

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2004 by Vehicle Type											
Vehicle Type	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
Bicycle/Moped	1,129	1,053	93.3%	1.3%	13	1,151.5	121	10,717.4	\$ 24,155	\$ 16,809	4.69
City/Private/Commercial Buses	746	208	27.9%	0.3%	0	-	19	2,546.9	\$ 11,689	\$ 8,771	5.00
Emergency Vehicle	1,283	321	25.0%	0.4%	0	-	28	2,182.4	\$ 13,804	\$ 11,331	4.32
Large Commercial Truck	4,977	569	11.4%	0.7%	8	160.7	138	2,772.8	\$ 30,030	\$ 12,489	5.51
Motorcycle	2,226	1,768	79.4%	2.3%	55	2,470.8	409	18,373.8	\$ 36,137	\$ 17,302	5.37
Other Vehicle Types	676	199	29.4%	0.3%	15	2,218.9	46	6,804.7	\$ 45,560	\$ 19,079	8.80
Passenger Car	171,333	47,219	27.6%	60.2%	496	289.5	5,716	3,336.2	\$ 23,616	\$ 12,009	5.10
Pick-Up Truck / SUV	80,260	18,021	22.5%	23.0%	189	235.5	2,537	3,161.0	\$ 24,237	\$ 12,308	5.12
School Bus	1,092	359	32.9%	0.5%	0	-	35	3,205.1	\$ 15,778	\$ 9,725	5.14
Tractor-Trailer Truck	5,820	613	10.5%	0.8%	12	206.2	146	2,508.6	\$ 21,758	\$ 12,061	4.29
Van	21,786	5,685	26.1%	7.2%	40	183.6	670	3,075.4	\$ 23,741	\$ 11,321	5.21
Not Stated	10,583	2,471	23.3%	3.1%	94	888.2	401	3,789.1	\$ 32,523	\$ 16,895	6.96
<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>

**Vehicle Type** - According to police crash reports includes Bicycle/Moped, City/Private/Commercial Buses, Emergency Vehicle, Large Commercial Truck, Motorcycle, Other Vehicle Types (Motor homes, Farm Equipment, Hearse, etc.), Passenger Car, Pick-up Truck, School Bus, Tractor-Trailer Truck, Van and Not Stated

**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 in specific vehicle such as passenger cars, emergency vehicles etc, 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, in specific vehicle such as passenger cars, emergency vehicles etc, and categorized within a **Vehicle Type Group or State Total**, the percentage for the Vehicle Type Group or State Total that were injured

**% of All Injuries** - Of all persons involved in a crash and categorized in a **Vehicle Type Group 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 / 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.*