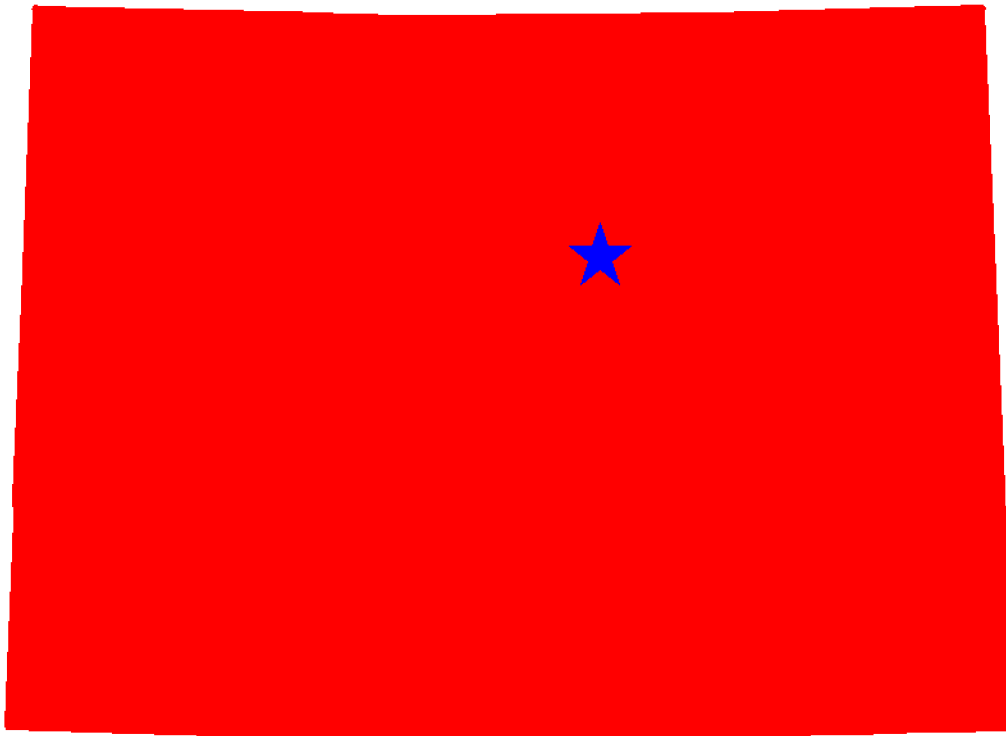




Traffic Safety Facts Colorado 2004-2008



This Report Contains Data From the Following Sources:

- Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2004-2007 Final File and 2008 Annual Report File (ARF)
- Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Colorado State Survey
- Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)
- Population Data - U.S. Bureau of the Census



Table of Contents

3. Traffic Safety Performance Measures
4. Fatality Rates: Colorado , U.S. and Best State
5. Alcohol-Related Fatalities: Colorado , U.S. and Best State (Old Definition)
6. Alcohol-Impaired Driving Fatalities: Colorado , U.S. and Best State (New Definition)
7. Fatalities Per 100 Million VMT: Colorado , U.S.
7. Alcohol-Impaired Driving Fatalities Per 100 Million VMT: Colorado , U.S.
8. Blood Alcohol Concentration (BAC) Reporting Rates For Drivers/Motorcycle Rider (Operators) Involved in Fatal Crashes: Colorado , U.S. and Best State
9. Front Seat Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use: Fatalities and Observed Colorado , U.S. and Best State
10. Front Seat Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use: Colorado , U.S.
10. Front Seat Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use: Colorado , U.S.
11. Passenger Vehicle Occupant Fatalities Aged 5 and Above by Restraint Use and Lives Saved Estimates
11. Passenger Vehicle Occupant Fatalities Aged Under 5 by Restraint Use and Lives Saved Estimates
12. Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates
13. Fatalities by Person Type
14. Fatalities by Crash Type
15. Motorcyclist Fatalities by Age
15. Motorcyclist Fatalities Per 100,000 Registered Motorcycles
16. Fatalities by Person Type and Race/Hispanic Origin
17. Top 10 Counties for Fatalities
18. Top 10 Counties for Fatalities: Year to Year Percent Change
19. Top 10 Counties for Fatality Rates
20. Motor Vehicle Crash Fatality Maps:
Total Fatalities, Alcohol-Impaired Driving Fatalities, Single Vehicle Crash Fatalities
21. Motor Vehicle Crash Fatality Maps:
Large Truck Crash Fatalities, Speeding Involved Fatalities, Roadway Departure Fatalities
22. Motor Vehicle Crash Fatality Maps:
Intersection Fatalities, Passenger Car Occupants, Light Truck and Van Occupants
23. Motor Vehicle Crash Fatality Maps:
Motorcyclist Fatalities, Pedestrian Fatalities, Pedestrian Fatalities



Traffic Safety Performance (Core Outcome) Measures* For Colorado

Core Outcome Measures		Year				
		2004	2005	2006	2007	2008
Traffic Fatalities	Total	667	606	535	554	548
	Rural	389	333	306	316	296
	Urban	278	273	229	238	252
	Unknown	0	0	0	0	0
Fatalities Per 100 Million Vehicle Miles Driven	Total	1.45	1.26	1.10	1.14	1.15
	Rural	2.61	2.23	1.98	2.02	1.89
	Urban	0.90	0.83	0.69	0.72	0.78
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	492	444	368	367	378
	Restrained	209	188	139	161	186
	Unrestrained	275	250	226	193	173
	Unknown	8	6	3	13	19
Alcohol-Impaired Driving Fatalities (BAC=.08+)**		200	206	179	167	173
Speeding-Related Fatalities		255	204	182	224	210
Motorcyclist Fatalities	Total	81	87	74	90	98
	Helmeted	19	4	13	33	30
	Unhelmeted	62	83	61	57	68
	Unknown	0	0	0	0	0
Drivers Involved in Fatal Crashes	Total	951	847	721	789	712
	Aged Under 15	1	1	2	2	1
	Aged 15-20	157	107	97	85	86
	Aged Under 21	158	108	99	87	87
	Aged 21 and Over	777	727	614	696	617
	Unknown Age	16	12	8	6	8
Pedestrian Fatalities		70	48	59	58	44

*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)

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

[Back To The Table of Contents](#)



Fatality Rates: Colorado , 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
2004	Colorado	667	45,891	1.45	4,600,050	14.50
	US	42,836	2,964,788	1.44	292,892,127	14.63
	Best State*			0.87		7.39
2005	Colorado	606	47,962	1.26	4,662,734	13.00
	US	43,510	2,989,430	1.46	295,560,549	14.72
	Best State*			0.80		6.85
2006	Colorado	535	48,641	1.10	4,751,474	11.26
	US	42,708	3,014,371	1.42	298,362,973	14.31
	Best State*			0.78		6.32
2007	Colorado	554	48,713	1.14	4,842,770	11.44
	US	41,259	3,032,399	1.36	301,290,332	13.69
	Best State*			0.79		6.55
2008	Colorado	548	47,860	1.15	4,939,456	11.09
	US	37,261	2,973,509	1.25	304,059,724	12.25
	Best State*			0.67		5.59

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

[Back To The Table of Contents](#)



Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash**:
Colorado , 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	
2004	Colorado	667	265	40	228	34	0.50
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	Colorado	606	252	42	222	37	0.46
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	Colorado	535	227	42	193	36	0.40
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	Colorado	554	224	40	195	35	0.40
	US	41,259	17,158	42	14,603	35	0.48
	Best State*			24		21	0.23
2008	Colorado	548	218	40	189	34	0.39
	US	37,261	15,438	41	13,294	36	0.45
	Best State*			21		16	0.16

*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

[Back To The Table of Contents](#)



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

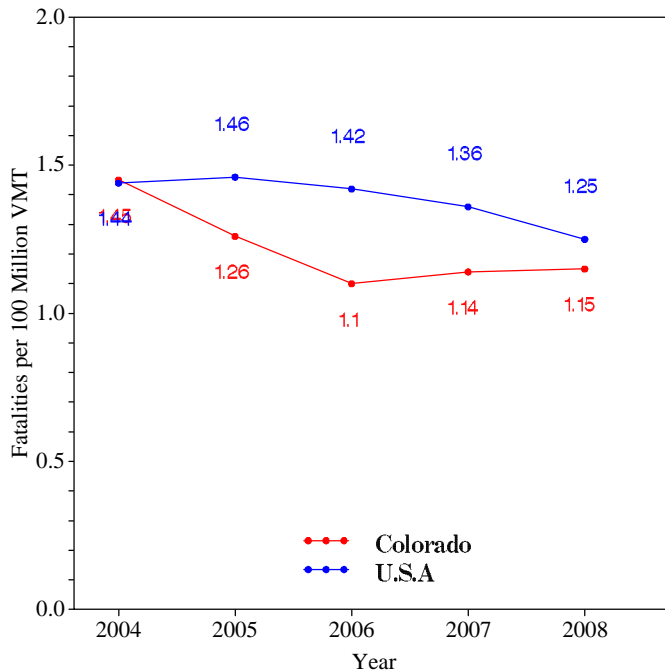
Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2004	Colorado	667	200	30	0.44
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	Colorado	606	206	34	0.43
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Colorado	535	179	33	0.37
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Colorado	554	167	30	0.34
	US	41,259	13,041	32	0.43
	Best State*			19	0.21
2008	Colorado	548	173	32	0.36
	US	37,261	11,773	32	0.40
	Best State*			16	0.16

*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

[Back To The Table of Contents](#)

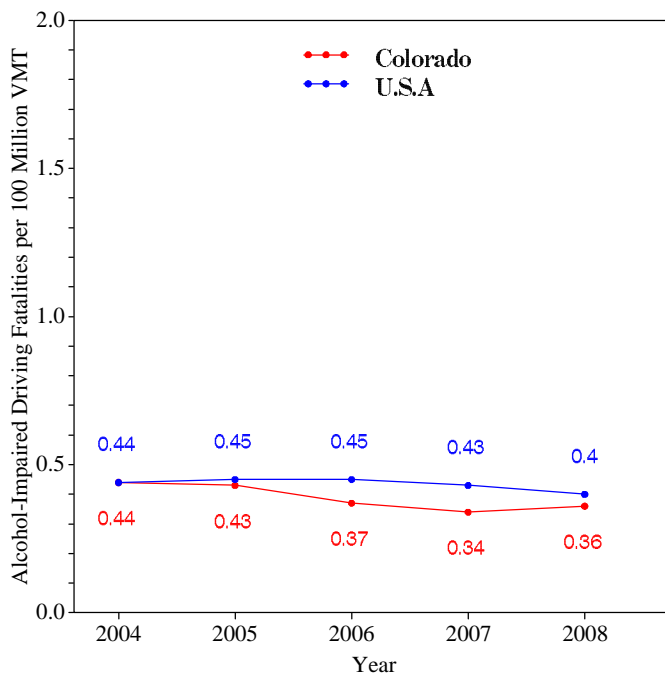


Fatalities per 100 Million VMT



[Back To The Table of Contents](#)

Alcohol-Impaired Driving Fatalities per 100 Million VMT



[Back To The Table of Contents](#)



**Blood Alcohol Concentration (BAC) Reporting Rates
For Drivers/Motorcycle Riders (Operators)
Involved in Fatal Crashes:
Colorado , 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
2004	Colorado	551	83	15	400	251	63	951	334	35
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	Colorado	453	32	7	394	259	66	847	291	34
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Colorado	384	55	14	337	243	72	721	298	41
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Colorado	437	37	8	352	308	88	789	345	44
	US	29,449	7,631	26	26,570	19,434	73	56,019	27,065	48
	Best State*			82			100			84
2008	Colorado	351	36	10	361	278	77	712	314	44
	US	26,011	6,677	26	24,175	17,045	71	50,186	23,722	47
	Best State*			80			95			84

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

[Back To The Table of Contents](#)



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

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2004	Colorado	58	79
	US	56	80
	Best State*	82	95
2005	Colorado	55	79
	US	55	82
	Best State*	88	95
2006	Colorado	47	80
	US	55	81
	Best State*	77	96
2007	Colorado	59	81
	US	57	82
	Best State*	82	98
2008	Colorado	62	82
	US	56	83
	Best State*	78	97

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

**Percent Based Only Where Restraint Use Was Known

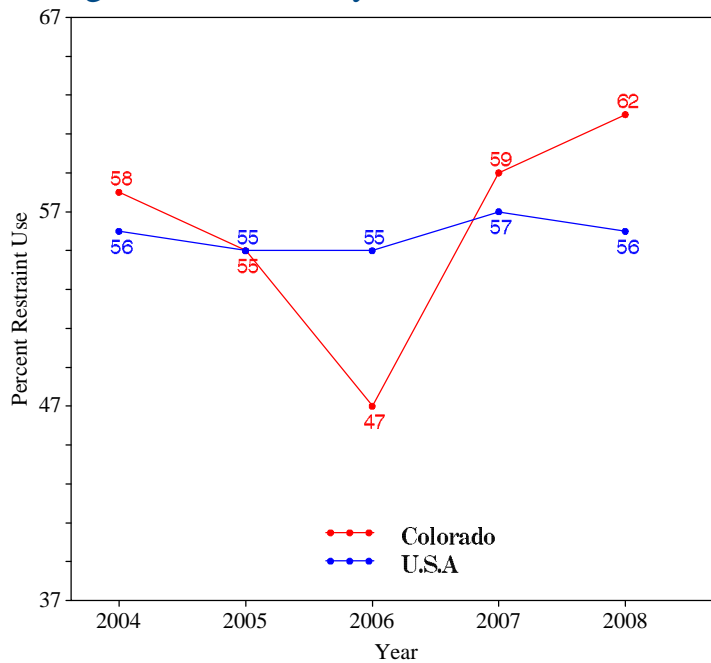
***USA Data: National Occupant Protection Use Survey. Colorado Data: State Survey

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

[Back To The Table of Contents](#)



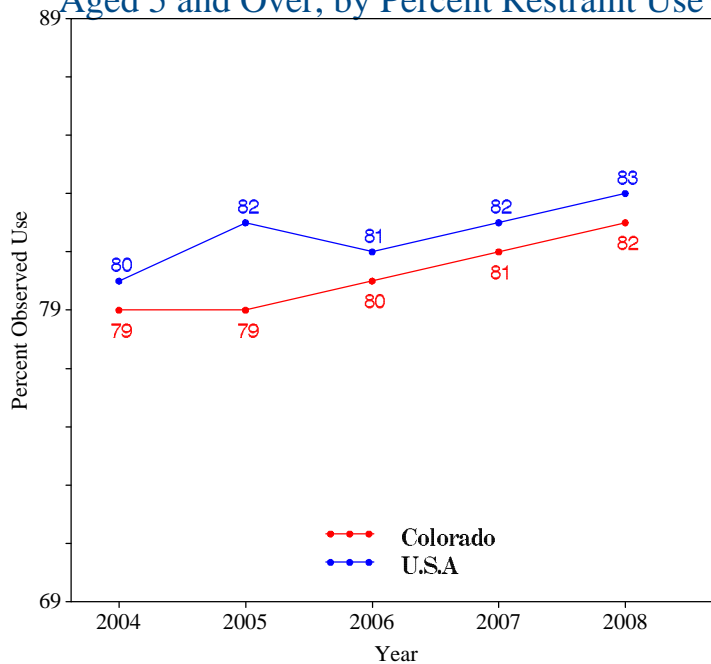
Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use*



*Percent Based Only Where Restraint Use Was Known

[Back To The Table of Contents](#)

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



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

[Back To The Table of Contents](#)



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
2004	480	200	272	8	42	232	96
2005	433	179	248	6	42	216	87
2006	362	134	225	3	37	168	74
2007	364	159	192	13	45	201	82
2008	371	181	171	19	51	233	88

*Percent Based Only Where Restraint Use Was Known

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

[Back To The Table of Contents](#)

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
2004	11	8	3	0	73	9
2005	10	9	1	0	90	10
2006	6	5	1	0	83	8
2007	3	2	1	0	67	2
2008	7	5	2	0	71	4

*Percent Based Only Where Restraint Use Was Known

**Lives Saved Estimates

[Back To The Table of Contents](#)



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
2004	81	19	62	0	23	11	23
2005	87	4	83	0	5	2	31
2006	74	13	61	0	18	8	23
2007	90	33	57	0	37	20	21
2008	98	30	68	0	31	18	26

*Percent Based Only Where Helmet Use Was Known

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

[Back To The Table of Contents](#)



Fatalities by Person Type

Person Type		2004		2005		2006		2007		2008	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	277	42	252	42	180	34	189	34	178	32
	Light Truck - Pickup	97	15	85	14	83	16	73	13	80	15
	Light Truck - Utility	95	14	89	15	79	15	84	15	88	16
	Light Truck - Van	21	3	18	3	25	5	21	4	32	6
	Light Truck - Other	2	0	0	0	1	0	0	0	0	0
	Large Truck	10	1	16	3	19	4	22	4	10	2
	Other/Unknown Occupants	3	0	2	0	2	0	1	0	0	0
	Total Occupants	505	76	462	76	389	73	390	70	388	71
Motorcyclists	Total Motorcyclists	81	12	87	14	74	14	90	16	98	18
Nonoccupants	Pedestrian	70	10	48	8	59	11	58	10	44	8
	Bicyclist and Other Cyclist	11	2	8	1	10	2	11	2	12	2
	Other/Unknown Nonoccupants	0	0	1	0	3	1	5	1	6	1
	Total Nonoccupants	81	12	57	9	72	13	74	13	62	11
Total	Total	667	100	606	100	535	100	554	100	548	100

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

[Back To The Table of Contents](#)



Fatalities by Crash Type

Crash Type	2004	2005	2006	2007	2008
Total Fatalities (All Crashes)*	667	606	535	554	548
- (1) Single Vehicle	347	346	315	306	314
- (2) Involving a Large Truck	69	68	67	82	68
- (3) Involving Speeding	255	204	182	224	210
- (4) Involving a Rollover	258	256	227	225	204
- (5) Involving a Roadway Departure	388	364	306	307	323
- (6) Involving an Intersection (or Intersection Related)	162	149	119	149	125

(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

[Back To The Table of Contents](#)



Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2004	4	18	14	19	22	4	81
2005	2	18	19	18	21	9	87
2006	3	13	13	25	13	7	74
2007	4	15	15	27	18	11	90
2008	5	25	17	22	19	10	98

[Back To The Table of Contents](#)

Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2004	81	8,411	963.0
2005	87	117,159	74.26
2006	74	117,159	63.16
2007	90	111,468	80.74
2008	98	118,486	82.71

*Data Source: FHWA

[Back To The Table of Contents](#)



Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2004	2005	2006	2007
Occupants (All Vehicle Types)	Hispanic	135	103	87	92
	White Non-Hispanic	405	417	334	357
	Black, Non-Hispanic	13	16	18	24
	American Indian, Non-Hispanic/Unknown	7	4	8	3
	Asian, Non-Hispanic/Unknown	2	0	1	0
	Pacific Islander, Non-Hispanic/Unknown	2	0	0	0
	Multiple Races, Non-Hispanic/Unknown	1	0	0	0
	All Other Non-Hispanic or Race	9	7	12	4
	Unknown Race and Unknown Hispanic	12	2	3	0
	Total	586	549	463	480
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)	Hispanic	22	14	25	22
	White Non-Hispanic	49	35	43	46
	Black, Non-Hispanic	4	5	2	4
	American Indian, Non-Hispanic/Unknown	2	2	2	0
	Asian, Non-Hispanic/Unknown	0	0	0	0
	Pacific Islander, Non-Hispanic/Unknown	0	0	0	0
	Multiple Races, Non-Hispanic/Unknown	0	0	0	0
	All Other Non-Hispanic or Race	1	0	0	2
	Unknown Race and Unknown Hispanic	3	1	0	0
	Total	81	57	72	74
Total	667	606	535	554	

2008 Race/Hispanic Origin Data is Not Yet Complete

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2008 - Fatalities

Counties by 2008 Ranking		Fatalities					Percent of Total				
		2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
1	El Paso County	58	47	31	39	47	9	8	6	7	9
2	Denver County	60	53	35	39	46	9	9	7	7	8
3	Weld County	89	46	38	47	45	13	8	7	9	8
4	Arapahoe County	30	35	40	36	44	5	6	7	7	8
5	Adams County	48	54	38	39	39	7	9	7	7	7
6	Jefferson County	34	47	45	39	39	5	8	8	7	7
7	Larimer County	30	27	28	25	26	5	4	5	5	5
8	Pueblo County	27	16	15	23	26	4	3	3	4	5
9	Boulder County	21	23	18	15	23	3	4	3	3	4
10	Douglas County	27	23	21	14	21	4	4	4	3	4
Sub Total 1.*	Top Ten Counties	424	374	318	332	356	64	62	59	60	65
Sub Total 2.**	All Other Counties	239	230	217	218	190	36	38	41	40	35
Total	All Counties	663	604	535	550	546	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

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2008 - Fatalities Year to Year Percent Change

Counties by 2008 Ranking		Fatalities					Percent Change From Previous Year			
		2004	2005	2006	2007	2008	2005	2006	2007	2008
1	El Paso County	58	47	31	39	47	-19	-34	26	21
2	Denver County	60	53	35	39	46	-12	-34	11	18
3	Weld County	89	46	38	47	45	-48	-17	24	-4
4	Arapahoe County	30	35	40	36	44	17	14	-10	22
5	Adams County	48	54	38	39	39	13	-30	3	0
6	Jefferson County	34	47	45	39	39	38	-4	-13	0
7	Larimer County	30	27	28	25	26	-10	4	-11	4
8	Pueblo County	27	16	15	23	26	-41	-6	53	13
9	Boulder County	21	23	18	15	23	10	-22	-17	53
10	Douglas County	27	23	21	14	21	-15	-9	-33	50
Sub Total 1.*	Top Ten Counties	424	374	318	332	356	-12	-15	4	7
Sub Total 2.**	All Other Counties	239	230	217	218	190	-4	-6	0	-13
Total	All Counties	663	604	535	550	546	-9	-11	3	-1

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

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

[Back To The Table of Contents](#)



5 Year Trend For The Top 10 Counties of 2008 - Fatality Rates

Median Rate for all U.S. Counties: 19.59

Counties by 2008 Ranking		Fatalities Per 100,000 Population				
		2004	2005	2006	2007	2008
1	Kiowa County	143.47	72.20	146.09	150.15	302.80
2	Jackson County	409.56	70.22	0.00	145.35	222.88
3	San Juan County	0.00	353.98	174.52	355.87	181.16
4	Baca County	49.33	125.53	204.55	25.88	130.41
5	Mineral County	0.00	650.05	0.00	208.33	103.95
6	Rio Blanco County	67.49	102.77	115.89	16.08	94.64
7	Lincoln County	71.06	72.89	18.65	18.83	94.59
8	Costilla County	114.61	59.51	0.00	30.38	92.82
9	San Miguel County	84.14	13.86	27.69	13.32	52.97
10	Huerfano County	51.79	51.45	76.71	63.99	50.39
	Sub Rate 1.* <i>Top Ten Counties</i>	99.70	119.35	110.04	89.74	93.84
	Sub Rate 2.** <i>All Other Counties</i>	13.57	12.39	10.26	10.99	10.52
	Total Rate <i>All Counties</i>	14.56	13.09	11.38	11.48	11.18

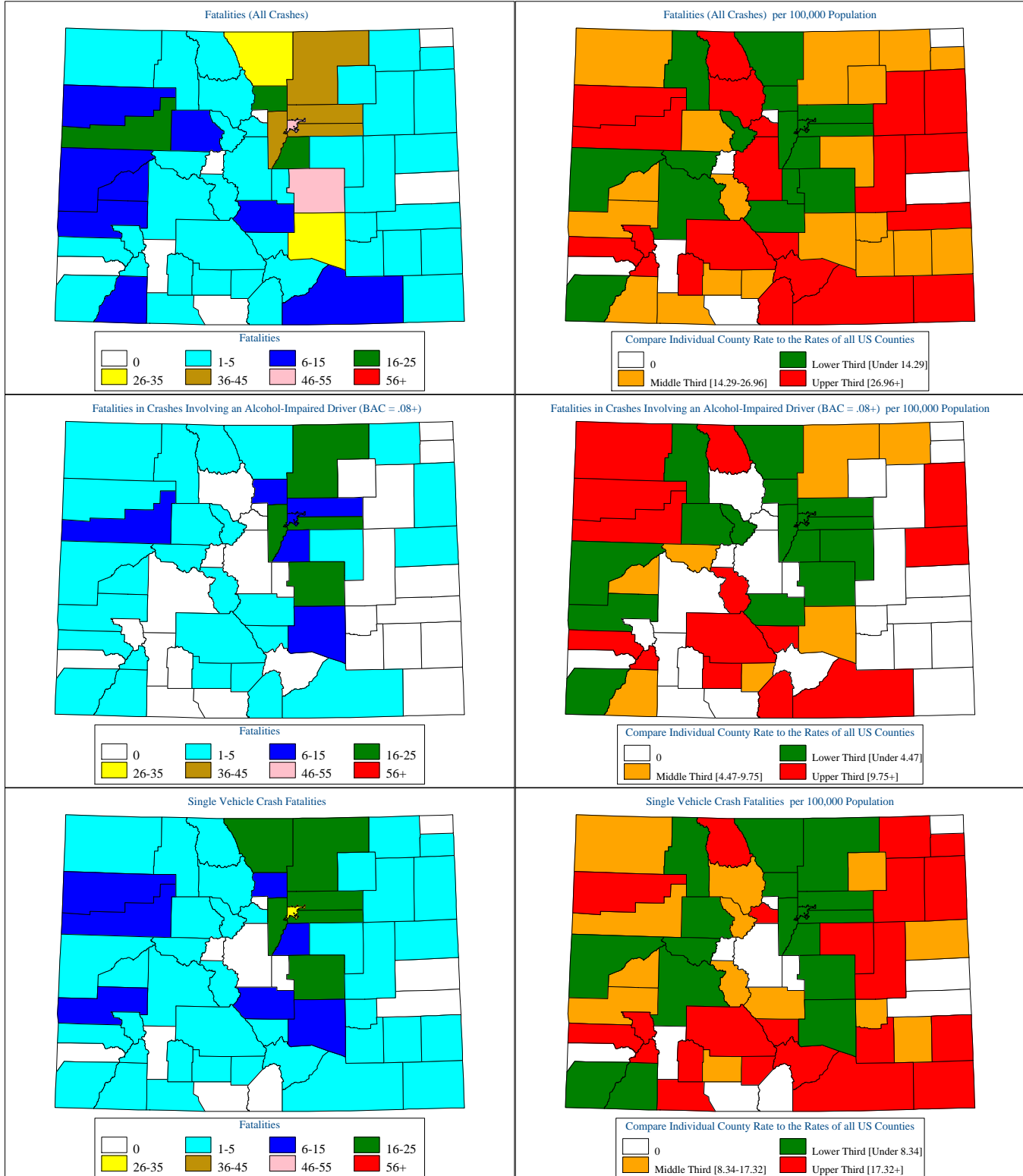
*This Sub Rate is the Rate for the Top Ten Counties

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

[Back To The Table of Contents](#)



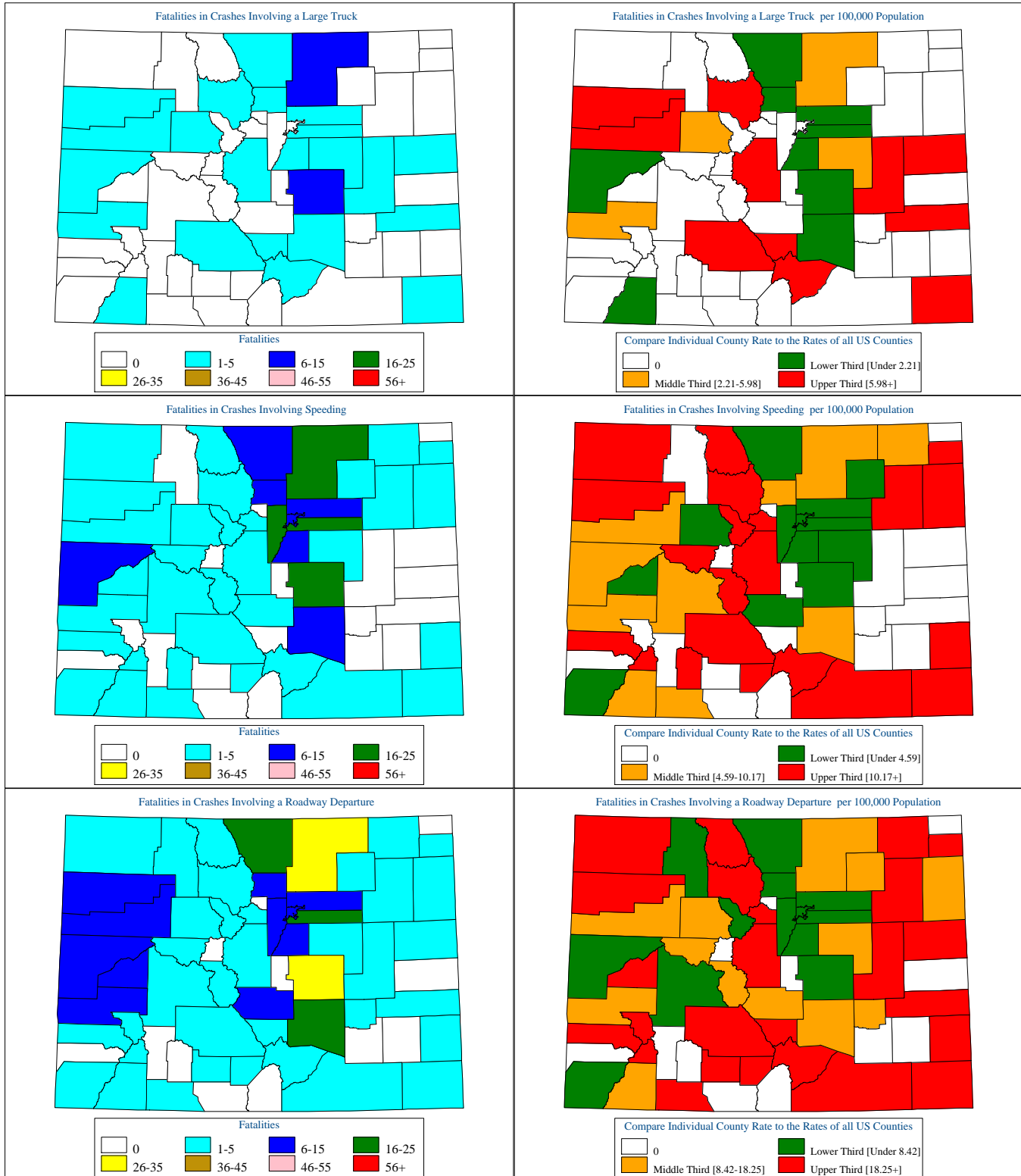
Colorado Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



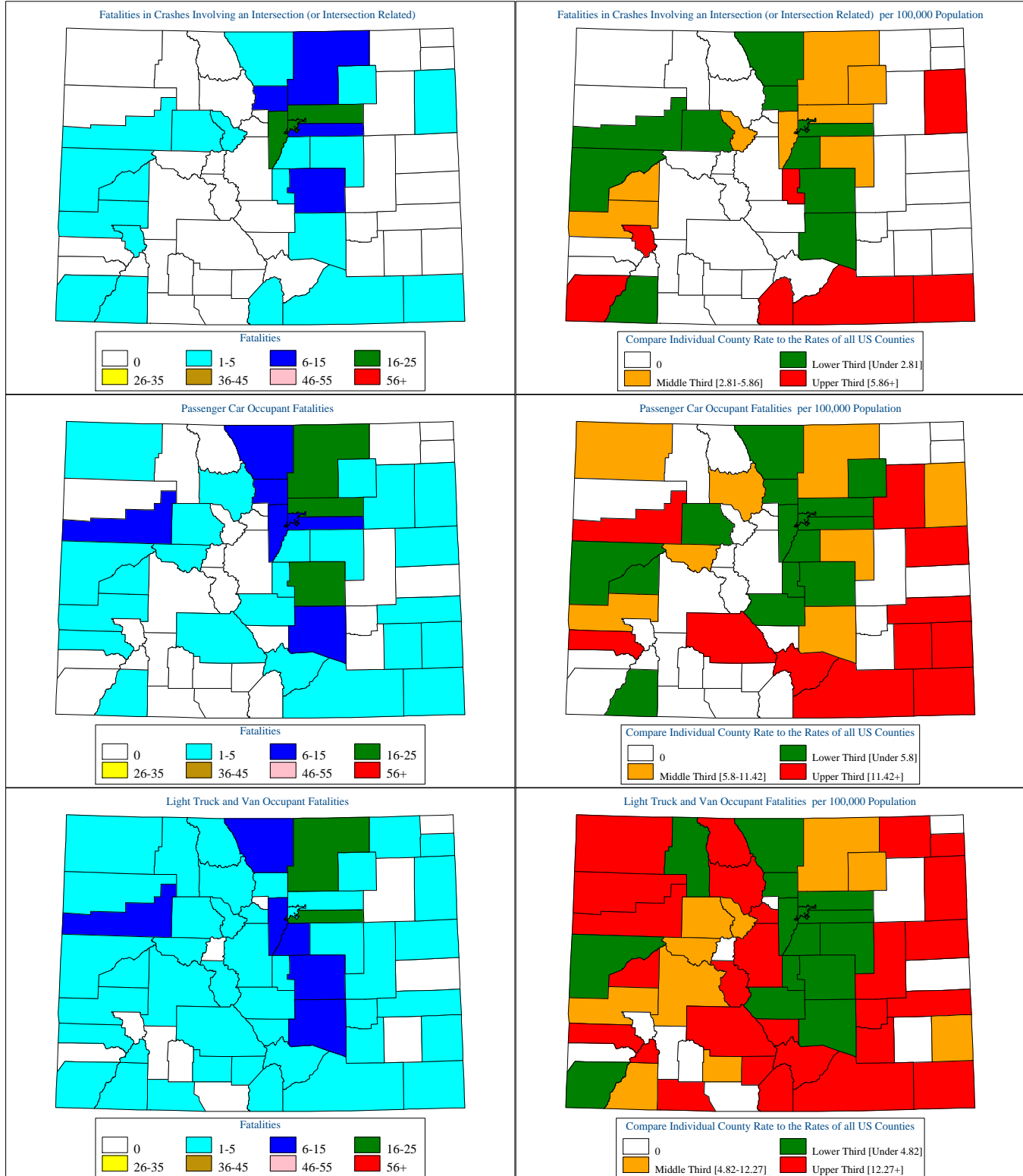
Colorado Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



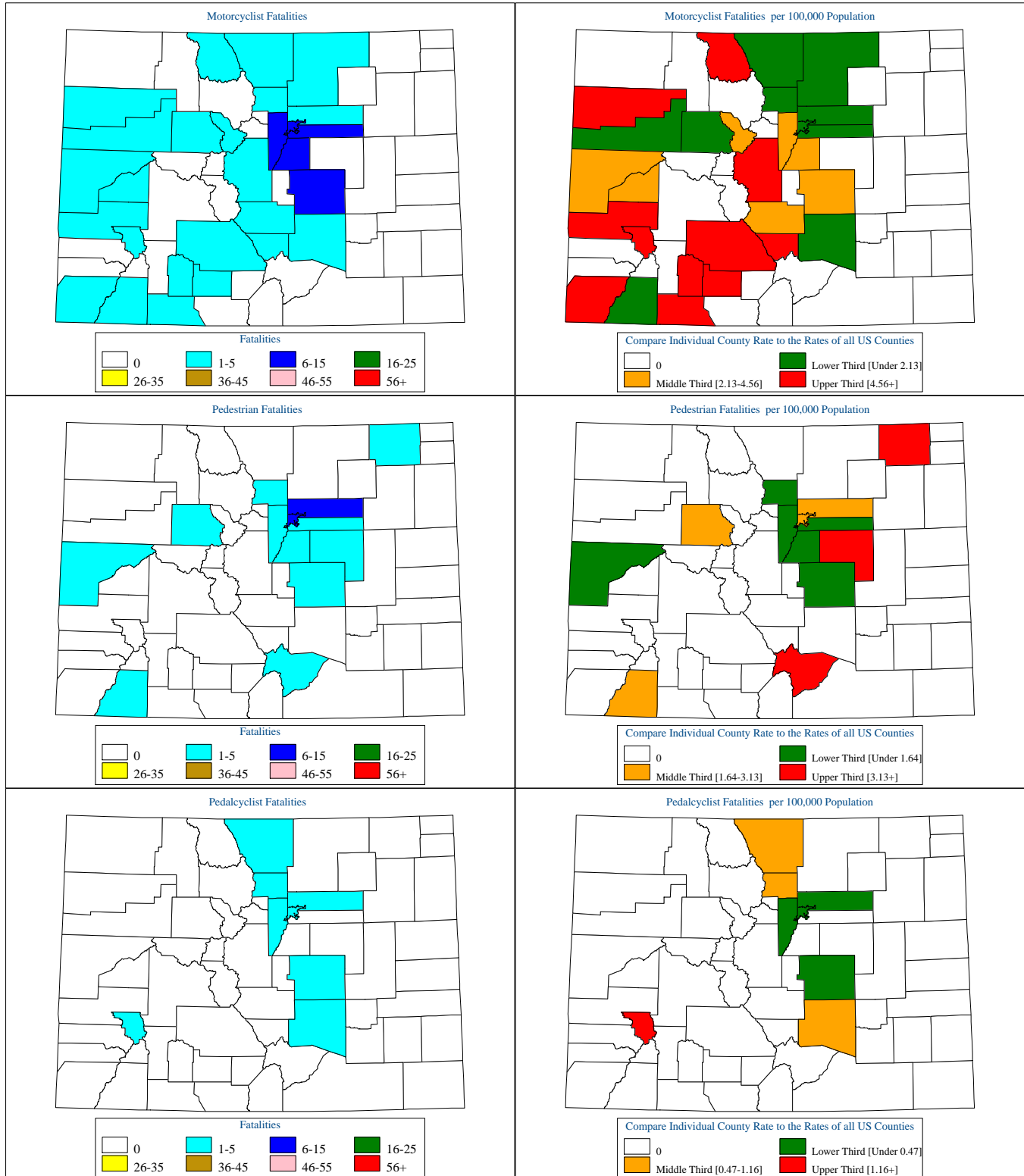
Colorado Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)



Colorado Motor Vehicle Crash Fatality Maps for 2008



[Back To The Table of Contents](#)