4%	0.8%	-	-	27	2,292.0	\$ 32,934	\$ 22,093	5.30	
18 - 34	6,349	1,544	24.3%	2.0%	5	78.8	167	2,630.3	\$ 21,510	\$ 10,662	4.35	
35 - 64	6,947	1,289	18.6%	1.7%	3	43.2	299	4,304.0	\$ 31,410	\$ 15,889	5.68	
65+	774	152	19.6%	0.2%	2	258.4	33	4,263.6	\$ 58,757	\$ 15,283	9.48	
Not Stated	1,565	29	1.9%	0.0%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>16,813</b>	<b>3,619</b>	<b>21.5%</b>	<b>4.8%</b>	<b>10</b>	<b>59.5</b>	<b>526</b>	<b>3,128.5</b>	<b>\$ 30,061</b>	<b>\$ 14,211</b>	<b>5.48</b>	
<b>Road Defective or Slick</b>												
00 - 17	446	212	47.5%	0.3%	1	224.2	9	2,017.9	\$ 30,845	\$ 8,676	4.89	
18 - 34	2,718	701	25.8%	0.9%	7	257.5	69	2,538.6	\$ 24,510	\$ 11,841	4.52	
35 - 64	2,590	682	26.3%	0.9%	12	463.3	88	3,397.7	\$ 34,836	\$ 15,339	7.19	
65+	218	68	31.2%	0.1%	1	458.7	12	5,504.6	\$ 25,924	\$ 19,280	4.17	
Not Stated	142	14	9.9%	0.0%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>6,114</b>	<b>1,677</b>	<b>27.4%</b>	<b>2.2%</b>	<b>21</b>	<b>343.5</b>	<b>178</b>	<b>2,911.4</b>	<b>\$ 30,031</b>	<b>\$ 13,538</b>	<b>5.84</b>	
<b>Speeding</b>												
00 - 17	864	489	56.6%	0.6%	36	4,166.7	38	4,398.1	\$ 35,880	\$ 22,168	5.11	
18 - 34	3,440	1,393	40.5%	1.8%	86	2,500.0	176	5,116.3	\$ 43,015	\$ 20,072	6.79	
35 - 64	2,211	814	36.8%	1.1%	90	4,070.6	151	6,829.5	\$ 47,492	\$ 18,890	8.45	
65+	258	86	33.3%	0.1%	13	5,038.8	14	5,426.4	\$ 41,023	\$ 17,391	5.21	
Not Stated	306	15	4.9%	0.0%	1	326.8	-	-	*	*	*	
<b>Subtotal</b>	<b>7,079</b>	<b>2,797</b>	<b>39.5%</b>	<b>3.7%</b>	<b>226</b>	<b>3,192.5</b>	<b>379</b>	<b>5,353.9</b>	<b>\$ 44,010</b>	<b>\$ 19,951</b>	<b>7.22</b>	
<b>Weather/Visibility Conditions</b>												
00 - 17	1,158	543	46.9%	0.7%	-	-	28	2,418.0	\$ 20,686	\$ 16,563	4.11	
18 - 34	6,147	1,289	21.0%	1.7%	1	16.3	163	2,651.7	\$ 18,282	\$ 8,800	4.84	
35 - 64	6,416	1,286	20.0%	1.7%	2	31.2	201	3,132.8	\$ 25,627	\$ 15,374	5.42	
65+	1,284	282	22.0%	0.4%	3	233.6	60	4,672.9	\$ 35,047	\$ 19,176	8.22	
Not Stated	342	39	11.4%	0.1%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>15,347</b>	<b>3,439</b>	<b>22.4%</b>	<b>4.5%</b>	<b>6</b>	<b>39.1</b>	<b>452</b>	<b>2,945.2</b>	<b>\$ 23,922</b>	<b>\$ 13,980</b>	<b>5.50</b>	
<b>Not Stated</b>												
00 - 17	100	74	74.0%	0.1%	-	-	6	6,000.0	\$ 41,100	\$ 20,323	8.67	
18 - 34	387	167	43.2%	0.2%	-	-	42	10,852.7	\$ 54,857	\$ 21,129	8.14	
35 - 64	330	142	43.0%	0.2%	3	909.1	29	8,787.9	\$ 59,576	\$ 54,556	9.69	
65+	59	29	49.2%	0.0%	2	3,389.8	19	32,203.4	\$ 125,589	\$ 43,800	16.21	
Not Stated	986	7	0.7%	0.0%	-	-	-	-	*	*	*	
<b>Subtotal</b>	<b>1,862</b>	<b>419</b>	<b>22.5%</b>	<b>0.6%</b>	<b>5</b>	<b>268.5</b>	<b>96</b>	<b>5,155.7</b>	<b>\$ 69,422</b>	<b>\$ 32,858</b>	<b>10.24</b>	
<b>State Total</b>	<b>301,818</b>	<b>76,023</b>	<b>25.2%</b>	<b>100.0%</b>	<b>946</b>	<b>313.4</b>	<b>10,413</b>	<b>3,450.1</b>	<b>\$ 28,216</b>	<b>\$ 13,830</b>	<b>5.29</b>	

\* Too few to calculate

# Virginia CODES Crash Outcome Data Evaluation System



## Motor Vehicle Crash Outcomes in 2005 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.*