

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2004 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 | 9,313 | 3,929 | 42.2% | 5.0% | 155 | 1,664.34 | 608 | 6,528.5 | \$ 32,411 | \$ 15,555 | 5.78 |
| Defective Vehicle | 2,676 | 766 | 28.6% | 1.0% | 10 | 373.69 | 96 | 3,587.4 | \$ 25,635 | \$ 13,463 | 5.39 |
| Driver Error/Inattention | 249,919 | 63,121 | 25.3% | 80.4% | 512 | 204.87 | 8,122 | 3,249.9 | \$ 23,850 | \$ 13,463 | 5.16 |
| Miscellaneous Factors | 15,646 | 3,334 | 21.3% | 4.2% | 12 | 76.70 | 483 | 3,087.1 | \$ 23,353 | \$ 12,220 | 4.75 |
| Road Defective or Slick | 5,781 | 1,569 | 27.1% | 2.0% | 17 | 294.07 | 189 | 3,269.3 | \$ 22,636 | \$ 14,854 | 4.74 |
| Speeding | 7,149 | 2,962 | 41.4% | 3.8% | 205 | 2,867.53 | 441 | 6,168.7 | \$ 34,441 | \$ 12,273 | 5.91 |
| Weather/Visibility Conditions | 10,270 | 2,573 | 25.1% | 3.3% | 10 | 97.37 | 290 | 2,823.8 | \$ 20,856 | \$ 20,389 | 4.73 |
| Not Stated | 1,157 | 232 | 20.1% | 0.3% | 1 | 86.43 | 37 | 3,197.9 | \$ 28,020 | \$ 11,456 | 6.32 |
| State Total | 301,911 | 78,486 | 26.0% | 100.0% | 922 | 305.39 | 10,266 | 3,400.3 | \$ 24,713 | \$ 12,454 | 5.20 |

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 or 804-643-5573.