

Virginia CODES Crash Outcome Data Evaluation System



| Motor Vehicle Crash Outcomes in 2003 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 | 27,811 | 6,497 | 23.4% | 8.2% | 40 | 143.8 | 514 | 1,848.2 | \$ 16,849 | \$ 8,849 | 4.11 |
| 2 - Crossing | 8,808 | 2,644 | 30.0% | 3.4% | 66 | 749.3 | 248 | 2,815.6 | \$ 29,052 | \$ 13,299 | 5.86 |
| 3 - T - Intersection | 19,640 | 5,810 | 29.6% | 7.4% | 104 | 529.5 | 528 | 2,688.4 | \$ 22,190 | \$ 11,683 | 5.05 |
| 4 - Branch | 1,155 | 335 | 29.0% | 0.4% | 10 | 865.8 | 42 | 3,636.4 | \$ 30,883 | \$ 15,179 | 5.50 |
| 5 - Offset | 1,008 | 275 | 27.3% | 0.3% | 3 | 297.6 | 23 | 2,281.7 | \$ 24,654 | \$ 9,597 | 6.43 |
| 6 - 5 Way or More | 77 | 22 | 28.6% | 0.0% | 0 | - | 3 | 3,896.1 | \$ 10,161 | \$ 6,474 | 5.00 |
| 7 - Major Channelization | 1 | 0 | 0.0% | 0.0% | 0 | - | 0 | - | * | * | * |
| 8 - Interchange | 12,447 | 2,999 | 24.1% | 3.8% | 29 | 233.0 | 286 | 2,297.7 | \$ 21,176 | \$ 7,019 | 4.67 |
| Not at an Intersection | 230,986 | 60,260 | 26.1% | 76.4% | 690 | 298.7 | 5,569 | 2,411.0 | \$ 24,309 | \$ 11,549 | 5.17 |
| State Total | 301,933 | 78,842 | 26.1% | 100.0% | 942 | 312.0 | 7,213 | 2,388.9 | \$ 23,694 | \$ 11,318 | 5.09 |

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 or 804-643-5573.