

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2001 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	442	402	91.0%	91.0%	1	226.2	74	16,742.1	\$ 14,453	\$ 10,164	3.97
18 - 34	393	257	65.4%	65.4%	5	1,272.3	26	6,615.8	\$ 30,262	\$ 14,253	9.96
35 - 64	385	255	66.2%	66.2%	12	3,116.9	42	10,909.1	\$ 16,268	\$ 11,504	4.38
65+	41	15	36.6%	36.6%	1	2,439.0	3	7,317.1	*	*	*
Not Stated	118	99	83.9%	83.9%	1	847.5	7	5,932.2	\$ 17,615	\$ 4,867	4.14
Subtotal	1,379	1,028	74.5%	0.4%	20	1,450.3	152	11,022.5	\$ 17,670	\$ 10,601	5.13
City/Private Buses											
00 - 17	78	76	97.4%	97.4%	-	-	-	-	*	*	*
18 - 34	182	66	36.3%	36.3%	-	-	-	-	*	*	*
35 - 64	567	132	23.3%	23.3%	1	176.4	3	529.1	*	*	*
65+	40	4	10.0%	10.0%	-	-	1	2,500.0	*	*	*
Not Stated	20	9	45.0%	45.0%	-	-	1	5,000.0	*	*	*
Subtotal	887	287	32.4%	0.1%	1	112.7	5	563.7	*	*	*
Emergency Vehicle											
00 - 17	8	7	87.5%	87.5%	-	-	-	-	*	*	*
18 - 34	538	155	28.8%	28.8%	1	185.9	7	1,301.1	\$ 6,209	\$ 6,338	1.43
35 - 64	380	118	31.1%	31.1%	1	263.2	7	1,842.1	\$ 13,415	\$ 8,877	3.14
65+	9	2	22.2%	22.2%	-	-	1	11,111.1	*	*	*
Not Stated	14	5	35.7%	35.7%	-	-	3	21,428.6	*	*	*
Subtotal	949	287	30.2%	0.1%	2	210.7	18	1,896.7	\$ 8,588	\$ 6,356	2.44
Large Commercial Truck											
00 - 17	42	24	57.1%	57.1%	-	-	4	9,523.8	*	*	*
18 - 34	1,651	232	14.1%	14.1%	3	181.7	17	1,029.7	\$ 33,026	\$ 10,262	6.18
35 - 64	2,644	333	12.6%	12.6%	2	75.6	33	1,248.1	\$ 42,409	\$ 10,693	10.30
65+	133	18	13.5%	13.5%	-	-	3	2,255.6	*	*	*
Not Stated	124	8	6.5%	6.5%	-	-	1	806.5	*	*	*
Subtotal	4,594	615	13.4%	0.2%	5	108.8	58	1,262.5	\$ 35,893	\$ 10,477	8.24
Motorcycle											
00 - 17	67	50	74.6%	74.6%	1	1,492.5	8	11,940.3	\$ 33,832	\$ 9,418	6.38
18 - 34	958	756	78.9%	78.9%	24	2,505.2	148	15,448.9	\$ 24,891	\$ 17,174	5.63
35 - 64	872	668	76.6%	76.6%	19	2,178.9	150	17,201.8	\$ 24,441	\$ 13,914	5.76
65+	33	22	66.7%	66.7%	-	-	7	21,212.1	\$ 33,311	\$ 10,121	6.00
Not Stated	26	10	38.5%	38.5%	-	-	3	11,538.5	*	*	*
Subtotal	1,956	1,506	77.0%	0.5%	44	2,249.5	316	16,155.4	\$ 25,122	\$ 15,218	5.71
Other Vehicle Types											
00 - 17	36	27	75.0%	75.0%	-	-	7	19,444.4	\$ 29,267	\$ 17,533	7.86
18 - 34	81	34	42.0%	42.0%	2	2,469.1	8	9,876.5	\$ 20,230	\$ 8,321	4.13
35 - 64	168	32	19.0%	19.0%	1	595.2	7	4,166.7	\$ 38,413	\$ 13,392	6.71
65+	62	12	19.4%	19.4%	-	-	1	1,612.9	*	*	*
Not Stated	16	3	18.8%	18.8%	-	-	1	6,250.0	*	*	*
Subtotal	363	108	29.8%	0.0%	3	826.4	24	6,611.6	\$ 28,415	\$ 14,732	6.29
Passenger Car											
00 - 17	17,219	7,915	46.0%	46.0%	55	319.4	343	1,992.0	\$ 21,572	\$ 10,072	5.15
18 - 34	76,512	21,573	28.2%	28.2%	187	244.4	1,521	1,987.9	\$ 19,579	\$ 9,769	4.89
35 - 64	58,909	16,607	28.2%	28.2%	154	261.4	1,194	2,026.9	\$ 22,613	\$ 10,642	5.75
65+	13,453	3,740	27.8%	27.8%	105	780.5	594	4,415.4	\$ 24,604	\$ 1,125	6.45
Not Stated	2,944	555	18.9%	18.9%	3	101.9	53	1,800.3	\$ 10,225	\$ 1,739	4.40
Subtotal	169,037	50,390	29.8%	17.5%	504	298.2	3,705	2,191.8	\$ 21,413	\$ 10,214	5.43
Pick-Up Truck											
00 - 17	4,423	1,970	44.5%	44.5%	17	384.4	79	1,786.1	\$ 14,159	\$ 8,372	4.09
18 - 34	24,649	5,587	22.7%	22.7%	63	255.6	433	1,756.7	\$ 18,586	\$ 9,336	4.94
35 - 64	28,905	6,027	20.9%	20.9%	80	276.8	538	1,861.3	\$ 25,369	\$ 11,097	6.03
65+	3,285	734	22.3%	22.3%	30	913.2	120	3,653.0	\$ 25,043	\$ 10,656	6.64
Not Stated	1,222	130	10.6%	10.6%	-	-	28	2,291.3	\$ 6,723	\$ 1,253	3.86
Subtotal	62,484	14,448	23.1%	5.0%	190	304.1	1,198	1,917.3	\$ 21,710	\$ 9,974	5.52

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School Bus											
00 - 17	263	263	100.0%	100.0%	-	-	1	380.2	*	*	*
18 - 34	165	32	19.4%	19.4%	-	-	1	606.1	*	*	*
35 - 64	486	54	11.1%	11.1%	-	-	1	205.8	*	*	*
65+	61	2	3.3%	3.3%	-	-	-	-	*	*	*
Not Stated	28	23	82.1%	82.1%	-	-	-	-	*	*	*
Subtotal	1,003	374	37.3%	0.1%	-	-	3	299.1	*	*	*
Tractor-Trailer Truck											
00 - 17	17	9	52.9%	52.9%	-	-	-	-	*	*	*
18 - 34	1,416	188	13.3%	13.3%	1	70.6	17	1,200.6	\$ 20,200	\$ 7,284	5.47
35 - 64	3,268	338	10.3%	10.3%	7	214.2	61	1,866.6	\$ 18,773	\$ 10,154	5.80
65+	119	19	16.0%	16.0%	-	-	1	840.3	*	*	*
Not Stated	212	3	1.4%	1.4%	-	-	-	-	*	*	*
Subtotal	5,032	557	11.1%	0.2%	8	159.0	79	1,570.0	\$ 18,937	\$ 9,356	5.70
Van											
00 - 17	1,584	1,051	66.4%	66.4%	4	252.5	35	2,209.6	\$ 11,880	\$ 7,770	3.43
18 - 34	6,013	1,462	24.3%	24.3%	7	116.4	122	2,028.9	\$ 14,254	\$ 8,047	3.93
35 - 64	11,655	2,433	20.9%	20.9%	29	248.8	179	1,535.8	\$ 19,017	\$ 10,373	5.60
65+	1,240	328	26.5%	26.5%	9	725.8	37	2,983.9	\$ 18,334	\$ 10,632	5.00
Not Stated	376	60	16.0%	16.0%	-	-	10	2,659.6	\$ 3,374	\$ 1,594	2.00
Subtotal	20,868	5,334	25.6%	1.8%	49	234.8	383	1,835.3	\$ 16,373	\$ 9,210	4.72
Not Stated											
00 - 17	1,720	1,089	63.3%	63.3%	13	755.8	96	5,581.4	\$ 17,674	\$ 11,428	4.05
18 - 34	5,825	1,881	32.3%	32.3%	24	412.0	134	2,300.4	\$ 23,115	\$ 10,601	5.57
35 - 64	5,117	1,807	35.3%	35.3%	43	840.3	173	3,380.9	\$ 23,851	\$ 12,551	6.72
65+	1,063	374	35.2%	35.2%	29	2,728.1	60	5,644.4	\$ 22,437	\$ 10,787	7.00
Not Stated	6,183	103	1.7%	1.7%	-	-	6	97.0	\$ 9,604	\$ 773	4.33
Subtotal	19,908	5,254	26.4%	1.8%	109	547.5	469	2,355.8	\$ 22,013	\$ 11,339	5.85
State Total	288,460	80,188	27.8%	100.0%	935	324.1	6,410	2,222.1	\$ 21,379	\$ 10,333	5.46

* Too few to calculate

Vehicle Type - According to police crash reports includes Bicycle/Moped, City/Private/Commerical Buses, Emergency Vehicle, Large Commercial Truck, Motorcycle, Passenger Car, Pick-up Truck, School Bus, Tractor-Trailer Truck, Van, Other Vehicle Types (Motorhomes, 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, 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 / Number Hospitalized

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.