



## Traffic Safety Facts Virginia 2003-2007



This Report Contains Data From the Following Sources:

- Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2003-2006 Final File and 2007 Annual Report File (ARF)
- Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Virginia State Survey
- Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)
- Population Data - U.S. Bureau of the Census



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Traffic Safety Performance (Core Outcome) Measures For Virginia \*

Core Outcome Measures		Year				
		2003	2004	2005	2006	2007
<b>Traffic Fatalities</b>	<b>Total</b>	943	922	947	962	1,027
	<b>Rural</b>	605	529	582	564	607
	<b>Urban</b>	336	392	363	397	417
	<b>Unknown</b>	2	1	2	1	3
<b>Fatalities Per 100 Million Vehicle Miles Driven**</b>	<b>Total</b>	1.23	1.17	1.18	1.19	
	<b>Rural</b>	2.03	1.73	1.89	1.79	
	<b>Urban</b>	0.71	0.81	0.73	0.80	
<b>Passenger Vehicle Occupant Fatalities (All Seat Positions)</b>	<b>Total</b>	763	730	725	760	770
	<b>Restrained</b>	259	285	241	273	272
	<b>Unrestrained</b>	432	414	449	451	463
	<b>Unknown</b>	72	31	35	36	35
<b>Alcohol-Impaired Driving Fatalities (BAC=.08+)**</b>		281	288	279	298	332
<b>Speeding-Related Fatalities</b>		286	251	313	297	341
<b>Motorcyclist Fatalities</b>	<b>Total</b>	56	57	69	69	129
	<b>Helmeted</b>	21	34	56	63	116
	<b>Unhelmeted</b>	8	19	9	2	12
	<b>Unknown</b>	27	4	4	4	1
<b>Drivers Involved in Fatal Crashes</b>	<b>Total</b>	1,305	1,206	1,242	1,243	1,345
	<b>Aged Under 15</b>	0	0	0	1	0
	<b>Aged 15-20</b>	163	174	155	171	167
	<b>Aged Under 21</b>	163	174	155	172	167
	<b>Aged 21 and Over</b>	1,132	1,020	1,069	1,054	1,169
	<b>Unknown Age</b>	10	12	18	17	9
<b>Pedestrian Fatalities</b>		86	85	88	82	88

\*These Performance Measures Were Developed By The National Highway Traffic Safety Administration (NHTSA) and the Governors Highway Safety Association (GHSA) (See Publication: DOT HS 811 025)

\*\*2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

\*\*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

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### Fatality Rates: Virginia , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2003	Virginia	943	76,868	1.23	7,370,557	12.79
	US	42,884	2,890,450	1.48	290,447,644	14.76
	Best State*			0.83		7.18
2004	Virginia	922	78,877	1.17	7,464,033	12.35
	US	42,836	2,964,788	1.44	293,191,511	14.61
	Best State*			0.87		7.40
2005	Virginia	947	80,337	1.18	7,557,588	12.53
	US	43,510	2,989,430	1.46	295,895,897	14.70
	Best State*			0.80		6.86
2006	Virginia	962	81,095	1.19	7,640,249	12.59
	US	42,708	3,014,116	1.42	298,754,819	14.30
	Best State*			0.78		6.32
2007	Virginia	1,027			7,712,091	13.32
	US	41,059	2,996,409	1.37	301,621,157	13.61
	Best State*					6.47

\*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

2007 National VMT is a Preliminary Estimate and Subject to Change

2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash\*\*:  
 Virginia , U.S. and Best State  
 (Old Definition)

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash				
			BAC = .01+		BAC = .08+		Per 100 Million VMT
			Number	Percent	Number	Percent	
2003	Virginia	943	367	39	311	33	0.40
	US	42,884	17,105	40	14,678	34	0.51
	Best State*			15		13	0.16
2004	Virginia	922	363	39	314	34	0.40
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	Virginia	947	362	38	298	31	0.37
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	Virginia	962	374	39	327	34	0.40
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	Virginia	1,027	427	42	361	35	
	US	41,059	17,036	41	14,575	35	0.49
	Best State*			23		19	

\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States  
 \*\*Based on the BAC of All Involved Drivers, Motorcycle Riders (Operators), Pedalcyclists and Pedestrians  
 2007 National VMT is a Preliminary Estimate and Subject to Change  
 2007 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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### Alcohol-Impaired Driving Fatalities\*\*: Virginia , U.S. and Best State (New Definition)

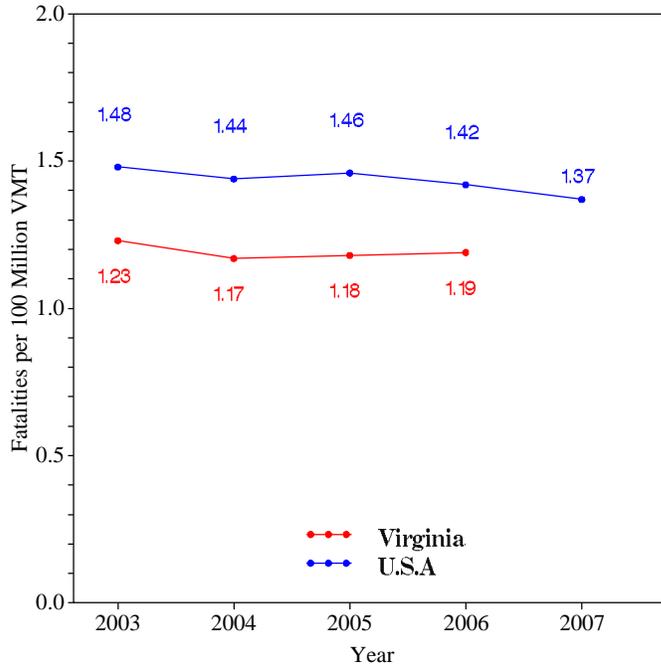
Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2003	Virginia	943	281	30	0.37
	US	42,884	13,096	31	0.45
	Best State*			12	0.15
2004	Virginia	922	288	31	0.37
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	Virginia	947	279	29	0.35
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Virginia	962	298	31	0.37
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Virginia	1,027	332	32	
	US	41,059	12,998	32	0.43
	Best State*			17	

\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States  
 \*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only  
 2007 National VMT is a Preliminary Estimate and Subject to Change  
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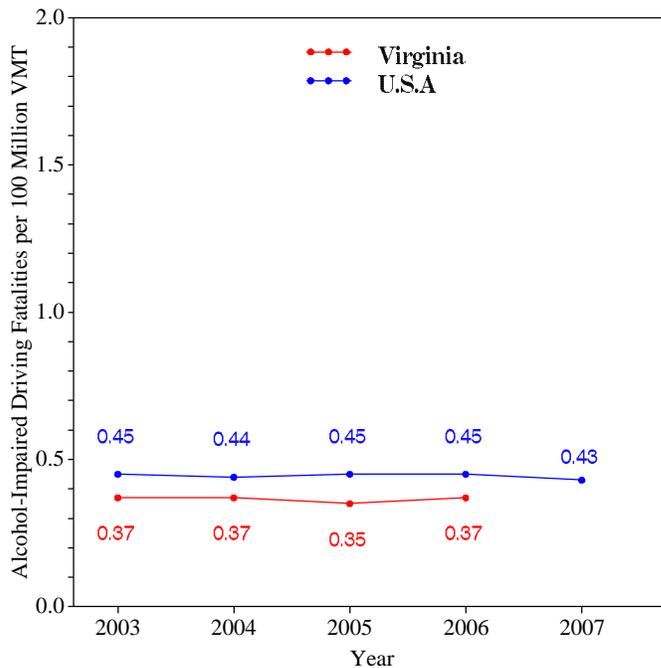


### Fatalities per 100 Million VMT



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### Alcohol-Impaired Driving Fatalities per 100 Million VMT



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**Blood Alcohol Concentration (BAC) Reporting Rates  
For Drivers/Motorcycle Riders (Operators)  
Involved in Fatal Crashes:  
Virginia , U.S. and Best State**

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2003	Virginia	672	10	1	633	437	69	1,305	447	34
	US	31,738	8,196	26	26,779	18,836	70	58,517	27,032	46
	Best State*			76			98			83
2004	Virginia	600	9	2	606	310	51	1,206	319	26
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	Virginia	599	1	0	643	387	60	1,242	388	31
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Virginia	597	4	1	646	493	76	1,243	497	40
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Virginia	640	3	0	705	303	43	1,345	306	23
	US	29,201	6,765	23	26,480	16,991	64	55,681	23,756	43
	Best State*			82			96			84

\*State (or States) With Highest Percents: Highest Percents Could Be in Different States

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Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed Virginia , U.S. and Best State

Table with 3 columns: Year, Restraint Type (Virginia, US, Best State\*), Fatalities - Restrained\*\* (Percent), and Observed - Restrained\*\*\* (Percent). Rows are grouped by year from 2003 to 2007.

\*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

\*\*Percent Based Only Where Restraint Use Was Known

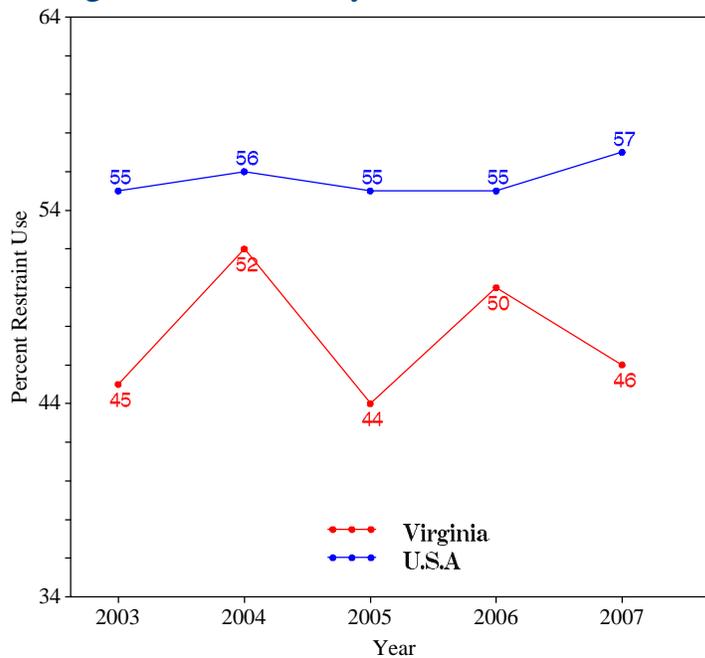
\*\*\*USA Data: National Occupant Protection Use Survey. Virginia Data: State Survey

Note: The Purpose of this Table is to Compare (as closely as possible) the Use of Restraint Systems by Fatally Injured Occupants with Occupants in all Driving Situations

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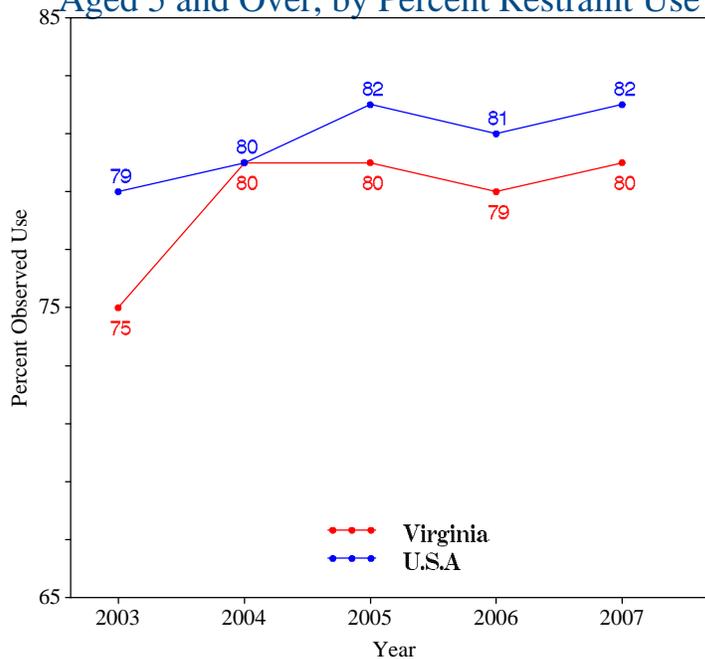
### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use\*



\*Percent Based Only Where Restraint Use Was Known

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### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use\*



\*USA Data: National Occupant Protection Use Survey. Virginia Data: State Survey

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### Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates

Year	Fatalities Aged 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Potential Additional Lives Savable at 100% Usage
2003	760	257	431	72	37	306	165
2004	724	281	412	31	41	310	129
2005	717	236	446	35	35	275	132
2006	747	268	445	34	38	321	155
2007	759	267	457	35	37	320	161

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates

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### Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates

Year	Fatalities Aged Under 5					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt and Child Seat Usage	Potential Additional Lives Savable at 100% Usage
2003	3	2	1	0	67	0	1
2004	5	4	1	0	80	5	0
2005	8	5	3	0	63	0	0
2006	12	5	6	1	45	8	3
2007	8	5	3	0	63	7	

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates

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### Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmet*	Lives Saved at Current Helmet Use	Potential Additional Lives Savable at 100% Usage
2003	56	21	8	27	72	24	6
2004	57	34	19	4	64	22	7
2005	69	56	9	4	86	35	4
2006	69	63	2	4	97	40	0
2007	129	116	12	1	91	69	4

\*Percent Based Only Where Helmet Use Was Known

\*\*Lives Saved Estimates

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## Fatalities by Person Type

Person Type		2003		2004		2005		2006		2007	
		#	%*	#	%*	#	%*	#	%*	#	%*
<b>Occupants</b>	<b>Passenger Car</b>	488	52	478	52	424	45	460	48	440	43
	<b>Light Truck - Pickup</b>	127	13	94	10	135	14	128	13	143	14
	<b>Light Truck - Utility</b>	96	10	115	12	118	12	126	13	154	15
	<b>Light Truck - Van</b>	51	5	43	5	47	5	46	5	33	3
	<b>Light Truck - Other</b>	1	0	0	0	1	0	0	0	0	0
	<b>Large Truck</b>	17	2	20	2	25	3	21	2	19	2
	<b>Bus</b>	1	0	0	0	3	0	1	0	0	0
	<b>Other/Unknown Occupants</b>	10	1	14	2	13	1	13	1	14	1
	<b><i>Total Occupants</i></b>	791	84	764	83	766	81	795	83	803	78
<b>Motorcyclists</b>	<b><i>Total Motorcyclists</i></b>	56	6	57	6	69	7	69	7	129	13
<b>Nonoccupants</b>	<b>Pedestrian</b>	86	9	85	9	88	9	82	9	88	9
	<b>Bicyclist and Other Cyclist</b>	10	1	9	1	21	2	12	1	7	1
	<b>Other/Unknown Nonoccupants</b>	0	0	7	1	3	0	4	0	0	0
	<b><i>Total Nonoccupants</i></b>	96	10	101	11	112	12	98	10	95	9
<b>Total</b>	<b><i>Total</i></b>	943	100	922	100	947	100	962	100	1,027	100

\*Sum of Percents May Not = 100 Due to Individual Cell Rounding

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### Fatalities by Crash Type

Crash Type	2003	2004	2005	2006	2007
<b>Total Fatalities (All Crashes)*</b>	943	922	947	962	1,027
<b>- (1) Single Vehicle</b>	523	546	600	597	620
<b>- (2) Involving a Large Truck</b>	120	99	112	107	111
<b>- (3) Involving Speeding</b>	286	251	313	297	341
<b>- (4) Involving a Rollover</b>	233	239	276	278	278
<b>- (5) Involving a Roadway Departure</b>	553	563	546	645	636
<b>- (6) Involving an Intersection (or Intersection Related)</b>	201	161	181	165	194

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

\*A Fatality Can Be in More Than One Category. Therefore Sum of the Individual Cells Will Not Equal the Total Due to Double Counting

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### Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2003	2	12	17	14	10	1	56
2004	1	14	14	17	8	3	57
2005	7	22	15	13	7	5	69
2006	1	28	11	15	10	4	69
2007	4	50	22	22	20	11	129

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### Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2003	56	73,692	75.99
2004	57	75,457	75.54
2005	69	77,854	88.63
2006	69	81,171	85.01
2007	129		

\*Data Source: FHWA

\*2007 Motorcycle Registrations are Not Yet Available

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### Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2003	2004	2005	2006
<b>Occupants (All Vehicle Types)</b>	<b>Hispanic</b>	12	3	5	0
	<b>White Non-Hispanic</b>	539	553	582	596
	<b>Black, Non-Hispanic</b>	120	115	104	140
	<b>American Indian, Non-Hispanic/Unknown</b>	0	1	0	1
	<b>Asian, Non-Hispanic/Unknown</b>	2	2	4	2
	<b>All Other Non-Hispanic or Race</b>	11	9	2	10
	<b>Unknown Race and Unknown Hispanic</b>	163	138	138	115
	<b>Total</b>	847	821	835	864
<b>Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)</b>					
	<b>Hispanic</b>	0	0	2	0
	<b>White Non-Hispanic</b>	54	52	63	53
	<b>Black, Non-Hispanic</b>	19	24	26	26
	<b>American Indian, Non-Hispanic/Unknown</b>	0	0	0	0
	<b>Asian, Non-Hispanic/Unknown</b>	1	2	5	0
	<b>All Other Non-Hispanic or Race</b>	2	2	3	2
	<b>Unknown Race and Unknown Hispanic</b>	20	21	13	17
<b>Total</b>	96	101	112	98	
<b>Total</b>	943	922	947	962	

2007 Race/Hispanic Origin Data is Not Yet Complete

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### 5 Year Trend For The Top 10 Counties of 2007 - Fatalities

Counties by 2007 Ranking		Fatalities					Percent of Total				
		2003	2004	2005	2006	2007	2003	2004	2005	2006	2007
1	Fairfax County	63	64	62	67	54	7	7	7	7	5
2	Chesterfield County	22	32	30	25	29	2	3	3	3	3
3	Richmond city	12	15	9	19	29	1	2	1	2	3
4	Prince William County	30	23	28	46	28	3	2	3	5	3
5	Suffolk city	8	16	8	12	26	1	2	1	1	3
6	Henrico County	28	25	21	38	25	3	3	2	4	2
7	Chesapeake city	17	13	21	26	25	2	1	2	3	2
8	Virginia Beach city	27	22	31	22	24	3	2	3	2	2
9	Pittsylvania County	9	15	11	11	23	1	2	1	1	2
10	Loudoun County	23	22	19	19	21	2	2	2	2	2
<b>Sub Total 1.*</b>	<b>Top Ten Counties</b>	272	259	272	305	284	29	28	29	32	28
<b>Sub Total 2.**</b>	<b>All Other Counties</b>	670	663	675	657	743	71	72	71	68	72
<b>Total</b>	<b>All Counties</b>	942	922	947	962	1,027	100	100	100	100	100

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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### 5 Year Trend For The Top 10 Counties of 2007 - Fatalities Year to Year Percent Change

Counties by 2007 Ranking		Fatalities					Percent Change From Previous Year			
		2003	2004	2005	2006	2007	2004	2005	2006	2007
1	Fairfax County	63	64	62	67	54	2	-3	8	-19
2	Chesterfield County	22	32	30	25	29	45	-6	-17	16
3	Richmond city	12	15	9	19	29	25	-40	111	53
4	Prince William County	30	23	28	46	28	-23	22	64	-39
5	Suffolk city	8	16	8	12	26	100	-50	50	117
6	Henrico County	28	25	21	38	25	-11	-16	81	-34
7	Chesapeake city	17	13	21	26	25	-24	62	24	-4
8	Virginia Beach city	27	22	31	22	24	-19	41	-29	9
9	Pittsylvania County	9	15	11	11	23	67	-27	0	109
10	Loudoun County	23	22	19	19	21	-4	-14	0	11
<b>Sub Total 1.*</b> <i>Top Ten Counties</i>		272	259	272	305	284	-5	5	12	-7
<b>Sub Total 2.**</b> <i>All Other Counties</i>		670	663	675	657	743	-1	2	-3	13
<b>Total</b> <i>All Counties</i>		942	922	947	962	1,027	-2	3	2	7

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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## 5 Year Trend For The Top 10 Counties of 2007 - Fatality Rates

Median Rate for all U.S. Counties: 21.77

Counties by 2007 Ranking		Fatalities Per 100,000 Population				
		2003	2004	2005	2006	2007
1	Highland County	40.32	0.00	0.00	0.00	122.65
2	Sussex County	41.15	50.22	67.50	107.27	106.37
3	Charles City County	42.34	42.59	0.00	42.01	97.68
4	Bland County	14.56	14.60	44.18	0.00	87.17
5	Nelson County	33.77	13.50	26.75	19.96	65.60
6	Southampton County	28.90	46.22	57.65	45.58	56.64
7	Surry County	28.91	14.50	58.06	42.80	56.43
8	Greene County	11.99	35.47	40.73	28.47	55.99
9	Alleghany County	30.04	18.07	30.25	42.60	54.92
10	Lunenburg County	23.00	38.68	15.40	30.67	53.77
<b>Sub Rate 1.*</b> <i>Top Ten Counties</i>		59.10	58.14	64.26	62.55	68.12
<b>Sub Rate 2.**</b> <i>All Other Counties</i>		11.77	11.24	11.71	11.78	12.48
<b>Total Rate</b> <i>All Counties</i>		12.78	12.35	12.53	12.59	13.32

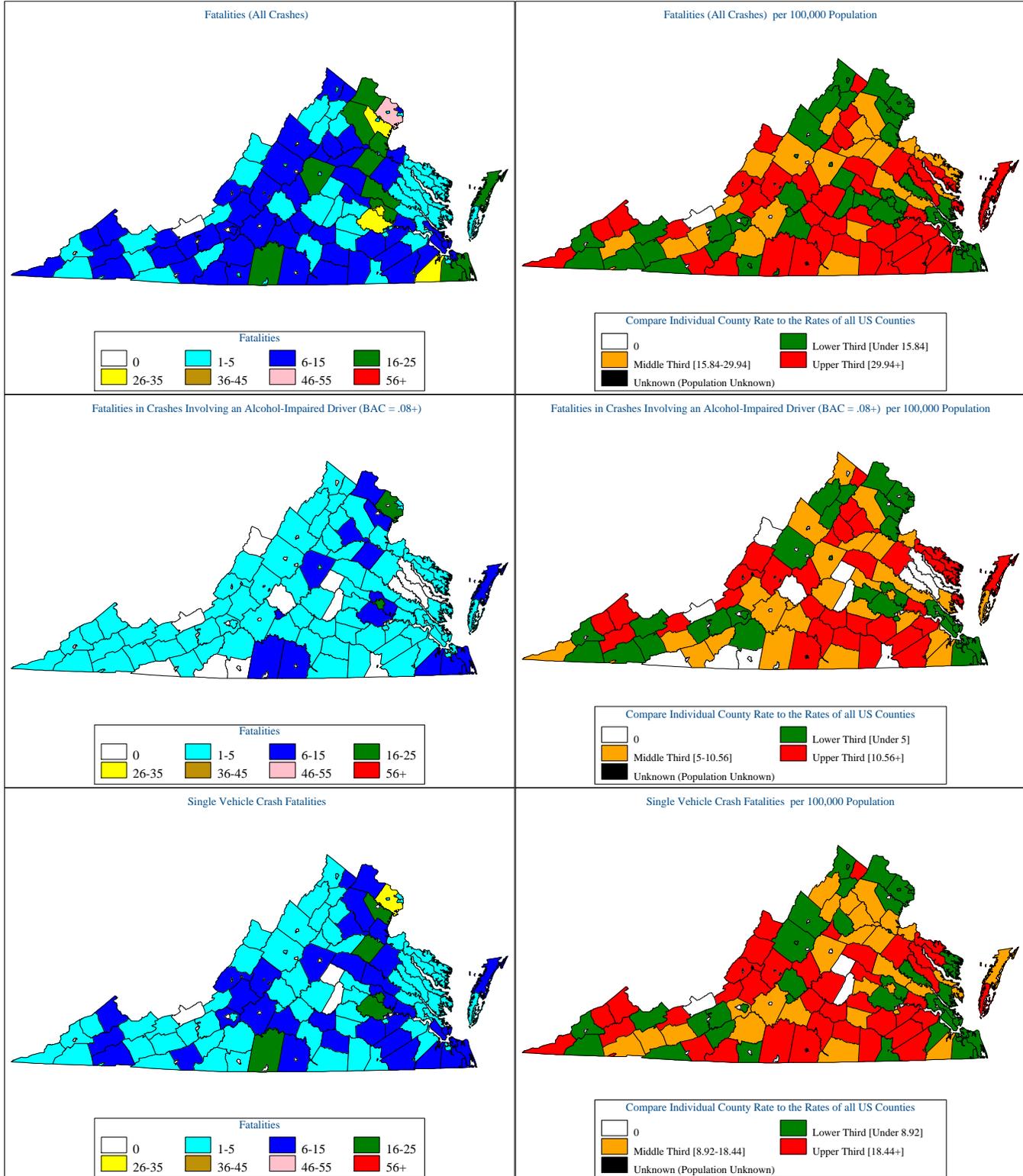
\*This Sub Rate is the Rate for the Top Ten Counties

\*\*This Sub Rate is the Rate for all Counties Outside the Top Ten

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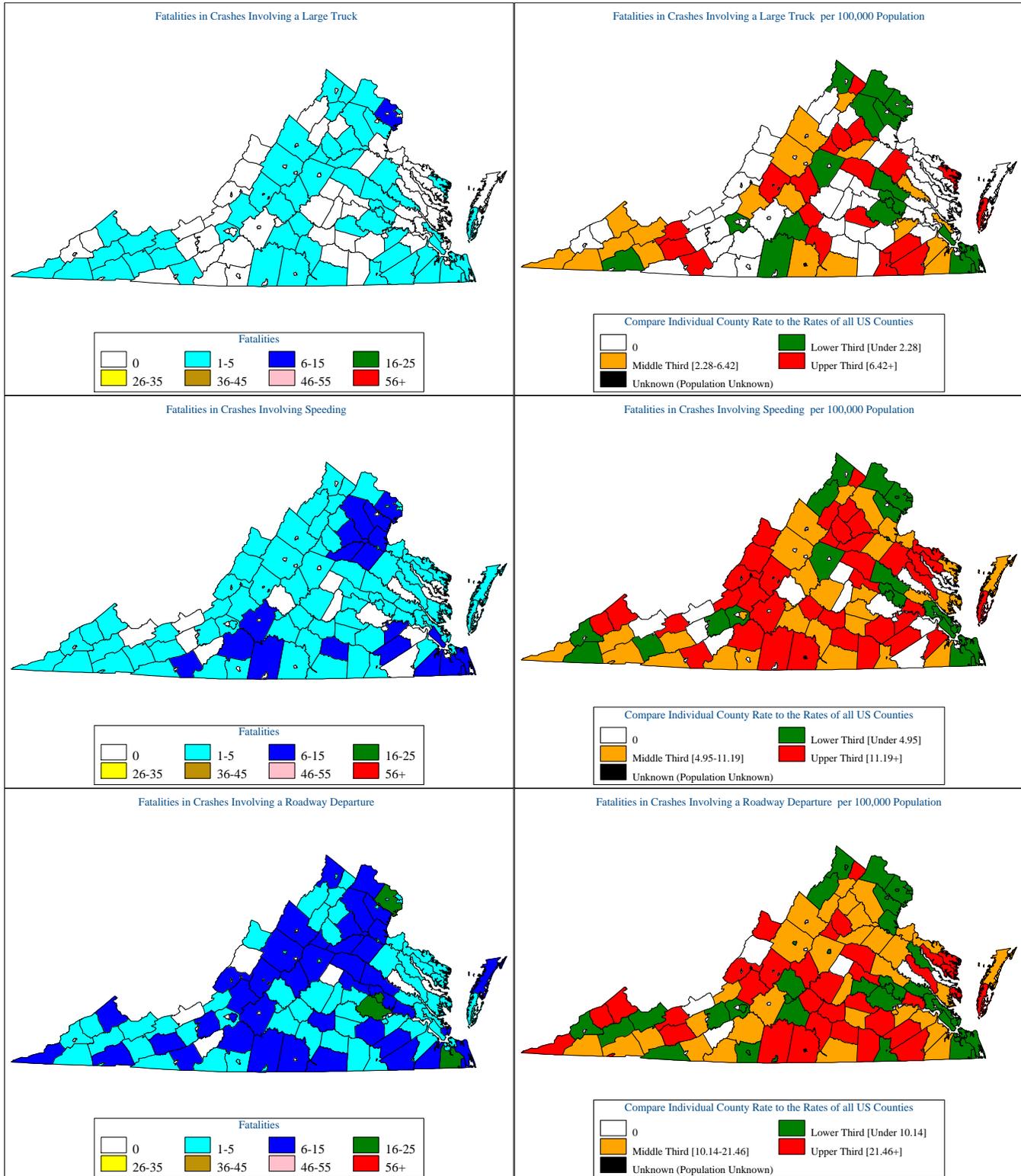
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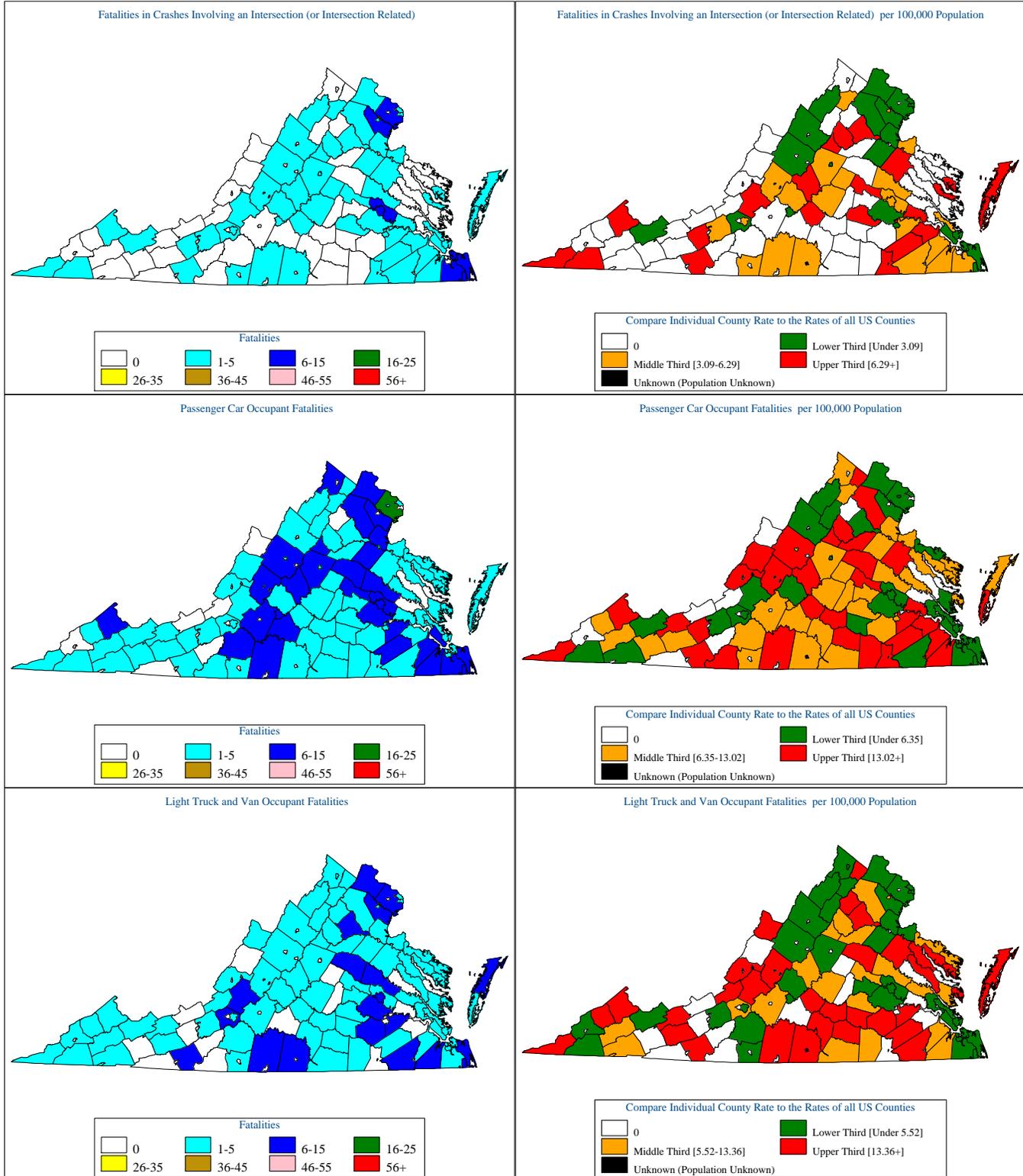
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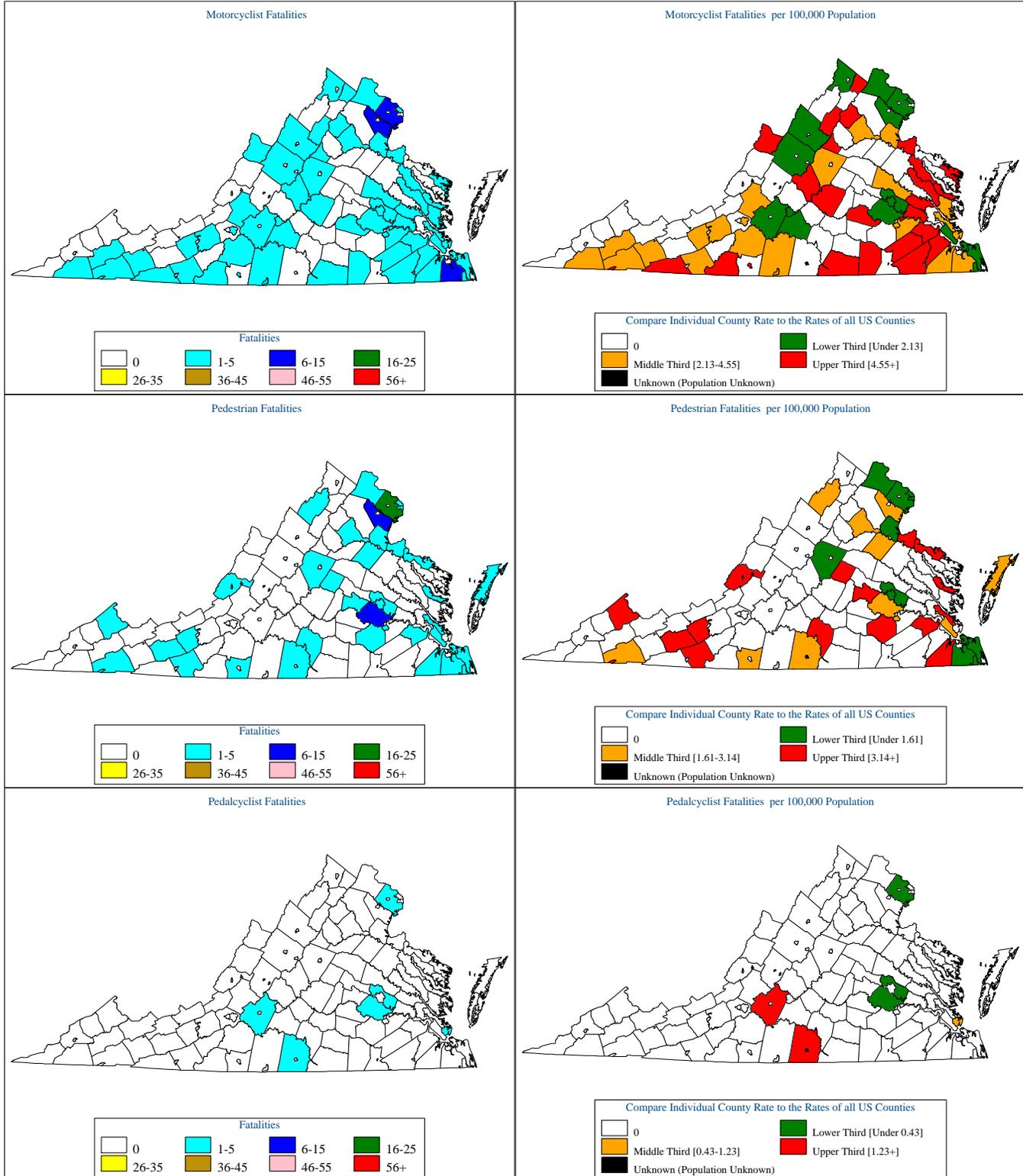
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