

Virginia CODES Crash Outcome Data Evaluation System



Motor Vehicle Crash Outcomes in 2006 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	314	299	95.2%	0.4%	1	318.5	30	9,554.1	\$ 24,810	\$ 13,621	3.40
18 - 34	384	347	90.4%	0.5%	4	1,041.7	40	10,416.7	\$ 47,178	\$ 21,709	5.93
35 - 64	371	342	92.2%	0.5%	6	1,617.3	57	15,363.9	\$ 44,269	\$ 24,767	8.02
65+	23	20	87.0%	0.0%	1	4,347.8	3	13,043.5	\$ 11,682	\$ 12,350	1.67
Not Stated	72	57	79.2%	0.1%	0	-	-	-	*	*	*
Van	1,164	1,065	91.5%	1.5%	12	1,030.9	130	11,168.4	\$ 39,922	\$ 21,997	6.16
City/Private/Commercial Buses											
00 - 17	41	41	100.0%	0.1%	0	-	-	-	*	*	*
18 - 34	163	61	37.4%	0.1%	2	1,227.0	3	1,840.5	\$ 12,701	\$ 7,475	2.33
35 - 64	559	123	22.0%	0.2%	1	178.9	21	3,756.7	\$ 20,016	\$ 14,214	4.24
65+	65	11	16.9%	0.0%	0	-	2	3,076.9	\$ 24,517	\$ 24,516	7.00
Not Stated	21	3	14.3%	0.0%	0	-	-	-	*	*	*
Subtotal	849	239	28.2%	0.3%	3	353.4	26	3,062.4	\$ 19,518	\$ 14,134	4.23
Emergency Vehicle											
00 - 17	5	5	100.0%	0.0%	0	-	-	-	*	*	*
18 - 34	574	122	21.3%	0.2%	1	174.2	14	2,439.0	\$ 10,665	\$ 6,164	3.00
35 - 64	483	107	22.2%	0.1%	0	-	12	2,484.5	\$ 17,658	\$ 14,669	5.33
65+	14	1	7.1%	0.0%	0	-	-	-	*	*	*
Not Stated	85	7	8.2%	0.0%	0	-	-	-	*	*	*
Subtotal	1,161	242	20.8%	0.3%	1	86.1	26	2,239.4	\$ 13,893	\$ 10,441	4.08
Large Commercial Truck											
00 - 17	16	9	56.3%	0.0%	0	-	-	-	*	*	*
18 - 34	1,612	177	11.0%	0.2%	2	124.1	39	2,419.4	\$ 25,936	\$ 13,194	4.82
35 - 64	2,633	287	10.9%	0.4%	3	113.9	101	3,835.9	\$ 22,369	\$ 13,602	3.95
65+	166	22	13.3%	0.0%	0	-	10	6,024.1	\$ 26,142	\$ 19,288	6.20
Not Stated	244	1	0.4%	0.0%	0	-	-	-	*	*	*
Subtotal	4,671	496	10.6%	0.7%	5	107.0	150	3,211.3	\$ 23,548	\$ 13,579	4.33
Motorcycle											
00 - 17	40	40	100.0%	0.1%	0	-	5	12,500.0	\$ 54,242	\$ 29,988	9.40
18 - 34	1,193	976	81.8%	1.3%	38	3,185.2	209	17,518.9	\$ 42,775	\$ 24,816	5.58
35 - 64	1,399	1,146	81.9%	1.6%	31	2,215.9	357	25,518.2	\$ 47,381	\$ 25,664	6.79
65+	53	40	75.5%	0.1%	1	1,886.8	17	32,075.5	\$ 98,082	\$ 34,472	11.59
Not Stated	54	4	7.4%	0.0%	0	-	-	-	*	*	*
Subtotal	2,739	2,206	80.5%	3.0%	70	2,555.7	588	21,467.7	\$ 47,268	\$ 25,411	6.52
Other Vehicle Types											
00 - 17	54	43	79.6%	0.1%	0	-	10	18,518.5	\$ 45,672	\$ 20,260	5.10
18 - 34	183	51	27.9%	0.1%	7	3,825.1	11	6,010.9	\$ 34,736	\$ 11,374	5.73
35 - 64	361	67	18.6%	0.1%	2	554.0	20	5,540.2	\$ 45,096	\$ 18,479	6.95
65+	81	15	18.5%	0.0%	2	2,469.1	5	6,172.8	\$ 28,711	\$ 18,479	6.80
Not Stated	122	-	0.0%	0.0%	0	-	-	-	*	*	*
Subtotal	801	176	22.0%	0.2%	11	1,373.3	46	5,742.8	\$ 40,963	\$ 18,517	6.24
Passenger Car											
00 - 17	13,350	5,749	43.1%	7.8%	47	352.1	365	2,734.1	\$ 26,683	\$ 14,044	4.91
18 - 34	76,876	18,811	24.5%	25.6%	192	249.8	2,962	3,853.0	\$ 19,776	\$ 9,870	3.81
35 - 64	59,003	14,917	25.3%	20.3%	147	249.1	2,640	4,474.3	\$ 28,599	\$ 15,587	4.97
65+	13,092	3,376	25.8%	4.6%	72	550.0	898	6,859.2	\$ 36,153	\$ 19,195	6.56
Not Stated	8,759	356	4.1%	0.5%	4	45.7	-	-	*	*	*
Subtotal	171,080	43,209	25.3%	58.9%	462	270.0	6,865	4,012.7	\$ 25,679	\$ 13,023	4.68
Pick-Up Truck / SUV											
00 - 17	5,079	2,262	44.5%	3.1%	26	511.9	143	2,815.5	\$ 27,053	\$ 14,212	5.94
18 - 34	29,583	6,291	21.3%	8.6%	87	294.1	1,029	3,478.3	\$ 23,435	\$ 11,115	4.09
35 - 64	39,111	7,665	19.6%	10.5%	100	255.7	1,578	4,034.7	\$ 29,940	\$ 15,523	5.24
65+	4,488	997	22.2%	1.4%	39	869.0	325	7,241.5	\$ 43,874	\$ 19,893	7.71
Not Stated	4,032	152	3.8%	0.2%	0	-	-	-	*	*	*
Subtotal	82,293	17,367	21.1%	23.7%	252	306.2	3,075	3,736.6	\$ 29,102	\$ 14,019	5.15

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School Bus												
00 - 17	206	206	100.0%	0.3%	0	-	1	485.4	*	*	*	
18 - 34	155	19	12.3%	0.0%	0	-	11	7,096.8	\$ 9,147	\$ 9,075	2.82	
35 - 64	566	67	11.8%	0.1%	0	-	36	6,360.4	\$ 30,905	\$ 16,400	4.69	
65+	103	5	4.9%	0.0%	0	-	7	6,796.1	\$ 20,499	\$ 1,660	6.14	
Not Stated	59	11	18.6%	0.0%	0	-	-	-	*	*	*	
Subtotal	1,089	308	28.3%	0.4%	0	-	55	5,050.5	\$ 24,961	\$ 13,141	4.47	
Tractor-Trailer Truck												
00 - 17	27	24	88.9%	0.0%	2	7,407.4	-	-	*	*	*	
18 - 34	1,058	103	9.7%	0.1%	1	94.5	27	2,552.0	\$ 15,423	\$ 14,810	3.37	
35 - 64	3,520	314	8.9%	0.4%	15	426.1	141	4,005.7	\$ 25,132	\$ 17,712	4.50	
65+	181	23	12.7%	0.0%	0	-	13	7,182.3	\$ 36,350	\$ 22,879	5.62	
Not Stated	310	2	0.6%	0.0%	0	-	-	-	*	*	*	
Subtotal	5,096	466	9.1%	0.6%	18	353.2	181	3,551.8	\$ 24,490	\$ 17,712	4.41	
Van												
00 - 17	1,347	952	70.7%	1.3%	4	297.0	35	2,598.4	\$ 25,852	\$ 12,131	5.06	
18 - 34	6,109	1,450	23.7%	2.0%	8	131.0	228	3,732.2	\$ 18,439	\$ 8,979	3.83	
35 - 64	11,012	2,362	21.4%	3.2%	21	190.7	470	4,268.1	\$ 24,889	\$ 13,520	4.59	
65+	1,513	379	25.0%	0.5%	10	660.9	97	6,411.1	\$ 40,109	\$ 27,604	7.20	
Not Stated	1,132	76	6.7%	0.1%	0	-	-	-	*	*	*	
Subtotal	21,113	5,219	24.7%	7.1%	43	203.7	830	3,931.2	\$ 24,936	\$ 12,534	4.70	
Not Stated												
00 - 17	576	522	90.6%	0.7%	7	1,215.3	60	10,416.7	\$ 47,548	\$ 25,066	8.67	
18 - 34	1,392	794	57.0%	1.1%	21	1,508.6	94	6,752.9	\$ 45,776	\$ 22,318	7.48	
35 - 64	1,715	831	48.5%	1.1%	37	2,157.4	135	7,871.7	\$ 45,405	\$ 23,514	8.09	
65+	282	164	58.2%	0.2%	19	6,737.6	47	16,666.7	\$ 44,020	\$ 23,675	7.47	
Not Stated	5,836	44	0.8%	0.1%	0	-	-	-	*	*	*	
Subtotal	9,801	2,355	24.0%	3.2%	84	857.1	336	3,428.2	\$ 45,697	\$ 23,128	7.93	
State Total	301,857	73,348	24.3%	100.0%	961	318.4	12,308	4,077.4	\$ 28,185	\$ 14,074	4.98	

* 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.