

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2007 by Intersection Type											
Intersection 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
1 - Intersection	27,063	5,992	22.1%	8.7%	38	140.4	869	3,211.0	\$ 23,970	\$ 13,715	4.38
2 - Crossing	8,007	2,347	29.3%	3.4%	43	537.0	398	4,970.7	\$ 33,302	\$ 15,760	5.32
3 - T - Intersection	19,271	5,176	26.9%	7.5%	79	409.9	971	5,038.7	\$ 31,921	\$ 15,823	5.05
4 - Branch	1,739	446	25.6%	0.6%	7	402.5	86	4,945.4	\$ 42,218	\$ 19,015	6.95
5 - Offset	981	240	24.5%	0.3%	3	305.8	40	4,077.5	\$ 61,018	\$ 15,094	6.60
6 - 5 Way or More	73	18	24.7%	0.0%	1	1,369.9	4	5,479.5	\$ 19,356	\$ 15,528	5.50
7 - Major Channelization	6	1	16.7%	0.0%	0	-	-	-	*	*	*
8 - Interchange	11,134	2,501	22.5%	3.6%	36	323.3	389	3,493.8	\$ 30,630	\$ 16,228	5.00
Not near an interchange	217,859	52,101	23.9%	75.7%	819	375.9	9,377	4,304.2	\$ 30,400	\$ 15,270	5.03
<b>State Total</b>	<b>286,133</b>	<b>68,822</b>	<b>24.1%</b>	<b>100.0%</b>	<b>1,026</b>	<b>358.6</b>	<b>12,134</b>	<b>4,240.7</b>	<b>\$ 30,345</b>	<b>\$ 15,247</b>	<b>5.01</b>

**Intersection Type** - Based on VDOT's road inventory and is defined as a crash occurring at an intersection. Included the following categories: Signalized (any intersection that contains a traffic light, supersedes all other categories), Crossing (All crossroads at grade regardless of intersecting angle), T-Intersection (leg enters between 80 and 100 degree angle), Branch (one leg enters at angle other than 'T' angle), Offset (all offset intersections when offset does not exceed 150 feet), 5 Way or More (any intersection in which 5 or more legs come together), Major Channelization (is the separation or regulation of conflicting traffic movements into definite paths of travel usually by means of a fixed barrier, traffic circles), Interchange (grade separation of intersection leg, cloverleafs)

**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 **Intersection Type Group or State Total**, the percentage for the Intersection Type Group or State Total that were injured

**% of All Injuries** - Of all persons involved in a crash and categorized in a **Intersection 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.*