

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2003 by Vehicle Type and Age											
Age Group	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
Bicycle/Moped											
00 - 17	366	352	96.2%	0.4%	1	273.2	22	6,010.9	\$ 24,780	\$ 13,838	6.18
18 - 34	324	287	88.6%	0.4%	2	617.3	27	8,333.3	\$ 29,180	\$ 17,427	4.93
35 - 64	276	236	85.5%	0.3%	8	2,898.6	30	10,869.6	\$ 29,003	\$ 17,542	6.50
65+	23	16	69.6%	0.0%	0	-	5	21,739.1	*	*	*
Not Stated	65	55	84.6%	0.1%	0	-	0	-	*	*	*
Subtotal	1,054	946	89.8%	1.2%	11	1,043.6	84	7,969.6	\$ 29,691	\$ 15,290	6.32
City/Private/Commercial Buses											
00 - 17	95	95	100.0%	0.1%	0	-	1	1,052.6	*	*	*
18 - 34	166	60	36.1%	0.1%	0	-	4	2,409.6	*	*	*
35 - 64	554	109	19.7%	0.1%	0	-	8	1,444.0	\$ 17,257	\$ 15,899	4.00
65+	74	26	35.1%	0.0%	0	-	12	16,216.2	\$ 33,958	\$ 13,801	6.58
Not Stated	19	13	68.4%	0.0%	0	-	0	-	*	*	*
Subtotal	908	303	33.4%	0.4%	0	-	25	2,753.3	\$ 25,054	\$ 13,546	5.44
Emergency Vehicle											
00 - 17	2	2	100.0%	0.0%	0	-	0	-	*	*	*
18 - 34	646	180	27.9%	0.2%	0	-	2	309.6	*	*	*
35 - 64	506	127	25.1%	0.2%	0	-	10	1,976.3	\$ 35,674	\$ 10,639	7.00
65+	8	1	12.5%	0.0%	2	25,000.0	1	12,500.0	*	*	*
Not Stated	15	2	13.3%	0.0%	0	-	1	6,666.7	*	*	*
Subtotal	1,177	312	26.5%	0.4%	2	169.9	14	1,189.5	\$ 43,159	\$ 12,621	7.64
Large Commercial Truck											
00 - 17	35	24	68.6%	0.0%	0	-	0	-	*	*	*
18 - 34	1,570	229	14.6%	0.3%	2	127.4	28	1,783.4	\$ 12,140	\$ 8,366	3.00
35 - 64	2,762	325	11.8%	0.4%	5	181.0	56	2,027.5	\$ 36,668	\$ 14,265	6.88
65+	160	27	16.9%	0.0%	1	625.0	7	4,375.0	\$ 48,083	\$ 16,151	5.29
Not Stated	90	3	3.3%	0.0%	0	-	0	-	*	*	*
Subtotal	4,617	608	13.2%	0.8%	8	173.3	91	1,971.0	\$ 29,999	\$ 12,086	5.56
Motorcycle											
00 - 17	45	39	86.7%	0.0%	1	2,222.2	8	17,777.8	\$ 67,687	\$ 30,133	9.88
18 - 34	875	689	78.7%	0.9%	19	2,171.4	138	15,771.4	\$ 33,479	\$ 19,472	5.60
35 - 64	946	744	78.6%	0.9%	35	3,699.8	175	18,498.9	\$ 44,740	\$ 20,389	8.37
65+	34	25	73.5%	0.0%	1	2,941.2	6	17,647.1	\$ 43,787	\$ 20,247	12.33
Not Stated	23	10	43.5%	0.0%	0	-	1	4,347.8	*	*	*
Subtotal	1,923	1,507	78.4%	1.9%	56	2,912.1	328	17,056.7	\$ 40,473	\$ 20,544	7.31
Other Vehicle Types											
00 - 17	72	53	73.6%	0.1%	0	-	15	20,833.3	\$ 53,003	\$ 16,950	8.67
18 - 34	120	55	45.8%	0.1%	3	2,500.0	15	12,500.0	\$ 25,219	\$ 18,351	4.80
35 - 64	216	50	23.1%	0.1%	1	463.0	11	5,092.6	\$ 39,516	\$ 24,185	10.27
65+	63	10	15.9%	0.0%	2	3,174.6	5	7,936.5	*	*	*
Not Stated	27	8	29.6%	0.0%	0	-	1	3,703.7	*	*	*
Subtotal	498	176	35.3%	0.2%	6	1,204.8	47	9,437.8	\$ 36,397	\$ 18,361	7.66
Passenger Car											
00 - 17	11,423	5,784	50.6%	7.3%	43	376.4	196	1,715.8	\$ 23,027	\$ 9,749	4.69
18 - 34	81,457	21,507	26.4%	27.3%	202	248.0	1,859	2,282.2	\$ 18,867	\$ 8,808	4.12
35 - 64	62,141	16,745	26.9%	21.2%	148	238.2	1,378	2,217.5	\$ 24,768	\$ 12,558	5.36
65+	13,984	3,680	26.3%	4.7%	101	722.3	653	4,669.6	\$ 23,847	\$ 13,513	6.16
Not Stated	2,834	466	16.4%	0.6%	0	-	15	529.3	\$ 33,407	\$ 13,611	5.13
Subtotal	171,839	48,182	28.0%	61.1%	494	287.5	4,101	2,386.5	\$ 21,895	\$ 10,742	4.90
Pick-Up Truck											
00 - 17	3,561	1,742	48.9%	2.2%	18	505.5	62	1,741.1	\$ 23,443	\$ 8,893	4.52
18 - 34	29,280	6,419	21.9%	8.1%	60	204.9	597	2,038.9	\$ 18,872	\$ 8,913	4.32
35 - 64	36,639	7,240	19.8%	9.2%	96	262.0	696	1,899.6	\$ 22,380	\$ 11,039	4.76
65+	4,000	903	22.6%	1.1%	35	875.0	173	4,325.0	\$ 28,880	\$ 15,454	5.95
Not Stated	1,366	143	10.5%	0.2%	1	73.2	4	292.8	*	*	*
Subtotal	74,846	16,447	22.0%	20.9%	210	280.6	1,532	2,046.9	\$ 21,801	\$ 10,309	4.72

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School Bus											
00 - 17	218	217	99.5%	0.3%	0	-	1	458.7	*	*	*
18 - 34	142	17	12.0%	0.0%	0	-	0	-	*	*	*
35 - 64	541	61	11.3%	0.1%	1	184.8	9	1,663.6	\$ 32,396	\$ 9,992	7.33
65+	67	6	9.0%	0.0%	0	-	2	2,985.1	*	*	*
Not Stated	22	13	59.1%	0.0%	0	-	0	-	*	*	*
Subtotal	990	314	31.7%	0.4%	1	101.0	12	1,212.1	\$ 28,351	\$ 9,995	8.00
Tractor-Trailer Truck											
00 - 17	9	8	88.9%	0.0%	0	-	0	-	*	*	*
18 - 34	1,283	147	11.5%	0.2%	5	389.7	27	2,104.4	\$ 12,498	\$ 7,031	3.81
35 - 64	3,841	394	10.3%	0.5%	9	234.3	97	2,525.4	\$ 22,708	\$ 11,758	4.72
65+	204	22	10.8%	0.0%	1	490.2	9	4,411.8	\$ 29,540	\$ 18,609	4.89
Not Stated	181	0	0.0%	0.0%	0	-	0	-	*	*	*
Subtotal	5,518	571	10.3%	0.7%	15	271.8	133	2,410.3	\$ 21,097	\$ 11,387	4.55
Van											
00 - 17	1,260	967	76.7%	1.2%	4	317.5	25	1,984.1	\$ 22,103	\$ 12,477	4.48
18 - 34	6,235	1,455	23.3%	1.8%	10	160.4	155	2,486.0	\$ 23,241	\$ 8,335	4.86
35 - 64	12,719	2,638	20.7%	3.3%	23	180.8	246	1,934.1	\$ 23,989	\$ 10,996	4.72
65+	1,529	367	24.0%	0.5%	11	719.4	61	3,989.5	\$ 36,651	\$ 14,670	7.54
Not Stated	399	94	23.6%	0.1%	0	-	0	-	*	*	*
Subtotal	22,142	5,521	24.9%	7.0%	48	216.8	487	2,199.4	\$ 25,240	\$ 10,498	5.11
Not Stated											
00 - 17	1,008	743	73.7%	0.9%	13	1,289.7	61	6,051.6	\$ 21,499	\$ 16,779	3.57
18 - 34	4,221	1,452	34.4%	1.8%	14	331.7	120	2,842.9	\$ 28,206	\$ 13,691	5.76
35 - 64	3,986	1,410	35.4%	1.8%	47	1,179.1	123	3,085.8	\$ 37,466	\$ 18,517	7.87
65+	716	297	41.5%	0.4%	17	2,374.3	52	7,262.6	\$ 29,122	\$ 18,185	6.29
Not Stated	6,490	53	0.8%	0.1%	0	-	3	46.2	*	*	*
Subtotal	16,421	3,955	24.1%	5.0%	91	554.2	359	2,186.2	\$ 30,192	\$ 16,289	6.15
State Total	301,933	78,842	26.1%	100.0%	942	312.0	7,213	2,388.9	\$ 23,694	\$ 11,318	5.09

* Too few to calculate

Vehicle Type - According to police crash reports includes Bicycle/Moped, City/Private/Commercial Buses, Emergency Vehicle, Large Commercial Truck, Motorcycle, Passenger Car, Pick-up Truck, School Bus, Tractor-Trailer Truck, Van, Other Vehicle Types (Motor homes, Farm Equipment, Hearse, etc.) and Not Stated

Age Group - According to police crash reports the age of occupant grouped into the following categories 0-17, 18-34, 35-64 and 65+

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 **Vehicle Type and Age Group, Subtotal or State Total**, the percentage for the Vehicle Type and Age Group, Subtotal or State Total that were injured

% of All Injuries - Of all persons involved in a crash and categorized in a **Vehicle Type and Age Group, Subtotal 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.