

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2001 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 - Signalized	27,246	6,564	24.1%	8.2%	29	106.4	429	1,574.5	\$ 17,461	\$ 9,488	4.87
2 - Crossing	9,099	2,936	32.3%	3.7%	68	747.3	232	2,549.7	\$ 24,076	\$ 10,840	6.17
3 - T - Intersection	19,148	5,871	30.7%	7.3%	106	553.6	489	2,553.8	\$ 20,732	\$ 10,540	5.08
4 - Branch	1,245	451	36.2%	0.6%	7	562.2	42	3,373.5	\$ 21,423	\$ 11,703	5.36
5 - Offset	1,194	353	29.6%	0.4%	5	418.8	21	1,758.8	\$ 26,260	\$ 12,496	7.19
6 - 5 Way or More	85	27	31.8%	0.0%	0	-	1	1,176.5	*	*	*
7 - Major Channelization	7	1	14.3%	0.0%	0	-	-	-	*	*	*
8 - Interchange	11,353	2,786	24.5%	3.5%	37	325.9	229	2,017.1	\$ 18,498	\$ 9,541	4.98
Not at an Intersection	219,083	61,199	27.9%	76.3%	683	311.8	4,967	2,267.2	\$ 21,767	\$ 10,366	5.54
<b>State Total</b>	<b>288,460</b>	<b>80,188</b>	<b>27.8%</b>	<b>100.0%</b>	<b>935</b>	<b>324.1</b>	<b>6,410</b>	<b>2,222.1</b>	<b>\$ 21,379</b>	<b>\$ 10,333</b>	<b>5.46</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 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 / Number Hospitalized

**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.*