

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2006 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	29,270	6,520	22.3%	8.9%	48	164.0	1,060	3,621.5	\$ 23,524	\$ 12,379	4.58
2 - Crossing	8,581	2,501	29.1%	3.4%	36	419.5	360	4,195.3	\$ 25,090	\$ 15,334	4.71
3 - T - Intersection	20,450	5,512	27.0%	7.5%	74	361.9	910	4,449.9	\$ 29,554	\$ 13,884	5.45
4 - Branch	1,753	471	26.9%	0.6%	4	228.2	72	4,107.2	\$ 43,015	\$ 14,199	6.74
5 - Offset	1,000	259	25.9%	0.4%	3	300.0	44	4,400.0	\$ 27,540	\$ 16,345	5.48
6 - 5 Way or More	123	45	36.6%	0.1%	0	-	4	3,252.0	*	*	*
7 - Major Channelization	13	-	0.0%	0.0%	0	-	-	-	*	*	*
8 - Interchange	11,738	2,649	22.6%	3.6%	37	315.2	479	4,080.8	\$ 23,288	\$ 12,314	3.94
Not near an interchange	228,929	55,391	24.2%	75.5%	759	331.5	9,379	4,096.9	\$ 28,841	\$ 14,312	5.03
<b>State Total</b>	<b>301,857</b>	<b>73,348</b>	<b>24.3%</b>	<b>100.0%</b>	<b>961</b>	<b>318.4</b>	<b>12,308</b>	<b>4,077.4</b>	<b>\$ 28,185</b>	<b>\$ 14,074</b>	<b>4.98</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.*