

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2005 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	28,332	6,370	22.5%	8.4%	36	127.1	890	3,141.3	\$ 23,055	\$ 11,181	4.93
2 - Crossing	8,929	2,633	29.5%	3.5%	37	414.4	333	3,729.4	\$ 29,162	\$ 14,150	5.82
3 - T - Intersection	20,120	5,596	27.8%	7.4%	86	427.4	772	3,837.0	\$ 29,574	\$ 14,055	5.16
4 - Branch	1,552	432	27.8%	0.6%	5	322.2	57	3,672.7	\$ 40,699	\$ 12,743	7.37
5 - Offset	1,077	273	25.3%	0.4%	4	371.4	35	3,249.8	\$ 18,867	\$ 12,220	3.60
6 - 5 Way or More	70	23	32.9%	0.0%	0	-	-	-	*	*	*
7 - Major Channelization	15	5	33.3%	0.0%	0	-	2	13,333.3	*	*	*
8 - Interchange	11,843	2,734	23.1%	3.6%	24	202.7	369	3,115.8	\$ 24,363	\$ 13,684	4.37
Not at an Intersection	229,880	57,957	25.2%	76.2%	754	328.0	7,955	3,460.5	\$ 28,757	\$ 14,088	5.36
<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>

**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, cloverleaves)

**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.*