

# Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2003 by Major Factor

| Major Factor                  | 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 |
|-------------------------------|------------------|---------------|--------------|-------------------|------------|---------------------------|----------------------------|--|-------------------------|-------------------------|------------------------|
| Alcohol/Drug                  | 9,815            | 4,078         | 41.5%        | 5.2%              | 167        | 1,701.5                   | 570                        | 5,807.4                                | \$ 27,315               | \$ 14,252               | 4.73                   |
| Defective Vehicle             | 3,308            | 1,014         | 30.7%        | 1.3%              | 6          | 181.4                     | 69                         | 2,085.9                                | \$ 23,153               | \$ 11,058               | 4.42                   |
| Driver Error/Inattention      | 236,215          | 59,454        | 25.2%        | 75.4%             | 526        | 222.7                     | 5,284                      | 2,236.9                                | \$ 22,821               | \$ 10,970               | 5.09                   |
| Miscellaneous Factors         | 15,477           | 3,182         | 20.6%        | 4.0%              | 12         | 77.5                      | 278                        | 1,796.2                                | \$ 18,631               | \$ 10,030               | 4.30                   |
| Road Defective or Slick       | 8,297            | 2,264         | 27.3%        | 2.9%              | 27         | 325.4                     | 178                        | 2,145.4                                | \$ 18,870               | \$ 8,098                | 4.17                   |
| Speeding                      | 10,639           | 4,408         | 41.4%        | 5.6%              | 195        | 1,832.9                   | 510                        | 4,793.7                                | \$ 34,200               | \$ 9,365                | 6.26                   |
| Weather/Visibility Conditions | 17,606           | 4,350         | 24.7%        | 5.5%              | 9          | 51.1                      | 312                        | 1,772.1                                | \$ 22,602               | \$ 15,217               | 5.39                   |
| Not Stated                    | 576              | 92            | 16.0%        | 0.1%              | 0          | -                         | 12                         | 2,083.3                                | \$ 10,376               | \$ 11,210               | 2.08                   |
| <b>State Total</b>            | <b>301,933</b>   | <b>78,842</b> | <b>26.1%</b> | <b>100.0%</b>     | <b>942</b> | <b>312.0</b>              | <b>7,213</b>               | <b>2,388.9</b>                         | <b>\$ 23,694</b>        | <b>\$ 11,318</b>        | <b>5.09</b>            |

**Major Factor** - VDOT code derived from information FR300 denoting the primary factor contributing to the crash which may cause injury to the driver, passengers or pedestrians; includes Alcohol/Drug, Defective Vehicle, Driver Error/Inattention, Miscellaneous Factors (avoiding animal, loss of part of load, occupant injured within or fall from vehicle, etc), Road Defective or Slick, Speeding, Weather/Visibility Conditions and Not Stated

**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 **Major Factor Group or State Total**, the percentage for the Major Factor Group or State Total that were injured

**% of All Injuries** - Of all persons involved in a crash and categorized in a **Major Factor 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.*