Traffic Safety Facts
Kentucky
2005-2009

This Report Contains Data From the Following Sources:
Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2005-2008 Final File and 2009 Annual Report File (ARF)
Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Kentucky 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 Kentucky

Core Outcome Measures		Year				
		2005	2006	2007	2008	2009
Traffic Fatalities	**Total**	985	913	864	825	791
	Rural	738	688	677	634	645
	Urban	247	225	187	191	146
	Unknown	0	0	0	0	0
Fatalities Per 100 Million Vehicle Miles Driven**	**Total**	2.08	1.91	1.80	1.74	
	Rural	2.70	2.51	2.45	2.31	
	Urban	1.23	1.10	0.92	0.95	
Passenger Vehicle Occupant Fatalities (All Seat Positions)	**Total**	783	703	647	596	619
	Restrained	273	229	265	214	265
	Unrestrained	508	474	382	381	352
	Unknown	2	0	0	1	2
Alcohol-Impaired Driving Fatalities (BAC=.08+)***		249	216	212	186	194
Speeding-Related Fatalities		187	160	132	154	154
Motorcyclist Fatalities	**Total**	89	98	112	101	86
	Helmeted	31	30	40	41	36
	Unhelmeted	58	68	72	60	50
	Unknown	0	0	0	0	0
Drivers Involved in Fatal Crashes	**Total**	1,317	1,263	1,187	1,100	1,110
	Aged Under 15	5	4	3	3	3
	Aged 15-20	163	164	135	119	130
	Aged Under 21	168	168	138	122	133
	Aged 21 and Over	1,141	1,089	1,045	967	975
	Unknown Age	8	6	4	11	2
Pedestrian Fatalities		54	52	44	66	41

*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)

**2009 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: Kentucky , 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
2005	Kentucky	985	47,466	2.08	4,182,293	23.55
	US	43,510	2,989,430	1.46	295,753,151	14.71
	Best State*			0.80		6.83
2006	Kentucky	913	47,742	1.91	4,219,374	21.64
	US	42,708	3,014,371	1.42	298,593,212	14.30
	Best State*			0.78		6.34
2007	Kentucky	864	48,063	1.80	4,256,278	20.30
	US	41,259	3,032,399	1.36	301,579,895	13.68
	Best State*			0.79		6.54
2008	Kentucky	825	47,534	1.74	4,287,931	19.24
	US	37,423	2,973,509	1.26	304,374,846	12.30
	Best State*			0.67		5.56
2009	Kentucky	791			4,314,113	18.34
	US	33,808	2,979,321	1.13	307,006,550	11.01
	Best State*					4.84

*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States
2009 National VMT is a Preliminary Estimate and Subject to Change
2009 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**: Kentucky , U.S. and Best State (Old Definition)

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash					
			BAC = .01+			BAC = .08+		
			Number	Percent	Per 100 Million VMT	Number	Percent	Per 100 Million VMT
2005	Kentucky	985	311	32	0.66	268	27	0.56
	US	43,510	17,590	40	0.59	15,102	35	0.51
	Best State*			14	0.16		12	0.14
2006	Kentucky	913	269	29	0.56	231	25	0.48
	US	42,708	17,738	42	0.59	15,144	35	0.50
	Best State*			24	0.26		20	0.22
2007	Kentucky	864	267	31	0.56	228	26	0.47
	US	41,259	17,158	42	0.57	14,603	35	0.48
	Best State*			24	0.27		21	0.23
2008	Kentucky	825	245	30	0.52	213	26	0.45
	US	37,423	15,449	41	0.52	13,258	35	0.45
	Best State*			21	0.21		16	0.16
2009	Kentucky	791	253	32		206	26	
	US	33,808	14,188	42	0.48	12,233	36	0.41
	Best State*			23			18	

*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
2009 National VMT is a Preliminary Estimate and Subject to Change
2009 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Alcohol-Impaired Driving Fatalities**: Kentucky , 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
2005	Kentucky	985	249	25	0.52
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Kentucky	913	216	24	0.45
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Kentucky	864	212	25	0.44
	US	41,259	13,041	32	0.43
	Best State*			19	0.21
2008	Kentucky	825	186	23	0.39
	US	37,423	11,711	31	0.39
	Best State*			16	0.16
2009	Kentucky	791	194	25	
	US	33,808	10,839	32	0.36
	Best State*			16	

*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
2009 National VMT is a Preliminary Estimate and Subject to Change
2009 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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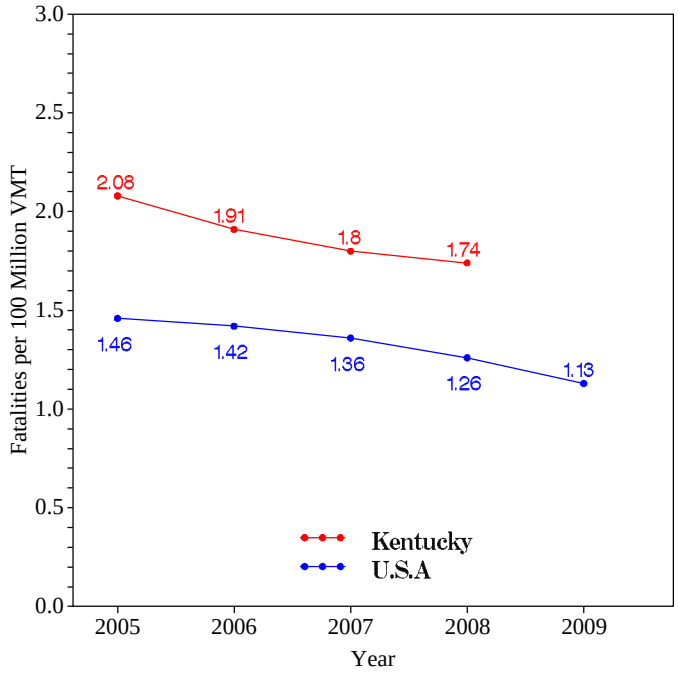
Fatalities per 100 Million VMT



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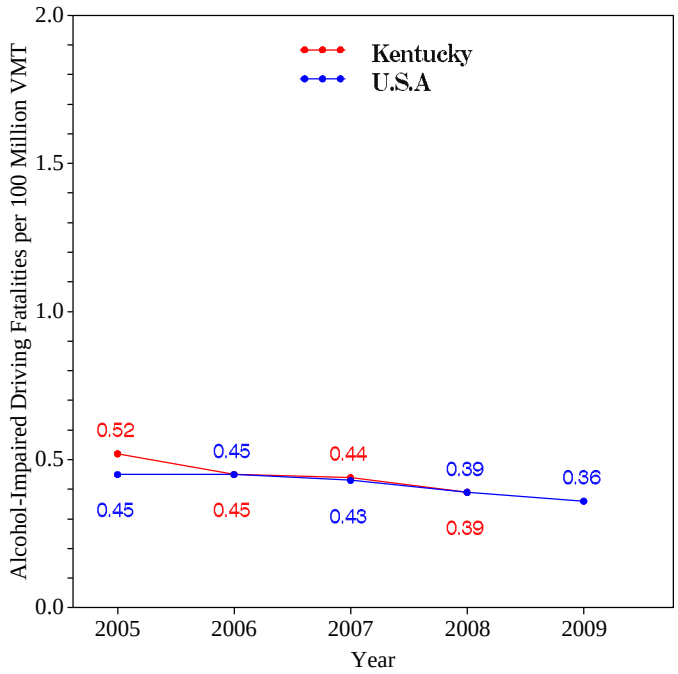
Alcohol-Impaired Driving Fatalities per 100 Million VMT



2009 National VMT is a Preliminary Estimate and Subject to Change
2009 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Riders (Operators) Involved in Fatal Crashes: Kentucky , 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
2005	Kentucky	625	172	28	692	472	68	1,317	644	49
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Kentucky	601	217	36	662	442	67	1,263	659	52
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Kentucky	555	223	40	632	452	72	1,187	675	57
	US	29,449	7,631	26	26,570	19,434	73	56,019	27,065	48
	Best State*			82			100			84
2008	Kentucky	516	236	46	584	423	72	1,100	659	60
	US	26,162	7,656	29	24,254	18,415	76	50,416	26,071	52
	Best State*			81			99			85
2009	Kentucky	519	220	42	591	443	75	1,110	663	60
	US	23,432	6,372	27	21,798	15,505	71	45,230	21,877	48
	Best State*			86			97			90

*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
Kentucky , U.S. and Best State

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2005	Kentucky	40	67
	US	55	82
	Best State*	88	95
2006	Kentucky	38	67
	US	55	81
	Best State*	100	96
2007	Kentucky	50	72
	US	57	82
	Best State*	82	98
2008	Kentucky	47	73
	US	56	83
	Best State*	78	97
2009	Kentucky	50	80
	US	58	84
	Best State*	77	98

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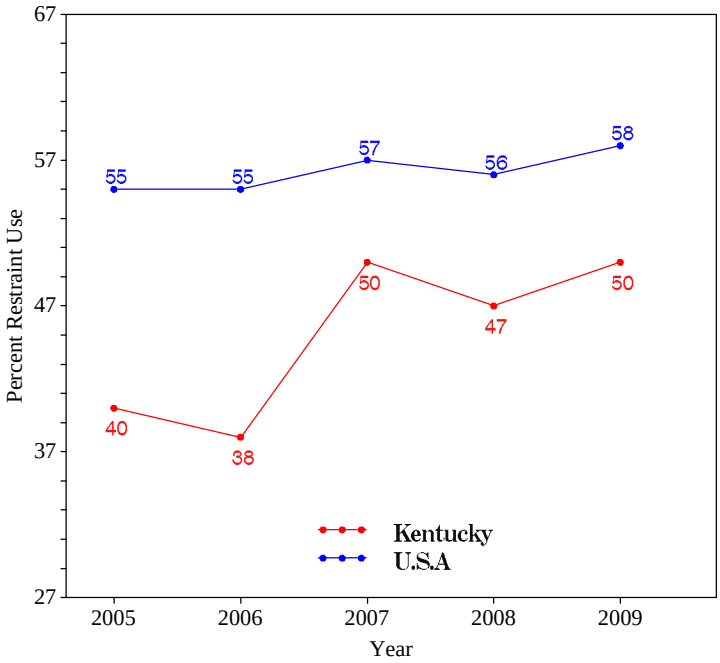
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use*



*Percent Based Only Where Restraint Use Was Known

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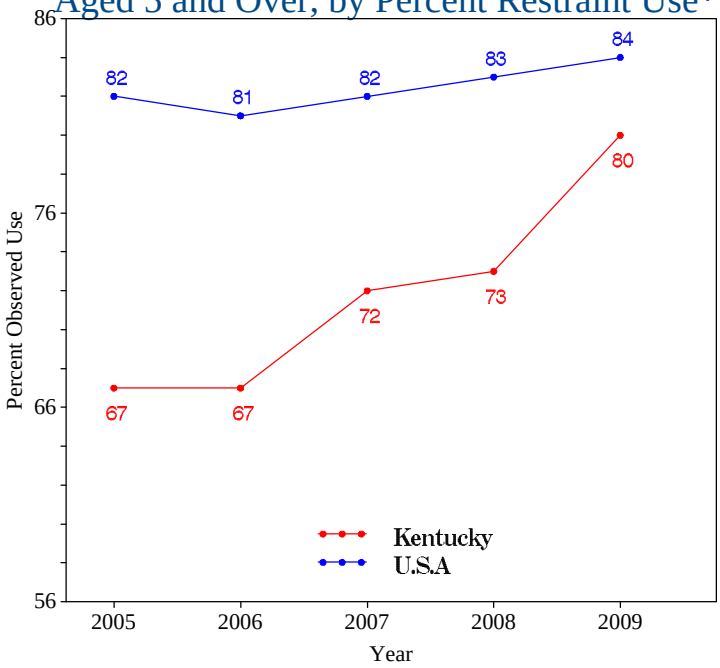
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use*



*USA Data: National Occupant Protection Use Survey. Kentucky Data: State Survey

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

Year	Fatalities Age 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Additional Lives Savable at 100% Belt Usage
2005	774	265	507	2	34	304	214
2006	693	223	470	0	32	250	203
2007	639	258	381	0	40	292	186
2008	588	210	378	0	36	245	151
2009	609	258	350	1	42	315	135

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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Passenger Vehicle Occupant Fatalities Age 4 and Under by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 4 and Under					Lives Saved Estimates**
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Seat Belt and Child Safety Seat Usage
2005	9	8	1	0	89	11
2006	10	6	4	0	60	6
2007	8	7	1	0	88	12
2008	7	4	2	1	67	5
2009	10	7	2	1	78	9

*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 Helmeted*	Lives Saved at Current Helmet Use	Additional Lives Savable at 100% Helmet Usage
2005	89	31	58	0	35	19	21
2006	98	30	68	0	31	18	25
2007	112	40	72	0	36	24	27
2008	101	41	60	0	41	25	22
2009	86	36	50	0	42	21	19

*Percent Based Only Where Helmet Use Was Known

**Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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Fatalities by Person Type

Person Type		2005		2006		2007		2008		2009	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	**Passenger Car**	474	48	428	47	383	44	340	41	330	42
	Light Truck - Pickup	178	18	167	18	162	19	144	17	165	21
	Light Truck - Utility	87	9	71	8	74	9	79	10	98	12
	Light Truck - Van	43	4	37	4	28	3	32	4	25	3
	Light Truck - Other	1	0	0	0	0	0	1	0	1	0
	Large Truck	18	2	25	3	21	2	22	3	20	3
	Bus	0	0	0	0	3	0	1	0	0	0
	Other/Unknown Occupants	25	3	27	3	33	4	31	4	20	3
	Total Occupants	826	84	755	83	704	81	650	79	659	83
Motorcyclists	***Total Motorcyclists***	89	9	98	11	112	13	101	12	86	11
Nonoccupants	**Pedestrian**	54	5	52	6	44	5	66	8	41	5
	Bicyclist and Other Cyclist	12	1	5	1	3	0	6	1	5	1
	Other/Unknown Nonoccupants	4	0	3	0	1	0	2	0	0	0
	Total Nonoccupants	70	7	60	7	48	6	74	9	46	6
Total	***Total***	985	100	913	100	864	100	825	100	791	100

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

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Fatalities by Crash Type

Crash Type	2005	2006	2007	2008	2009
Total Fatalities (All Crashes)*	985	913	864	825	791
- (1) Single Vehicle	547	500	510	481	420
- (2) Involving a Large Truck	124	105	104	113	112
- (3) Involving Speeding	187	160	132	154	154
- (4) Involving a Rollover	311	276	269	233	213
- (5) Involving a Roadway Departure	667	599	595	572	542
- (6) Involving an Intersection (or Intersection Related)	156	144	129	94	103

(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	
2005	8	20	19	18	16	8	89
2006	6	31	16	15	20	10	98
2007	9	28	24	23	22	6	112
2008	5	19	16	27	20	14	101
2009	3	22	17	18	11	15	86

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Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2005	89	56,152	158.5
2006	98	58,959	166.2
2007	112	61,907	180.9
2008	101	65,002	155.4
2009	86		

*Data Source: FHWA

*2009 Motorcycle Registrations are Not Yet Available

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Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2005	2006	2007	2008
Occupants (All Vehicle Types)	**Hispanic**	14	14	8	6
	White Non-Hispanic	853	801	782	714
	Black, Non-Hispanic	35	35	25	31
	Asian, Non-Hispanic/Unknown	0	1	0	0
	All Other Non-Hispanic or Race	3	2	1	0
	Unknown Race and Unknown Hispanic	10	0	0	0
	Total	915	853	816	751
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	1	4	2	1
	White Non-Hispanic	61	49	37	65
	Black, Non-Hispanic	7	7	8	8
	Asian, Non-Hispanic/Unknown	0	0	0	0
	All Other Non-Hispanic or Race	0	0	1	0
	Unknown Race and Unknown Hispanic	1	0	0	0
	Total	70	60	48	74
Total		985	913	864	825

2009 Race/Hispanic Origin Data is Not Yet Complete

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5 Year Trend For The Top 10 Counties of 2009 - Fatalities

Counties by 2009 Ranking		Fatalities					Percent of Total				
		2005	2006	2007	2008	2009	2005	2006	2007	2008	2009
1	Jefferson County	102	79	80	77	57	10	9	9	9	7
2	Warren County	27	23	13	23	25	3	3	2	3	3
3	Fayette County	34	23	26	31	23	3	3	3	4	3
4	Hardin County	17	23	18	18	19	2	3	2	2	2
5	Barren County	14	6	8	11	17	1	1	1	1	2
6	Pike County	29	33	20	32	17	3	4	2	4	2
7	Boone County	18	19	12	11	15	2	2	1	1	2
8	Harlan County	8	10	9	12	14	1	1	1	1	2
9	Laurel County	27	17	17	17	14	3	2	2	2	2
10	Marshall County	9	6	11	6	13	1	1	1	1	2
*Sub Total 1.**	*Top Ten Counties*	307	266	243	258	214	31	29	28	31	27
*Sub Total 2.***	*All Other Counties*	678	647	621	567	577	69	71	72	69	73
Total	*All Counties*	985	913	864	825	791	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 2009 - Fatalities Year to Year Percent Change

Counties by 2009 Ranking		Fatalities					Percent Change From Previous Year			
		2005	2006	2007	2008	2009	2006	2007	2008	2009
1	Jefferson County	102	79	80	77	57	-23	1	-4	-26
2	Warren County	27	23	13	23	25	-15	-43	77	9
3	Fayette County	34	23	26	31	23	-32	13	19	-26
4	Hardin County	17	23	18	18	19	35	-22	0	6
5	Barren County	14	6	8	11	17	-57	33	38	55
6	Pike County	29	33	20	32	17	14	-39	60	-47
7	Boone County	18	19	12	11	15	6	-37	-8	36
8	Harlan County	8	10	9	12	14	25	-10	33	17
9	Laurel County	27	17	17	17	14	-37	0	0	-18
10	Marshall County	9	6	11	6	13	-33	83	-45	117
*Sub Total 1.**	*Top Ten Counties*	307	266	243	258	214	-13	-9	6	-17
*Sub Total 2.***	*All Other Counties*	678	647	621	567	577	-5	-4	-9	2
Total	*All Counties*	985	913	864	825	791	-7	-5	-5	-4

*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 2009 - Fatality Rates

Median Rate for all U.S. Counties: 18.23

Counties by 2009 Ranking		Fatalities Per 100,000 Population				
		2005	2006	2007	2008	2009
1	Wolfe County	85.24	141.42	42.12	28.30	84.52
2	Washington County	53.30	35.21	86.78	35.01	79.95
3	Gallatin County	62.19	24.91	111.44	49.38	73.15
4	Pendleton County	40.19	33.28	46.70	20.10	67.17
5	Carroll County	67.18	0.00	85.73	18.80	65.40
6	Nicholas County	14.35	14.39	57.81	29.01	58.19
7	Elliott County	26.58	62.42	36.71	23.08	55.05
8	Livingston County	51.60	51.87	52.23	62.84	52.09
9	Montgomery County	41.32	28.31	39.71	19.60	50.32
10	Metcalfe County	29.77	29.69	49.20	19.67	49.69
*Sub Rate 1.**	*Top Ten Counties*	74.09	73.12	72.76	62.42	61.62
*Sub Rate 2.***	*All Other Counties*	22.38	20.41	18.91	17.94	17.16
Total Rate	*All Counties*	23.55	21.64	20.30	19.24	18.34

*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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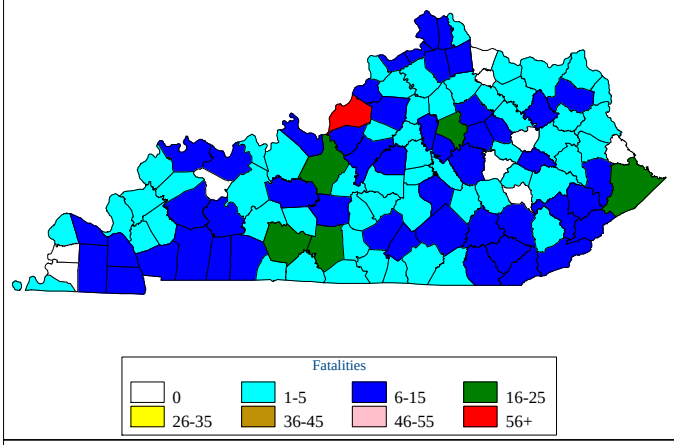
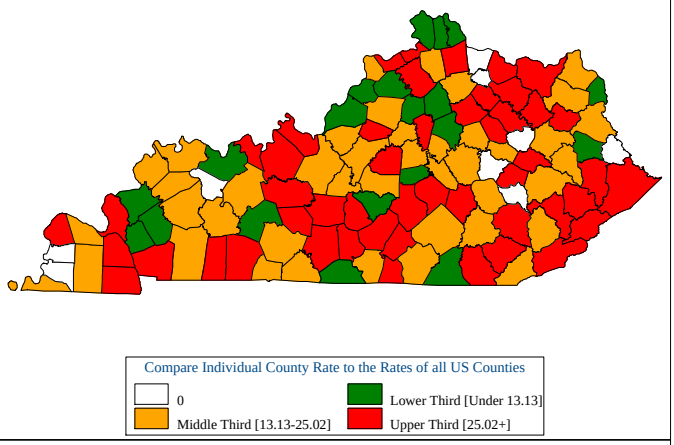
Kentucky Motor Vehicle Crash Fatality Maps for 2009

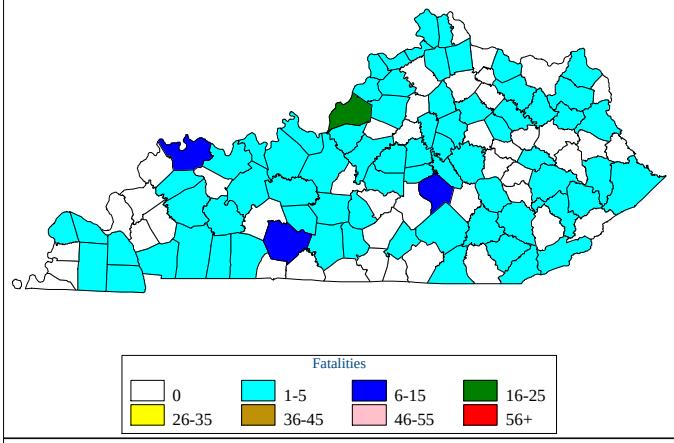
Fatalities (All Crashes)



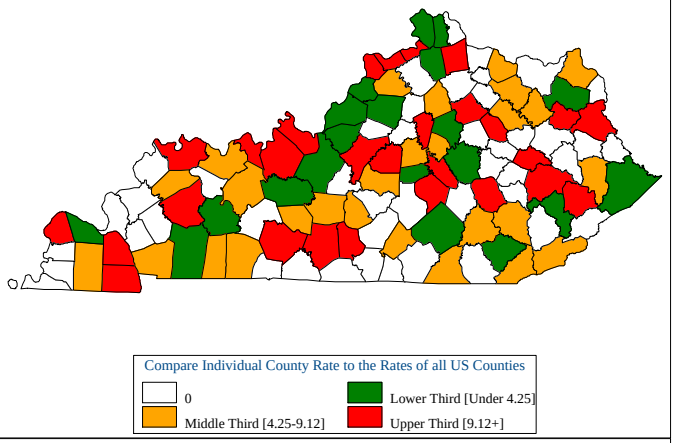
Fatalities (All Crashes) per 100,000 Population



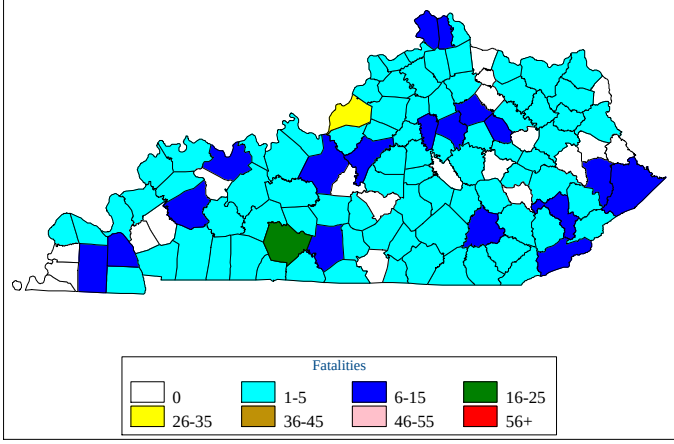
Fatalities in Crashes Involving an Alcohol-Impaired Driver (BAC = .08+)



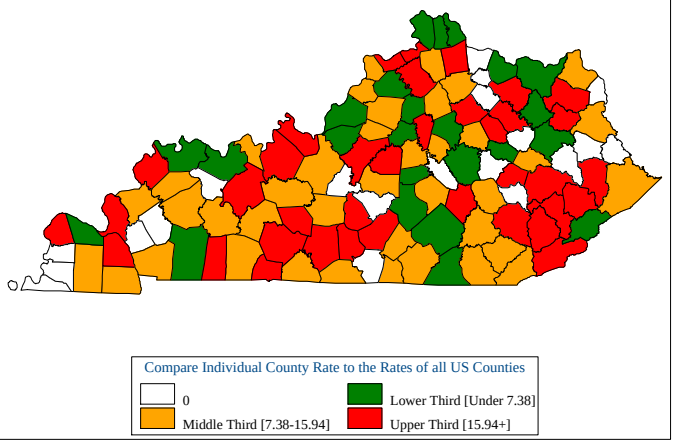
Fatalities in Crashes Involving an Alcohol-Impaired Driver (BAC = .08+) per 100,000 Population



Single Vehicle Crash Fatalities



Single Vehicle Crash Fatalities per 100,000 Population



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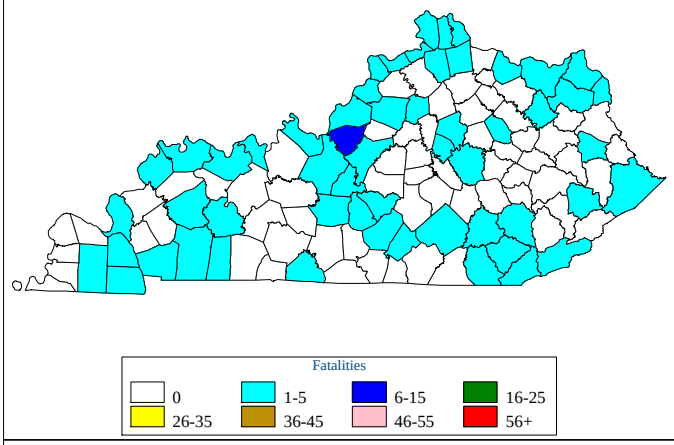
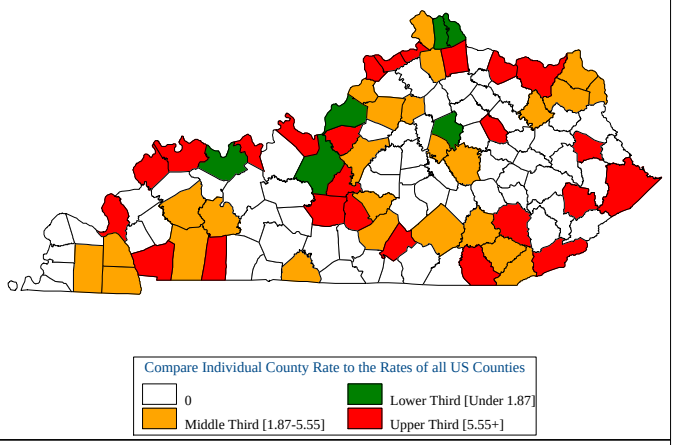
Kentucky Motor Vehicle Crash Fatality Maps for 2009

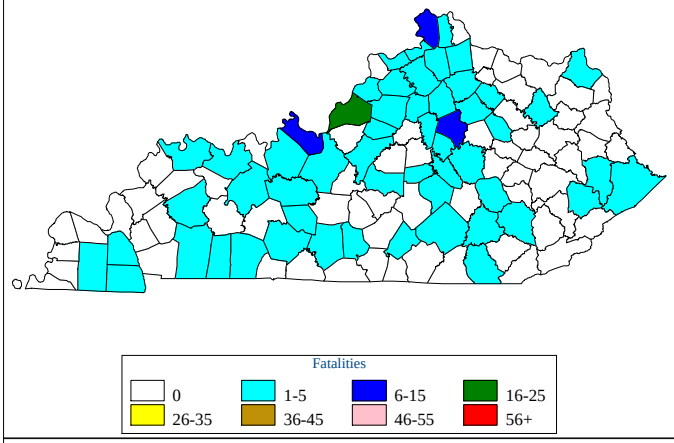
Fatalities in Crashes Involving a Large Truck



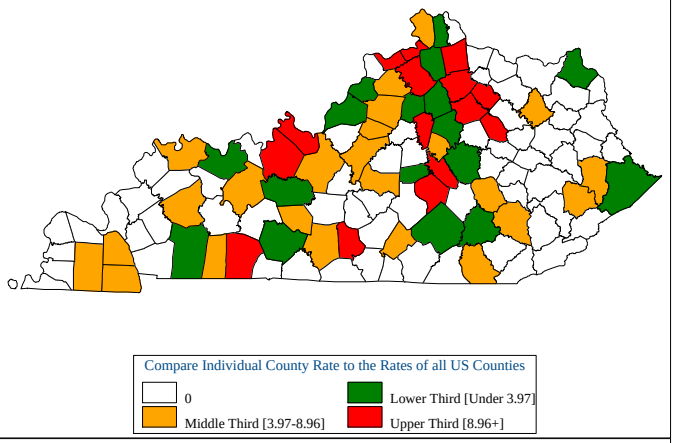
Fatalities in Crashes Involving a Large Truck per 100,000 Population



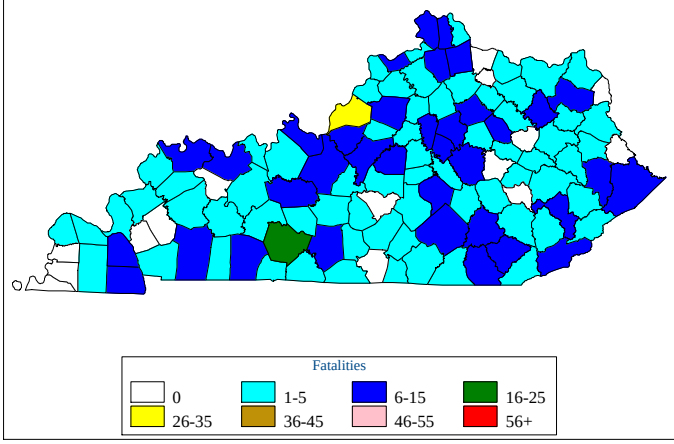
Fatalities in Crashes Involving Speeding



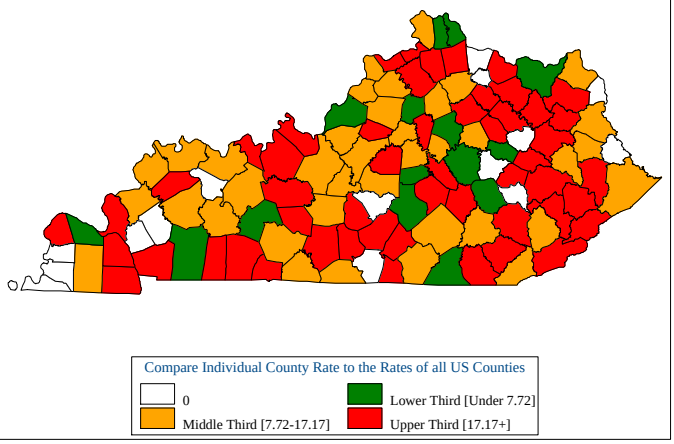
Fatalities in Crashes Involving Speeding per 100,000 Population



Fatalities in Crashes Involving a Roadway Departure



Fatalities in Crashes Involving a Roadway Departure per 100,000 Population



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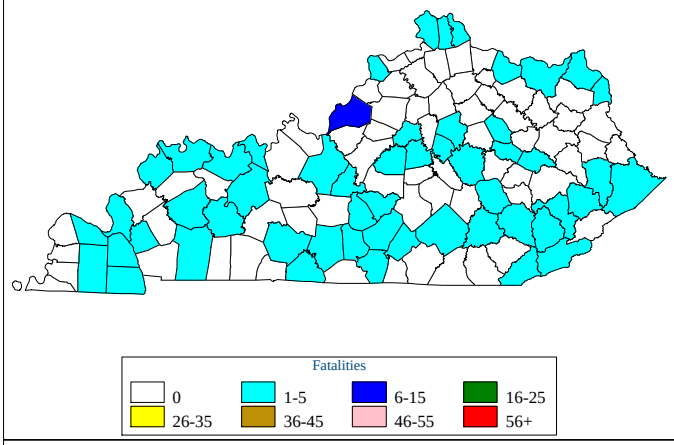
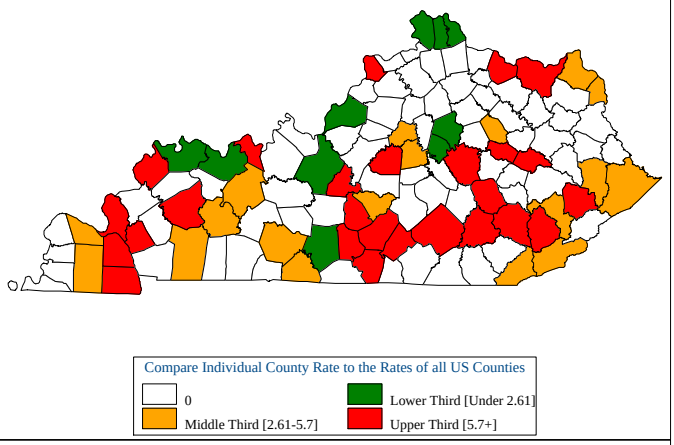
Kentucky Motor Vehicle Crash Fatality Maps for 2009

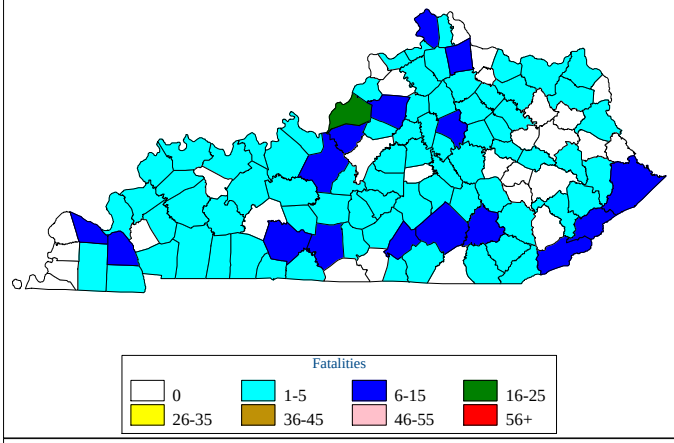
Fatalities in Crashes Involving an Intersection (or Intersection Related)



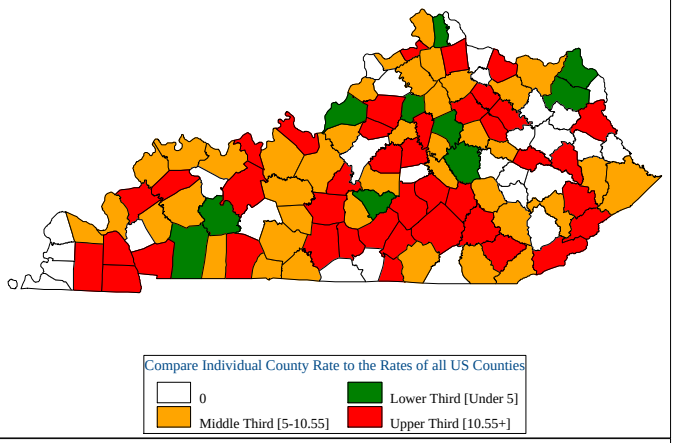
Fatalities in Crashes Involving an Intersection (or Intersection Related) per 100,000 Population



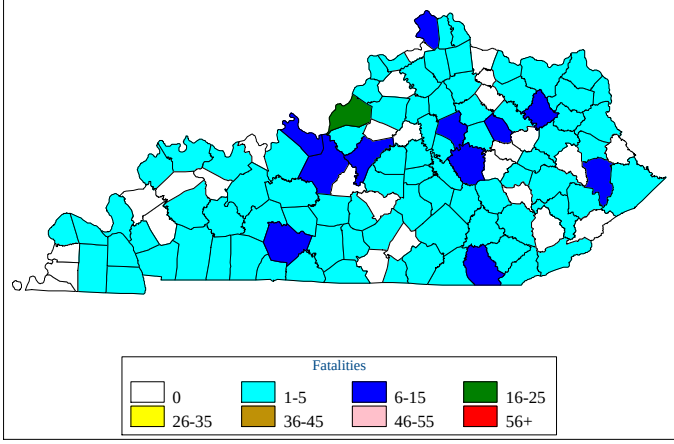
Passenger Car Occupant Fatalities



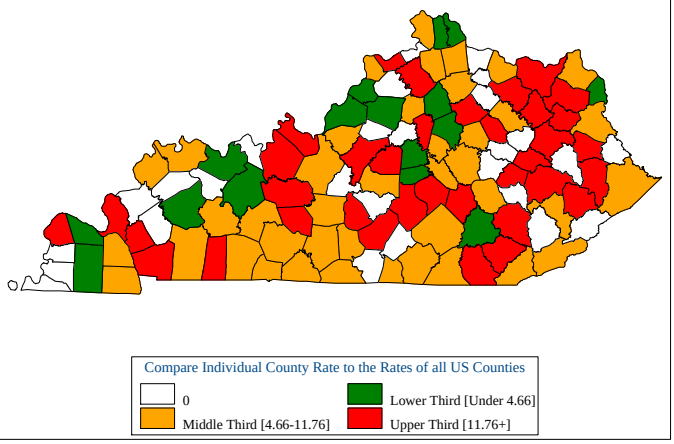
Passenger Car Occupant Fatalities per 100,000 Population



Light Truck and Van Occupant Fatalities



Light Truck and Van Occupant Fatalities per 100,000 Population



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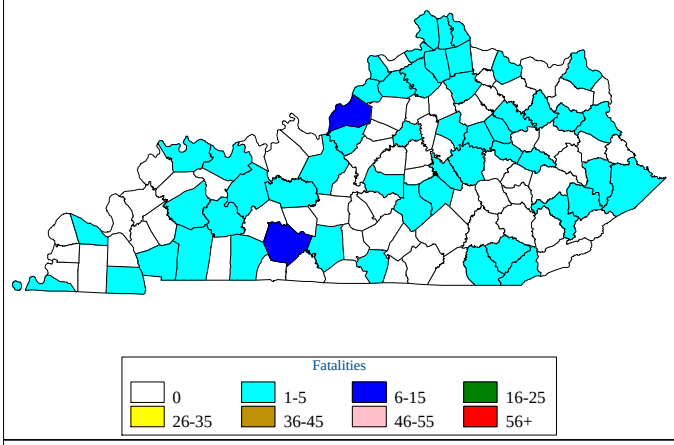
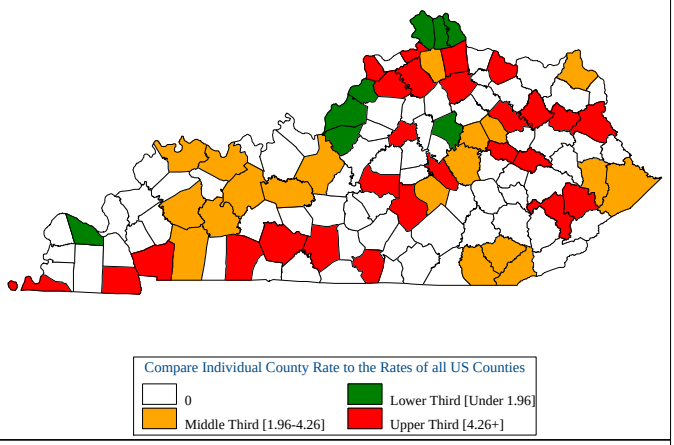
Kentucky Motor Vehicle Crash Fatality Maps for 2009

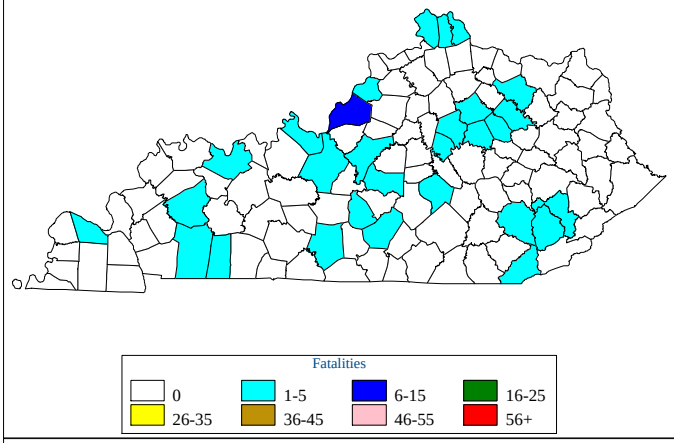
Motorcyclist Fatalities



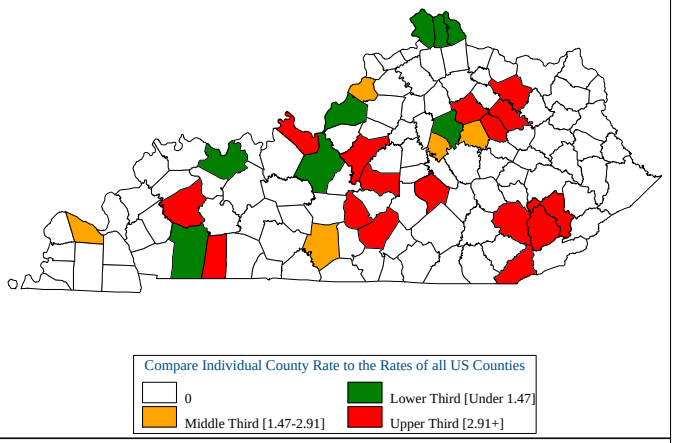
Motorcyclist Fatalities per 100,000 Population



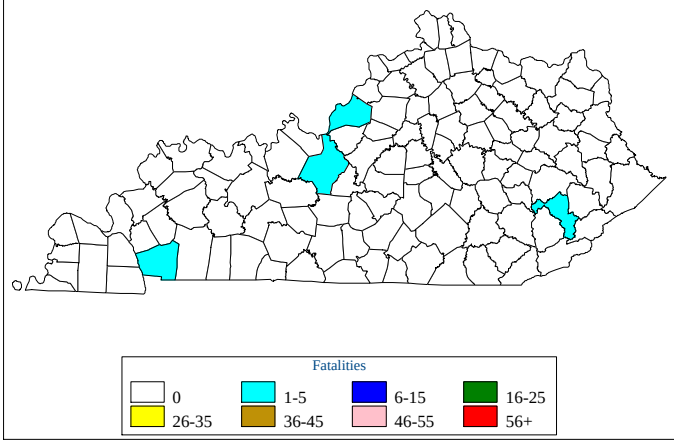
Pedestrian Fatalities



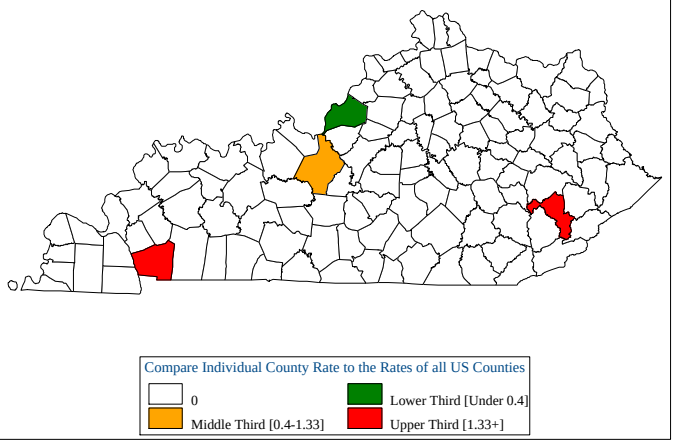
Pedestrian Fatalities per 100,000 Population



Pedalcyclist Fatalities



Pedalcyclist Fatalities per 100,000 Population



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