

Crash Rates and Crash Densities on Secondary Roads in Iowa by Functional Class

2001 – 2009

Prepared by:

Office of Traffic and Safety
Engineering Bureau
Highway Division

In cooperation with:

Office of Driver Services
Motor Vehicle Division

July 6, 2010

Iowa Department of Transportation

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
9-year Averages: 2001 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	2.02	2.02	81	277
Minor Arterial	2.19	2.41	70	215
Major Collector	2.83	3.13	57	167
Minor Collector	4.54	5.19	108	280
Local	6.33	7.10	173	439

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
8-year Averages: 2002 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	2.31	2.31	80	286
Minor Arterial	2.17	2.32	70	217
Major Collector	2.87	3.16	57	166
Minor Collector	4.51	5.14	107	278
Local	6.18	6.89	171	436

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
7-year Averages: 2003 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	2.70	2.70	74	293
Minor Arterial	2.23	2.39	71	219
Major Collector	2.80	3.11	57	165
Minor Collector	4.47	5.10	104	271
Local	6.06	6.72	167	425

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
6-year Averages: 2004 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	3.38	3.38	79	309
Minor Arterial	2.22	2.42	71	217
Major Collector	2.82	3.13	57	163
Minor Collector	4.42	5.10	104	265
Local	5.88	6.54	165	416

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
5-year Averages: 2005 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	72	297
Minor Arterial	2.33	2.51	73	223
Major Collector	2.82	3.16	56	161
Minor Collector	4.33	5.10	104	262
Local	5.88	6.59	162	409

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
4-year Averages: 2006 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	72	297
Minor Arterial	2.34	2.57	72	223
Major Collector	2.74	3.01	55	160
Minor Collector	4.11	4.83	101	257
Local	5.83	6.59	156	400

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
3-year Averages: 2007 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	72	303
Minor Arterial	2.43	2.63	70	221
Major Collector	2.58	2.81	54	159
Minor Collector	4.12	4.84	97	250
Local	5.93	6.72	149	391

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
2-year Averages: 2008 - 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	72	274
Minor Arterial	2.59	2.75	69	222
Major Collector	2.64	2.87	53	157
Minor Collector	3.96	4.68	91	239
Local	5.92	6.81	145	380

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	52	269
Minor Arterial	3.05	3.05	68	213
Major Collector	2.64	2.76	50	151
Minor Collector	3.60	4.56	90	234
Local	5.92	6.62	141	373

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
9-year Averages: 2001 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	277	2.02	81	12.14	79	10.12	29	39	196	121	2.02	14.16	12.14	39	64	4.05
Minor Arterial	215	2.19	70	10.64	68	8.45	24	35	145	102	2.41	12.83	10.42	34	50	5.46
Major Collector	167	2.83	57	11.77	55	8.94	21	24	110	83	3.13	14.65	11.52	31	33	4.45
Minor Collector	280	4.54	108	19.95	103	15.41	42	46	172	161	5.19	25.00	19.81	62	64	9.47
Local	439	6.33	173	30.08	167	23.75	67	76	266	259	7.10	38.14	31.04	101	104	15.21

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
8-year Averages: 2002 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	286	2.31	80	12.72	77	10.41	28	39	206	121	2.31	13.87	11.56	37	66	4.62
Minor Arterial	217	2.17	70	10.50	68	8.33	24	36	147	101	2.32	12.47	10.15	33	50	5.66
Major Collector	166	2.87	57	11.73	54	8.86	21	25	109	82	3.16	14.49	11.33	30	33	4.77
Minor Collector	278	4.51	107	19.67	102	15.16	41	46	171	158	5.14	24.61	19.46	60	63	10.29
Local	436	6.18	171	29.50	165	23.32	65	77	265	253	6.89	37.09	30.19	97	103	16.64

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
7-year Averages: 2003 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	293	2.70	74	12.14	71	9.44	27	35	218	116	2.70	13.49	10.79	35	63	4.05
Principal Arterial	219	2.23	71	10.67	68	8.44	23	37	148	102	2.39	12.77	10.37	33	51	5.96
Minor Arterial	165	2.80	57	11.45	54	8.66	21	25	108	82	3.11	14.18	11.08	30	33	5.10
Major Collector	271	4.47	104	19.29	100	14.82	40	46	167	155	5.10	24.13	19.03	59	61	10.89
Minor Collector	425	6.06	167	28.56	161	22.51	62	76	258	246	6.72	35.69	28.97	93	100	17.73

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
6-year Averages: 2004 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	309	3.38	79	11.83	76	8.45	32	35	230	122	3.38	13.52	10.14	41	64	3.38
Principal Arterial	217	2.22	71	10.50	69	8.28	24	37	146	102	2.42	12.67	10.25	32	51	5.77
Minor Arterial	163	2.82	57	11.31	54	8.49	20	25	106	81	3.13	14.08	10.94	29	32	5.44
Major Collector	265	4.42	104	18.96	99	14.54	39	46	162	154	5.10	23.90	18.80	58	60	11.71
Minor Collector	416	5.88	165	28.07	159	22.19	61	76	251	243	6.54	35.34	28.81	91	98	18.77
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
5-year Averages: 2005 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	297	0.00	72	10.30	72	10.30	27	35	224	113	0.00	12.36	12.36	37	62	2.06
Principal Arterial	223	2.33	73	11.04	71	8.72	24	38	149	105	2.51	12.89	10.39	33	53	6.27
Minor Arterial	161	2.82	56	10.96	54	8.13	20	25	105	80	3.16	13.59	10.43	28	32	5.58
Major Collector	262	4.33	104	18.33	99	14.00	39	47	159	153	5.10	23.33	18.23	57	60	12.49
Minor Collector	409	5.88	162	27.04	156	21.16	59	75	248	237	6.59	33.90	27.32	88	96	19.49
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
4-year Averages: 2006 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	297	0.00	72	10.35	72	10.35	23	39	225	114	0.00	12.93	12.93	36	62	2.59
Principal Arterial	223	2.34	72	11.17	69	8.83	23	37	152	102	2.57	12.75	10.19	32	52	4.75
Minor Arterial	160	2.74	55	10.76	52	8.02	20	24	105	77	3.01	13.21	10.19	28	31	4.67
Major Collector	257	4.11	101	17.53	97	13.43	38	46	156	149	4.83	22.24	17.41	56	60	10.76
Minor Collector	400	5.83	156	26.07	150	20.24	58	72	244	229	6.59	33.03	26.44	86	92	17.45
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
3-year Averages: 2007 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	303	0.00	72	10.34	72	10.34	24	38	231	107	0.00	10.34	10.34	38	59	0.00
Principal Arterial	221	2.43	70	10.41	68	7.99	22	38	151	100	2.63	11.62	9.00	31	53	4.14
Minor Arterial	159	2.58	54	10.28	51	7.70	20	24	105	75	2.81	12.68	9.86	27	31	4.23
Major Collector	250	4.12	97	16.92	93	12.80	37	43	153	143	4.84	21.72	16.88	55	58	8.96
Minor Collector	391	5.93	149	25.76	143	19.83	55	68	242	219	6.72	32.71	25.99	82	89	15.32
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
2-year Averages: 2008 - 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	274	0.00	72	10.34	72	10.34	31	31	202	119	0.00	10.34	10.34	52	57	0.00
Minor Arterial	222	2.59	69	10.22	67	7.63	20	39	153	97	2.75	11.14	8.39	29	53	3.51
Major Collector	157	2.64	53	9.85	51	7.21	19	24	104	74	2.87	12.17	9.30	27	31	3.93
Minor Collector	239	3.96	91	14.89	88	10.93	37	40	148	135	4.68	19.46	14.77	54	53	8.17
Local	380	5.92	145	25.03	139	19.11	53	67	235	214	6.81	32.49	25.67	80	87	14.37

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Averages: 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	269	0.00	52	0.00	52	0.00	31	21	217	93	0.00	0.00	0.00	41	52	0.00
Minor Arterial	213	3.05	68	10.68	65	7.63	19	38	145	96	3.05	11.60	8.54	27	53	4.58
Major Collector	151	2.64	50	10.10	48	7.46	17	23	101	72	2.76	12.31	9.55	24	32	3.59
Minor Collector	234	3.60	90	13.09	86	9.49	40	37	144	135	4.56	18.62	14.05	57	51	8.29
Local	373	5.92	141	24.98	135	19.06	52	63	232	205	6.62	31.30	24.68	78	81	14.51

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
9-year Averages: 2001 - 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Major Injury	Minor Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.76	0.03	1.10	0.16	1.07	0.14	0.40	0.54	2.66	1.65	0.03	0.19	0.16	0.54	0.86	0.05
Principal Arterial	1.90	0.02	0.62	0.09	0.60	0.07	0.21	0.31	1.28	0.90	0.02	0.11	0.09	0.30	0.44	0.05
Minor Arterial	0.39	0.01	0.13	0.03	0.13	0.02	0.05	0.06	0.25	0.19	0.01	0.03	0.03	0.07	0.08	0.01
Major Collector	0.15	0.00	0.06	0.01	0.05	0.01	0.02	0.02	0.09	0.08	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.07	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.01	0.02	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
8-year Averages: 2001 - 2009

Road System	Crash Densities (crashes/mile)									Crash Densities (crashes/mile)						
	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Major Injury Crash Densities	Minor Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.78	0.03	1.06	0.17	1.03	0.14	0.37	0.52	2.72	1.61	0.03	0.18	0.15	0.49	0.87	0.06
Principal Arterial	1.89	0.02	0.61	0.09	0.59	0.07	0.21	0.31	1.28	0.88	0.02	0.11	0.09	0.29	0.44	0.05
Minor Arterial	0.39	0.01	0.13	0.03	0.13	0.02	0.05	0.06	0.25	0.19	0.01	0.03	0.03	0.07	0.08	0.01
Major Collector	0.14	0.00	0.06	0.01	0.05	0.01	0.02	0.02	0.09	0.08	0.00	0.01	0.01	0.03	0.03	0.01
Minor Collector	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.01	0.02	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
7-year Averages: 2003 - 2009

Road System	Fatal		Fatal + Injury		Fatal + Major Injury		Injury		Major Injury		Minor Injury		Possible/Unknown Injury		Property Damage		Fatal + Major Injury		Minor Injury		Possible Injury		Unknown Injury	
	All Crash Densities	Crash Densities	Crash Densities	Injury Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Injury Densities	Injury Densities	Crash Densities	Crash Densities	Only Densities	All Injury Densities	Fatality Densities	Major Injury Densities	Major Densities	Injury Densities	Minor Densities	Possible Densities	Injury Densities	Unknown Densities
State																								
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	3.76	0.03	0.95	0.16	0.92	0.12	0.35	0.45	2.80	1.49	0.03	0.17	0.14	0.45	0.81	0.05								
Minor Arterial	1.87	0.02	0.60	0.09	0.58	0.07	0.20	0.31	1.26	0.87	0.02	0.11	0.09	0.28	0.43	0.05								
Major Collector	0.38	0.01	0.13	0.03	0.13	0.02	0.05	0.06	0.25	0.19	0.01	0.03	0.03	0.07	0.08	0.01								
Minor Collector	0.14	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.09	0.08	0.00	0.01	0.01	0.03	0.03	0.01								
Local	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.02	0.02	0.00								

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
6-year Averages: 2004 - 2009

Road System	Fatal		Fatal + Injury		Fatal + Major Injury		Injury		Major Injury		Minor Injury		Possible/Unknown Injury		Property Damage		Fatal + Major Injury		Minor Injury		Possible Injury		Unknown Injury		
	All Crash Densities	Crash Densities	Crash Densities	Injury Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Injury Densities	Injury Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	All Injury Densities	Fatality Densities	Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Possible Injury Densities	Unknown Injury Densities	
State																									
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	4.01	0.04	1.03	0.15	0.99	0.11	0.42	0.46	2.98	1.58	0.04	0.18	0.13	0.53	0.83	0.04									
Minor Arterial	1.85	0.02	0.60	0.09	0.58	0.07	0.20	0.31	1.25	0.87	0.02	0.11	0.09	0.28	0.44	0.05									
Major Collector	0.38	0.01	0.13	0.03	0.13	0.02	0.05	0.06	0.25	0.19	0.01	0.03	0.03	0.07	0.08	0.01									
Minor Collector	0.14	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.08	0.00	0.01	0.01	0.03	0.03	0.01									
Local	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.02	0.02	0.00									

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
5-year Averages: 2005 - 2009

Road System	Fatal		Fatal + Injury		Fatal + Major Injury		Injury		Major Injury		Minor Injury		Possible/Unknown Injury		Property Damage		Fatal + Major Injury		Minor Injury		Possible Injury		Unknown Injury		
	All Crash Densities	Crash Densities	Crash Densities	Injury Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities	Crash Densities
State																									
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	3.72	0.00	0.90	0.13	0.90	0.13	0.34	0.44	2.82	1.42	0.00	0.16	0.16	0.47	0.78	0.03									
Minor Arterial	1.89	0.02	0.62	0.09	0.60	0.07	0.20	0.33	1.27	0.89	0.02	0.11	0.09	0.28	0.45	0.05									
Major Collector	0.38	0.01	0.13	0.03	0.12	0.02	0.05	0.06	0.24	0.19	0.01	0.03	0.02	0.07	0.07	0.01									
Minor Collector	0.14	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.08	0.00	0.01	0.01	0.03	0.03	0.01									
Local	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.02	0.00									

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
4-year Averages: 2006 - 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Major Injury	Minor Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.71	0.00	0.90	0.13	0.90	0.13	0.29	0.48	2.81	1.42	0.00	0.16	0.16	0.45	0.77	0.03
Principal Arterial	1.89	0.02	0.60	0.09	0.58	0.07	0.20	0.31	1.28	0.86	0.02	0.11	0.09	0.27	0.44	0.04
Minor Arterial	0.37	0.01	0.13	0.03	0.12	0.02	0.05	0.06	0.25	0.18	0.01	0.03	0.02	0.06	0.07	0.01
Major Collector	0.13	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.08	0.00	0.01	0.01	0.03	0.03	0.01
Minor Collector	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
3-year Averages: 2007 - 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Major Injury	Minor Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.81	0.00	0.91	0.13	0.91	0.13	0.30	0.48	2.90	1.34	0.00	0.13	0.13	0.48	0.74	0.00
Principal Arterial	1.86	0.02	0.59	0.09	0.57	0.07	0.18	0.32	1.27	0.84	0.02	0.10	0.08	0.26	0.45	0.03
Minor Arterial	0.37	0.01	0.12	0.02	0.12	0.02	0.05	0.06	0.24	0.17	0.01	0.03	0.02	0.06	0.07	0.01
Major Collector	0.13	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.07	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.07	0.00	0.03	0.00	0.02	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.01	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
2-year Averages: 2008 - 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Major Injury	Minor Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.44	0.00	0.91	0.13	0.91	0.13	0.39	0.39	2.53	1.49	0.00	0.13	0.13	0.65	0.71	0.00
Principal Arterial	1.86	0.02	0.58	0.09	0.56	0.06	0.17	0.32	1.28	0.81	0.02	0.09	0.07	0.24	0.45	0.03
Minor Arterial	0.36	0.01	0.12	0.02	0.12	0.02	0.04	0.06	0.24	0.17	0.01	0.03	0.02	0.06	0.07	0.01
Major Collector	0.12	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.07	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.06	0.00	0.02	0.00	0.02	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.01	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Averages: 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Major Injury	Minor Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.37	0.00	0.65	0.00	0.65	0.00	0.39	0.26	2.73	1.17	0.00	0.00	0.00	0.52	0.65	0.00
Principal Arterial	1.78	0.03	0.57	0.09	0.54	0.06	0.16	0.32	1.22	0.80	0.03	0.10	0.07	0.22	0.44	0.04
Minor Arterial	0.35	0.01	0.12	0.02	0.11	0.02	0.04	0.05	0.23	0.17	0.01	0.03	0.02	0.06	0.07	0.01
Major Collector	0.12	0.00	0.05	0.01	0.05	0.00	0.02	0.02	0.08	0.07	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.06	0.00	0.02	0.00	0.02	0.00	0.01	0.01	0.04	0.03	0.00	0.01	0.00	0.01	0.01	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2009**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	52	269
Minor Arterial	3.05	3.05	68	213
Major Collector	2.64	2.76	50	151
Minor Collector	3.60	4.56	90	234
Local	5.92	6.62	141	373

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2008**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	93	279
Minor Arterial	2.14	2.44	70	231
Major Collector	2.64	2.98	56	163
Minor Collector	4.32	4.80	93	245
Local	5.92	7.01	150	387

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2007**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	72	362
Minor Arterial	2.10	2.40	73	220
Major Collector	2.46	2.70	54	162
Minor Collector	4.43	5.15	108	271
Local	5.94	6.53	157	413

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2006**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	73	280
Minor Arterial	2.08	2.38	75	229
Major Collector	3.22	3.61	60	166
Minor Collector	4.06	4.78	113	279
Local	5.52	6.21	177	426

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2005**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	71	293
Minor Arterial	2.29	2.29	80	220
Major Collector	3.16	3.74	62	164
Minor Collector	5.22	6.17	114	282
Local	6.08	6.57	184	447

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2004**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	18.82	18.82	113	367
Minor Arterial	1.70	1.98	59	191
Major Collector	2.79	3.01	58	169
Minor Collector	4.88	5.11	104	281
Local	5.89	6.28	179	449

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2003

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	53	227
Minor Arterial	2.27	2.27	69	227
Major Collector	2.66	2.94	58	176
Minor Collector	4.74	5.11	109	307
Local	7.12	7.81	181	480

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2002**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	113	243
Minor Arterial	1.49	1.49	64	202
Major Collector	3.44	3.57	60	180
Minor Collector	4.84	5.45	121	322
Local	7.05	8.14	202	514

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2001**

Road System	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
State				
Interstate	None	None	None	None
Principal Arterial	0.00	0.00	89	219
Minor Arterial	2.49	3.48	68	186
Major Collector	2.50	2.83	59	174
Minor Collector	4.72	5.57	117	296
Local	7.55	8.74	190	462

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
 by Functional Class and Severity
 Statewide, Secondary Road Crashes
 1-year Average: 2009

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	269	0.00	52	0.00	52	0.00	31	21	217	93	0.00	0.00	0.00	41	52	0.00
Minor Arterial	213	3.05	68	10.68	65	7.63	19	38	145	96	3.05	11.60	8.54	27	53	4.58
Major Collector	151	2.64	50	10.10	48	7.46	17	23	101	72	2.76	12.31	9.55	24	32	3.59
Minor Collector	234	3.60	90	13.09	86	9.49	40	37	144	135	4.56	18.62	14.05	57	51	8.29
Local	373	5.92	141	24.98	135	19.06	52	63	232	205	6.62	31.30	24.68	78	81	14.51

Source: Iowa Department of Transportation, Office of Traffic and Safety
 July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2008

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	279	0.00	93	20.68	93	20.68	31	41	186	145	0.00	20.68	20.68	62	62	0.00
Minor Arterial	231	2.14	70	9.77	68	7.63	22	39	161	98	2.44	10.68	8.24	31	54	2.44
Major Collector	163	2.64	56	9.61	54	6.97	21	25	107	76	2.98	12.03	9.05	29	31	4.27
Minor Collector	245	4.32	93	16.70	89	12.37	34	42	152	135	4.80	20.30	15.49	51	55	8.05
Local	387	5.92	150	25.08	144	19.16	54	71	237	223	7.01	33.67	26.66	82	93	14.22

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2007

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	362	0.00	72	10.34	72	10.34	10	52	289	83	0.00	10.34	10.34	10	62	0.00
Principal Arterial	220	2.10	73	10.78	71	8.69	25	37	147	105	2.40	12.58	10.18	35	52	5.39
Minor Arterial	162	2.46	54	11.14	52	8.69	20	23	108	77	2.70	13.69	10.99	28	31	4.82
Major Collector	271	4.43	108	20.97	104	16.54	38	50	163	161	5.15	26.25	21.09	56	68	10.55
Minor Collector	413	5.94	157	27.23	151	21.29	58	71	256	229	6.53	33.17	26.63	86	92	17.23
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2006

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	280	0.00	73	10.37	73	10.37	21	41	207	135	0.00	20.74	20.74	31	73	10.37
Principal Arterial	229	2.08	75	13.39	73	11.30	28	34	154	109	2.38	16.06	13.68	37	49	6.54
Minor Arterial	166	3.22	60	12.19	56	8.97	21	26	106	83	3.61	14.79	11.18	30	32	6.00
Major Collector	279	4.06	113	19.35	109	15.29	40	54	166	165	4.78	23.77	18.99	59	66	16.12
Minor Collector	426	5.52	177	26.99	172	21.47	67	84	249	257	6.21	33.98	27.78	98	101	23.84
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2005

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	293	0.00	71	10.09	71	10.09	40	20	222	111	0.00	10.09	10.09	40	61	0.00
Principal Arterial	220	2.29	80	10.58	78	8.29	26	44	140	117	2.29	13.44	11.15	35	57	12.01
Minor Arterial	164	3.16	62	11.75	58	8.59	21	28	103	91	3.74	15.12	11.38	31	36	9.20
Major Collector	282	5.22	114	21.47	109	16.25	41	52	168	169	6.17	27.64	21.47	61	62	19.33
Minor Collector	447	6.08	184	30.89	178	24.81	65	88	263	270	6.57	37.36	30.79	96	110	27.56
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2004

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	367	18.82	113	18.82	94	0.00	56	38	254	160	18.82	18.82	0.00	56	75	9.41
Principal Arterial	191	1.70	59	7.92	57	6.22	23	29	132	87	1.98	11.60	9.62	30	42	3.39
Minor Arterial	169	2.79	58	13.05	55	10.26	21	24	111	88	3.01	16.49	13.48	33	33	4.74
Major Collector	281	4.88	104	22.12	99	17.25	42	40	177	159	5.11	26.76	21.65	64	60	7.85
Minor Collector	449	5.89	179	33.18	173	27.29	68	78	270	272	6.28	42.51	36.22	106	108	15.22
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2003

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	227	0.00	53	13.37	53	13.37	7	33	174	94	0.00	13.37	13.37	13	60	6.69
Principal Arterial	227	2.27	69	11.64	67	9.37	22	35	158	102	2.27	13.35	11.07	34	48	7.10
Minor Arterial	176	2.66	58	12.33	55	9.67	22	24	118	85	2.94	14.84	11.90	33	35	3.10
Major Collector	307	4.74	109	21.28	104	16.54	43	45	198	163	5.11	25.54	20.43	63	68	5.84
Minor Collector	480	7.12	181	31.54	174	24.42	71	78	299	264	7.81	37.77	29.96	104	111	11.47
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2002

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	243	0.00	113	16.20	113	16.20	32	65	130	154	0.00	16.20	16.20	49	81	8.10
Principal Arterial	202	1.49	64	8.46	63	6.97	27	28	137	93	1.49	8.96	7.47	36	46	1.99
Minor Arterial	180	3.44	60	13.82	57	10.39	23	23	120	88	3.57	16.83	13.25	33	36	2.23
Major Collector	322	4.84	121	22.40	116	17.56	52	46	201	180	5.45	27.97	22.52	73	73	6.05
Minor Collector	514	7.05	202	36.14	195	29.09	87	79	312	305	8.14	46.97	38.83	125	125	8.94
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2001

Road System	All Crash Rates	Fatal Crash Rates	Fatal + Injury Crash Rates	Fatal + Major Injury Crash Rates	Injury Crash Rates	Minor Major Injury Crash Rates	Minor Injury Crash Rates	Possible/Unknown Injury Crash Rates	Property Damage Only Crash Rates	All Injury Rates	Fatality Rates	Fatal + Major Injury Rates	Major Injury Rates	Minor Injury Rates	Possible Injury Rates	Unknown Injury Rates
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	219	0.00	89	8.10	89	8.10	40	40	130	121	0.00	16.20	16.20	57	49	0.00
Principal Arterial	186	2.49	68	12.45	66	9.96	29	26	117	111	3.48	17.42	13.94	48	43	2.99
Minor Arterial	174	2.50	59	12.17	56	9.68	24	22	115	91	2.83	16.02	13.18	38	35	1.65
Major Collector	296	4.72	117	22.16	112	17.43	50	45	179	184	5.57	28.21	22.64	78	74	2.91
Minor Collector	462	7.55	190	34.75	182	27.21	83	72	273	302	8.74	46.57	37.83	134	118	3.67
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2009

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Injury	Injury	Possible/Unknown	Property Damage		Fatal + Major	Major	Minor	Possible	Unknown	
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	All Injury	Fatality	Injury	Injury	Injury	Injury	
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
Interstate	3.37	0.00	0.65	0.00	0.65	0.00	0.39	0.26	2.73	1.17	0.00	0.00	0.00	0.52	0.65	0.00
Principal Arterial	1.78	0.03	0.57	0.09	0.54	0.06	0.16	0.32	1.22	0.80	0.03	0.10	0.07	0.22	0.44	0.04
Minor Arterial	0.35	0.01	0.12	0.02	0.11	0.02	0.04	0.05	0.23	0.17	0.01	0.03	0.02	0.06	0.07	0.01
Major Collector	0.12	0.00	0.05	0.01	0.05	0.00	0.02	0.02	0.08	0.07	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.06	0.00	0.02	0.00	0.02	0.00	0.01	0.01	0.04	0.03	0.00	0.01	0.00	0.01	0.01	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2008

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Injury	Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal + Major	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.50	0.00	1.17	0.26	1.17	0.26	0.39	0.52	2.34	1.82	0.00	0.26	0.26	0.78	0.78	0.00
Principal Arterial	1.93	0.02	0.59	0.08	0.57	0.06	0.18	0.33	1.34	0.82	0.02	0.09	0.07	0.26	0.45	0.02
Minor Arterial	0.38	0.01	0.13	0.02	0.12	0.02	0.05	0.06	0.25	0.18	0.01	0.03	0.02	0.07	0.07	0.01
Major Collector	0.13	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.08	0.07	0.00	0.01	0.01	0.03	0.03	0.00
Minor Collector	0.07	0.00	0.03	0.00	0.02	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2007

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	4.54	0.00	0.91	0.13	0.91	0.13	0.13	0.65	3.63	1.04	0.00	0.13	0.13	0.13	0.78	0.00
Principal Arterial	1.87	0.02	0.62	0.09	0.60	0.07	0.21	0.32	1.25	0.90	0.02	0.11	0.09	0.30	0.44	0.05
Minor Arterial	0.38	0.01	0.13	0.03	0.12	0.02	0.05	0.05	0.25	0.18	0.01	0.03	0.03	0.07	0.07	0.01
Major Collector	0.14	0.00	0.06	0.01	0.05	0.01	0.02	0.03	0.09	0.08	0.00	0.01	0.01	0.03	0.04	0.01
Minor Collector	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.01	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2006

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State																
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	3.43	0.00	0.89	0.13	0.89	0.13	0.25	0.51	2.54	1.65	0.00	0.25	0.25	0.38	0.89	0.13
Minor Arterial	1.96	0.02	0.64	0.11	0.62	0.10	0.24	0.29	1.32	0.93	0.02	0.14	0.12	0.32	0.42	0.06
Major Collector	0.39	0.01	0.14	0.03	0.13	0.02	0.05	0.06	0.25	0.19	0.01	0.03	0.03	0.07	0.07	0.01
Minor Collector	0.15	0.00	0.06	0.01	0.06	0.01	0.02	0.03	0.09	0.09	0.00	0.01	0.01	0.03	0.03	0.01
Local	0.07	0.00	0.03	0.00	0.03	0.00	0.01	0.01	0.04	0.04	0.00	0.01	0.00	0.02	0.02	0.00

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2005

Road System	All Crash	Fatal	Fatal + Injury	Fatal + Major	Injury	Injury	Injury	Possible/Unknown	Property Damage	All Injury	Fatality	Fatal +	Major	Minor	Possible	Unknown
	Densities	Crash	Crash	Injury Crash	Crash	Crash	Crash	Injury Crash	Only Crash	Densities	Densities	Major Injury	Injury	Injury	Injury	Injury
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.76	0.00	0.91	0.13	0.91	0.13	0.52	0.26	2.86	1.43	0.00	0.13	0.13	0.52	0.78	0.00
Principal Arterial	1.89	0.02	0.69	0.09	0.67	0.07	0.22	0.38	1.20	1.01	0.02	0.12	0.10	0.30	0.49	0.10
Minor Arterial	0.38	0.01	0.14	0.03	0.14	0.02	0.05	0.07	0.24	0.21	0.01	0.04	0.03	0.07	0.08	0.02
Major Collector	0.15	0.00	0.06	0.01	0.06	0.01	0.02	0.03	0.09	0.09	0.00	0.01	0.01	0.03	0.03	0.01
Minor Collector	0.08	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.04	0.05	0.00	0.01	0.01	0.02	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2004

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State																
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	5.59	0.29	1.72	0.29	1.43	0.00	0.86	0.57	3.87	2.43	0.29	0.29	0.00	0.86	1.15	0.14
Minor Arterial	1.67	0.01	0.51	0.07	0.50	0.05	0.20	0.25	1.15	0.75	0.02	0.10	0.08	0.26	0.36	0.03
Major Collector	0.40	0.01	0.14	0.03	0.13	0.02	0.05	0.06	0.26	0.21	0.01	0.04	0.03	0.08	0.08	0.01
Minor Collector	0.15	0.00	0.05	0.01	0.05	0.01	0.02	0.02	0.09	0.08	0.00	0.01	0.01	0.03	0.03	0.00
Local	0.08	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.05	0.05	0.00	0.01	0.01	0.02	0.02	0.00

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2003

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State																
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	2.81	0.00	0.66	0.17	0.66	0.17	0.08	0.41	2.15	1.16	0.00	0.17	0.17	0.17	0.74	0.08
Minor Arterial	1.97	0.02	0.60	0.10	0.58	0.08	0.19	0.31	1.37	0.88	0.02	0.12	0.10	0.29	0.41	0.06
Major Collector	0.42	0.01	0.14	0.03	0.13	0.02	0.05	0.06	0.28	0.20	0.01	0.04	0.03	0.08	0.08	0.01
Minor Collector	0.16	0.00	0.06	0.01	0.05	0.01	0.02	0.02	0.10	0.08	0.00	0.01	0.01	0.03	0.04	0.00
Local	0.08	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.05	0.04	0.00	0.01	0.01	0.02	0.02	0.00

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2002

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State																
Interstate	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Principal Arterial	3.97	0.00	1.85	0.26	1.85	0.26	0.53	1.06	2.12	2.51	0.00	0.26	0.26	0.79	1.32	0.13
Minor Arterial	2.22	0.02	0.71	0.09	0.69	0.08	0.30	0.31	1.51	1.02	0.02	0.10	0.08	0.39	0.50	0.02
Major Collector	0.41	0.01	0.14	0.03	0.13	0.02	0.05	0.05	0.27	0.20	0.01	0.04	0.03	0.07	0.08	0.01
Minor Collector	0.17	0.00	0.06	0.01	0.06	0.01	0.03	0.02	0.10	0.09	0.00	0.01	0.01	0.04	0.04	0.00
Local	0.09	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.05	0.05	0.00	0.01	0.01	0.02	0.02	0.00

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

Crash Densities (crashes/mile)
by Functional Class and Severity
Statewide, Secondary Road Crashes
1-year Average: 2001

Road System	All Crash Densities	Fatal Crash Densities	Fatal + Injury Crash Densities	Fatal + Major Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Injury Crash Densities	Possible/Unknown Injury Crash Densities	Property Damage Only Crash Densities	All Injury Densities	Fatality Densities	Fatal + Major Injury Densities	Major Injury Densities	Minor Injury Densities	Possible Injury Densities	Unknown Injury Densities
State	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None
Interstate	3.57	0.00	1.46	0.13	1.46	0.13	0.66	0.66	2.12	1.98	0.00	0.26	0.26	0.93	0.79	0.00
Principal Arterial	2.04	0.03	0.75	0.14	0.72	0.11	0.32	0.29	1.29	1.22	0.04	0.19	0.15	0.53	0.47	0.03
Minor Arterial	0.39	0.01	0.13	0.03	0.13	0.02	0.06	0.05	0.26	0.21	0.01	0.04	0.03	0.09	0.08	0.00
Major Collector	0.15	0.00	0.06	0.01	0.06	0.01	0.03	0.02	0.09	0.10	0.00	0.01	0.01	0.04	0.04	0.00
Minor Collector	0.08	0.00	0.03	0.01	0.03	0.00	0.01	0.01	0.05	0.05	0.00	0.01	0.01	0.02	0.02	0.00
Local																

Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
Statewide, Secondary Road Crashes
2001 - 2009 Annual Summary**

Interstate

Fatal + Injury

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	None	None	None	None
2002	None	None	None	None
2003	None	None	None	None
2004	None	None	None	None
2005	None	None	None	None
2006	None	None	None	None
2007	None	None	None	None
2008	None	None	None	None
2009	None	None	None	None

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
Statewide, Secondary Road Crashes
2001 - 2009 Annual Summary**

Principal Arterial

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	0.00	0.00	89	219
2002	0.00	0.00	113	243
2003	0.00	0.00	53	227
2004	18.82	18.82	113	367
2005	0.00	0.00	71	293
2006	0.00	0.00	73	280
2007	0.00	0.00	72	362
2008	0.00	0.00	93	279
2009	0.00	0.00	52	269

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
Statewide, Secondary Road Crashes
2001 - 2009 Annual Summary**

Minor Arterial

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	2.49	3.48	68	186
2002	1.49	1.49	64	202
2003	2.27	2.27	69	227
2004	1.70	1.98	59	191
2005	2.29	2.29	80	220
2006	2.08	2.38	75	229
2007	2.10	2.40	73	220
2008	2.14	2.44	70	231
2009	3.05	3.05	68	213

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
Statewide, Secondary Road Crashes
2001 - 2009 Annual Summary**

Major Collector

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	2.50	2.83	59	174
2002	3.44	3.57	60	180
2003	2.66	2.94	58	176
2004	2.79	3.01	58	169
2005	3.16	3.74	62	164
2006	3.22	3.61	60	166
2007	2.46	2.70	54	162
2008	2.64	2.98	56	163
2009	2.64	2.76	50	151

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
Statewide, Secondary Road Crashes
2001 - 2009 Annual Summary**

Minor Collector

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	4.72	5.57	117	296
2002	4.84	5.45	121	322
2003	4.74	5.11	109	307
2004	4.88	5.11	104	281
2005	5.22	6.17	114	282
2006	4.06	4.78	113	279
2007	4.43	5.15	108	271
2008	4.32	4.80	93	245
2009	3.60	4.56	90	234

**Source: Iowa Department of Transportation, Office of Traffic and Safety
July 6, 2010**

**Crash Rates per 100 Million Vehicle Miles of Travel (crashes/HMVMT)
 Statewide, Secondary Road Crashes
 2001 - 2009 Annual Summary**

Local

	Fatal Crash Rates	Fatality Rates	Fatal + Injury Crash Rates	All Crash Rates
2001	7.55	8.74	190	462
2002	7.05	8.14	202	514
2003	7.12	7.81	181	480
2004	5.89	6.28	179	449
2005	6.08	6.57	184	447
2006	5.52	6.21	177	426
2007	5.94	6.53	157	413
2008	5.92	7.01	150	387
2009	5.92	6.62	141	373

**Source: Iowa Department of Transportation, Office of Traffic and Safety
 July 6, 2010**