

Virginia CODES Crash Outcome Data Evaluation System



| Motor Vehicle Crash Outcomes in 2004 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 | 28,699 | 6,428 | 8.2% | 22.4% | 39 | 135.9 | 804 | 2,801.5 | \$ 21,649 | \$ 11,406 | 5.14 |
| 2 - Crossing | 9,085 | 2,685 | 3.4% | 29.6% | 37 | 407.3 | 336 | 3,698.4 | \$ 24,438 | \$ 12,311 | 5.37 |
| 3 - T - Intersection | 20,175 | 5,789 | 7.4% | 28.7% | 62 | 307.3 | 764 | 3,786.9 | \$ 26,236 | \$ 12,097 | 5.20 |
| 4 - Branch | 1,412 | 460 | 0.6% | 32.6% | 10 | 708.2 | 70 | 4,957.5 | \$ 19,770 | \$ 10,563 | 4.44 |
| 5 - Offset | 1,024 | 255 | 0.3% | 24.9% | 3 | 293.0 | 33 | 3,222.7 | \$ 26,819 | \$ 19,625 | 5.15 |
| 6 - 5 Way or More | 83 | 19 | 0.0% | 22.9% | 1 | 1,204.8 | 2 | 2,409.6 | \$ 19,376 | \$ 19,376 | 4.50 |
| 7 - Major Channelization | 8 | 1 | 0.0% | 12.5% | 0 | - | - | - | | | |
| 8 - Interchange | 12,803 | 2,900 | 3.7% | 22.7% | 37 | 289.0 | 357 | 2,788.4 | \$ 26,414 | \$ 11,964 | 5.02 |
| Not at an Intersection | 228,622 | 59,949 | 76.4% | 26.2% | 733 | 320.6 | 7,900 | 3,455.5 | \$ 24,849 | \$ 12,623 | 5.21 |
| State Total | 301,911 | 78,486 | 100.0% | 26.0% | 922 | 305.4 | 10,266 | 3,400.3 | \$ 24,713 | \$ 12,454 | 5.20 |

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 or 804-643-5573.